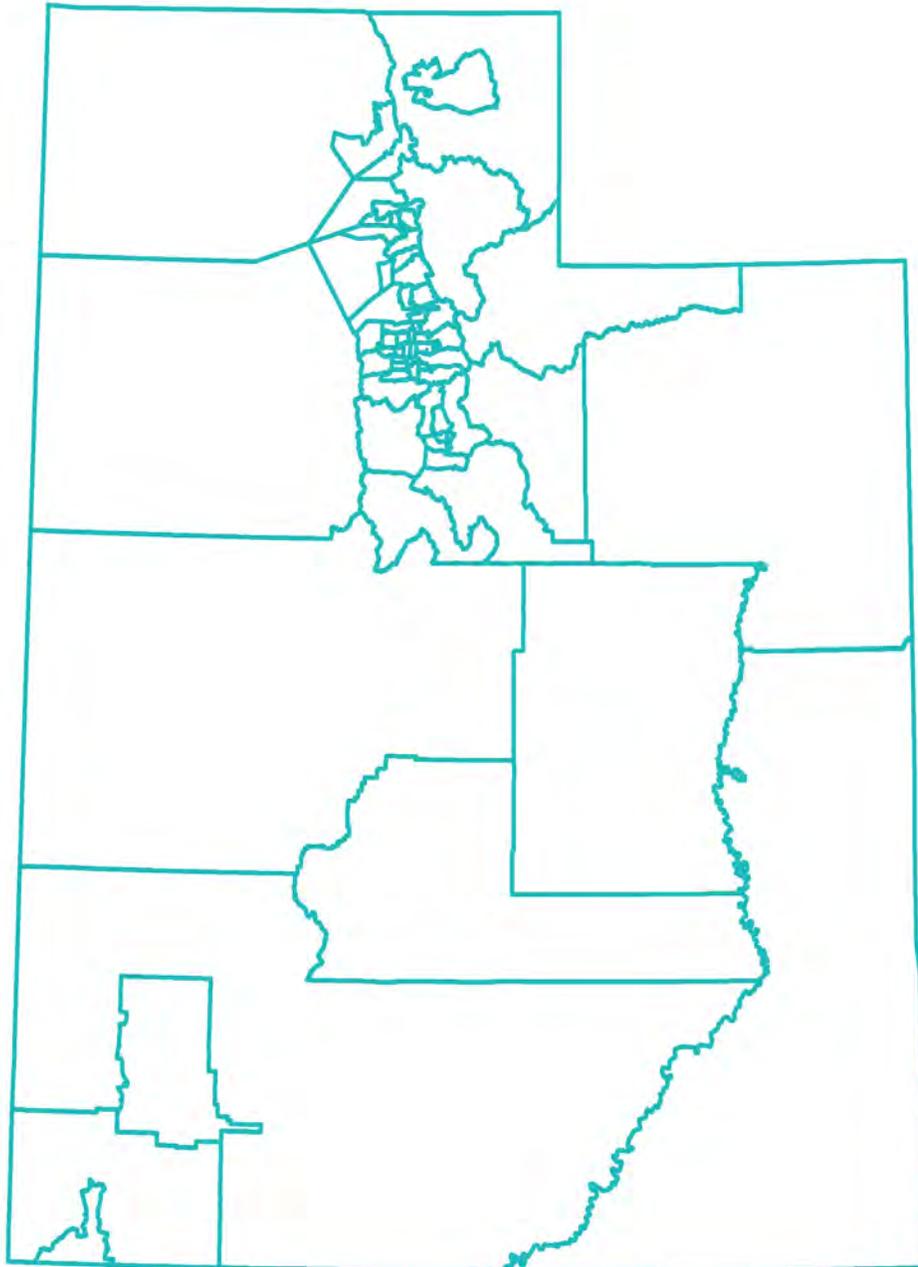


# Bureau of Health Promotion Small Area Report 2014



**Bear River LHD** BRIGHAM CITY  
 Box Elder County (Other ) Cache Co. (Oth)/Rich Co. (All)  
**LOGAN Central Utah LHD** Juab/  
 Millard/Sanpete Counties Sevier/Piute/Wayne Counties  
**Davis County LHD** BOUNTIFUL Clearfield/Hill AFB  
 LAYTON  
 Farmington/Centerville Syracuse/Kaysville  
 Woods Cross/North Salt Lake **Salt Lake County LHD**  
 COTTONWOOD Holladay Kearns MAGNA  
 Midvale Millcreek MURRAY Riverton/Draper  
 SLC (Avenues) SLC (Downtown) SLC (Foothill/U of U)  
 SLC (GLENDALE) SLC (Rose Park) Sandy Center  
**Sandy (NE)** Sandy (SE) SOUTH JORDAN  
 SOUTH SALT LAKE Taylorsville (East)/Murray (W est)  
**Taylorsville (West)** WEST JORDAN (NE)  
 West Jordan (SE) WEST JORDAN WEST, COPPERTON  
**West Valley East** West Valley West  
 Southeastern Utah LHD Carbon/Emery Counties GRAND/  
 SAN JUAN COUNTIES **Southwest Utah LHD**  
 Cedar City **Southwest LHD (Other)**  
 ST. GEORGE Washington Co. (Other ) Summit County LHD  
**Tooele County LHD** TriCounty LHD  
 Utah County LHD AMERICAN FORK/ALPINE Lehi/Cedar Valley  
**Orem East** Orem North OREM WEST  
**Pleasant Grove/Lindon**  
 PROVO NORTH/BYU Provo South Springville  
 /Spanish Fork UTAH CO. SOUTH Wasatch County LHD  
**Weber-Morgan LHD** Ben Lomond  
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 West Jordan (SE) WEST JORDAN WEST, COPPERTON

# Acknowledgments

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This report was prepared by the Utah Department of Health in part with funding provided through a Cooperative Agreement with the Centers for Disease Control and Prevention, Prevention and Public Health Fund: Coordinated Chronic Disease Prevention and Health Promotion Program.

Cooperative Agreement Award No. 3U58DP001993-04S1, Program Announcement: CDC – RFA DP09-9010301 PPHF11.

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Suggested citation: Bureau of Health Promotion Small Area Report 2014. Version 1.0 (2014). Salt Lake City, Utah:  
Utah Department of Health



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Governor

SPENCER J. COX  
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July 1, 2014

Dear Fellow Utahns:

I am proud to present the Utah Department of Health, **Bureau of Health Promotion Small Area Report**. The report is aligned with the department's **Strategic Plan 2013-2016**, and was developed to measure specific long-term outcomes identified in the **Utah Chronic Disease Prevention and Health Promotion State Plan**. The report establishes baselines on these outcomes to evaluate progress and to identify communities where activities may have the biggest impact.

This report is the first of its kind in reporting public health data at the neighborhood level using a cross section of indicators for injury and chronic diseases. Although public health programs have created similar categorical reports, this report required different programs to work together to identify their long term outcomes. Reporting data on multiple conditions offers Utah communities a strategy for tackling risk factors and health conditions using an integrated approach. It will also result in more effective and efficient use of the limited resources available for managing these issues. It is widely recognized that using data for surveillance and to evaluate programs and interventions are key to improving a community's health status.

The data graphics in the report provide a clear and concise picture of the health and demographic issues that exist in the small geographical communities. Additionally, the narrative includes examples for each indicator to help make decision makers aware of what evidence-based programs and services exist to address these health priorities.

Impacting the health indicators outlined in this report will require the efforts of many individuals and organizations. It can only be accomplished by engaging the community to build a sustainable infrastructure that includes health care systems, environmental supports and community resources. We look forward to serving as a resource in our capacity as a public health agency.

Sincerely,

W. David Patton, PhD  
Executive Director



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# Introduction

Chronic disease and injury are leading causes of death and disability in Utah and contribute to high health care costs. Many chronic diseases and injuries can be prevented or managed through implementation of systems, environmental supports, and individual changes. These can lead to Utahns living longer, healthier lives and experiencing lower health care costs. The Utah Department of Health's Bureau of Health Promotion Small Area Report was developed to support the work of the Utah Chronic Disease and Health Promotion State Plan. Funded by the Centers for Disease Control and Prevention (CDC), the State Plan identifies goals and objectives to unify statewide efforts to reduce the prevalence of chronic disease and injury. It also provides a framework for aligning statewide partner activities to achieve major, population-level changes.

The State Plan identifies five functional goal areas:

- Environmental Approaches that Promote Health
- Health Care Systems
- Community-Clinical Linkages
- Health Communication
- Data and Evaluation

The Small Area Report supports the State Plan under the Data and Evaluation goal area by providing data that the Utah Department of Health and its partners can use to collaborate in the planning, implementation, and evaluation of local and statewide programs and interventions. Geographic areas within the state may experience differences in health status, health risk factors, health care access, and health care quality. The Small Area Report describes the differences associated with the State Plan's priority public health outcomes. GIS mapping, graphs, tables, and narrative illustrate the impact of chronic disease and injury at the community level. The report shares examples of evidence-based programs that have been used for priority health conditions and risks. With this information, decision makers and stakeholders can target priority populations with the greatest potential for improving health risks and managing chronic diseases in their community.

Providing data for smaller geographical areas helps determine how to best allocate limited resources among communities in greatest need, and to identify subpopulations within these communities that experience health disparities. It is also a major impetus in fostering community engagement in health promotion and disease prevention efforts. With this resource, decision makers and stakeholders will build a sustainable infrastructure that offers environmental supports, resources, and linkages, making healthy living accessible to Utahns.

A health indicator is a numeric measure that depicts the status of a population or a health system on a core public health construct.

This text names the indicator being addressed.

This section describes the Healthy People 2020 objectives that align with the Utah indicator.

This section describes the public health significance of monitoring the indicator and provides some important health information.

This section connects the indicator to related goal areas from the Utah Chronic Disease Prevention and Health Promotion State Plan and provides a reference to the objective numbers.

The Case in Point gives specific examples of program activities.

## 1. Suicides Ages 10+

**Indicator Definition**  
The number of resident deaths resulting from the intentional use of force against oneself per 100,000 population.

**Healthy People 2020 Objective**  
MHMD-1: Reduce the suicide rate.

- U.S. Target: 10.2 suicides per 100,000 population
- State Target: 13.3 suicides per 100,000 population

**Overview**  
Suicide is the leading cause of death for Utahns aged 1 to 44 years old. Utah's suicide rate has been consistently higher than the national rate; in 2012, Utah's age-adjusted rate was 20.9 per 100,000 population. One in 15 Utah adults has had serious thoughts of suicide and many more people are hospitalized or treated in an emergency room for suicide attempts than are fatally injured<sup>1</sup>. Suicide is a complex public health issue often not openly discussed. Risk factors associated with suicide include depression or mental illness, alcohol and substance abuse, family history of suicide or violence, stressful life events or loss, relationship problems, school problems, physical illness, and loneliness<sup>2</sup>.

Among Utah Small Areas in 2011 and 2012, Grand/San Juan Counties small area had the highest rate of suicides among persons aged 10 and older (49.3 per 100,000 population) and Provo North/BYU had the lowest rate at 9.8\* per 100,000 population.

\*Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution.

**Related Strategic Goal Areas**  
This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal areas relate to the Case in Point.

- Strategic Goal Area 1: Environmental Approaches that Promote Health
  - Publish a statewide agenda addressing systems and environmental change to impact health promotion, chronic disease prevention and management, and injury prevention.
- Strategic Goal Area 3: Community-Clinical Linkages
  - Increase the number of Utahns who participate in and complete evidence-based programs in the community by 10%.

Strategic Goal Area	Related Objectives
Goal Area 1: Environmental Approaches that Promote Health	1.1, 1.2, 1.3, 1.4, 2.3, 2.9, 3.1, 3.2, 3.4, 3.6, 3.7, 4.7, 4.8, 4.9, 4.13, 5.1, 5.2, 5.3, 5.4
Goal Area 2: Health Care Systems	1.1, 1.5, 1.6, 1.8, 1.15
Goal Area 3: Community-Clinical Linkages	1.1, 1.2, 1.4, 1.5, 1.6, 1.9, 1.10
Goal Area 4: Health Communications	1.1, 1.2, 1.5, 1.6, 1.7, 1.8, 1.9
Goal Area 5: Data and Evaluation	1.1, 1.6, 1.7

17. Bureau of Health Promotion Small Area Report 2014

The Case in Point gives specific examples of program activities and prevention efforts that address the indicator area.

## Suicide Ages 10+

### *Case in Point: Promoting the Use of the Statewide Suicide Prevention Plan*

(Aligns with Strategic Goal Area 1: Environmental Approaches that Promote Health)

The Utah Department of Health Violence and Injury Prevention Program (VIPP) collaborated with the Utah Division of Substance Abuse and Mental Health (DSAMH) to create the Utah Suicide Prevention Coalition, which VIPP co-chairs. The Coalition consists of more than 90 members who represent state, local, and community-based organizations. VIPP was instrumental in developing the statewide Suicide Prevention Plan, which the Coalition uses to inform its work. The Plan focuses on nine goal areas defined by the Coalition. Each goal has specific objectives and activities that are assigned to the Coalition's subcommittees (Community Awareness, Epidemiology, Education and Training, and Policy) to accomplish during specified timeframes.

Examples of activities included in the Plan include suicide prevention training, using data to inform prevention efforts, and developing guidelines for health care professionals:

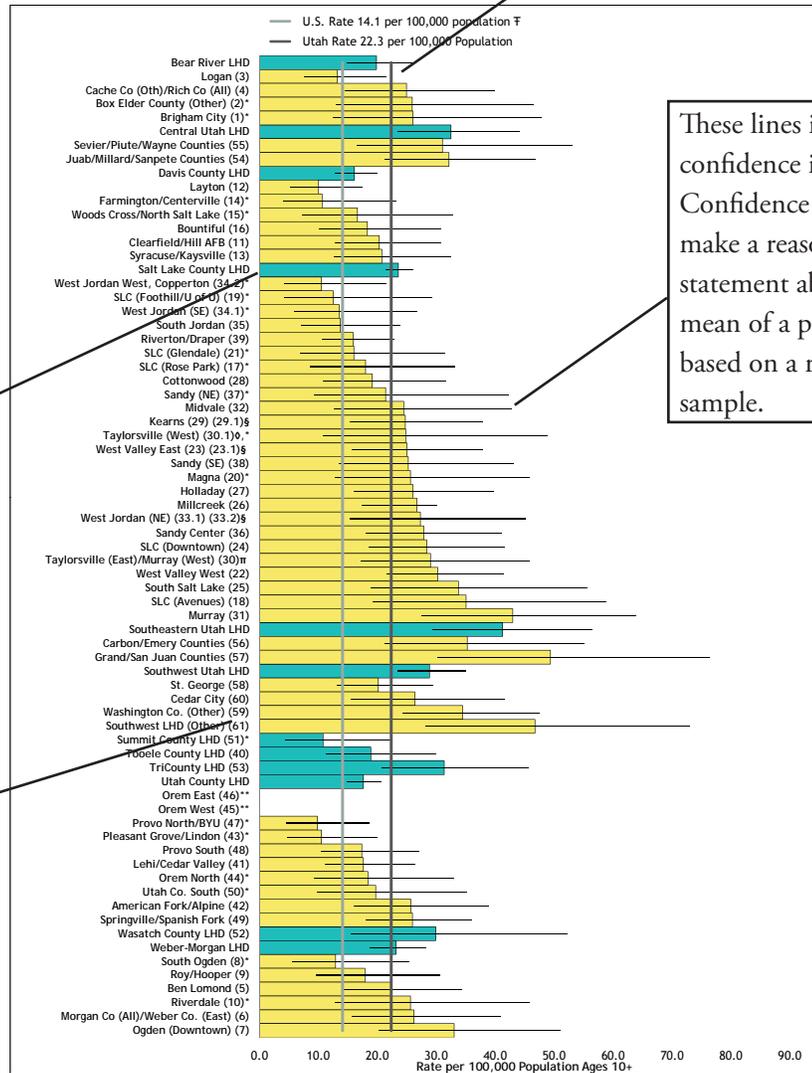
- “QPR” (Question, Persuade, Refer) is an evidence-based suicide prevention program designed to teach the warning signs of a suicide crisis and how to respond<sup>3</sup>. All 12 Local Health Districts in Utah have received resources from VIPP to have staff trained to become instructors to teach QPR for Suicide Prevention in their communities.
- VIPP is taking the lead in establishing the Utah Suicide Fatality Review Team in an effort to seek systemic means of preventing and addressing suicide fatalities. This comprehensive and multidisciplinary review of suicide fatalities will help to identify circumstances surrounding suicide deaths and provide an avenue for making systemic and prevention-oriented recommendations.
- VIPP identified suicide as a focus area in the Core Violence and Injury Prevention Program grant with a strategy to define, support, and implement guidelines for mental health screening (including substance abuse) on par with physical health screenings and treatment for suicidal individuals.

For more information about suicide visit the VIPP website at: <http://health.utah.gov/vipp/suicide/index.html>.

More information about the Suicide Prevention Coalition can be found at: <http://dsamh.utah.gov/utah-suicide-prevention-coalition-2/>.

## Suicides Ages 10+

Figure 1: Suicides per 100,000 Population Ages 10+ by Small Area, Health District, Utah, and U.S., 2011-2012



This graph displays the age-adjusted rates for both small areas and health districts.

Local health districts are represented by green bars.

The numbers next to the small area are the reference numbers on the maps.

The Utah and U.S. rates, when available, appear as lines for easy reference.

These lines indicate confidence intervals. Confidence intervals make a reasoned statement about the true mean of a population based on a random sample.

† 2009-2010 data were used to calculate U.S. rates. § In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). π In 2012, the Taylorville Utah Small Area was renamed Taylorville (East)/Murray (West) and the Taylorville (West) Utah Small Area was created (Appendix A). ¶ Data are from 2012. \*Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. \*\*The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

The graph is first arranged alphabetically by health district, then in ascending order of the percentage of the indicator by small area within each district.

# Guide to This Report

The first column provides the state ranking for each small area based on the age-adjusted rate. 1 is always the lowest rate in the state and 63 is always the highest rate in the state.

Crude rates should be used to gauge the true magnitude of the event in a community.

This table contains the crude rates for each small area, health district, the state, and the U.S. It also includes the total number of adults in the relevant population, and the estimated number of those adults with the health condition based on the corresponding population.

The numbers next to the small area are the reference numbers on the maps.

Table 1: Suicides per 100,000 Population Ages 10+ by Small Area, Health District, Utah, and U.S. 2011-2012

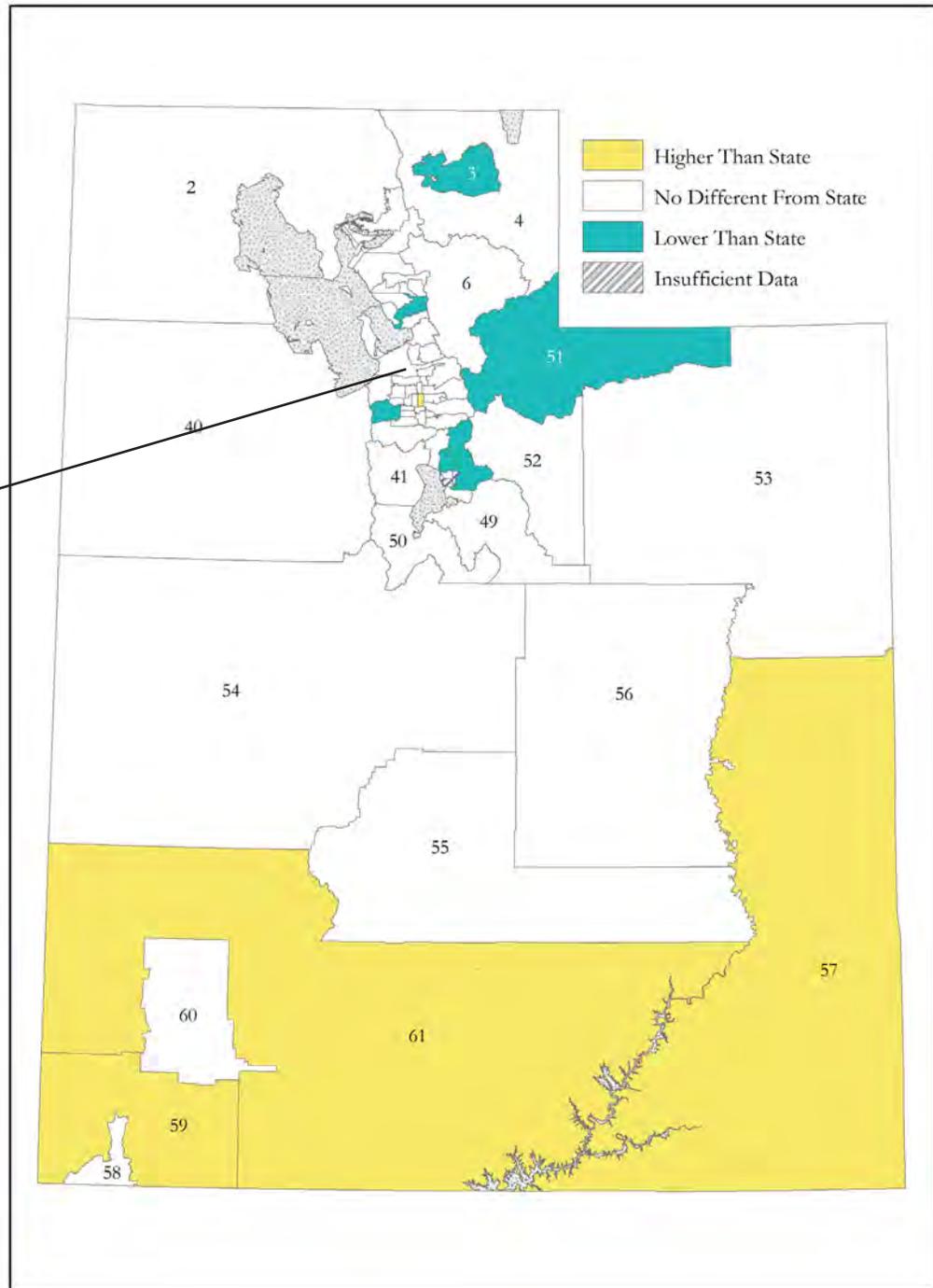
State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2011-2012 Population 10+	2011-2012 Suicides Ages 10+	Crude Rate	95% Confidence Interval Lower	95% Confidence Interval Upper
	U.S. <sup>†</sup>	534,540,031	75,241	14.1	14.0	14.2
	State of Utah	4,638,768	1,036	22.3	21.0	23.7
	Bear River LHD	272,184	54	19.8	14.9	25.9
40	Brigham City (1)	38,500	10	26.0*	12.5	47.8
38	Box Elder County (Other) (2)	42,412	11	25.9*	13.0	46.4
32	Cache Co (Oth)/Rich Co (All) (4)	68,247	17	24.9	14.5	39.9
9	Logan (3)	121,468	16	13.2	7.5	21.4
	Central Utah LHD	126,186	41	32.5	23.3	44.1
53	Juab/Millard/Sanpete Counties (54)	84,047	27	32.1	21.2	46.7
51	Sevier/Piute/Wayne Counties (55)	41,901	13	31.0	16.5	53.1
	Davis County LHD	504,000	81	16.1	12.8	20.0
19	Bountiful (16)	76,554	14	18.3	10.0	30.7
25	Clearfield/Hill AFB (11)	108,365	22	20.3	12.7	30.7
5	Farmington/Centerville (14)	56,400	6	10.6*	3.9	23.2
2	Layton (12)	120,733	12	9.9	5.1	17.4
26	Syracuse/Kaysville (13)	91,542	19	20.8	12.5	32.4
14	Woods Cross/North Salt Lake (15)	48,196	8	16.6*	7.2	32.7
	Salt Lake County LHD	1,756,794	414	23.6	21.4	26.0
22	Cottonwood (28)	78,485	15	19.1	10.7	31.5
41	Holladay (27)	80,779	21	26.0	16.1	39.7
30	Kearns (29) (29.1) <sup>‡</sup>	84,920	21	24.7	15.3	37.8
35	Magna (20)	42,885	11	25.6*	12.8	45.9
29	Midvale (32)	49,046	12	24.5	12.6	42.7
44	Millcreek (26)	97,457	26	26.7	17.4	30.1
59	Murray (31)	55,882	24	42.9	27.5	63.9
12	Riverton/Draper (39)	182,985	29	15.8	10.6	22.8
57	SLC (Avenues) (18)	39,947	14	35.0	19.2	58.8
47	SLC (Downtown) (24)	91,677	26	28.4	18.5	41.6
7	SLC (Foothill/U of U) (19)	40,006	5	12.5*	4.1	29.2
13	SLC (Glendale) (21)	49,954	8	16.0*	6.9	31.6
18	SLC (Rose Park) (17)	55,594	10	18.0*	8.6	33.1
46	Sandy Center (36)	89,702	25	27.9	18.0	41.1
27	Sandy (NE) (37)	37,339	8	21.4*	9.3	42.2
34	Sandy (SE) (38)	51,540	13	25.2	13.4	43.1
11	South Jordan (35)	87,616	12	13.7	7.1	23.9
55	South Salt Lake (25)	44,459	15	33.7	18.9	55.6
48	Taylorsville (East)/Murray (West) (30) <sup>§</sup>	62,064	18	29.0	17.2	45.8
31	Taylorsville (West) (30.1) <sup>§</sup>	32,313	8	24.8*	10.7	48.8
45	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	54,948	15	27.3	15.3	45.0
10	West Jordan (SE) (34.1)	59,108	8	13.5*	5.8	26.7
3	West Jordan West, Copperton (34.2)	66,881	7	10.5*	4.2	21.6
33	West Valley East (23) (23.1) <sup>§</sup>	87,885	22	25.0	15.7	37.9
50	West Valley West (22)	129,019	39	30.2	21.5	41.3
	Southeastern Utah LHD	94,546	39	41.2	29.3	56.4
58	Carbon/Emery Counties (56)	53,916	19	35.2	21.2	55.0
61	Grand/San Juan Counties (57)	40,527	20	49.3	30.1	76.2
	Southwest Utah LHD	346,739	100	28.8	23.5	35.1
43	Cedar City (60)	68,347	18	26.3	15.6	41.6
60	Southwest LHD (Other) (61)	40,671	19	46.7	28.1	73.0
24	St. George (58)	129,014	26	20.2	13.2	29.5
56	Washington Co. (Other) (59)	107,412	37	34.4	24.3	47.5
6	Summit County LHD (51)	64,659	7	10.8*	4.4	22.3
21	Tooele County LHD (40)	95,230	18	18.9	11.2	29.9
52	TriCounty LHD (53)	86,206	27	31.3	20.6	45.6
	Utah County LHD	846,288	149	17.6	14.9	20.7
37	American Fork/Alpine (42)	85,681	22	25.7	16.1	38.9
16	Lehi/Cedar Valley (41)	130,475	23	17.6	11.2	26.5
**	Orem East (46)	36,015	**	**	**	**
20	Orem North (44)	59,805	11	18.4*	9.2	32.9
**	Orem West (45)	52,872	**	**	**	**
4	Pleasant Grove/Lindon (43)	85,341	9	10.5*	4.8	20.0
1	Provo North/BYU (47)	91,479	9	9.8*	4.5	18.7
15	Provo South (48)	109,552	19	17.3	10.4	27.1
39	Springville/Spanish Fork (49)	134,919	35	25.9	18.1	36.1
23	Utah Co. South (50)	55,866	11	19.7*	9.8	35.2
49	Wasatch County LHD (52)	40,173	12	29.9	15.4	52.2
	Weber-Morgan LHD	405,763	94	23.2	18.7	28.4
28	Ben Lomond (5)	93,474	21	22.5	13.9	34.3
42	Morgan Co. (All)/Weber Co. (East) (6)	72,498	19	26.2	15.8	40.9
54	Ogden (Downtown) (7)	60,596	20	33.0	20.2	51.0
36	Riverdale (10)	43,023	11	25.6*	12.8	45.8
17	Roy/Hooper (9)	72,624	13	17.9	9.5	30.6
8	South Ogden (8)	61,939	8	12.9*	5.6	25.5

<sup>1</sup>State rank is by 62 small areas for unsuppressed data: 1 is always the lowest rate in the state and 62 is always the highest rate in the state. <sup>2</sup>2009-2010 data were used to calculate U.S. rates. <sup>3</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>4</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>5</sup>Data are from 2012. <sup>6</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. <sup>7</sup>The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

The table is arranged alphabetically by health district, then alphabetically by small area within each health district.

This map is shaded to indicate small areas with rates that were significantly higher or lower than the state rate.

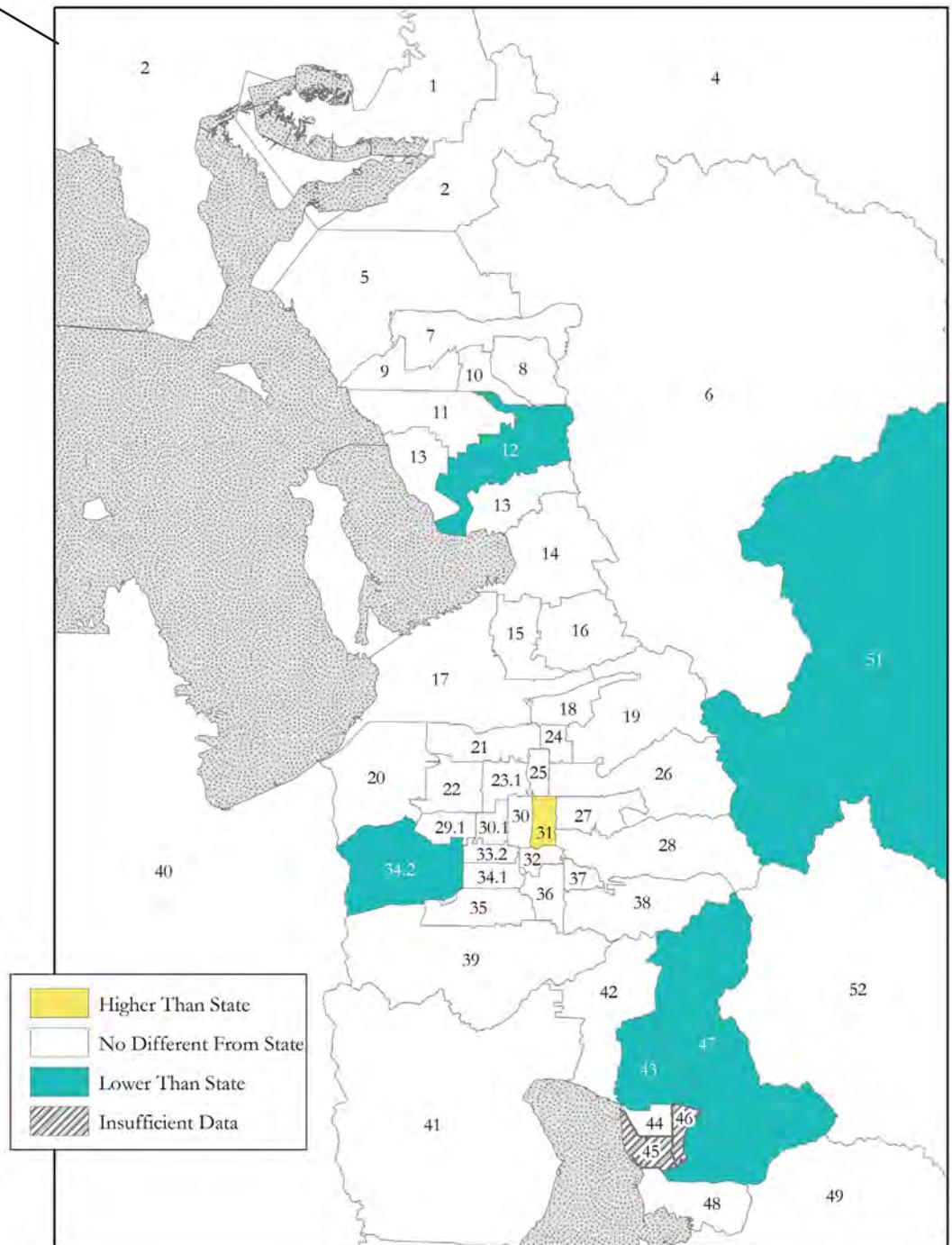
The Wasatch Front is enlarged on the next page for more detail.



The numbers on the map are small area labels. For a complete list of small area labels, names, and boundary definitions, please refer to *Appendix B: Small Area Definition and Key Maps*, beginning on page 109.

# Guide to This Report

This is an enlarged view of the Wasatch Front to show these small areas in more detail.



The numbers on the map are small area labels. For a complete list of small area labels, names, and boundary definitions, please refer to *Appendix B: Small Area Definition and Key Maps*, beginning on page 109.

# Indicator Summary Table

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	Suicides Ages 10+, 2011-2012	Prescription Opioid Deaths Ages 18+, 2009-2012	Cancer Deaths, 2011-2012 <sup>1</sup>	Cardiovascular Disease Deaths, 2011-2012 <sup>1</sup>	Current Adult Cigarette Smokers, 2011-2012	Adult Secondhand Smoke Exposure, 2011-2012	Obese Adults, 2011-2012	<sup>1</sup> Physically Active Adults, 2011-2012 <sup>2</sup>	Fall Hospitalizations Ages 65+ 2010-2011 <sup>1</sup>	<sup>1</sup> Infants Receiving First Trimester Prenatal Care, 2011-2012	<sup>1</sup> Female Breast Cancer Screenings Ages 40+, 2010-2012 <sup>2</sup>	<sup>1</sup> Colon Cancer Screenings Ages 50+, 2010, 2012 <sup>2</sup>	Pre-diabetic Adults, 2009-2012 <sup>1</sup>	<sup>1</sup> Adults Controlling High Blood Pressure, 2011-2012 <sup>2</sup>	<sup>1</sup> Diabetic Adults Receiving Diabetes Education, 2009-2012 <sup>2</sup>	Asthma ED Visits, 2010-2011 <sup>1</sup>	Adults With Arthritis Limited by Arthritis, 2009, 2011 <sup>1</sup>
<b>U.S.</b>	14.1	--	173.2	181.0	19.8	--	27.4	51.6	149.9	--	74.0	68.1	7.1	59.7	55.5	--	47.6
<b>State of Utah</b>	22.3	12.2	126.5	142.5	10.8	39.5	24.9	60.0	122.9	75.1	66.3	68.3	5.6	53.7	60.6	21.8	45.8
<b>Bear River LHD</b>	19.8	8.2	117.2	139.7	7.6	36.2	26.3	62.3	92.5	80.6	65.4	68.2	6.2	48.0	56.1	16.2	42.2
Brigham City (1)	26.0*	7.8*	117.8	181.2	14.3	42.8	35.0	62.5	52.7	83.8	57.7	60.9	5.3*	73.7*	67.1	14.4	62.8
	40	8	17	57	46	41	61	36	1	61	11	11	28	58	42	15	56
Box Elder County (Other) (2)	25.9*	11.7*	143.5	153.1	9.0	45.1	27.9	61.3	80.4	79.2	61.4	73.8	4.7*	71.7*	58.8	26.3	32.9
	38	26	50	35	21	50	45	34	4	42	18	45	18	56	27	41	6
Cache Co. (Oth)/Rich Co. (All) (4)	24.9	8.4*	122.9	143.5	5.8	30.1	23.9	58.1	94.8	80.4	65.4	64.4	5.5*	42.3	63.1	13.4	53.7
	32	11	23	26	7	5	26	24	9	49	31	21	31	6	32	11	44
Logan (3)	13.2	7.1	102.1	116.3	6.8	32.4	23.9	65.7	117.8	80.3	73.6	70.5	7.8	40.9	48.9	14.8	48.5
	9	4	3	8	11	11	27	49	31	48	53	34	52	5	12	16	34
<b>Central Utah LHD</b>	32.5	15.0	143.6	154.3	12.7	39.8	25.5	57.1	136.4	71.6	59.3	61.8	4.3	59.7	62.8	32.3	36.4
Juab/Millard/Sanpete Counties (54)	32.1	13.1	149.9	164.4	11.9	40.5	24.8	56.1	130.9	68.8	56.6	62.7	4.5	61.1	64.7	27.3	37.2
	53	36	54	47	36	35	30	18	41	14	9	18	16	42	36	43	13
Sevier/Piute/Wayne Counties (55)	31.0	18.8	141.4	156.2	14.2	38.5	28.0	57.9	147.1	78.1	66.6	60.2	3.6*	59.7	63.5	43.2	34.7
	51	54	46	39	45	26	46	22	53	40	37	10	7	39	34	59	8
<b>Davis County LHD</b>	16.1	10.3	122.9	145.9	8.5	39.5	25.2	61.2	126.3	79.6	68.9	71.1	6.5	54.2	57.0	16.6	49.9
Bountiful (16)	18.3	10.7	122.5	134.4	6.2	35.1	21.7	63.8	146.7	80.5	68.7	75.0	7.7	62.9	61.1	16.6	61.1
	19	19	22	22	9	19	16	41	51	50	42	51	51	44	30	24	21
Clearfield/Hill AFB (11)	20.3	9.6	142.8	167.9	12.3	46.9	33.1	52.9	117.4	77.8	62.1	63.1	8.6	63.6	41.5	22.2	41.5
	25	14	47	50	38	54	59	11	29	37	22	19	55	45	8	34	16
Farmington/Centerville (14)	10.6*	9.8*	117.9	143.8	4.4*	39.9	24.3	63.1	136.8	82.6	74.1	75.8	5.1	48.3*	52.1	11.1	52.1
	5	15	18	28	2	32	28	38	43	58	55	57	25	17	17	5	49
Layton (12)	9.9	11.5	124.8	157.8	8.5	39.5	26.2	60.4	105.0	77.5	67.3	75.3	5.2	53.3	76.8	17.1	76.8
	2	24	28	43	19	31	37	31	17	35	38	54	26	25	56	26	38
Syracuse/Kaysville (13)	20.8	7.9*	108.5	141.3	7.0*	31.9	20.5	65.9	129.2	80.6	75.6	65.6	5.5*	55.0	56.8	10.6	56.8
	26	9	9	25	13	10	9	51	40	51	58	23	32	30	25	4	45
Woods Cross/North Salt Lake (15)	16.6*	12.7*	151.6	130.6	10.6*	53.6	23.7	65.8	97.5	82.7	56.3	67.7	6.7*	44.5	46.8	21.1	46.8
	14	33	56	19	31	59	25	50	11	59	7	26	41	11	9	32	47
<b>Salt Lake County LHD</b>	23.6	11.9	129.6	137.3	12.5	42.5	24.9	60.5	136.1	75.3	66.0	70.9	5.5	53.9	56.1	26.6	48.1
Cottonwood (28)	19.1	8.9	110.0	139.6	9.5	39.9	14.6	68.8	110.8	79.3	69.3	74.5	4.3	50.1	54.6	14.4	38.5
	22	13	10	24	25	33	3	55	21	43	45	48	15	21	21	14	14
Holladay (27)	26.0	12.0	120.8	114.6	12.7	42.5	22.7	64.2	156.8	78.0	79.8	77.3	3.9	53.5	63.4*	25.4	46.3
	41	28	20	7	39	39	21	43	57	38	63	60	9	27	33	39	28
Kearns (29) (29.1) <sup>§</sup>	24.7	11.8	166.6	152.4	20.9	57.7	36.1	55.7	142.7	70.8	52.2	61.0	6.1	58.2	65.5	38.0	63.2
	30	27	63	34	60	61	63	16	47	18	3	12	39	37	37	55	57
Magna (20)	25.6*	13.0*	158.9	206.6	19.5	38.4	35.1	40.4	145.5	75.9	64.2	66.7	5.3*	**	29.9	27.5	48.8
	35	34	61	61	57	25	62	1	50	31	28	25	29	**	1	44	35
Midvale (32)	24.5	17.2	153.3	156.3	14.8	50.8	30.0	60.8	157.9	72.2	63.2	66.1	7.4*	54.2	38.7	37.6	62.2
	29	50	59	40	49	57	51	32	58	23	25	24	50	29	6	54	55
Millcreek (26)	26.7	11.0	127.4	126.0	9.4	39.1	21.7	73.0	159.5	80.1	73.2	74.8	4.9	56.5	69.3	25.5	31.6
	44	23	29	15	24	30	17	60	59	46	52	50	23	33	44	40	5
Murray (31)	42.9	18.4	120.6	153.1	14.7	44.3	34.2	56.6	145.1	76.0	64.9	61.3	6.7*	52.4	40.9	47.9	57.9
	59	52	19	36	47	47	60	20	49	33	30	13	42	24	7	62	51
Riverton/Draper (39)	15.8	6.3	134.5	121.5	7.9	31.7	22.2	59.0	112.5	83.3	67.4	74.7	4.2	65.1	56.7	16.2	41.4
	12	3	39	11	18	9	18	29	24	60	39	49	11	50	23	23	19

# Indicator Summary Table

	Suicides Ages 10+, 2011-2012	Prescription Opioid Deaths Ages 18+, 2009-2012	Cancer Deaths, 2011-2012 <sup>1</sup>	Cardiovascular Disease Deaths, 2011-2012 <sup>1</sup>	Current Adult Cigarette Smokers, 2011-2012	Adult Secondhand Smoke Exposure, 2011-2012	Obese Adults, 2011-2012	%Physically Active Adults, 2011-2012 <sup>2</sup>	Fall Hospitalizations Ages 65+, 2010-2011 <sup>1</sup>	%Infants Receiving First Trimester Prenatal Care, 2011-2012	%Female Breast Cancer Screenings Ages 40+, 2010-2012 <sup>1</sup>	%Colon Cancer Screenings Ages 50+, 2010, 2012 <sup>2</sup>	Pre-diabetic Adults, 2009-2012 <sup>2</sup>	%Adults Controlling High Blood Pressure, 2011-2012 <sup>2</sup>	%Diabetic Adults Receiving Diabetes Education, 2009-2012 <sup>2</sup>	Asthma ED Visits, 2010-2011 <sup>1</sup>	Adults With Arthritis Limited by Arthritis, 2009, 2011 <sup>1</sup>
<b>U.S.</b>	14.1	--	173.2	181.0	19.8	--	27.4	51.6	149.9	--	74.0	68.1	7.1	59.7	55.5	--	47.6
<b>State of Utah</b>	22.3	12.2	126.5	142.5	10.8	39.5	24.9	60.0	122.9	75.1	66.3	68.3	5.6	53.7	60.6	21.8	45.8
SLC (Avenues) (18)	35.0 57	** 5	103.2 2	97.4 34	11.2 55	48.4 1	9.2 61	75.1 38	128.2 44	79.7 16	59.2 15	62.4 22	4.8* 7	42.7* 53	74.6* 38	25.1 53	59.3 53
SLC (Downtown) (24)	28.4 47	16.5 48	134.6 40	128.9 18	14.7 48	52.5 58	21.2 13	67.2 52	185.8 61	75.5 30	56.5 8	70.3 33	2.7* 2	57.5 36	79.0 58	29.9 47	47.6 32
SLC (Foothill/U of U) (19)	12.5* 7	** 7	107.6 1	89.6 15	7.3* 6	30.5 4	17.7 37	62.6 60	176.3 57	82.5 61	77.7 39	72.3 39	** **	** **	52.7 18	15.0 18	36.4 9
SLC (Glendale) (21)	16.0* 13	20.1 55	123.5 25	165.2 49	26.6 61	60.5 62	30.0 52	40.7 2	137.5 44	63.0 2	50.0 1	45.9 1	** **	43.2 8	38.5 4	44.2 60	67.5 60
SLC (Rose Park) (17)	18.0* 18	13.0 35	151.9 57	168.8 51	10.6 30	37.9 24	27.2 40	48.7 5	128.8 39	64.9 6	56.1 6	51.1 4	5.9* 37	61.4* 43	71.8 49	36.6 53	70.9 61
Sandy Center (36)	27.9 46	16.5 49	133.6 38	148.1 31	14.1 44	45.3 51	25.7 35	59.0 30	143.4 48	78.0 39	65.4 32	72.8 40	4.2 12	57.4 35	51.2 16	19.9 31	54.2 46
Sandy (NE) (37)	21.4* 27	** 52	146.4 17	127.5 16	7.4* 16	39.0 29	17.9 5	72.1 58	114.7 27	81.4 54	64.8 29	80.3 62	5.2 27	64.1* 48	34.2 2	16.2 22	36.7 10
Sandy (SE) (38)	25.2 34	** 21	122.0 16	126.3 5	5.2* 14	32.7 6	18.5 62	76.4 5	88.2 5	80.2 47	73.6 54	79.8 61	4.2 13	46.6* 16	81.9* 59	14.1 13	37.0 12
South Jordan (35)	13.7 11	7.4* 5	129.6 33	99.0 3	4.8* 3	25.7 1	22.2 19	51.0 8	123.2 34	84.9 62	74.4 56	75.2 53	7.8 53	69.6 55	54.4 20	13.9 12	47.2 31
South Salt Lake (25)	33.7 55	34.8 57	133.2 36	213.1 62	14.0 43	61.9 63	26.1 36	44.3 4	189.1 62	67.8 12	60.9 17	46.2 2	8.3* 54	68.2* 52	37.7 3	41.0 58	59.3 54
Taylorsville (East)/Murray (West) (30) <sup>II</sup>	29.0 48	15.6 44	138.7 43	157.6 42	15.5 50	44.2 46	24.8 31	58.6 27	139.0 45	71.7 21	75.5 57	69.5 31	7.1* 48	49.9 20	52.7 19	31.7 49	74.1 62
Taylorsville (West) (30.1) <sup>0</sup>	24.8* 31	** 35	132.5 56	180.0 28	10.5* 28	42.1 38	23.3 23	78.1 63	N/A N/A	79.9 45	55.5 5	75.6 55	** **	** **	** **	N/A N/A	N/A N/A
West Jordan (NE) (33.1) (33.2) <sup>5</sup>	27.3 45	14.3 41	129.5 32	162.1 46	12.7 40	41.8 36	27.5 42	63.3 40	113.1 25	75.9 32	61.9 20	73.8 46	6.1 40	60.4* 41	75.9 54	31.0 48	43.7 24
West Jordan (SE) (34.1)	13.5* 10	14.7 42	111.8 11	148.4 32	11.0 33	42.8 42	27.5 43	63.1 39	107.8 20	74.5 25	72.2 49	73.6 43	6.9* 44	46.2 13	47.7 10	23.7 36	51.6 39
West Jordan West, Copperton (34.2)	10.5* 3	5.0* 1	149.7 53	117.5 9	9.4 23	36.7 21	29.7 50	58.5 26	89.6 6	80.6 52	69.0 43	76.5 59	3.3* 4	79.2* 59	57.9* 26	22.8 35	28.1 1
West Valley East (23) (23.1) <sup>5</sup>	25.0 33	9.9 16	123.4 24	156.8 41	19.0 56	54.0 60	31.6 58	57.5 21	96.2 10	64.6 4	57.8 13	69.2 28	5.5* 33	44.1 10	60.4 29	38.4 56	39.5 17
West Valley West (22)	30.2 50	13.2 38	159.0 62	160.3 45	17.9 55	44.3 48	28.3 47	52.5 10	121.4 32	68.5 13	62.9 23	72.8 41	5.9 38	51.4 22	72.5 51	31.8 50	44.8 26
<b>Southeastern Utah LHD</b>	41.2	25.0	139.8	172.6	16.3	43.3	26.5	55.4	88.5	62.8	62.8	54.4	4.3	53.2	46.0	26.9	52.0
Carbon/Emery Counties (56)	35.2 58	37.8 58	133.3 37	219.6 63	17.6 54	46.1 53	30.4 54	50.9 7	105.8 18	70.7 16	67.4 40	57.3 7	4.7 19	46.5 14	38.6 5	35.1 52	43.9 25
Grand/San Juan Counties (57)	49.3 61	7.5* 6	152.4 58	107.4 5	12.9 41	33.4 17	21.0 12	61.2 33	62.9 2	52.2 1	51.2 2	50.5 3	3.0 3	65.5* 51	64.3* 35	16.0 20	66.6* 59
<b>Southwest Utah LHD</b>	28.8	13.3	117.7	121.7	9.6	39.6	24.2	59.0	109.6	67.1	65.8	66.3	6.3	54.9	70.7	19.3	45.8
Cedar City (60)	26.3 43	13.1 37	144.5 51	172.6 54	10.5 29	29.0 4	64.6 48	98.4 46	75.0 13	63.6 27	69.4 27	68* 30	57.1 43	66.1* 34	16.8 39	59.2 25	52
Southwest LHD (Other) (61)	46.7 60	11.5* 25	123.7 26	137.1 23	13.3 42	32.5 13	23.5 24	41.3 3	101.9 14	67.2 7	57.6 10	59.8 9	** **	45.7* 12	56.7 24	18.4 29	39.0 15
St. George (58)	20.2 24	10.8 21	117.3 15	117.6 10	12.2 37	46.0 52	20.8 11	63.8 42	125.0 37	63.6 3	66.4 36	61.6 14	4.2 14	39.7 2	59.9 28	21.7 33	30.5 3
Washington Co. (Other) (59)	34.4 56	17.4 51	113.0 12	111.1 6	6.1 8	40.3 34	25.0 32	53.7 13	97.6 12	64.8 5	65.7 34	70.7 35	4.7 20	63.6 46	69.4 45	18.8 30	55.2 48

# Indicator Summary Table

	Higher than State	No Different from State	Lower than State	Rank by Small Area <sup>†</sup> 1=lowest 62=highest	Small area number referenced on maps	Suicides Ages 10+, 2011-2012 <sup>1</sup>	Prescription Opioid Deaths Ages 18+, 2009-2012	Cancer Deaths, 2011-2012 <sup>2</sup>	Cardiovascular Disease Deaths, 2011-2012 <sup>2</sup>	Current Adult Cigarette Smokers, 2011-2012	Adult Secondhand Smoke Exposure, 2011-2012	Obese Adults, 2011-2012	Physically Active Adults, 2011-2012 <sup>6</sup>	Fall Hospitalizations Ages 65+ 2010-2011 <sup>7</sup>	Infants Receiving First Trimester Prenatal Care, 2011-2012	Female Breast Cancer Screenings Ages 40+, 2010-2012 <sup>8</sup>	Colon Cancer Screenings Ages 50+, 2010, 2012 <sup>9</sup>	Pre-diabetic Adults, 2009-2012 <sup>10</sup>	Adults Controlling High Blood Pressure, 2011-2012 <sup>11</sup>	Diabetic Adults Receiving Diabetes Education, 2009-2012 <sup>12</sup>	Asthma ED Visits, 2010-2011 <sup>13</sup>	Adults With Arthritis Limited by Arthritis, 2009, 2011 <sup>14</sup>
U.S.						14.1	--	173.2	181.0	19.8	--	27.4	51.6	149.9	--	74.0	68.1	7.1	59.7	55.5	--	47.6
State of Utah						22.3	12.2	126.5	142.5	10.8	39.5	24.9	60.0	122.9	75.1	66.3	68.3	5.6	53.7	60.6	21.8	45.8
Summit County LHD (51)	Higher than State	No Different from State	Lower than State	10.8*	6	12.1	29	123.7	133.2	8.6	30.5	12.1	67.9	102.1	70.7	72.8	71.7	4.0	68.8	49.8	16.1	42.0
Tooele County LHD (40)	Higher than State	No Different from State	Lower than State	18.9	21	15.9	46	140.1	169.4	16.6	42.9	29.2	51.9	146.8	71.3	58.6	69.6	5.5	60.1	66.2	28.5	51.9
TriCounty LHD (53)	Higher than State	No Different from State	Lower than State	31.3	52	9.9	17	143.3	164.6	19.5	43.0	27.8	58.2	94.4	75.4	57.7	53.0	6.9*	53.7	65.9	45.9	41.4
Utah County LHD	Higher than State	No Different from State	Lower than State	17.6	52	10.2	48	121.9	153.7	6.1	34.2	24.0	59.5	128.9	74.1	65.2	66.3	4.8	47.9	68.4	12.3	45.3
American Fork/Alpine (42)	Higher than State	No Different from State	Lower than State	25.7	37	10.9	22	116.0	133.4	3.7*	27.0	25.2	62.3	140.8	80.8	61.8	59.3	4.6	40.6	50.2	12.4	42.2
Lehi/Cedar Valley (41)	Higher than State	No Different from State	Lower than State	17.6	16	6.0	2	142.9	143.5	5.3	35.9	27.0	52.9	123.3	82.2	54.5	73.9	5.7	52.0	73.4*	11.7	48.2
Orem East (46)	Higher than State	No Different from State	Lower than State	**	**	8.5*	12	102.7	121.6	10.6*	34.6	25.4	64.9	124.6	70.9	77.1	65.5	1.9*	**	**	7.6	50.7
Orem North (44)	Higher than State	No Different from State	Lower than State	18.4*	20	15.1	43	113.2	178.8	6.6*	43.7	27.4	55.8	132.0	69.3	71.6	62.5	5.6*	39.8	61.6	17.1	28.7
Orem West (45)	Higher than State	No Different from State	Lower than State	**	**	12.1*	30	92.4	155.9	**	44.5	21.4	64.5	117.2	67.6	69.1	75.6	4.7*	73.0*	72.2	12.9	46.7
Pleasant Grove/Lindon (43)	Higher than State	No Different from State	Lower than State	10.5*	4	12.2	31	108.3	122.7	7.1	32.4	20.2	56.4	112.3	76.9	63.4	80.5	3.3*	48.9	84.8*	8.9	46.1
Provo North/BYU (47)	Higher than State	No Different from State	Lower than State	9.8*	1	7.6	7	117.5	106.8	**	36.9	19.6	72.8	148.4	67.2	67.5	69.2	6.9*	28.4	68.0	7.2	52.5
Provo South (48)	Higher than State	No Different from State	Lower than State	17.3	15	8.2	10	151.5	153.5	4.9*	31.4	26.6	57.9	156.2	67.3	63.1	57.2	7.0*	53.3	47.9*	24.8	46.9
Springville/Spanish Fork (49)	Higher than State	No Different from State	Lower than State	25.9	39	13.4	39	128.1	203.9	6.9	33.1	24.6	64.7	121.6	71.9	69.9	72.9	5.0	64.1	84.4*	11.7	33.4
Utah Co. South (50)	Higher than State	No Different from State	Lower than State	19.7*	23	10.7*	20	140.6	205.3	9.9	27.0	22.2	64.3	117.5	74.9	58.3	62.5	3.7*	46.5	77.6	15.2	52.1
Wasatch County LHD (52)	Higher than State	No Different from State	Lower than State	29.9	49	15.7*	45	101.6	145.5	7.8	33.0	20.6	70.8	90.8	67.6	65.4	73.7	5.3*	43.2	71.2	15.0	56.4
Weber-Morgan LHD	Higher than State	No Different from State	Lower than State	23.2	28	16.4	53	129.7	154.9	14.2	41.7	27.4	60.3	109.2	78.7	71.9	70.7	6.7	56.7	66.2	25.7	43.3
Ben Lomond (5)	Higher than State	No Different from State	Lower than State	22.5	28	18.5	53	155.4	189.3	16.3	50.2	30.4	55.5	111.0	77.7	71.0	64.1	7.1	55.3	71.2	27.2	52.4
Morgan Co (All)/Weber Co. (East) (6)	Higher than State	No Different from State	Lower than State	26.2	42	9.9*	18	104.5	151.0	11.3	37.3	21.5	68.8	104.1	86.7	77.2	75.8	3.3*	48.9	49.5	11.7	31.1
Ogden (Downtown) (7)	Higher than State	No Different from State	Lower than State	33.0	54	25.6	56	135.6	171.5	19.9	42.6	30.5	50.8	74.9	73.2	62.0	67.9	9.8*	56.0	66.6	40.4	39.9
Riverdale (10)	Higher than State	No Different from State	Lower than State	25.6*	36	16.4	47	131.8	160.0	9.3	42.0	30.9	53.7	152.8	79.1	78.0	71.9	11.9*	63.7*	76.2*	33.2	36.7
Roy/Hooper (9)	Higher than State	No Different from State	Lower than State	17.9	17	12.5	32	135.7	124.9	16.1	38.5	30.6	58.7	106.6	81.5	66.0	71.7	8.7*	58.9	71.4	18.0	51.1
South Ogden (8)	Higher than State	No Different from State	Lower than State	12.9*	8	13.9	40	129.1	145.4	10.5	38.9	23.3	67.4	114.3	75.4	73.1	75.1	**	69.0	56.4	28.7	65.0

<sup>†</sup>State rank is by 63 small areas for suppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>For this indicator a higher rate means the small area is doing better than the state rate. <sup>1</sup>2009-2010 data were used to calculate U.S. rates. <sup>2</sup>2009, 2011 were used to calculate U.S. rates. <sup>3</sup>2011 data were used to calculate U.S. rates. <sup>4</sup>2010, 2012 data were used to calculate U.S. rates. <sup>5</sup>2012 data were used to calculate U.S. rates. <sup>6</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>7</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>8</sup>Data are from 2012. <sup>9</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. <sup>10</sup>The rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

Indicator  
Findings  
by  
Small  
Area

# 1. Suicides Ages 10+

## *Indicator Definition*

The number of resident deaths resulting from the intentional use of force against oneself per 100,000 population.

## *Healthy People 2020 Objective*

Mental Health and Mental Disorders -1: Reduce the suicide rate.

- U.S. Target: 10.2 suicides per 100,000 population
- State Target: 13.3 suicides per 100,000 population

## *Overview*

Suicide is the leading cause of death for Utahns aged 1 to 44 years old. Utah's suicide rate has been consistently higher than the national rate; in 2012, Utah's age-adjusted rate was 20.9 per 100,000 population. One in 15 Utah adults has had serious thoughts of suicide and many more people are hospitalized or treated in an emergency room for suicide attempts than are fatally injured<sup>1</sup>. Suicide is a complex public health issue often not openly discussed. Risk factors associated with suicide include depression or mental illness, alcohol and substance abuse, family history of suicide or violence, stressful life events or loss, relationship problems, school problems, physical illness, and loneliness<sup>2</sup>.

Among Utah Small Areas in 2011 and 2012, Grand/San Juan Counties small area had the highest rate of suicides among persons aged 10 and older (49.3 per 100,000 population) and Provo North/BYU had the lowest rate at 9.8\* per 100,000 population.

\*Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution.

## *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal areas relate to the Case in Point.

- Strategic Goal Area 1: Environmental Approaches that Promote Health
  - Publish a statewide agenda addressing systems and environmental change to impact health promotion, chronic disease prevention and management, and injury prevention.
- Strategic Goal Area 3: Community-Clinical Linkages
  - Increase the number of Utahns who participate in and complete evidence-based programs in the community by 10%.

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	1.1, 1.2, 1.3, 1.4, 2.3, 2.9, 3.1, 3.2, 3.4, 3.6, 3.7, 4.7, 4.8, 4.9, 4.13, 5.1, 5.2, 5.3, 5.4
Goal Area 2: Health Care Systems	1.1, 1.5, 1.6, 1.8, 1.15
Goal Area 3: Community-Clinical Linkages	1.1, 1.2, 1.4, 1.5, 1.6, 1.9, 1.10
Goal Area 4: Health Communications	1.1, 1.2, 1.5, 1.6, 1.7, 1.8, 1.9
Goal Area 5: Data and Evaluation	1.1, 1.6, 1.7

## *Case in Point: Promoting the Use of the Statewide Suicide Prevention Plan*

(Aligns with Strategic Goal Area 1: Environmental Approaches that Promote Health)

The Utah Department of Health Violence and Injury Prevention Program (VIPPP) collaborated with the Utah Division of Substance Abuse and Mental Health (DSAMH) to create the Utah Suicide Prevention Coalition, which VIPPP co-chairs. The Coalition consists of more than 90 members who represent state, local, and community-based organizations. VIPPP was instrumental in developing the statewide Suicide Prevention Plan, which the Coalition uses to inform its work. The Plan focuses on nine goal areas defined by the Coalition. Each goal has specific objectives and activities that are assigned to the Coalition's subcommittees (Community Awareness, Epidemiology, Education and Training, and Policy) to accomplish during specified timeframes.

Examples of activities included in the Plan include suicide prevention training, using data to inform prevention efforts, and developing guidelines for health care professionals:

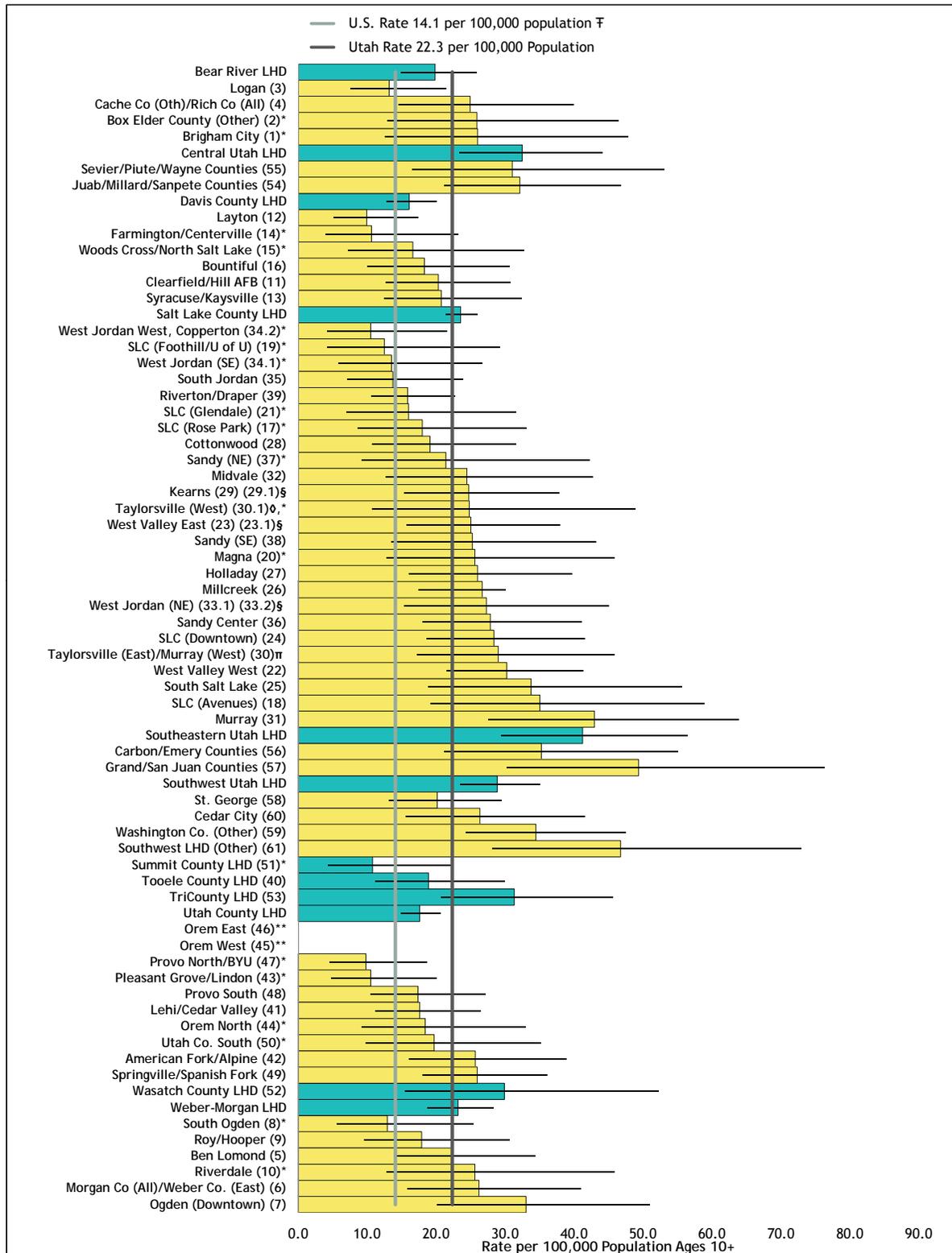
- “QPR” (Question, Persuade, Refer) is an evidence-based suicide prevention program designed to teach the warning signs of a suicide crisis and how to respond<sup>3</sup>. All 12 Local Health Districts in Utah have received resources from VIPPP to have staff trained to become instructors to teach QPR for Suicide Prevention in their communities.
- VIPPP is taking the lead in establishing the Utah Suicide Fatality Review Team in an effort to seek systemic means of preventing and addressing suicide fatalities. This comprehensive and multidisciplinary review of suicide fatalities will help to identify circumstances surrounding suicide deaths and provide an avenue for making systemic and prevention-oriented recommendations.
- VIPPP identified suicide as a focus area in the Core Violence and Injury Prevention Program grant with a strategy to define, support, and implement guidelines for mental health screening (including substance abuse) on par with physical health screenings and treatment for suicidal individuals.

For more information about suicide visit the VIPPP website at: <http://health.utah.gov/vipp/suicide/index.html>.

More information about the Suicide Prevention Coalition can be found at: <http://dsamh.utah.gov/utah-suicide-prevention-coalition-2/>.

# Suicides Ages 10+

Figure 1: Suicides per 100,000 Population Ages 10+ by Small Area, Health District, Utah, and U.S., 2011-2012



† 2009-2010 data were used to calculate U.S. rates. §In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). ◊Data are from 2012. \*Insufficient number of cases to meet UDOH standards for data reliability; interpret with caution. \*\*The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

# Suicide Ages 10+

Table 1: Suicides per 100,000 Population Ages 10+ by Small Area, Health District, Utah, and U.S., 2011-2012						
State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2011-2012 Population 10+	2011-2012 Suicides Ages 10+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>2</sup>	534,540,031	75,241	14.1	14.0	14.2
	State of Utah	4,638,768	1,036	22.3	21.0	23.7
	Bear River LHD	272,184	54	19.8	14.9	25.9
40	Brigham City (1)	38,500	10	26.0*	12.5	47.8
38	Box Elder County (Other) (2)	42,412	11	25.9*	13.0	46.4
32	Cache Co (Oth)/Rich Co (All) (4)	68,247	17	24.9	14.5	39.9
9	Logan (3)	121,468	16	13.2	7.5	21.4
	Central Utah LHD	126,186	41	32.5	23.3	44.1
53	Juab/Millard/Sanpete Counties (54)	84,047	27	32.1	21.2	46.7
51	Sevier/Piute/Wayne Counties (55)	41,901	13	31.0	16.5	53.1
	Davis County LHD	504,000	81	16.1	12.8	20.0
19	Bountiful (16)	76,554	14	18.3	10.0	30.7
25	Clearfield/Hill AFB (11)	108,365	22	20.3	12.7	30.7
5	Farmington/Centerville (14)	56,400	6	10.6*	3.9	23.2
2	Layton (12)	120,733	12	9.9	5.1	17.4
26	Syracuse/Kaysville (13)	91,542	19	20.8	12.5	32.4
14	Woods Cross/North Salt Lake (15)	48,196	8	16.6*	7.2	32.7
	Salt Lake County LHD	1,756,794	414	23.6	21.4	26.0
22	Cottonwood (28)	78,485	15	19.1	10.7	31.5
41	Holladay (27)	80,779	21	26.0	16.1	39.7
30	Kearns (29) (29.1) <sup>3</sup>	84,920	21	24.7	15.3	37.8
35	Magna (20)	42,885	11	25.6*	12.8	45.9
29	Midvale (32)	49,046	12	24.5	12.6	42.7
44	Millcreek (26)	97,457	26	26.7	17.4	30.1
59	Murray (31)	55,882	24	42.9	27.5	63.9
12	Riverton/Draper (39)	182,985	29	15.8	10.6	22.8
57	SLC (Avenues) (18)	39,947	14	35.0	19.2	58.8
47	SLC (Downtown) (24)	91,677	26	28.4	18.5	41.6
7	SLC (Foothill/U of U) (19)	40,006	5	12.5*	4.1	29.2
13	SLC (Glendale) (21)	49,954	8	16.0*	6.9	31.6
18	SLC (Rose Park) (17)	55,594	10	18.0*	8.6	33.1
46	Sandy Center (36)	89,702	25	27.9	18.0	41.1
27	Sandy (NE) (37)	37,339	8	21.4*	9.3	42.2
34	Sandy (SE) (38)	51,540	13	25.2	13.4	43.1
11	South Jordan (35)	87,616	12	13.7	7.1	23.9
55	South Salt Lake (25)	44,459	15	33.7	18.9	55.6
48	Taylorsville (East)/Murray (West) (30) <sup>4</sup>	62,064	18	29.0	17.2	45.8
31	Taylorsville (West) (30.1) <sup>5</sup>	32,313	8	24.8*	10.7	48.8
45	West Jordan (NE) (33.1) (33.2) <sup>6</sup>	54,948	15	27.3	15.3	45.0
10	West Jordan (SE) (34.1)	59,108	8	13.5*	5.8	26.7
3	West Jordan West, Copperton (34.2)	66,881	7	10.5*	4.2	21.6
33	West Valley East (23) (23.1) <sup>7</sup>	87,885	22	25.0	15.7	37.9
50	West Valley West (22)	129,019	39	30.2	21.5	41.3
	Southeastern Utah LHD	94,546	39	41.2	29.3	56.4
58	Carbon/Emery Counties (56)	53,916	19	35.2	21.2	55.0
61	Grand/San Juan Counties (57)	40,527	20	49.3	30.1	76.2
	Southwest Utah LHD	346,739	100	28.8	23.5	35.1
43	Cedar City (60)	68,347	18	26.3	15.6	41.6
60	Southwest LHD (Other) (61)	40,671	19	46.7	28.1	73.0
24	St. George (58)	129,014	26	20.2	13.2	29.5
56	Washington Co. (Other) (59)	107,412	37	34.4	24.3	47.5
6	Summit County LHD (51)	64,659	7	10.8*	4.4	22.3
21	Tooele County LHD (40)	95,230	18	18.9	11.2	29.9
52	TriCounty LHD (53)	86,206	27	31.3	20.6	45.6
	Utah County LHD	846,288	149	17.6	14.9	20.7
37	American Fork/Alpine (42)	85,681	22	25.7	16.1	38.9
16	Lehi/Cedar Valley (41)	130,475	23	17.6	11.2	26.5
**	Orem East (46)	36,015	**	**	**	**
20	Orem North (44)	59,805	11	18.4*	9.2	32.9
**	Orem West (45)	52,872	**	**	**	**
4	Pleasant Grove/Lindon (43)	85,341	9	10.5*	4.8	20.0
1	Provo North/BYU (47)	91,479	9	9.8*	4.5	18.7
15	Provo South (48)	109,552	19	17.3	10.4	27.1
39	Springville/Spanish Fork (49)	134,919	35	25.9	18.1	36.1
23	Utah Co. South (50)	55,866	11	19.7*	9.8	35.2
49	Wasatch County LHD (52)	40,173	12	29.9	15.4	52.2
	Weber-Morgan LHD	405,763	94	23.2	18.7	28.4
28	Ben Lomond (5)	93,474	21	22.5	13.9	34.3
42	Morgan Co (All)/Weber Co. (East) (6)	72,498	19	26.2	15.8	40.9
54	Ogden (Downtown) (7)	60,596	20	33.0	20.2	51.0
36	Riverdale (10)	43,023	11	25.6*	12.8	45.8
17	Roy/Hooper (9)	72,624	13	17.9	9.5	30.6
8	South Ogden (8)	61,939	8	12.9*	5.6	25.5

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>2</sup>2009-2010 data were used to calculate U.S. rates. <sup>3</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>4</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>5</sup>Data are from 2012. <sup>6</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. <sup>7</sup>The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

# Suicides Ages 10+

Figure 1.1: Suicides per 100,000 Population Ages 10+ by Small Area, Utah, 2011-2012

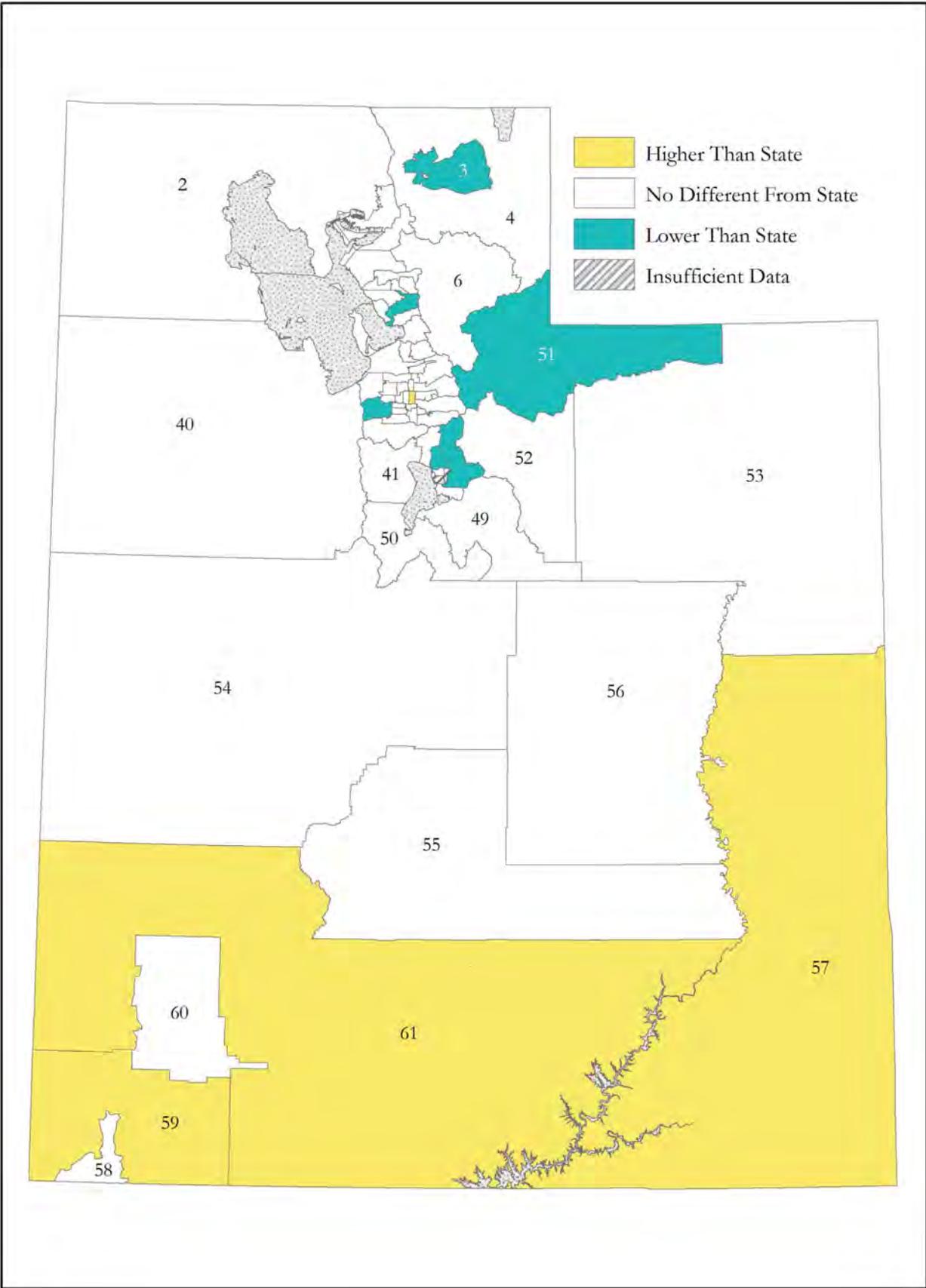
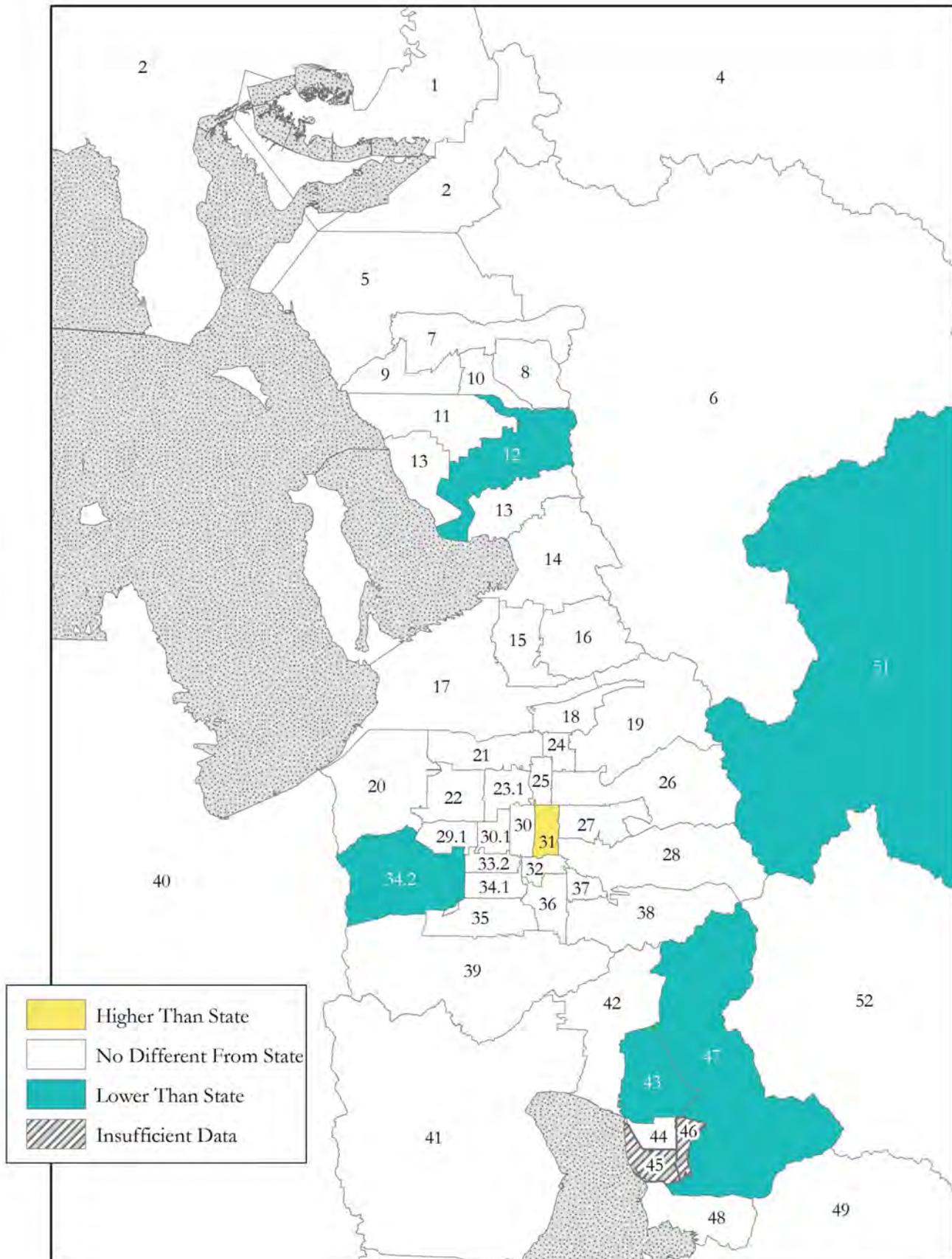


Figure 1.2: Suicides per 100,000 Population Ages 10+ by Small Area, Wasatch Front, Utah, 2011-2012



## 2. Prescription Opioid Deaths Ages 18+

### *Indicator Definition*

The rate of deaths caused by prescription opioids, with or without the presence of other drugs, among Utahns 18 years of age and older per 100,000 persons.

### *Healthy People 2020 Objective*

SA-12: Reduce drug-induced deaths.

- U.S. Target: 11.3 deaths per 100,000 population

SA-19: Reduce the past-year nonmedical use of prescription drugs

SA-19.1: Reduce the past-year nonmedical use of pain relievers

SA-19.5: Reduce the past-year nonmedical use of any psychotherapeutic drug (including pain relievers, tranquilizers, stimulants, and sedatives)

- U.S. Target: 5.5 percent of persons aged 12 years and older report nonmedical use of any psychotherapeutic drug

### *Overview*

Poisoning is the leading cause of injury death in Utah, largely attributable to prescription drug overdoses. Prescription opioids, used to treat pain, are some of the most commonly abused. Beginning in 2007, prescription opioid deaths outnumbered motor vehicle crash deaths in Utah. In addition, since 2002, prescription pain medications have been responsible for more drug deaths in Utah than all other drug categories and outnumber deaths due to heroin and cocaine combined. Risk factors related to prescription opioid death include substance abuse problems, physical health problems, current mental health problems, alcohol dependence/problems, and/or history of suicide attempts. Utah monitors overdose deaths in the state via the Utah Violent Death Reporting System (UTVDRS). Prescription drug overdose deaths are preventable; increasing public awareness about the safe use, storage, and disposal of medications may help lessen the burden of this nationwide epidemic<sup>4</sup>.

Among Utah Small Areas from 2009-2012, Carbon/Emery Counties small area had the highest rate of prescription opioid deaths among adults aged 18 years and older at 37.8 per 100,000 population, and West Jordan West, Copperton small area had the lowest rate at 5.0\* per 100,000 population.

### Related Strategic Goal Areas

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 5: Data and Evaluation
  - Chronic disease and injury prevention data are routinely accessed and used by partners for planning of coordinated interventions (Objective 1.7).

\*Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution.

Strategic Goal Area	Related Objectives
Goal Area 1: Environmental Approaches that Promote Health	1.1, 1.2, 1.3, 1.4, 2.3, 2.5, 2.9, 4.2, 4.7, 4.8, 4.9, 4.13, 5.1
Goal Area 2: Health Care Systems	1.5, 1.6
Goal Area 3: Community Clinical Linkages	1.2, 1.4, 1.5
Goal Area 4: Health Communications	1.1, 1.2, 1.5, 1.6, 1.7, 1.8
Goal Area 5: Data and Evaluation	1.1, 1.6, 1.7

### *Case in Point: Improving Surveillance of Prescription Drug Deaths*

(Aligns with Strategic Goal Area 5: Data and Evaluation)

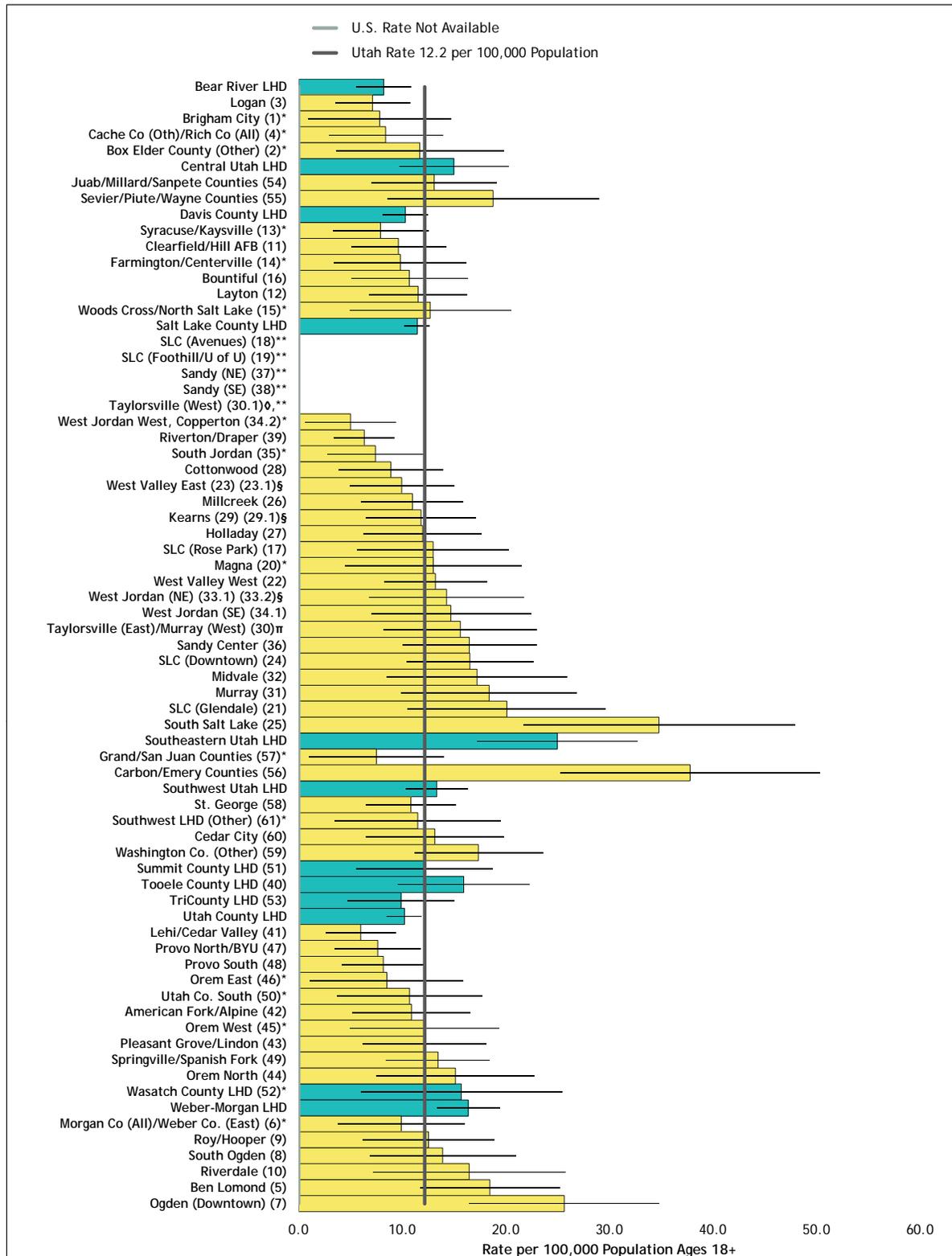
In 2007, the Utah Department of Health received funding from the Utah Legislature to create and fund the Prescription Pain Medication Program (PPMP). Prevention efforts associated with the PPMP included a media campaign (Use Only As Directed) and the release of the Utah Clinical Guidelines on Prescribing Opioids. In 2010, funding for the PPMP was eliminated and deaths due to prescription opioids began to rise again, presenting a need to focus additional prevention efforts on the problem.

The Violence and Injury Prevention Program (VIIP) at the Utah Department of Health has participated in the National Violent Death Reporting System (NVDRS), a state-based surveillance system administrated by the Centers for Disease Control and Prevention (CDC), since 2004. A total of 18 states are funded to participate in NVDRS. The surveillance system captures violent deaths in the state, including homicide, suicide, undetermined deaths, and unintentional firearm deaths. After the elimination of funding for the PPMP, the VIIP took the opportunity to integrate accidental drug deaths into the NVDRS, which allowed for Utah to uniquely capture a complete picture of drug overdose deaths and improve continuity in data collection. Although not the database's original intention, the format proved very effective. The NVDRS collects data specific to each death incident from multiple sources, including the death certificate, and medical examiner, toxicology and police reports. The database captures a comprehensive picture of a drug overdose death by collecting information about the victim's demographics, background, and circumstances related to the death. With a broader understanding of drug deaths in the state, Utah is better able to focus prevention activities and make recommendations.

The VIIP was honored with the Innovative Initiative of the Year Award from the Safe States Alliance in 2012 for the incorporation of accidental drug deaths into the NVDRS. Utah was the first NVDRS state to incorporate accidental drug deaths and can serve as the pilot and model for other states to follow in the future.

# Prescription Opioid Deaths Ages 18+

Figure 2: Prescription Opioid Deaths per 100,000 Population Ages 18+ by Small Area, Health District, Utah, and U.S., 2009-2012



† 2009-2010 data were used to calculate U.S. rates. §In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). ◊Data are from 2012. \*Insufficient number of cases to meet UDOH standards for data reliability; interpret with caution. \*\*The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

# Prescription Opioid Deaths Ages 18+

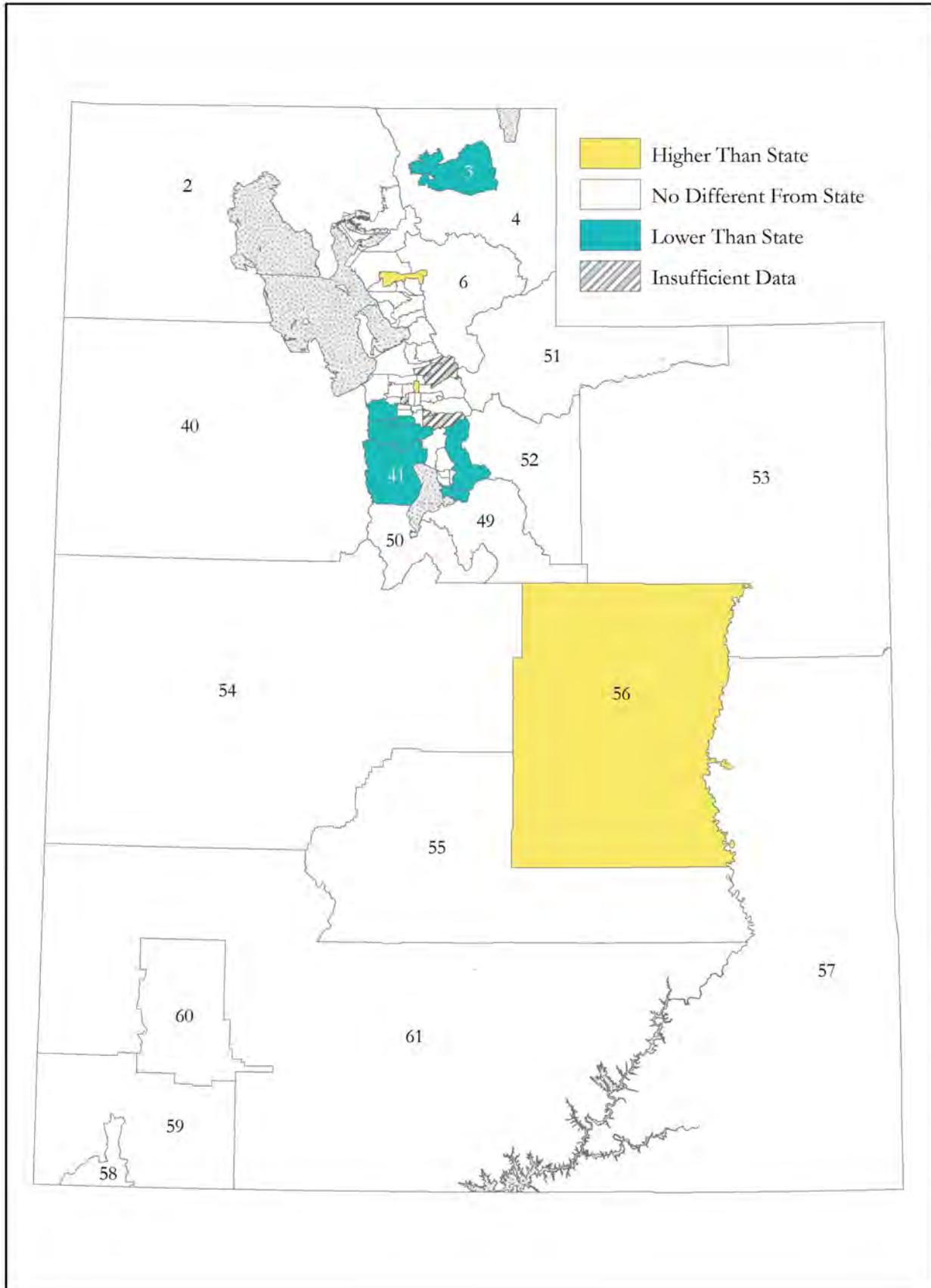
**Table 2: Prescription Opioid Deaths per 100,000 Population Ages 18+ by Small Area, Health District, Utah, and U.S., 2009-2012**

State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2009-2012 Population 18+	2009-2012 Rx Opioid Deaths 18+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>2</sup>	--	--	--	--	--
	State of Utah	7,669,491	933	12.2	11.4	12.9
	Bear River LHD	450,575	37	8.2	5.6	10.9
8	Brigham City (1)	63,923	5	7.8*	1.0	14.7
26	Box Elder County (Other) (2)	68,414	8	11.7*	3.6	19.8
11	Cache Co (Oth)/Rich Co (All) (4)	107,754	9	8.4*	2.9	13.8
4	Logan (3)	209,995	15	7.1	3.5	10.8
	Central Utah LHD	207,054	31	15.0	9.7	20.2
36	Juab/Millard/Sanpete Counties (54)	137,475	18	13.1	7.0	19.1
54	Sevier/Piute/Wayne Counties (55)	69,265	13	18.8	8.6	29.0
	Davis County LHD	815,250	84	10.3	8.1	12.5
19	Bountiful (16)	130,947	14	10.7	5.1	16.3
14	Clearfield/Hill AFB (11)	176,416	17	9.6	5.1	14.2
15	Farmington/Centerville (14)	91,551	9	9.8*	3.4	16.3
24	Layton (12)	199,224	23	11.5	6.8	16.3
9	Syracuse/Kaysville (13)	140,025	11	7.9*	3.2	12.5
33	Woods Cross/North Salt Lake (15)	78,984	10	12.7*	4.8	20.5
	Salt Lake County LHD	2,955,383	353	11.9	10.7	13.2
13	Cottonwood (28)	135,047	12	8.9	3.9	13.9
28	Holladay (27)	142,035	17	12.0	6.3	17.7
27	Kearns (29) (29.1) <sup>§</sup>	161,050	19	11.8	6.5	17.1
34	Magna (20)	69,471	9	13.0*	4.5	21.4
50	Midvale (32)	87,080	15	17.2	8.5	25.9
23	Millcreek (26)	173,227	19	11.0	6.0	15.9
52	Murray (31)	97,921	18	18.4	9.9	26.9
3	Riverton/Draper (39)	284,982	18	6.3	3.4	9.2
**	SLC (Avenues) (18)	73,804	**	**	**	**
48	SLC (Downtown) (24)	169,416	28	16.5	10.4	22.6
**	SLC (Foothill/U of U) (19)	71,574	**	**	**	**
55	SLC (Glendale) (21)	84,650	17	20.1	10.5	29.6
35	SLC (Rose Park) (17)	92,566	12	13.0	5.6	20.3
49	Sandy Center (36)	151,774	25	16.5	10.0	22.9
**	Sandy (NE) (37)	67,093	**	**	**	**
**	Sandy (SE) (38)	85,328	**	**	**	**
5	South Jordan (35)	134,257	10	7.4*	2.8	12.1
57	South Salt Lake (25)	77,625	27	34.8	21.7	47.9
44	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	108,999	17	15.6	8.2	23.0
**	Taylorsville (West) (30.1) <sup>°</sup>	27,721	**	**	**	**
41	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	98,139	14	14.3	6.8	21.7
42	West Jordan (SE) (34.1)	95,335	14	14.7	7.0	22.4
1	West Jordan West, Copperton (34.2)	99,132	5	5.0*	0.6	9.5
16	West Valley East (23) (23.1) <sup>§</sup>	150,794	15	9.9	4.9	15.0
38	West Valley West (22)	204,693	27	13.2	8.2	18.2
	Southeastern Utah LHD	160,217	40	25.0	17.2	32.7
58	Carbon/Emery Counties (56)	92,610	35	37.8	25.3	50.3
6	Grand/San Juan Counties (57)	67,006	5	7.5*	0.9	14.0
	Southwest Utah LHD	577,342	77	13.3	10.4	16.3
37	Cedar City (60)	114,165	15	13.1	6.5	19.8
25	Southwest LHD (Other) (61)	69,536	8	11.5*	3.5	19.5
21	St. George (58)	221,906	24	10.8	6.5	15.1
51	Washington Co. (Other) (59)	172,828	30	17.4	11.1	23.6
29	Summit County LHD (51)	107,263	13	12.1	5.5	18.7
46	Tooele County LHD (40)	150,688	24	15.9	9.6	22.3
17	TriCounty LHD (53)	141,873	14	9.9	4.7	15.0
	Utah County LHD	1,362,042	139	10.2	8.5	11.9
22	American Fork/Alpine (42)	128,645	14	10.9	5.2	16.6
2	Lehi/Cedar Valley (41)	200,392	12	6.0	2.6	9.4
12	Orem East (46)	59,037	5	8.5*	1.0	15.9
43	Orem North (44)	99,205	15	15.1	7.5	22.8
30	Orem West (45)	90,562	11	12.1*	5.0	19.3
31	Pleasant Grove/Lindon (43)	131,648	16	12.2	6.2	18.1
7	Provo North/BYU (47)	170,303	13	7.6	3.5	11.8
10	Provo South (48)	196,143	16	8.2	4.2	12.2
39	Springville/Spanish Fork (49)	208,243	28	13.4	8.5	18.4
20	Utah Co. South (50)	84,052	9	10.7*	3.7	17.7
45	Wasatch County LHD (52)	63,871	10	15.7*	6.0	25.4
	Weber-Morgan LHD	677,933	111	16.4	13.3	19.4
53	Ben Lomond (5)	157,103	29	18.5	11.7	25.2
18	Morgan Co (All)/Weber Co. (East) (6)	101,399	10	9.9*	3.7	16.0
56	Ogden (Downtown) (7)	117,059	30	25.6	16.5	34.8
47	Riverdale (10)	72,966	12	16.4	7.1	25.8
32	Roy/Hooper (9)	119,672	15	12.5	6.2	18.9
40	South Ogden (8)	107,899	15	13.9	6.9	20.9

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>2</sup>U.S. rate not available. <sup>3</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>4</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>5</sup>Data are from 2012. <sup>6</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. <sup>7</sup>The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

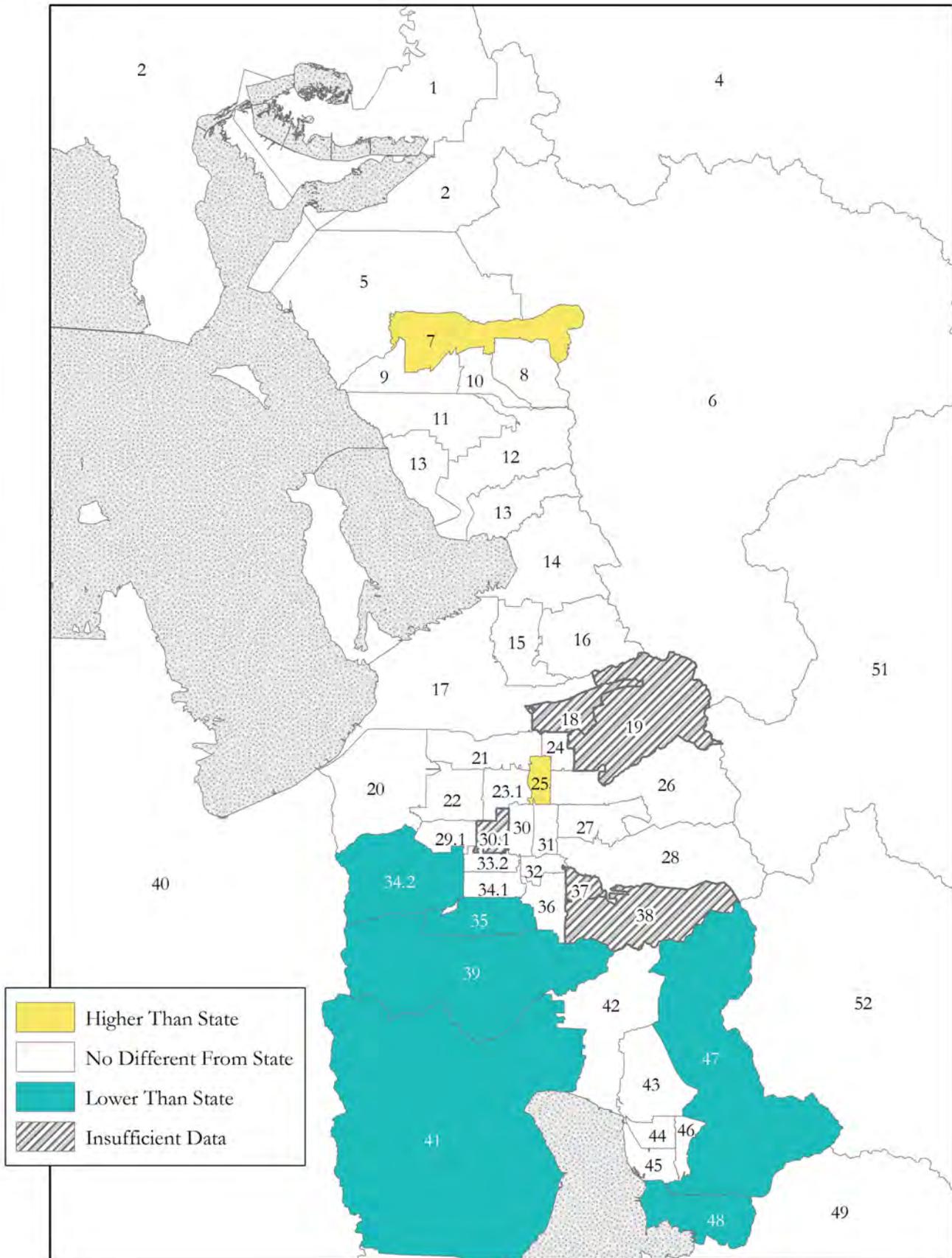
# Prescription Opioid Deaths Ages 18+

Figure 2.1: Prescription Opioid Deaths per 100,000 Population Ages 18+ by Small Area, Utah, 2009-2012



# Prescription Opioid Deaths Ages 18+

Figure 2.2: Prescription Opioid Deaths per 100,000 Population Ages 18+ by Small Area, Wasatch Front, Utah, 2009-2012



## 3. Cancer Deaths

### *Indicator Definition*

The rate of death from all cancers per 100,000 persons

### *Healthy People 2020 Objective*

C-1: Reduce the overall cancer death rate.

- U.S. Target: 160.6 deaths per 100,000 population
- State Target: 107.3 deaths per 100,000 population

### *Overview*

The National Institutes of Health (NIH) estimates that the overall cost of cancer in 2009 was \$216.6 billion: \$86.6 billion for direct medical costs (total of all health expenditures) and \$130.0 billion for indirect mortality costs (cost of lost productivity due to premature death). Cancer is the second leading cause of death in Utah. In 2012, the age-adjusted cancer mortality rate for the state was 129.9 per 100,000 population. Cancer generally develops over several years and there are several factors, both inside and outside the body, that contribute to its development. Some factors include genetics, tobacco use, diet, weight, physical inactivity, and sunlight exposure, in addition to environmental exposures to ionizing radiation or chemicals such as asbestos, benzene, and arsenic<sup>5</sup>.

Among Utah Small Areas in 2011 and 2012, Kearns small area had the highest rate of death from all cancers per 100,000 persons, with an age-adjusted rate of 166.6, and Orem West small area had the lowest age-adjusted rate at 92.4.

### *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 1: Environmental Approaches that Promote Health (activities in people's homes, in communities, at schools, and at worksites)
  - Coordinate efforts to create healthful and safe home environments (Objective 2.3)
  - Educate and train local and county policy makers on healthful and safe community guidelines (Objective 4.1)
  - Work with city planners to influence retail environments to promote healthful behaviors (Objective 4.2)

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	1.1, 1.2, 1.3, 1.4, 2.3, 2.9, 3.1, 3.2, 3.4, 3.6, 3.7, 4.7, 4.8, 4.9, 4.13, 5.1, 5.2, 5.3, 5.4
Goal Area 2: Health Care Systems	1.1, 1.5, 1.6, 1.8, 1.15
Goal Area 3: Community Clinical Linkages	1.1, 1.2, 1.4, 1.5, 1.6, 1.9, 1.10
Goal Area 4: Health Communications	1.1, 1.2, 1.5, 1.6, 1.7, 1.8, 1.9
Goal Area 5: Data and Evaluation	1.1, 1.6, 1.7

## *Case in Point: Utah Cancer Control Program (UCCP) – Physical Activity*

(Aligns with Strategic Goal Area 1: Environmental Approaches that Promote Health)

The Utah Cancer Control Program (UCCP) has been working with the Healthy Living through Environment, Policy, and Improved Clinical Care Program (EPICCC) to increase physical activity rates by encouraging cities and counties to address active transportation infrastructure. In 2013, they used data from the Behavioral Risk Factor Surveillance System (BRFSS) to identify small areas with high obesity rates, low physical activity rates, and low incomes. The programs then consulted with the Utah Department of Transportation to identify which cities or counties were prepared for, and would benefit from, developing a plan to improve the active transportation infrastructure.

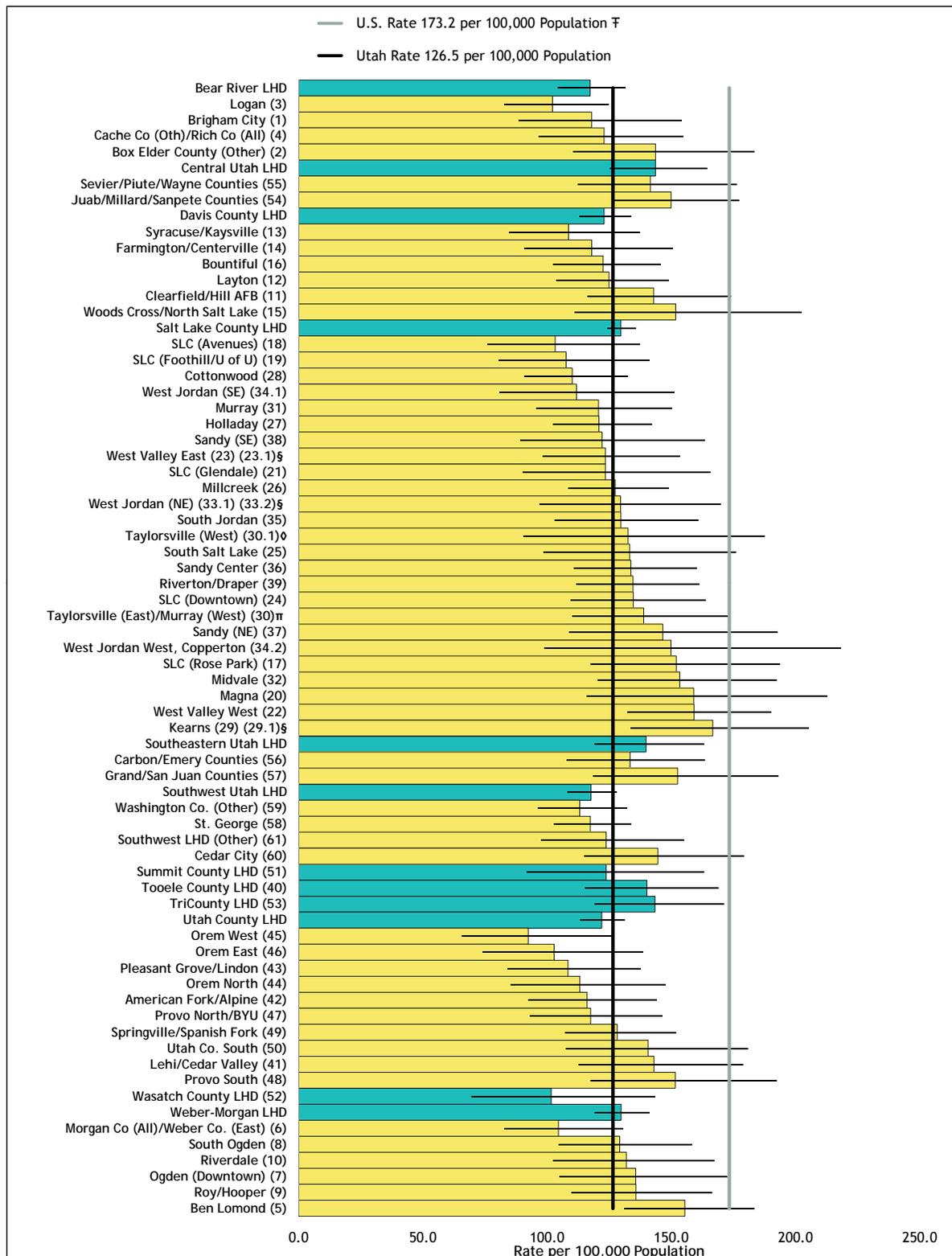
After identifying at-risk communities with the capacity to begin plans to improve the active transportation infrastructure, the programs narrowed the list down to three specific communities—Ivins, Kanab, and Logan – and offered each one funding to begin developing plans to address infrastructure barriers to cyclists and pedestrians. Communities are using funding to work on Level One of the Road Respect Communities program. Specifically, they will:

- Identify community champion(s) for improving the active transportation infrastructure
- Identify the health, community, and economic benefits of having an active transportation plan
- Set up initial evaluation criteria including Health Impact Assessment guidelines
- Inventory conditions of the existing active transportation infrastructure and safety issues

Future activities will build on the work done in the first year, and funding may be extended to additional communities.

# Cancer Deaths

Figure 3: Cancer Deaths per 100,000 Population by Small Area, Health District, Utah, and U.S., 2011-2012 (Age-adjusted)



† 2009-2010 data were used to calculate U.S. rates. §In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A).  
πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A).  
◇Data are from 2012.

# Cancer Deaths

**Table 3: Cancer Deaths per 100,000 Population by Small Area, Health District, Utah, and U.S., 2011-2012**

State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2011-2012 Population	2011-2012 Cancer Deaths	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
						Lower	Upper
	U.S. <sup>2</sup>	615,517,067	1,142,371	185.6	173.2	172.8	173.5
	State of Utah	5,669,634	5,594	98.7	126.5	123.1	129.9
	Bear River LHD	335,016	297	88.7	117.2	104.2	131.4
17	Brigham City (1)	47,213	54	114.4	117.8	88.3	154.0
50	Box Elder County (Other) (2)	53,142	65	122.3	143.5	110.4	183.4
23	Cache Co (Oth)/Rich Co (All) (4)	86,119	77	89.4	122.9	96.4	154.4
3	Logan (3)	148,538	99	66.6	102.1	82.6	124.8
	Central Utah LHD	151,960	220	144.8	143.6	125.0	164.1
54	Juab/Millard/Sanpete Counties (54)	101,760	140	137.6	149.9	125.8	177.2
46	Sevier/Piute/Wayne Counties (55)	50,634	82	161.9	141.4	112.1	176.1
	Davis County LHD	627,686	562	89.5	122.9	112.8	133.6
22	Bountiful (16)	91,287	134	146.8	122.5	102.2	145.6
47	Clearfield/Hill AFB (11)	138,017	105	76.1	142.8	116.0	173.9
18	Farmington/Centerville (14)	69,606	67	96.3	117.9	90.7	150.6
28	Layton (12)	149,441	131	87.7	124.8	103.8	148.9
9	Syracuse/Kaysville (13)	118,054	75	63.5	108.5	84.6	137.1
56	Woods Cross/North Salt Lake (15)	61,237	50	81.6	151.6	111.0	202.4
	Salt Lake County LHD	2,111,588	2,121	100.4	129.6	124.1	135.4
10	Cottonwood (28)	89,170	115	129.0	110.0	90.6	132.4
20	Holladay (27)	92,577	161	173.9	120.8	102.1	142.0
63	Kearns (29) (29.1) <sup>5</sup>	105,572	98	92.8	166.6	133.6	205.2
61	Magna (20)	54,056	49	90.6	158.9	115.9	212.7
59	Midvale (32)	58,406	76	130.1	153.3	120.5	192.4
29	Millcreek (26)	113,049	173	153.0	127.4	108.4	148.7
19	Murray (31)	64,851	80	123.4	120.6	95.5	150.2
39	Riverton/Draper (39)	233,653	142	60.8	134.5	111.4	160.9
5	SLC (Avenues) (18)	43,765	48	109.7	103.2	75.8	137.2
40	SLC (Downtown) (24)	101,662	107	105.3	134.6	109.5	163.7
7	SLC (Foothill/U of U) (19)	46,640	56	120.1	107.6	80.4	141.1
25	SLC (Glendale) (21)	61,170	47	76.8	123.5	89.9	165.3
57	SLC (Rose Park) (17)	68,761	68	98.9	151.9	117.3	193.5
38	Sandy Center (36)	106,695	121	113.4	133.6	110.6	160.1
52	Sandy (NE) (37)	42,992	58	134.9	146.4	108.8	192.9
21	Sandy (SE) (38)	59,820	55	91.9	122.0	89.0	163.3
33	South Jordan (35)	108,490	92	84.8	129.6	103.1	160.8
36	South Salt Lake (25)	52,364	51	97.4	133.2	98.6	176.0
43	Taylorsville (East)/Murray (West) (30) <sup>m</sup>	73,309	85	115.9	138.7	110.0	172.6
35	Taylorsville (West) (30.1) <sup>o</sup>	38,776	36	92.8	132.5	90.4	187.5
32	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	66,682	61	91.5	129.5	96.8	169.6
11	West Jordan (SE) (34.1)	72,292	49	67.8	111.8	80.6	151.0
53	West Jordan West, Copperton (34.2)	88,288	41	46.4	149.7	98.7	217.9
24	West Valley East (23) (23.1) <sup>§</sup>	107,190	89	83.0	123.4	98.2	153.2
62	West Valley West (22)	160,361	146	91.0	159.0	132.0	189.9
	Southeastern Utah LHD	112,867	166	147.1	139.8	119.0	163.0
37	Carbon/Emery Counties (56)	64,496	95	147.3	133.3	107.6	163.3
58	Grand/San Juan Counties (57)	48,393	71	146.7	152.4	118.6	193.0
	Southwest Utah LHD	417,482	578	138.4	117.7	108.1	127.8
51	Cedar City (60)	83,097	86	103.5	144.5	115.0	179.3
26	Southwest LHD (Other) (61)	48,069	78	162.3	123.7	97.4	154.8
15	St. George (58)	154,185	247	160.2	117.3	102.5	133.6
12	Washington Co. (Other) (59)	132,130	166	125.6	113.0	96.1	132.1
27	Summit County LHD (51)	75,428	65	86.2	123.7	91.7	163.1
44	Tooele County LHD (40)	119,142	118	99.0	140.1	115.2	168.9
49	TriCounty LHD (53)	108,054	126	116.6	143.3	119.1	171.0
	Utah County LHD	1,070,608	747	69.8	121.9	113.2	131.2
14	American Fork/Alpine (42)	108,486	85	78.4	116.0	92.2	144.0
48	Lehi/Cedar Valley (41)	188,718	91	48.2	142.9	112.5	178.9
4	Orem East (46)	43,359	43	99.2	102.7	74.1	138.6
13	Orem North (44)	75,169	57	75.8	113.2	85.1	147.5
1	Orem West (45)	63,354	39	61.6	92.4	65.5	126.6
8	Pleasant Grove/Lindon (43)	110,265	69	62.6	108.3	83.9	137.7
16	Provo North/BYU (47)	102,477	85	82.9	117.5	93.0	146.4
55	Provo South (48)	131,215	73	55.6	151.5	117.5	192.4
30	Springville/Spanish Fork (49)	174,809	138	78.9	128.1	107.2	151.8
45	Utah Co. South (50)	72,830	64	87.9	140.6	107.4	180.7
2	Wasatch County LHD (52)	49,615	35	70.5	101.6	69.4	143.4
	Weber-Morgan LHD	490,188	559	114.0	129.7	119.0	141.0
60	Ben Lomond (5)	114,669	145	126.5	155.4	130.9	183.1
6	Morgan Co (All)/Weber Co. (East) (6)	87,027	82	94.2	104.5	82.6	130.3
41	Ogden (Downtown) (7)	74,090	71	95.8	135.6	105.0	172.4
34	Riverdale (10)	52,149	69	132.3	131.8	102.2	167.3
42	Roy/Hooper (9)	88,913	96	108.0	135.7	109.6	166.2
31	South Ogden (8)	73,348	97	132.2	129.1	104.3	158.1

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>2</sup>2009-2010 data were used to calculate U.S. rates. <sup>3</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>4</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>5</sup>Data are from 2012.

# Cancer Deaths

Figure 3.1: Cancer Deaths per 100,000 Population by Small Area, Utah, 2011-2012 (Age-adjusted)

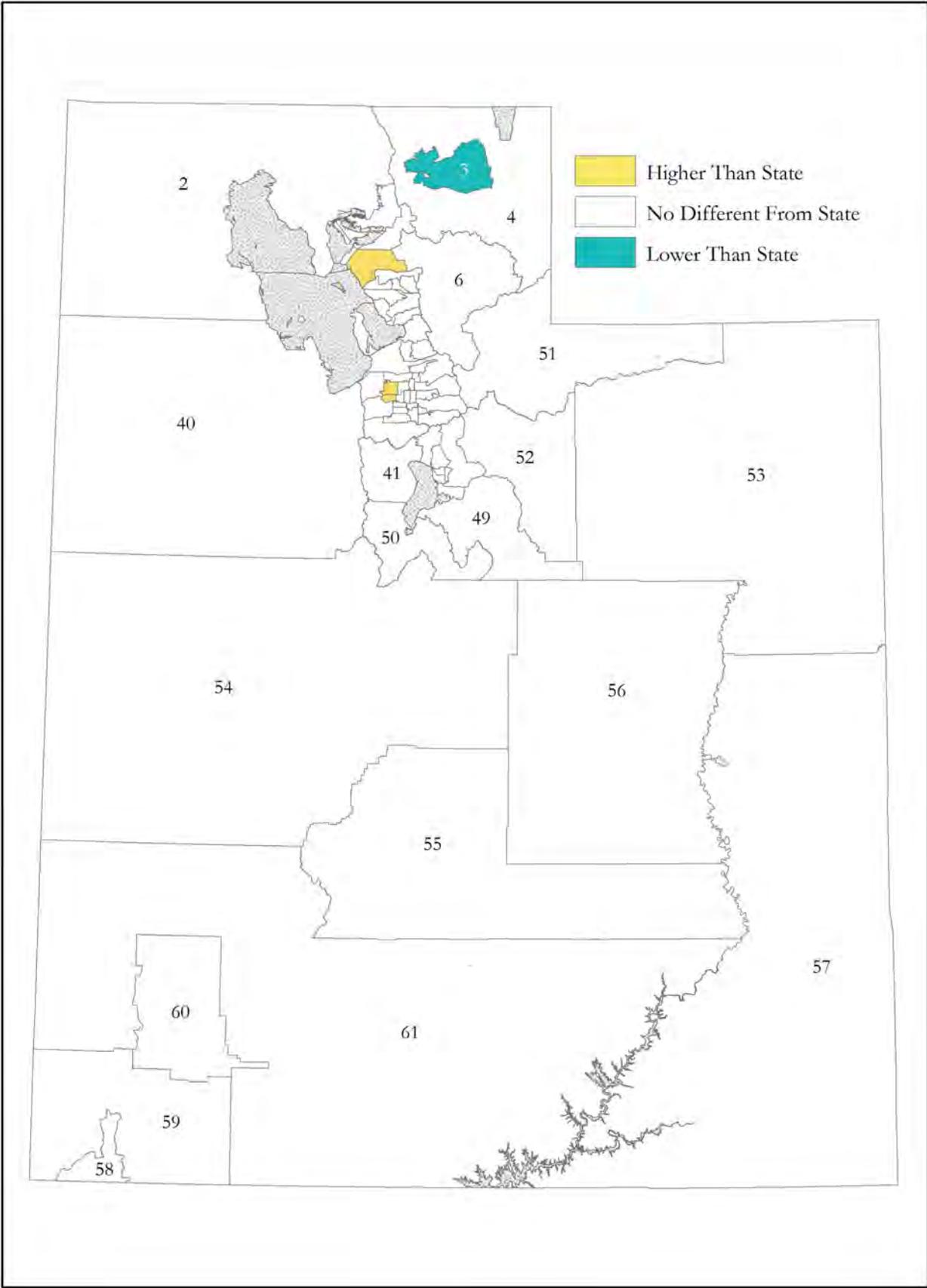
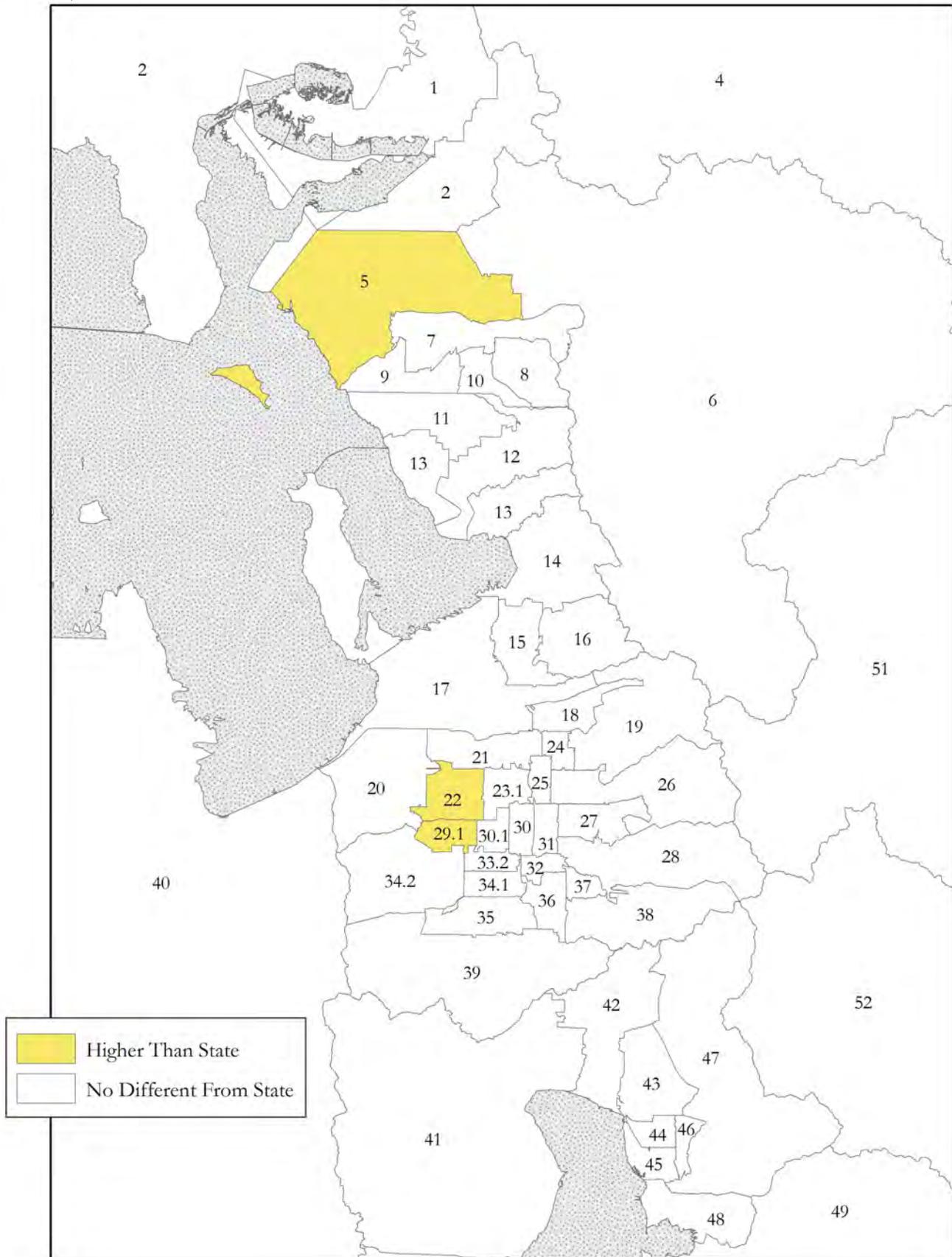


Figure 3.2: Cancer Deaths per 100,000 Population by Small Area, Wasatch Front, Utah, 2011-2012 (Age-adjusted)



## 4. Cardiovascular Disease Deaths

### *Indicator Definition*

The number of deaths from cardiovascular disease per 100,000 persons.

### *Healthy People 2020 Objective*

There are currently no Healthy People 2020 objectives for Cardiovascular Disease Deaths.

### *Overview*

Cardiovascular disease refers to any type of disease that affects the heart and/or blood vessels. The most common types of cardiovascular disease are high blood pressure and atherosclerosis. Cardiovascular disease is the leading cause of death in Utah and in the U.S. In 2012, 3,332 Utahns died from cardiovascular disease (excluding stroke). Risk factors for cardiovascular disease include high blood pressure, high cholesterol, diabetes, tobacco use, physical inactivity, and poor diet. Reducing the number of cardiovascular disease deaths may be achieved by frequent screening and early detection of high blood pressure and treatment with medication and lifestyle changes<sup>6</sup>.

Among Utah Small Areas in 2011 and 2012, Carbon/Emery County small area had the highest number of deaths from cardiovascular disease per 100,000 persons, with an age-adjusted rate of 219.6, and Salt Lake City (Foothill/U of U) small area had the lowest age-adjusted rate at 89.6.

### *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 1: Environmental Approaches that Promote Health (activities in people's homes, in communities, at schools, and at worksites)
  - o Educate and train school district personnel, PTA members, and Utah State Office of Education (USOE) staff regarding new regulations, best practices, and validated interventions to maintain a healthful and safe environment (Objective 3.2).
  - o Implement a healthy child care initiative (Objective 3.8).
  - o Work with the Utah Department of Transportation (UDOT), cities, and municipalities, to enhance the safety, access, and perceived safety of communities to improve walkability, bikeability, and public transit (Objective 4.3).
  - o Work with local governments and businesses to increase availability of and access to safe, affordable, or free recreation opportunities for physical activity (Objective 4.4).
  - o Increase the number of worksites supporting opportunities for employees to be physically active by 25% (Objective 5.6).
  - o Increase the number of worksites with policies supporting breastfeeding in the workplace by 25% (Objective 5.8).

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	1.1, 2.1, 2.2, 2.7, 4.1, 4.2, 4.3, 4.4, 4.5, 4.11, 4.13, 5.3, 5.8
Goal Area 2: Health Care Systems	1.1, 1.9, 1.10, 1.11
Goal Area 3: Community-Clinical Linkages	
Goal Area 4: Health Communications	
Goal Area 5: Data and Evaluation	

Case in Point: Improving Cardiovascular Health of Utahns Across the Lifespan

(Aligns with Strategic Goal Area 1: Environmental Approaches that Promote Health)

The Utah Department of Health's Healthy Living Through Environment, Policy, and Improved Clinical Care (EPICCC) Program aims to reduce cardiovascular disease deaths by increasing physical activity, improving nutrition, and improving health care services for people with hypertension and diabetes.

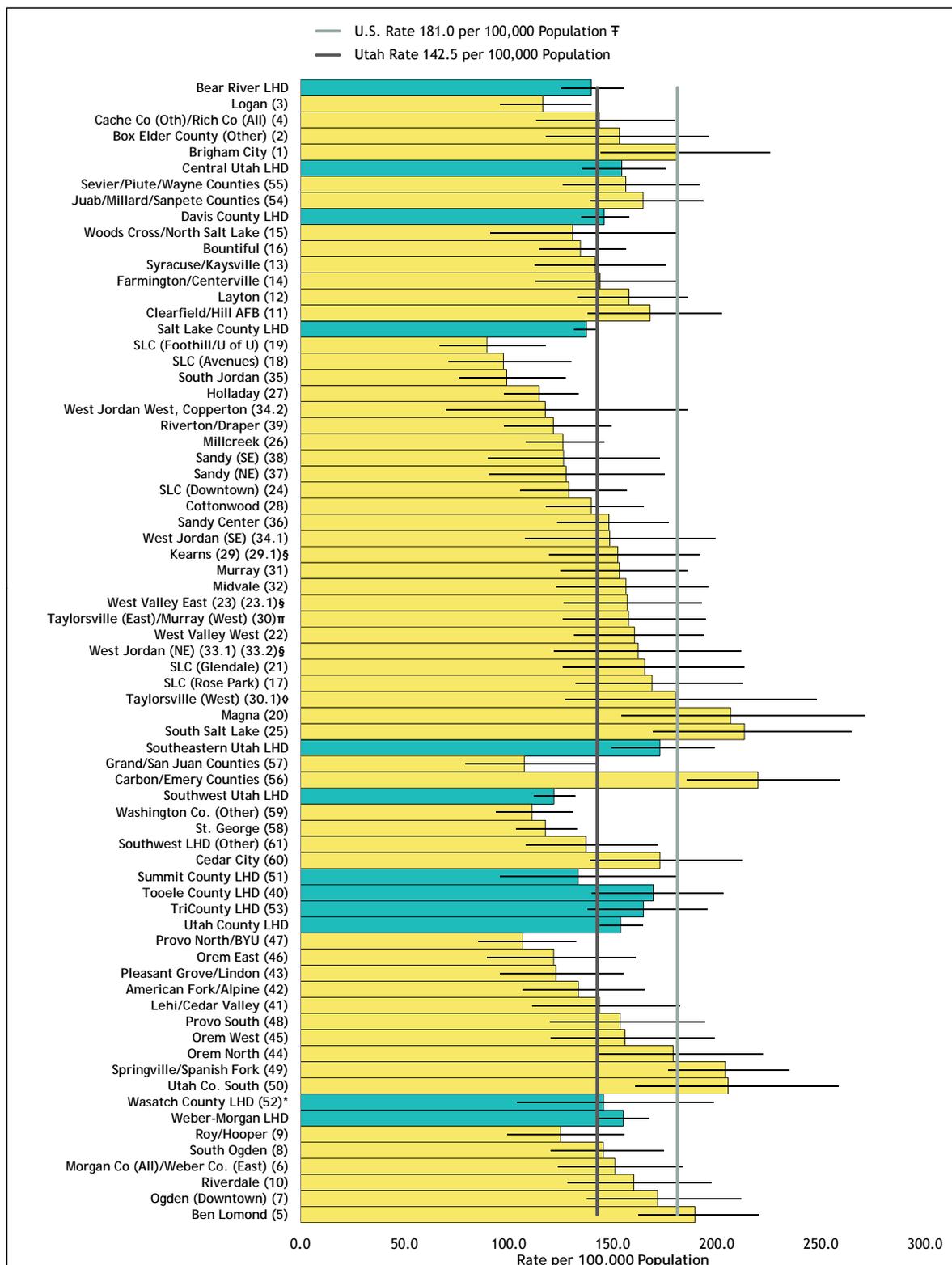
Interventions are carried out by working closely with partners in schools, worksites, communities and other health organizations. They include the following:

- Promoting breastfeeding-friendly environments
- Improving opportunities for healthy eating and physical activity in early care and education and K-12 school programs
- Improving school tracking of and follow-up with K-12 students who are absent due to chronic conditions
- Supporting policies to make communities more pedestrian- and bike-friendly
- Improving opportunities for adults with high blood pressure and diabetes to receive optimal primary care
- Promoting community-based resources to help people with chronic conditions to stay healthy and active

Additional information can be found at <http://choosehealth.utah.gov>

# Cardiovascular Disease Deaths

Figure 4: Cardiovascular Disease Deaths per 100,000 Population by Small Area, Health District, Utah, and U.S., 2011-2012 (Age-adjusted)



† 2009-2010 data were used to calculate U.S. rates. §In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). ◊Data are from 2012.

# Cardiovascular Disease Deaths

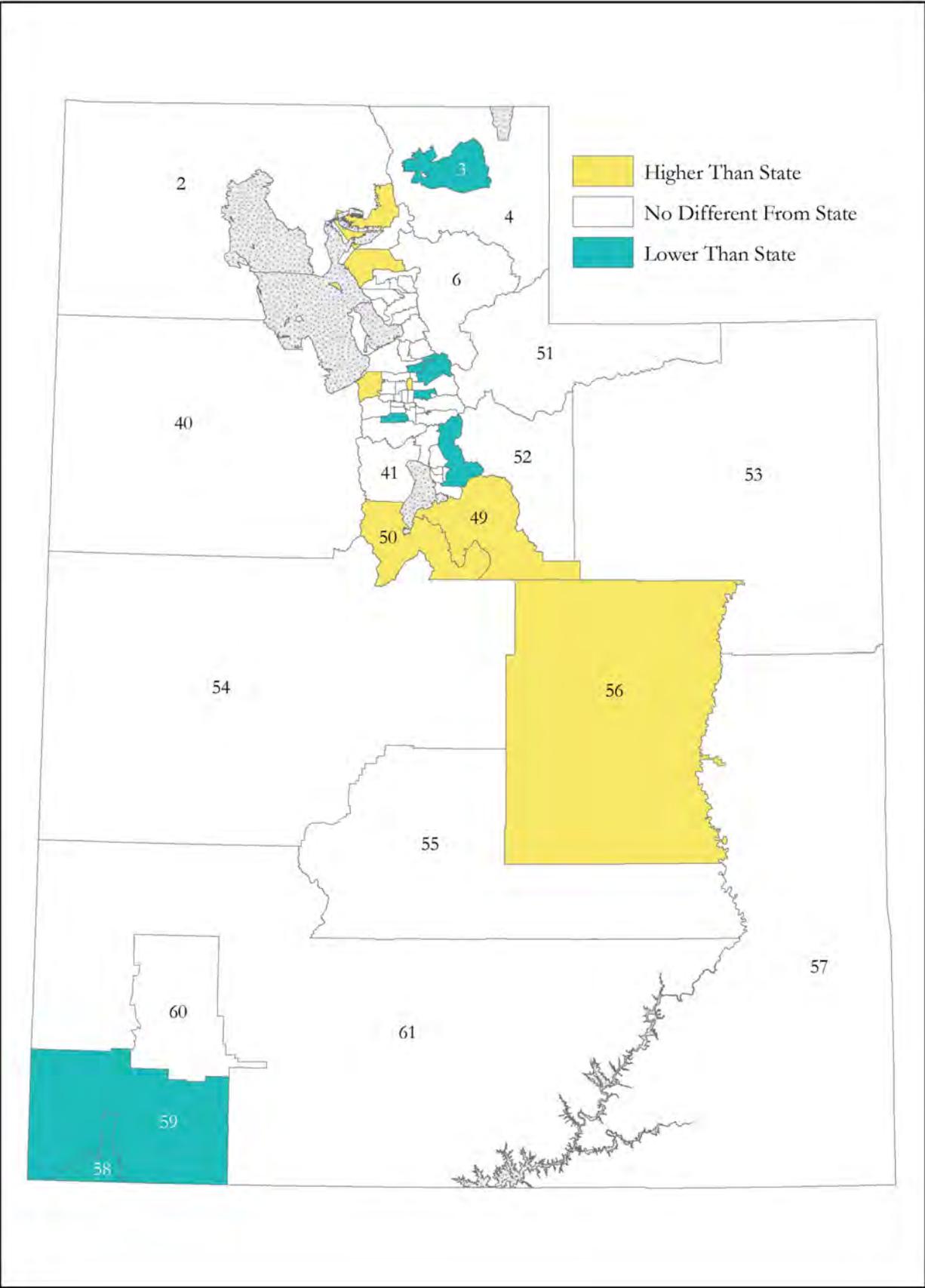
Table 4: Cardiovascular Disease Deaths per 100,000 Population by Small Area, Health District, Utah, and U.S., 2011-2012

State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2011-2012 Population	2011-2012 CVD Deaths	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
						Lower	Upper
	U.S. <sup>2</sup>	615,517,067	1,197,102	194.5	181.0	180.6	181.3
	State of Utah	5,669,634	6,071	107.1	142.5	138.9	146.1
	Bear River LHD	335,016	345	103.0	139.7	125.3	155.3
57	Brigham City (1)	47,213	81	171.6	181.2	143.8	225.3
35	Box Elder County (Other) (2)	53,142	64	120.4	153.1	117.6	196.0
26	Cache Co (Oth)/Rich Co (All) (4)	86,119	78	90.6	143.5	113.1	179.6
8	Logan (3)	148,538	118	79.4	116.3	96.0	139.6
	Central Utah LHD	151,960	239	157.3	154.3	135.2	175.2
47	Juab/Millard/Sanpete Counties (54)	101,760	150	147.4	164.4	139.0	193.2
39	Sevier/Piute/Wayne Counties (55)	50,634	93	183.7	156.2	125.9	191.6
	Davis County LHD	627,686	637	101.5	145.9	134.7	157.8
22	Bountiful (16)	91,287	175	191.7	134.4	114.8	156.2
50	Clearfield/Hill AFB (11)	138,017	115	83.3	167.9	138.0	202.3
28	Farmington/Centerville (14)	69,606	76	109.2	143.8	112.9	180.6
43	Layton (12)	149,441	148	99.0	157.8	132.8	186.1
25	Syracuse/Kaysville (13)	118,054	85	72.0	141.3	112.4	175.4
19	Woods Cross/North Salt Lake (15)	61,237	38	62.1	130.6	91.2	181.4
	Salt Lake County LHD	2,111,588	2,163	102.4	137.3	131.5	143.3
24	Cottonwood (28)	89,170	143	160.4	139.6	117.5	164.7
7	Holladay (27)	92,577	183	197.7	114.6	97.8	133.4
34	Kearns (29) (29.1) <sup>§</sup>	105,572	84	79.6	152.4	119.3	191.7
61	Magna (20)	54,056	56	103.6	206.6	154.2	271.0
40	Midvale (32)	58,406	76	130.1	156.3	122.9	195.9
15	Millcreek (26)	113,049	201	177.8	126.0	108.2	145.8
36	Murray (31)	64,851	104	160.4	153.1	124.9	185.8
11	Riverton/Draper (39)	233,653	100	42.8	121.5	97.8	149.2
2	SLC (Avenues) (18)	43,765	46	105.1	97.4	71.2	130.2
18	SLC (Downtown) (24)	101,662	111	109.2	128.9	105.1	156.5
1	SLC (Foothill/U of U) (19)	46,640	57	122.2	89.6	66.8	117.7
49	SLC (Glendale) (21)	61,170	63	103.0	165.2	125.9	213.0
51	SLC (Rose Park) (17)	68,761	75	109.1	168.8	132.2	212.2
31	Sandy Center (36)	106,695	127	119.0	148.1	123.2	176.6
17	Sandy (NE) (37)	42,992	41	95.4	127.5	90.3	174.9
16	Sandy (SE) (38)	59,820	45	75.2	126.3	90.0	172.3
3	South Jordan (35)	108,490	65	59.9	99.0	75.8	127.1
62	South Salt Lake (25)	52,364	85	162.3	213.1	169.3	264.7
42	Taylorsville (East)/Murray (West) (30) <sup>m</sup>	73,309	90	122.8	157.6	126.0	194.7
56	Taylorsville (West) (30.1) <sup>o</sup>	38,776	40	103.2	180.0	127.1	247.7
46	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	66,682	58	87.0	162.1	121.7	211.7
32	West Jordan (SE) (34.1)	72,292	49	67.8	148.4	107.9	199.2
9	West Jordan West, Copperton (34.2)	88,288	23	26.1	117.5	69.8	185.5
41	West Valley East (23) (23.1) <sup>§</sup>	107,190	101	94.2	156.8	126.4	192.5
45	West Valley West (22)	160,361	122	76.1	160.3	131.4	193.7
	Southeastern Utah LHD	112,867	199	176.3	172.6	149.2	198.7
63	Carbon/Emery Counties (56)	64,496	149	231.0	219.6	185.3	258.5
5	Grand/San Juan Counties (57)	48,393	49	101.3	107.4	79.1	142.6
	Southwest Utah LHD	417,482	600	143.7	121.7	112.0	132.0
54	Cedar City (60)	83,097	94	113.1	172.6	139.0	211.8
23	Southwest LHD (Other) (61)	48,069	80	166.4	137.1	108.2	171.2
10	St. George (58)	154,185	273	177.1	117.6	103.6	132.9
6	Washington Co. (Other) (59)	132,130	152	115.0	111.1	93.9	130.7
20	Summit County LHD (51)	75,428	49	65.0	133.2	95.8	180.5
52	Tooele County LHD (40)	119,142	122	102.4	169.4	140.0	203.1
48	TriCounty LHD (53)	108,054	135	124.9	164.6	137.7	195.1
	Utah County LHD	1,070,608	873	81.5	153.7	143.6	164.3
21	American Fork/Alpine (42)	108,486	86	79.3	133.4	106.4	165.1
27	Lehi/Cedar Valley (41)	188,718	74	39.2	143.5	111.3	182.2
12	Orem East (46)	43,359	49	113.0	121.6	89.8	161.0
55	Orem North (44)	75,169	84	111.7	178.8	142.3	221.9
38	Orem West (45)	63,354	66	104.2	155.9	120.3	198.7
13	Pleasant Grove/Lindon (43)	110,265	72	65.3	122.7	95.7	154.9
4	Provo North/BYU (47)	102,477	89	86.8	106.8	85.2	132.2
37	Provo South (48)	131,215	73	55.6	153.5	119.6	194.1
59	Springville/Spanish Fork (49)	174,809	200	114.4	203.9	176.4	234.5
60	Utah Co. South (50)	72,830	76	104.4	205.3	160.8	258.3
30	Wasatch County LHD (52)	49,615	44	88.7	145.5	104.0	198.2
	Weber-Morgan LHD	490,188	665	135.7	154.9	143.3	167.3
58	Ben Lomond (5)	114,669	173	150.9	189.3	162.0	219.9
33	Morgan Co (All)/Weber Co. (East) (6)	87,027	106	121.8	151.0	123.3	183.1
53	Ogden (Downtown) (7)	74,090	92	124.2	171.5	137.5	211.4
44	Riverdale (10)	52,149	90	172.6	160.0	128.3	197.3
14	Roy/Hooper (9)	88,913	82	92.2	124.9	99.2	155.3
29	South Ogden (8)	73,348	122	166.3	145.4	120.2	174.4

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>2</sup>2009-2010 data were used to calculate U.S. rates. <sup>3</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>4</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>5</sup>Data are from 2012.

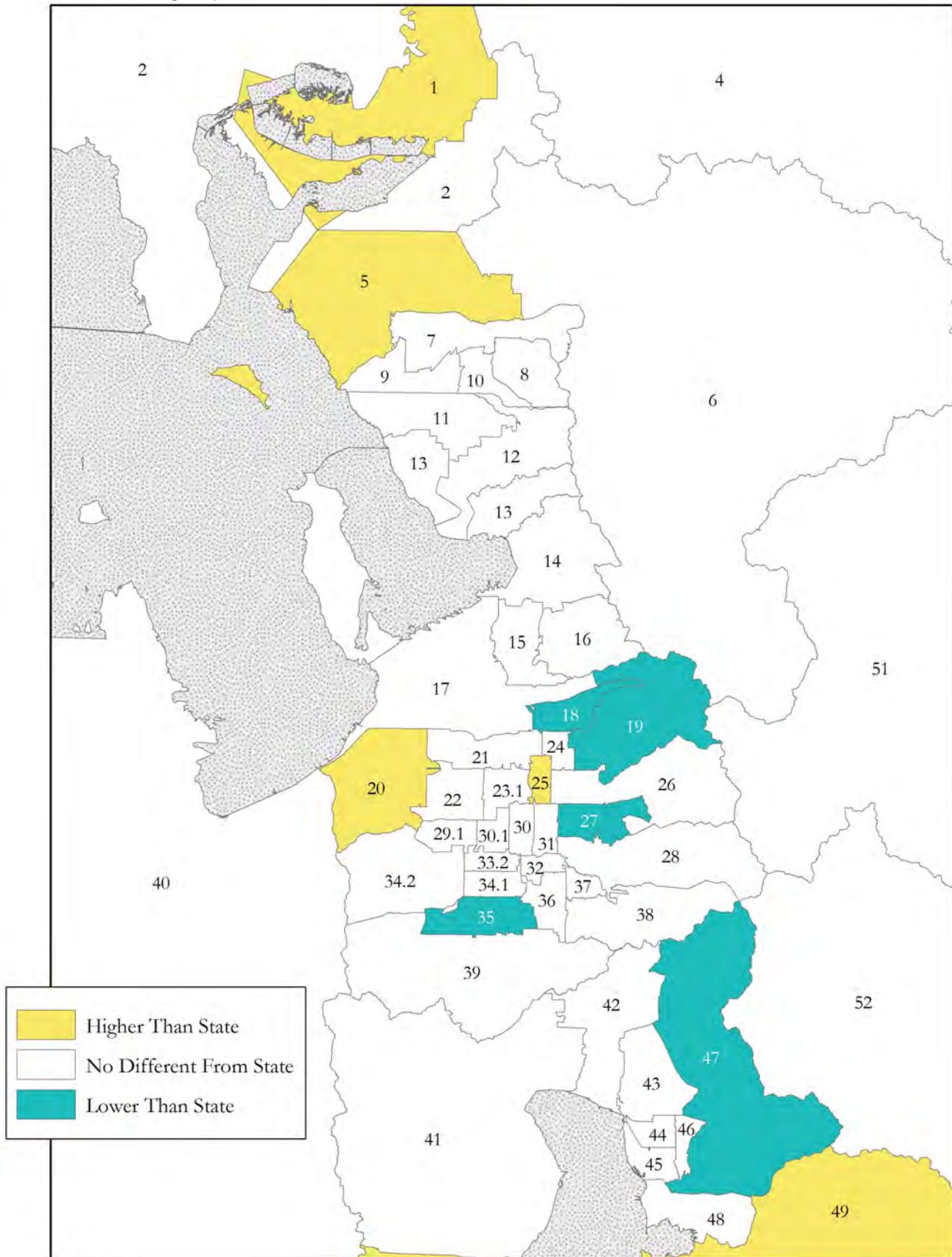
# Cardiovascular Disease Deaths

Figure 4.1: Cardiovascular Disease Deaths per 100,000 Population by Small Area, Utah, 2011-2012 (Age-adjusted)



# Cardiovascular Disease Deaths

Figure 4.2: Cardiovascular Disease Deaths per 100,000 Population by Small Area, Wasatch Front, Utah, 2011-2012 (Age-adjusted)



# 5. Current Adult Cigarette Smokers

## *Indicator Definition*

The percentage of adults aged 18 years and older who smoke cigarettes every day or some days.

Healthy People 2020 Objective

TU-1.1: Reduce tobacco use by adults: Cigarette smoking.

- U.S. Target: 12.0 percent
- State Target: 9.0 percent

## *Overview*

In Utah, smoking causes more than 1,150 deaths each year. Smoking causes or worsens nearly every chronic condition and contributes to Utah's primary causes of death including heart disease, respiratory disease, and cancer. Smoking increases the risk for cancer of the lungs, larynx, esophagus, mouth, and bladder and contributes to cancer of the cervix, pancreas, and kidneys. Secondhand smoke exposure increases the risk for heart disease and lung cancer among nonsmokers. Recent surveys show that approximately 75% of Utah smokers intend to quit within the next year<sup>7</sup>.

Among Utah Small Areas in 2011 and 2012, Salt Lake City (Glendale) small area had the highest proportion of adults 18 and older who smoke cigarettes every day or some days, with an age-adjusted rate of 26.6, and the American Fork/Alpine small area had the lowest age-adjusted rate at 3.3\*.

## *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 3: Health Communications
  - Create a process to develop and assess/evaluate multi-purpose media campaigns (Objective 1.5).
  - Increase public awareness of services available to manage chronic diseases and injury prevention (Objective 1.9).

\*Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution.

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	4.1, 4.2, 5.1, 5.5
Goal Area 2: Health Care Systems	1.1, 1.4
Goal Area 3: Community Clinical Linkages	
Goal Area 4: Health Communications	1.5, 1.9
Goal Area 5: Data and Evaluation	1.4, 2.1

## *Case in Point: Partnering with Local Health Departments to Develop Targeted Local Media Campaigns to Promote Quitting Among Tobacco Users*

(Aligns with Strategic Goal Area 3: Health Communications)

Tobacco prevention and control programs are most effective when interventions are coordinated and include tobacco-free policies, mass media campaigns, cessation support services, partnerships with health care providers and health plans, and community mobilization<sup>8</sup>. Utah's anti-tobacco media campaign encourages tobacco users to quit with graphic and emotional messages. The media campaign also provides information about available quit services. Cigarette smoking varies significantly by local health district and small area. To better reach tobacco users in geographically diverse areas, Utah's media campaign partners with local health departments to develop customized messages and delivery systems.

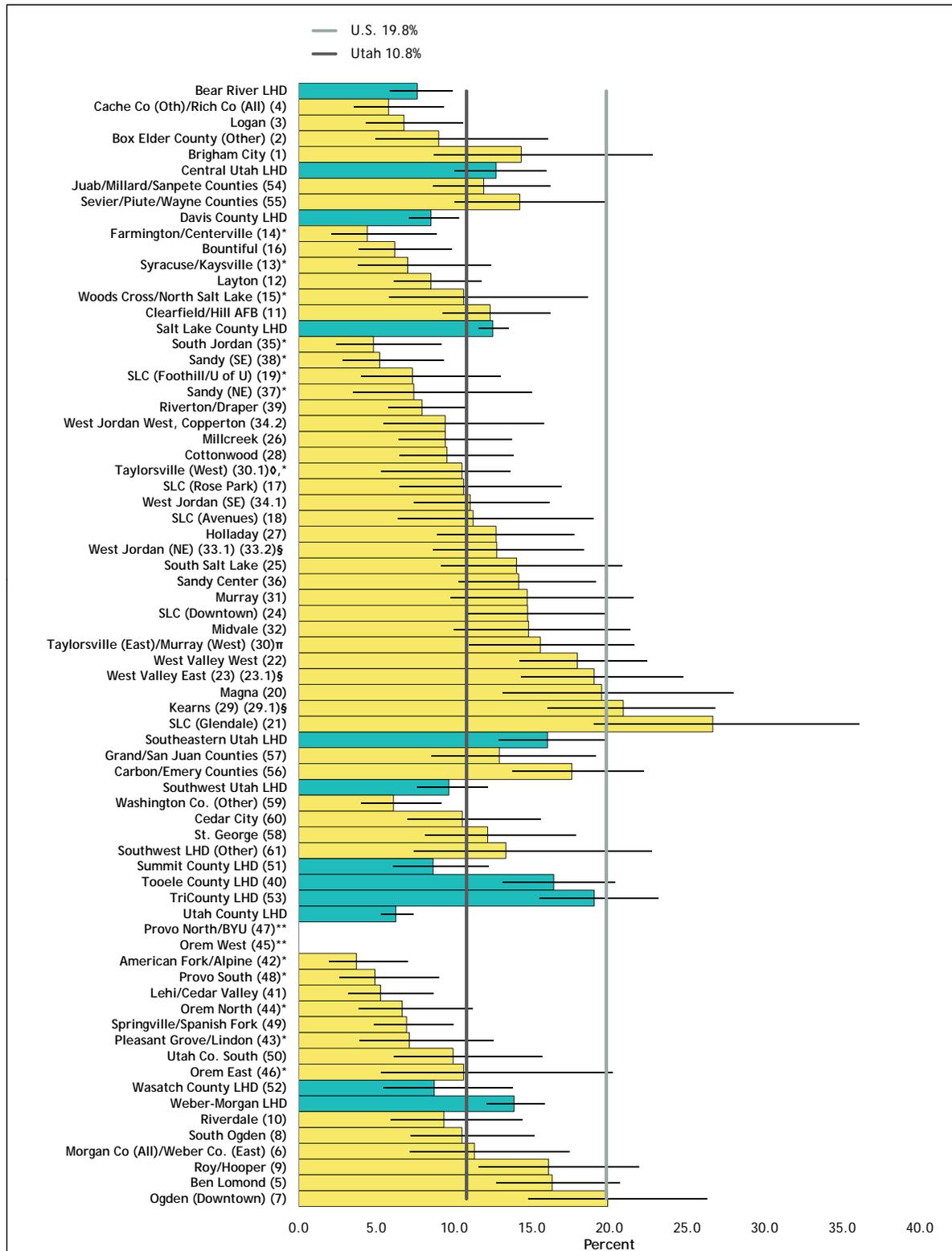
To reach tobacco users at the point of sale, Bear River Health Department purchased anti-tobacco advertising space at convenience stores and gas stations that had either high sales rates to underage youth during tobacco compliance checks or very high levels of tobacco advertising. These targeted anti-tobacco ads are expected to reduce tobacco purchases among users who plan to quit. In addition, they are intended to remind clerks of the negative consequences of tobacco sales to youth.

Since hookah, or waterpipes, are the second most commonly used tobacco product among Utah students, Salt Lake County Health Department assisted with identifying the locations of tobacco specialty shops where hookahs and accessories are sold. This information was used to place billboards and bus shelter advertisements close to these shops or directly outside of these shops. The billboards and bus shelter ads focus on the dangers of hookah use.

After the Weber-Morgan Health Department passed a smoke-free parks bill for Weber and Morgan counties, the anti-tobacco media campaign photographed local youth playing in these parks to create advertisements informing of the new policy. Those ads were placed on bus benches and on local buses that traveled past those parks that had adopted policies to help ensure cleaner air.

# Current Adult Cigarette Smokers

Figure 5: Percentage of Current Adult Cigarette Smokers by Small Area, Health District, Utah, and U.S., 2011-2012 (Age-adjusted)



§In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). δData are from 2012. \*Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. \*\*The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

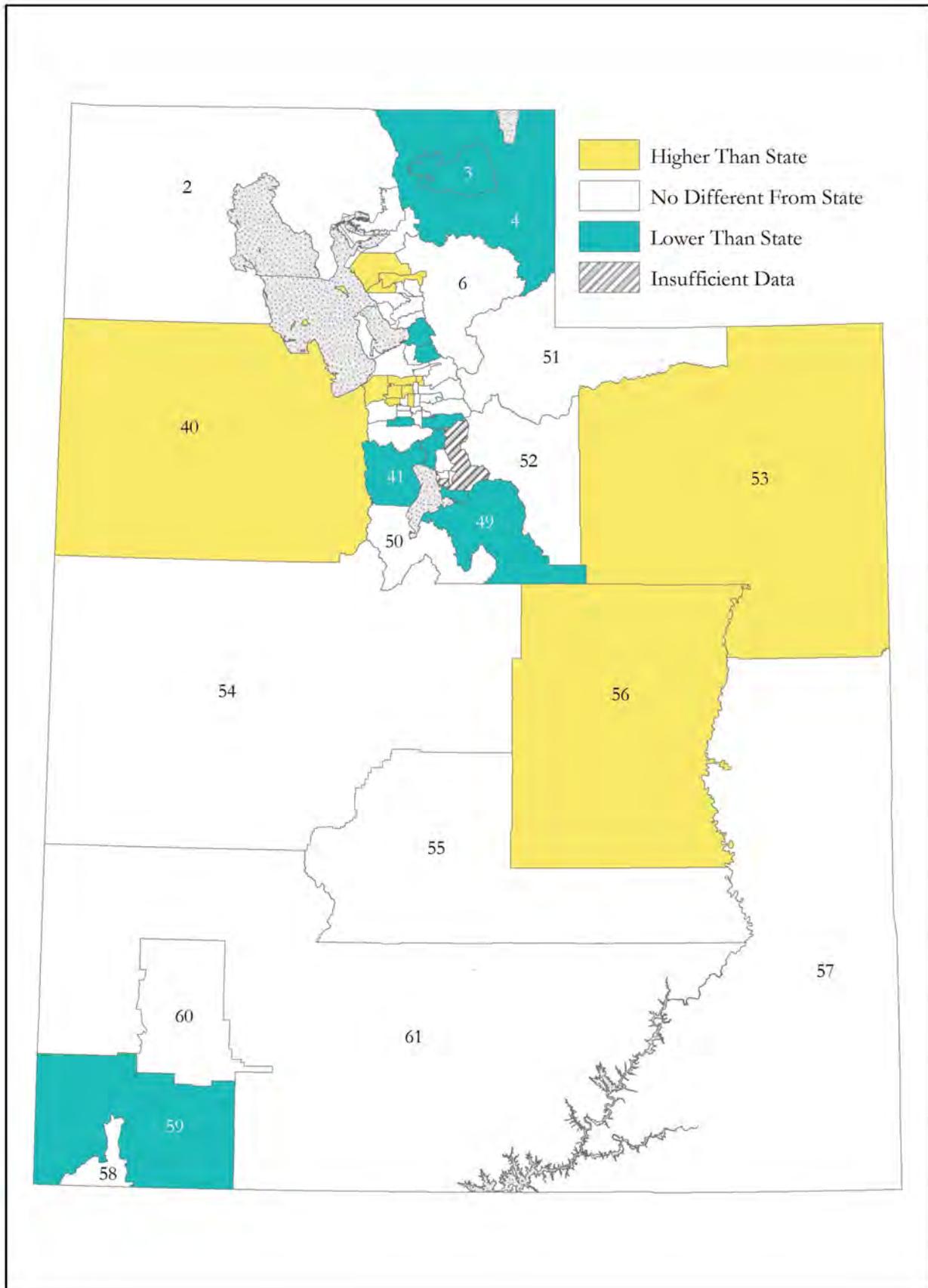
# Current Adult Cigarette Smokers

State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2011-2012 Population 18+	2011-2012 Current Adult Cigarette Smokers	Crude Rate	Age-adjusted Rate	95% Confidence Lower	95% Confidence Upper
	U.S.	477,862,819	93,183,250	19.5	19.8	19.6	19.9
	State of Utah	3,901,372	436,954	11.2	10.8	10.2	11.3
	Bear River LHD	228,606	19,020	8.3	7.6	5.8	9.9
46	Brigham City (1)	31,874	4,604	14.4	14.3	8.7	22.8
21	Box Elder County (Other) (2)	34,735	3,720	10.7*	9.0*	4.9	16.0
7	Cache Co (Oth)/Rich Co (All) (4)	54,829	3,548	6.5	5.8	3.5	9.3
11	Logan (3)	106,256	8,376	7.9	6.8	4.3	10.5
	Central Utah LHD	104,398	13,112	12.4	12.6	9.9	15.8
36	Juab/Millard/Sanpete Counties (54)	69,379	8,028	11.6	11.9	8.6	16.2
45	Sevier/Piute/Wayne Counties (55)	34,994	4,873	13.9	14.2	10.0	19.8
	Davis County LHD	414,908	36,968	9.2	8.7	7.2	10.5
9	Bountiful (16)	65,257	4,193	6.4	6.2	3.8	9.8
38	Clearfield/Hill AFB (11)	89,853	11,939	13.3	12.3	9.2	16.2
2	Farmington/Centerville (14)	46,659	1,938	4.2*	4.4*	2.1	8.9
19	Layton (12)	100,559	8,961	8.9	8.5	6.1	11.7
13	Syracuse/Kaysville (13)	71,854	5,877	8.2*	7.0*	3.8	12.4
31	Woods Cross/North Salt Lake (15)	40,812	3,956	9.8*	10.6*	5.8	18.6
	Salt Lake County LHD	1,501,652	195,665	13.0	12.5	11.6	13.5
25	Cottonwood (28)	69,252	6,317	9.1	9.5	6.5	13.8
39	Holladay (27)	71,641	8,571	12.0	12.7	8.9	17.7
60	Kearns (29) (29.1) <sup>§</sup>	70,542	16,988	24.1	20.9	16.0	26.8
57	Magna (20)	35,617	6,709	18.8	19.5	13.1	28.0
49	Midvale (32)	44,005	6,555	14.9	14.8	10.0	21.3
24	Millcreek (26)	86,875	8,529	9.8	9.4	6.4	13.7
47	Murray (31)	50,430	7,169	14.2	14.7	9.8	21.5
18	Riverton/Draper (39)	147,466	13,322	9.0	7.9	5.7	10.8
34	SLC (Avenues) (18)	37,200	4,348	11.7	11.2	6.4	19.0
48	SLC (Downtown) (24)	85,903	13,143	15.3	14.7	10.8	19.7
15	SLC (Foothill/U of U) (19)	36,278	3,193	8.8*	7.3*	4.0	13.0
61	SLC (Glendale) (21)	43,413	11,177	25.7	26.6	19.0	36.1
30	SLC (Rose Park) (17)	46,754	4,877	10.4	10.6	6.5	16.9
44	Sandy Center (36)	77,110	12,057	15.6	14.1	10.3	19.1
16	Sandy (NE) (37)	31,787	2,095	6.6*	7.4*	3.5	15.0
5	Sandy (SE) (38)	42,711	2,241	5.2*	5.2*	2.9	9.4
3	South Jordan (35)	71,060	3,478	4.9*	4.8*	2.5	9.2
43	South Salt Lake (25)	40,237	5,437	13.5	14.0	9.2	20.8
50	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	54,519	8,656	15.9	15.5	11.0	21.6
28	Taylorsville (West) (30.1) <sup>¶</sup>	27,721	2,639	9.5*	10.5*	5.3	19.6
40	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	46,765	6,973	14.9	12.7	8.6	18.4
33	West Jordan (SE) (34.1)	48,668	6,096	12.5	11.0	7.4	16.1
23	West Jordan West, Copperton (34.2)	52,695	4,861	9.2	9.4	5.4	15.8
56	West Valley East (23) (23.1) <sup>§</sup>	76,438	16,845	22.0	19.0	14.3	24.8
55	West Valley West (22)	106,577	19,261	18.1	17.9	14.2	22.4
	Southeastern Utah LHD	80,520	12,915	16.0	16.3	13.1	20.1
54	Carbon/Emery Counties (56)	46,384	7,735	16.7	17.6	13.8	22.2
41	Grand/San Juan Counties (57)	34,040	4,621	13.6	12.9	8.5	19.1
	Southwest Utah LHD	293,942	26,190	8.9	9.6	7.5	12.1
29	Cedar City (60)	58,169	6,606	11.4	10.5	7.0	15.6
42	Southwest LHD (Other) (61)	34,574	3,486	10.1	13.3	7.4	22.7
37	St. George (58)	111,179	12,121	10.9	12.2	8.1	17.8
8	Washington Co. (Other) (59)	89,831	5,374	6.0	6.1	4.0	9.2
20	Summit County LHD (51)	55,021	4,842	8.8	8.6	5.9	12.4
53	Tooele County LHD (40)	76,782	13,437	17.5	16.6	13.3	20.7
58	TriCounty LHD (53)	72,101	13,908	19.3	19.5	15.9	23.8
	Utah County LHD	696,993	46,141	6.6	6.1	5.2	7.3
1	American Fork/Alpine (42)	65,466	2,186	3.3*	3.7*	2.0	7.0
6	Lehi/Cedar Valley (41)	104,311	6,499	6.2	5.3	3.2	8.6
31	Orem East (46)	29,666	3,090	10.4*	10.6*	5.3	20.2
10	Orem North (44)	50,541	3,664	7.3	6.6	3.9	11.2
--	Orem West (45)	46,117	**	**	**	**	**
14	Pleasant Grove/Lindon (43)	67,225	5,105	7.6	7.1	3.9	12.5
--	Provo North/BYU (47)	83,166	**	**	**	**	**
4	Provo South (48)	98,619	3,775	3.8*	4.9*	2.6	9.0
12	Springville/Spanish Fork (49)	107,269	8,293	7.7	6.9	4.8	9.9
26	Utah Co. South (50)	43,958	4,984	11.3	9.9	6.1	15.7
17	Wasatch County LHD (52)	33,089	2,700	8.2	7.8	4.8	12.5
	Weber-Morgan LHD	343,360	50,405	14.7	14.2	12.4	16.3
52	Ben Lomond (5)	79,921	13,847	17.3	16.3	12.7	20.7
35	Morgan Co (All)/Weber Co. (East) (6)	59,487	6,518	11.0	11.3	7.1	17.4
59	Ogden (Downtown) (7)	51,758	10,558	20.4	19.9	14.7	26.3
22	Riverdale (10)	37,012	3,433	9.3	9.3	5.9	14.4
51	Roy/Hooper (8)	60,831	10,575	17.4	16.1	11.6	21.9
27	South Ogden (8)	53,886	5,304	9.8	10.5	7.2	15.1

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>§</sup>Data are from 2012. <sup>\*\*</sup>Insignificant number of cases to meet UDOH standards for data reliability, interpret with caution. <sup>\*\*</sup>The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

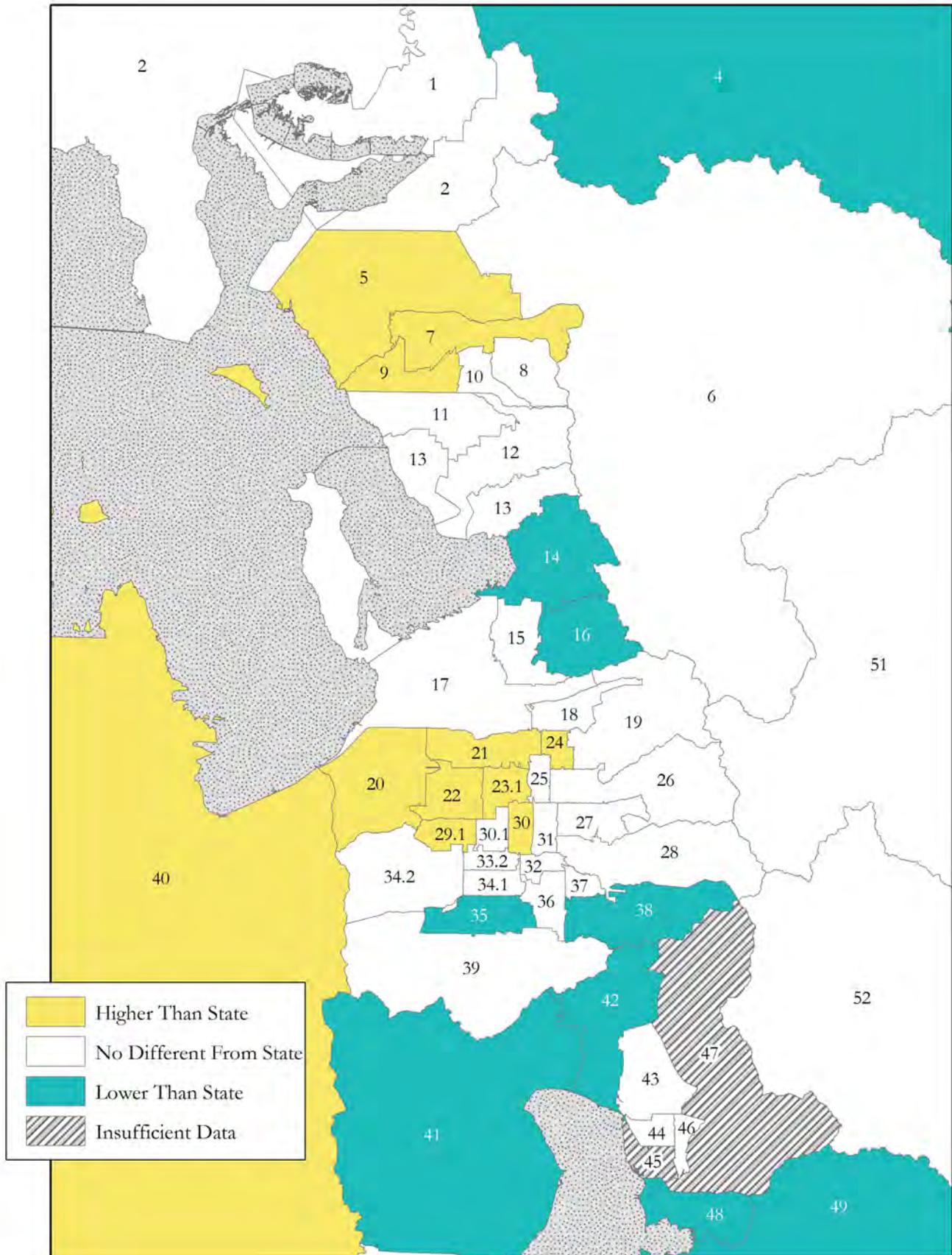
# Current Adult Cigarette Smokers

Figure 5.1: Percentage of Current Adult Cigarette Smokers by Small Area, Utah, 2011-2012 (Age-adjusted)



# Current Adult Cigarette Smokers

Figure 5.2: Percentage of Current Adult Cigarette Smokers by Small Area, Wasatch Front, Utah, 2011-2012 (Age-adjusted)



## 6. Adult Secondhand Smoke Exposure

### *Indicator Definition*

Proportion of adults who were exposed to secondhand smoke in any location.

Healthy People 2020 Objective

TU-11: Reduce the proportion of nonsmokers exposed to secondhand smoke.

TU-11.3: Reduce the proportion of adults aged 18 years and older exposed to secondhand smoke.

- U.S. Target: 33.8 percent of nonsmoking adults aged 18 years and older were exposed to secondhand smoke.

### *Overview*

Secondhand smoke contains over four-thousand chemicals and can cause cancer, heart disease, and many other health-related problems in people who do not smoke. There is no safe level of secondhand smoke exposure; brief exposure can be dangerous. Secondhand smoke can also cause eye irritation, headaches, nausea, and dizziness in nonsmokers. It can be especially dangerous for children and can result in pregnancy problems if a mother smokes or breathes secondhand smoke<sup>9</sup>. Utah works extensively with a variety of agencies and organizations to create policies that help reduce the amount of secondhand smoke that people breathe, including policies that affect housing, workplaces, outdoor venues and vehicles.

Among Utah Small Areas in 2011 and 2012, South Salt Lake small area had the highest proportion of adults who were exposed to secondhand smoke in any location, with an age-adjusted rate of 61.9, and South Jordan small area had the lowest age-adjusted rate at 25.7.

### *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 1: Environmental Approaches that Promote Health
  - Work with property managers/owners to adopt smoke-free policies in multiple-unit housing (Objective 2.1)
  - Coordinate efforts to create healthful and safe home environments (Objective 2.3)
  - Increase the number of Utah multiple-unit housing properties with smoke-free policies by 120 properties (Objective 2.6)
  - Educate and train local and county policy makers on healthful and safe community guidelines (Objective 4.1)

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	2.3, 2.4, 2.6, 4.1, 4.2, 5.5
Goal Area 2: Health Care Systems	
Goal Area 3: Community Clinical Linkages	
Goal Area 4: Health Communications	
Goal Area 5: Data and Evaluation	1.4, 2.1

## *Case in Point: Increasing Smoke-free Environments Through Partnerships with Landlords and Community Housing Agencies*

(Aligns with Strategic Goal Area 1: Environmental Approaches that Promote Health)

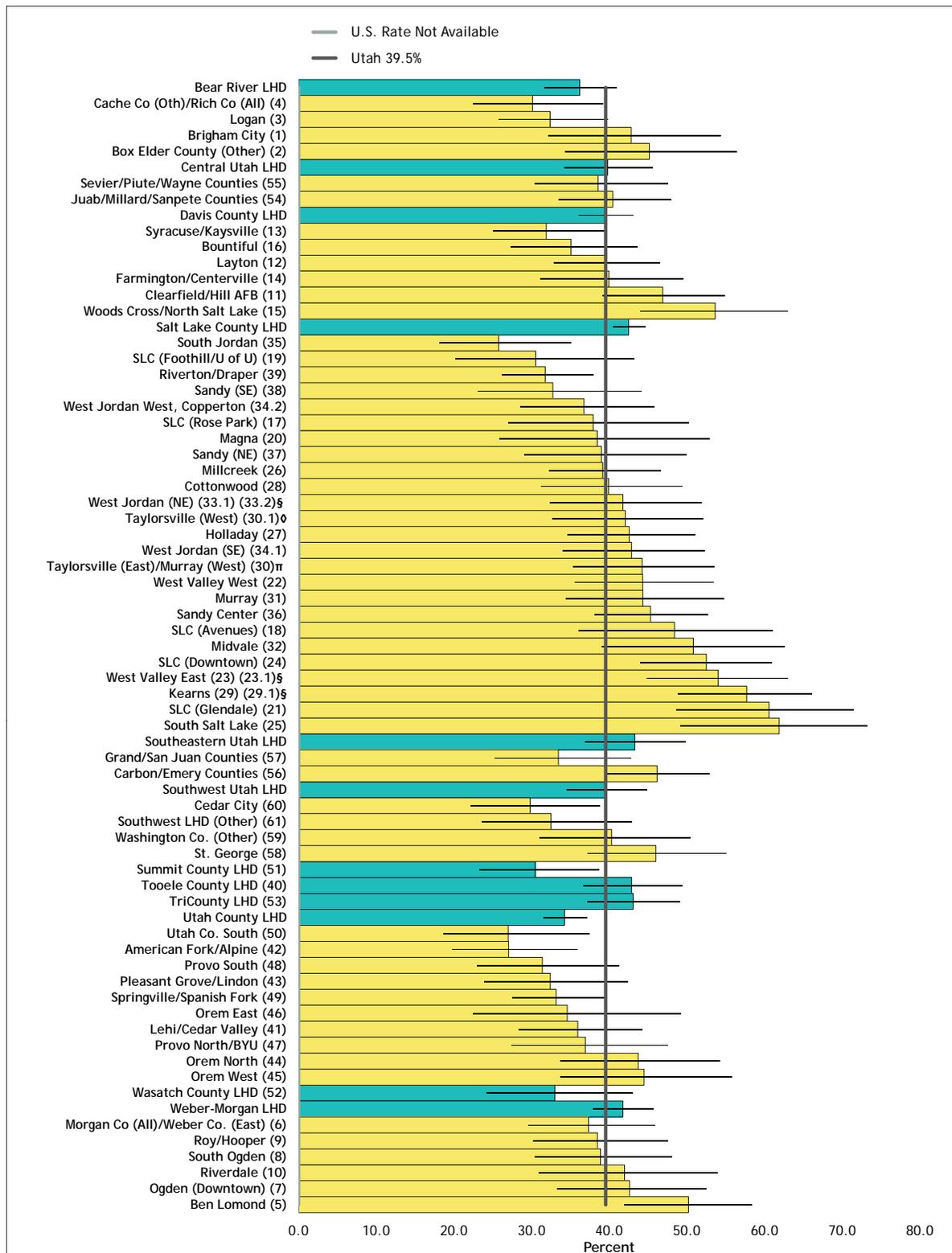
The Environmental Protection Agency has classified secondhand smoke (SHS) as a Group A carcinogen, similar to asbestos, and repeated exposure can have many of the same harmful effects as direct exposure to tobacco<sup>10</sup>. To reduce exposure to SHS, the Utah Tobacco Prevention and Control Program (TPCP) partners with local health departments, the Environmental Sanitation Program, and community agencies to educate about the benefits of tobacco-free policies in homes, workplaces, health care settings, and community venues such as parks and sports arenas.

Exposure to SHS inside the home is nearly three times higher for those who rent homes compared to those who own homes (Utah BRFSS 2012). To increase protection from SHS exposure in Utah rental units, TPCP works with the Environmental Sanitation Program and local health departments to educate property owners, managers, and tenants about the steps needed to pass smoke-free housing policies. Smoke-free properties are listed on the TPCP website as part of the Utah Statewide Smoke-free Housing Directory (<http://www.tobaccofreeutah.org/tobfreehousing.php>). Currently, the Directory includes more than 22,000 smoke-free housing units in 17 counties. Utah's Guide to Smoke-free Apartments and Condominiums is posted at <http://www.tobaccofreeutah.org/muh-intro.html>.

Tobacco use disproportionately affects populations of lower socioeconomic status. Partnerships with the housing authorities of Utah have ensured that nearly 3,000 smoke-free units are available through housing authorities in Carbon, Tooele, Wasatch, and Salt Lake Counties, as well as Provo, Ogden, and Roosevelt cities.

# Adult Secondhand Smoke Exposure

Figure 6: Percentage of Adult Secondhand Smoke Exposure by Small Area, Health District, Utah, and U.S., 2011-2012 (Age-adjusted)



§In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). ¶Data are from 2012.

# Adult Secondhand Smoke Exposure

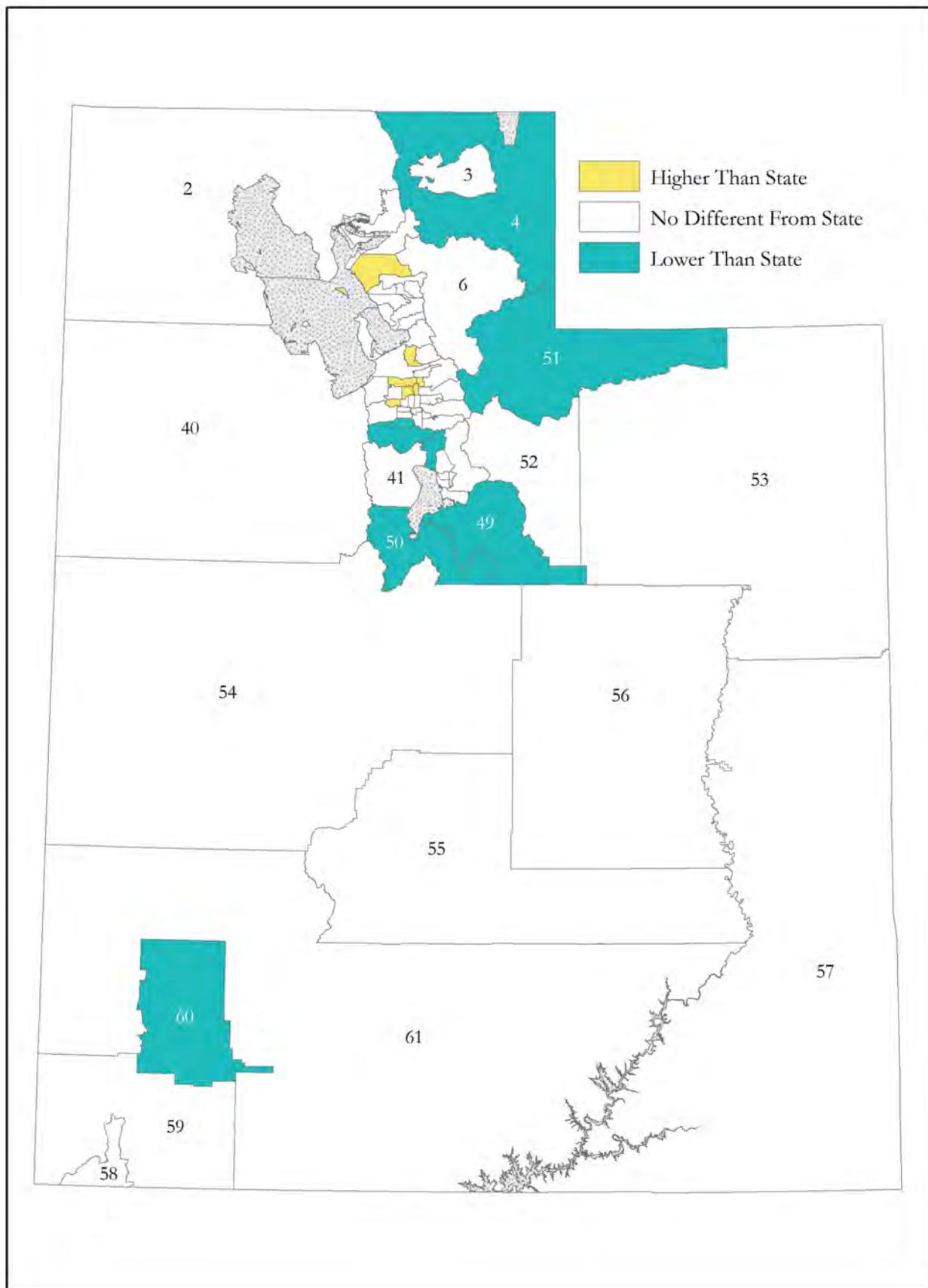
**Table 6: Percentage of Adult Secondhand Smoke Exposure by Small Area, Health District, Utah, and U.S., 2011-2012**

State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2011-2012 Population 18+	2011-2012 Adult Secondhand Smoke Exposure	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
						Lower	Upper
	U.S. <sup>2</sup>	--	--	--	--	--	--
	State of Utah	3,901,372	1,587,761	40.7	39.5	38.3	40.8
	Bear River LHD	228,606	87,679	38.4	36.2	31.6	41.0
41	Brigham City (1)	31,874	13,178	41.3	42.8	32.1	54.3
50	Box Elder County (Other) (2)	34,735	15,514	44.7	45.1	34.3	56.4
5	Cache Co (Oth)/Rich Co (All) (4)	54,829	16,992	31.0	30.1	22.4	39.2
11	Logan (3)	106,256	42,394	39.9	32.4	25.7	39.8
	Central Utah LHD	104,398	40,342	38.6	39.8	34.2	45.6
35	Juab/Millard/Sanpete Counties (54)	69,379	26,831	38.7	40.5	33.4	47.9
26	Sevier/Piute/Wayne Counties (55)	34,994	12,847	36.7	38.5	30.3	47.5
	Davis County LHD	414,908	172,062	41.5	39.5	36.1	43.1
19	Bountiful (16)	65,257	24,280	37.2	35.1	27.3	43.7
54	Clearfield/Hill AFB (11)	89,853	44,006	49.0	46.9	39.1	54.8
32	Farmington/Centerville (14)	46,659	17,097	36.6	39.9	31.1	49.5
31	Layton (12)	100,559	40,039	39.8	39.5	32.9	46.6
10	Syracuse/Kaysville (13)	71,854	26,549	36.9	31.9	25.0	39.6
59	Woods Cross/North Salt Lake (15)	40,812	22,171	54.3	53.6	44.0	63.0
	Salt Lake County LHD	1,501,652	651,812	43.4	42.5	40.4	44.6
33	Cottonwood (28)	69,252	24,548	35.4	39.9	31.2	49.3
39	Holladay (27)	71,641	25,978	36.3	42.5	34.6	51.0
61	Kearns (29) (29.1) <sup>5</sup>	70,542	43,271	61.3	57.7	48.8	66.1
25	Magna (20)	35,617	15,009	42.1	38.4	25.8	52.9
57	Midvale (32)	44,005	24,327	55.3	50.8	39.0	62.5
30	Millcreek (26)	86,875	33,181	38.2	39.1	32.1	46.6
47	Murray (31)	50,430	22,695	45.0	44.3	34.4	54.7
9	Riverton/Draper (39)	147,466	50,362	34.2	31.7	26.1	37.9
55	SLC (Avenues) (18)	37,200	17,541	47.2	48.4	36.0	61.0
58	SLC (Downtown) (24)	85,903	51,447	59.9	52.5	43.9	60.9
6	SLC (Foothill/U of U) (19)	36,278	12,516	34.5	30.5	20.2	43.2
62	SLC (Glendale) (21)	43,413	26,059	60.0	60.5	48.6	71.4
24	SLC (Rose Park) (17)	46,754	18,060	38.6	37.9	27.0	50.2
51	Sandy Center (36)	77,110	35,271	45.7	45.3	38.2	52.7
29	Sandy (NE) (37)	31,787	13,357	42.0	39.0	29.1	49.9
14	Sandy (SE) (38)	42,711	12,472	29.2	32.7	23.1	44.1
1	South Jordan (35)	71,060	19,589	27.6	25.7	18.2	35.1
63	South Salt Lake (25)	40,237	24,914	61.9	61.9	49.1	73.2
46	Taylorsville (East)/Murray (West) (30) <sup>m</sup>	54,519	26,139	47.9	44.2	35.3	53.5
38	Taylorsville (West) (30.1) <sup>o</sup>	27,721	9,922	35.8	42.1	32.6	52.1
36	West Jordan (NE) (33.1) (33.2) <sup>5</sup>	46,765	18,053	38.6	41.8	32.3	51.8
42	West Jordan (SE) (34.1)	48,668	22,633	46.5	42.8	34.0	52.2
21	West Jordan West, Copperton (34.2)	52,695	20,837	39.5	36.7	28.6	45.8
60	West Valley East (23) (23.1) <sup>5</sup>	76,438	42,761	55.9	54.0	44.8	63.0
48	West Valley West (22)	106,577	49,065	46.0	44.3	35.5	53.4
	Southeastern Utah LHD	80,520	80,520	41.2	43.3	36.9	49.8
53	Carbon/Emery Counties (56)	46,384	20,003	43.1	46.1	39.5	52.9
17	Grand/San Juan Counties (57)	34,040	12,565	36.9	33.4	25.2	42.8
	Southwest Utah LHD	293,942	293,942	37.7	39.6	34.5	44.9
4	Cedar City (60)	58,169	18,058	31.0	29.8	22.2	38.7
13	Southwest LHD (Other) (61)	34,574	10,581	30.6	32.5	23.6	42.9
52	St. George (58)	111,179	49,603	44.6	46.0	37.2	55.1
34	Washington Co. (Other) (59)	89,831	32,692	36.4	40.3	30.9	50.4
7	Summit County LHD (51)	55,021	16,548	30.1	30.5	23.3	38.7
43	Tooele County LHD (40)	76,782	33,597	43.8	42.9	36.6	49.3
44	TriCounty LHD (53)	72,101	31,704	44.0	43.0	37.2	49.1
	Utah County LHD	696,993	256,719	36.8	34.2	31.4	37.1
2	American Fork/Alpine (42)	65,466	17,350	26.5	27.0	19.7	35.9
20	Lehi/Cedar Valley (41)	104,311	42,070	40.3	35.9	28.3	44.3
18	Orem East (46)	29,666	11,177	37.7	34.6	22.4	49.2
45	Orem North (44)	50,541	26,224	51.9	43.7	33.7	54.3
49	Orem West (45)	46,117	21,839	47.4	44.5	33.7	55.8
12	Pleasant Grove/Lindon (43)	67,225	22,205	33.0	32.4	23.8	42.3
22	Provo North/BYU (47)	83,166	33,152	39.9	36.9	27.4	47.5
8	Provo South (48)	98,619	36,636	37.1	31.4	22.9	41.2
16	Springville/Spanish Fork (49)	107,269	38,224	35.6	33.1	27.5	39.3
3	Utah Co. South (50)	43,958	12,506	28.4	27.0	18.6	37.4
15	Wasatch County LHD (52)	33,089	11,117	33.6	33.0	24.3	43.0
	Weber-Morgan LHD	343,360	145,095	42.3	41.7	37.9	45.7
56	Ben Lomond (5)	79,921	41,916	52.4	50.2	42.0	58.4
23	Morgan Co (All)/Weber Co. (East) (6)	59,487	22,408	37.7	37.3	29.5	45.8
40	Ogden (Downtown) (7)	51,758	22,183	42.9	42.6	33.3	52.5
37	Riverdale (10)	37,012	15,860	42.9	42.0	30.9	53.9
27	Roy/Hooper (9)	60,831	22,851	37.6	38.5	30.2	47.5
28	South Ogden (8)	53,886	21,901	40.6	38.9	30.4	48.0

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>2</sup>U.S. rate not available. <sup>3</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>4</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>5</sup>Data are from 2012.

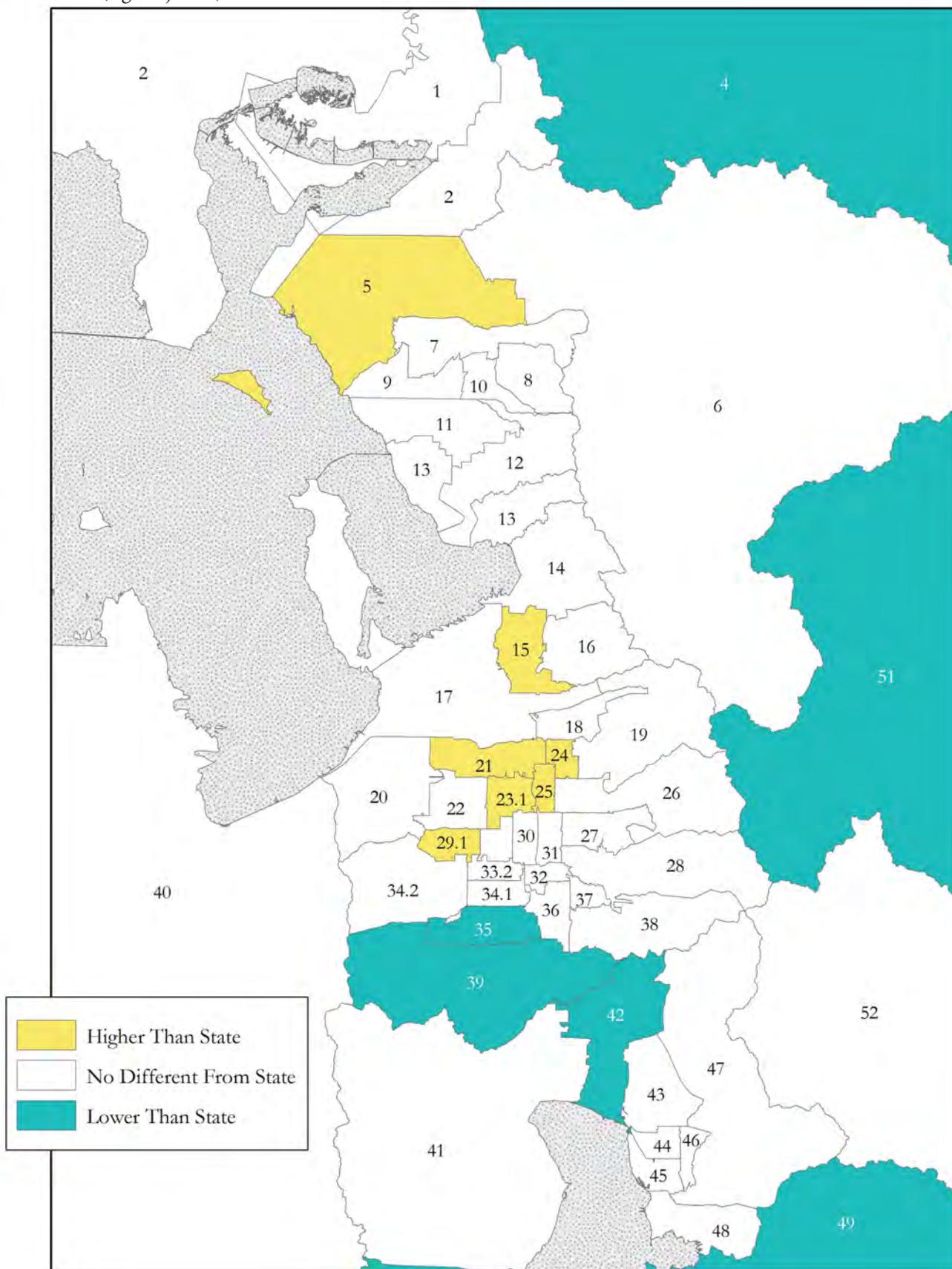
# Adult Secondhand Smoke Exposure

Figure 6.1: Percentage of Adult Secondhand Smoke Exposure by Small Area, Utah, 2011-2012 (Age-adjusted)



# Adult Secondhand Smoke Exposure

Figure 6.2: Percentage of Adult Secondhand Smoke Exposure by Small Area, Wasatch Front, Utah, 2011-2012 (Age-adjusted)



# 7. Obese Adults

## *Indicator Definition*

The percentage of respondents aged 18 or older who have had a body mass index (BMI) greater than or equal to 30.0 kg/m<sup>2</sup> calculated from self-reported weight and height.

## *Healthy People 2020 Objective*

NWS-9: Reduce the proportion of adults who are obese.

- U.S. Target: 30.6 percent
- State Target: 24.0 percent

## *Overview*

Adults who are obese are at increased risk of morbidity from hypertension, high LDL cholesterol, type 2 diabetes, coronary heart disease, stroke, osteoarthritis, sleep apnea, respiratory problems, and endometrial, breast, prostate, and colon cancers<sup>11</sup>. In just 14 years, the age-adjusted proportion of obese Utah adults increased from 15.8% in 1997 to 24.8% in 2012<sup>12</sup>. Genetic or familial factors may increase the risk for being overweight or obese for some people, but anyone whose calorie intake exceeds the number of calories they burn is at risk. Physical activity and a healthy diet are important for reaching and maintaining a healthy weight.

Among Utah Small Areas in 2011 and 2012, Kearns small area had the highest proportion of adults who are obese, with an age-adjusted rate of 36.1, and Salt Lake City (Avenues) small area had the lowest age-adjusted rate at 9.2.

## *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 1: Environmental Approaches that Promote Health
  - Create a process to educate families to eat healthful meals together (Objective 2.2).
  - Work with the Utah Department of Transportation (UDOT), cities, and municipalities to enhance the safety, access, and perceived safety of communities to improve walkability, bikeability, and public transit (Objective 4.3).

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	1.1, 2.2, 2.7, 4.2, 4.3, 4.4, 4.5, 4.11, 4.12, 5.1, 5.4, 5.6, 5.7
Goal Area 2: Health Care Systems	1.6, 1.7
Goal Area 3: Community Clinical Linkages	1.2, 1.3, 1.4, 1.10
Goal Area 4: Health Communications	
Goal Area 5: Data and Evaluation	

## ***Case in Point: Reducing Adult Obesity***

(Aligns with Strategic Goal Area 1: Environmental Approaches that Promote Health)

Utah's Healthy Living through Environment, Policy, and Improved Clinical Care (EPICC) Program aims to reduce adult obesity by increasing physical activity and improving nutrition opportunities in the environments where Utahns live, work, and play.

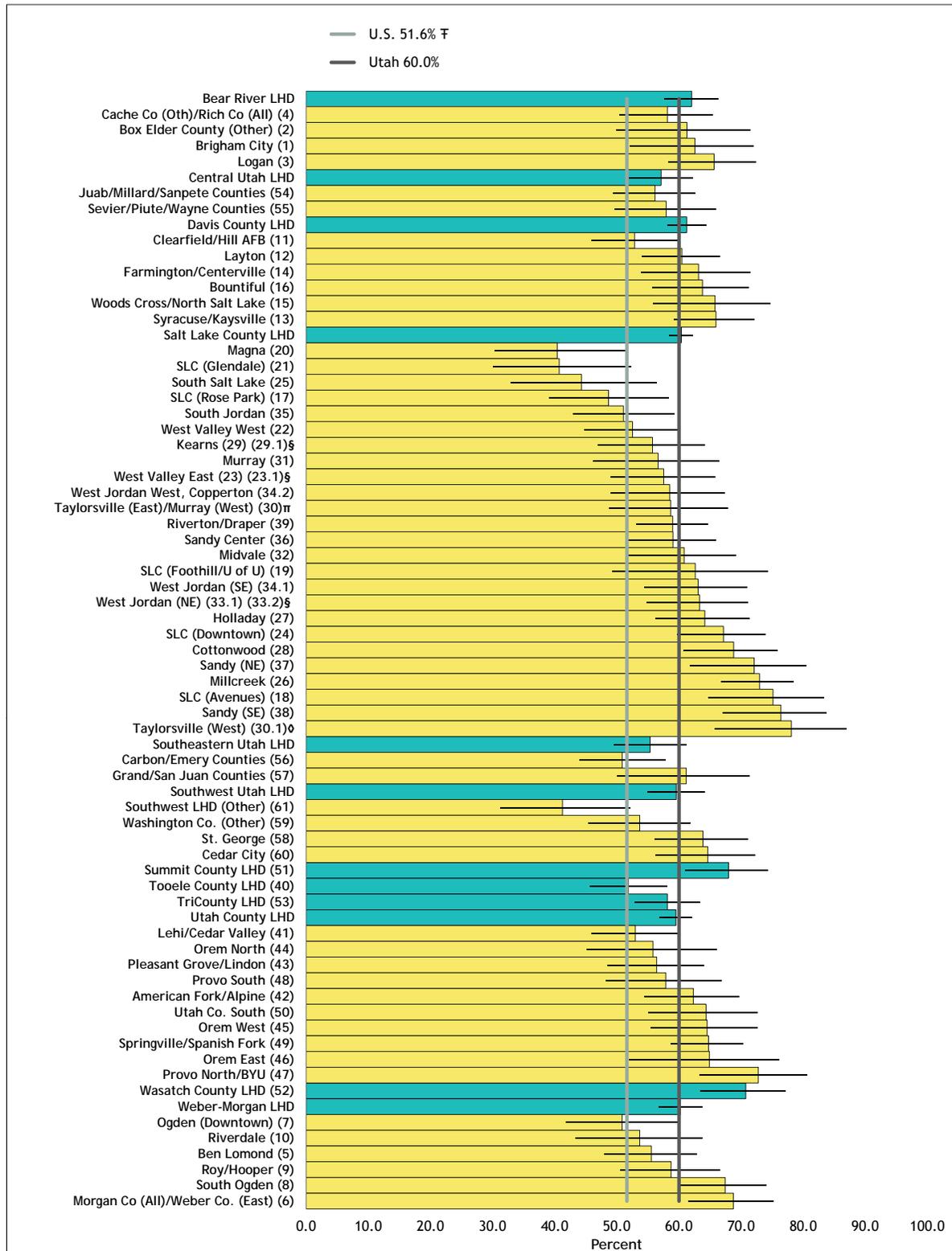
Interventions are carried out by working closely with state agencies, local health departments, coalitions, and other partners. They include the following:

- Expanding access to fresh fruit and vegetables through farmer's markets, especially among low income and underserved populations
- Implementing food service guidelines and nutrition standards (including sodium) in state and local agencies
- Encouraging communities to increase available venues for physical activity through adoption of bicycle and pedestrian master plans
- Encouraging health care providers to prescribe increasing physical activity and fruit and vegetable intake to patients

Additional information may be found at <http://choosehealth.utah.gov>

# Obese Adults

Figure 7: Percentage of Obese Adults by Small Area, Health District, Utah, and U.S., 2011-2012 (Age-adjusted)



§In 2012, the Kearns, West Jordan Northeast, and West Valley East Small Areas were redefined (Appendix A). πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). ◊Data are from 2012.

# Obese Adults

Table 7: Percentage of Obese Adults by Small Area, Health District, Utah, and U.S., 2011-2012

State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2011-2012 Population 18+	2011-2012 Obese Adults	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
						Lower	Upper
	U.S.	477,862,819	131,890,138	27.6	27.4	27.2	27.6
	State of Utah	3,901,372	949,204	24.3	24.9	24.2	25.6
	Bear River LHD	228,606	56,313	24.6	26.3	23.6	29.2
61	Brigham City (1)	31,874	11,279	35.4	35.0	27.3	43.6
45	Box Elder County (Other) (2)	34,735	9,875	28.4	27.9	21.6	35.3
26	Cache Co (Oth)/Rich Co (All) (4)	54,829	12,576	22.9	23.9	19.3	29.2
27	Logan (3)	106,256	21,785	20.5	23.9	19.8	28.6
	Central Utah LHD	104,398	27,008	25.9	25.5	22.5	28.8
30	Juab/Millard/Sanpete Counties (54)	69,379	17,534	25.3	24.8	21.0	29.0
46	Sevier/Piute/Wayne Counties (55)	34,994	9,539	27.3	28.0	23.2	33.3
	Davis County LHD	414,908	104,640	25.2	25.2	23.1	27.5
16	Bountiful (16)	65,257	13,211	20.2	21.7	17.1	27.0
59	Clearfield/Hill AFB (11)	89,853	30,030	33.4	33.1	28.1	38.5
28	Farmington/Centerville (14)	46,659	11,661	25.0	24.3	18.3	31.5
37	Layton (12)	100,559	25,833	25.7	26.2	22.1	30.9
9	Syracuse/Kaysville (13)	71,854	15,796	22.0	20.5	16.1	25.7
25	Woods Cross/North Salt Lake (15)	40,812	10,021	24.6	23.7	17.9	30.6
	Salt Lake County LHD	1,501,652	371,741	24.8	24.9	23.7	26.1
3	Cottonwood (28)	69,252	10,653	15.4	14.6	11.1	19.0
21	Holladay (27)	71,641	15,783	22.0	22.7	17.5	28.8
63	Kearns (29) (29.1) <sup>§</sup>	70,542	23,361	33.1	36.1	30.2	42.3
62	Magna (20)	35,617	13,902	39.0	35.1	27.4	43.6
51	Midvale (32)	44,005	12,159	27.6	30.0	22.7	38.4
17	Millcreek (26)	86,875	18,180	20.9	21.7	17.3	26.9
60	Murray (31)	50,430	16,678	33.1	34.2	27.0	42.3
18	Riverton/Draper (39)	147,466	32,676	22.2	22.2	19.0	25.7
1	SLC (Avenues) (18)	37,200	3,359	9.0	9.2	5.8	14.4
13	SLC (Downtown) (24)	85,903	15,929	18.5	21.2	16.3	27.1
4	SLC (Foothill/U of U) (19)	36,278	5,572	15.4	17.7	11.3	26.8
52	SLC (Glendale) (21)	43,413	13,317	30.7	30.0	22.4	38.8
40	SLC (Rose Park) (17)	46,754	12,524	26.8	27.2	20.6	34.8
35	Sandy Center (36)	77,110	19,415	25.2	25.7	20.8	31.1
5	Sandy (NE) (37)	31,787	6,031	19.0	17.9	12.6	24.8
6	Sandy (SE) (38)	42,711	8,143	19.1	18.5	13.3	25.0
19	South Jordan (35)	71,060	16,217	22.8	22.2	17.9	27.3
36	South Salt Lake (25)	40,237	9,921	24.7	26.1	18.9	34.8
31	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	54,519	13,240	24.3	24.8	19.0	31.8
23	Taylorsville (West) (30.1) <sup>°</sup>	27,721	7,254	26.2	23.3	15.3	33.8
42	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	46,765	11,670	25.0	27.5	22.1	33.7
43	West Jordan (SE) (34.1)	48,668	13,824	28.4	27.5	21.4	34.6
50	West Jordan West, Copperton (34.2)	52,695	15,344	29.1	29.7	23.2	37.1
58	West Valley East (23) (23.1) <sup>§</sup>	76,438	25,364	33.2	31.6	25.6	38.2
47	West Valley West (22)	106,577	29,700	27.9	28.3	24.0	33.0
	Southeastern Utah LHD	80,520	22,111	27.5	26.5	22.6	30.9
54	Carbon/Emery Counties (56)	46,384	14,715	31.7	30.4	25.4	35.9
12	Grand/San Juan Counties (57)	34,040	7,033	20.7	21.0	15.4	28.0
	Southwest Utah LHD	293,942	68,988	23.5	24.2	21.2	27.4
48	Cedar City (60)	58,169	15,899	27.3	29.0	22.7	36.2
24	Southwest LHD (Other) (61)	34,574	8,966	25.9	23.5	15.6	33.8
11	St. George (58)	111,179	20,852	18.8	20.8	16.2	26.3
32	Washington Co. (Other) (59)	89,831	22,118	24.6	25.0	20.1	30.7
2	Summit County LHD (51)	55,021	6,944	12.6	12.1	9.0	16.1
49	Tooele County LHD (40)	76,782	23,035	30.0	29.2	25.8	32.9
44	TriCounty LHD (53)	72,101	20,542	28.5	27.8	24.2	31.7
	Utah County LHD	696,993	151,139	21.7	24.0	22.3	25.7
33	American Fork/Alpine (42)	65,466	15,360	23.5	25.2	20.5	30.6
39	Lehi/Cedar Valley (41)	104,311	25,884	24.8	27.0	22.4	32.2
34	Orem East (46)	29,666	8,402	28.3	25.4	17.9	34.7
41	Orem North (44)	50,541	12,025	23.8	27.4	21.5	34.1
14	Orem West (45)	46,117	7,355	15.9	21.4	14.7	30.1
8	Pleasant Grove/Lindon (43)	67,225	13,472	20.0	20.2	15.3	26.2
7	Provo North/BYU (47)	83,166	12,569	15.1	19.6	14.1	26.6
38	Provo South (48)	98,619	19,995	20.3	26.6	20.6	33.6
29	Springville/Spanish Fork (49)	107,269	24,279	22.6	24.6	20.9	28.7
20	Utah Co. South (50)	43,958	10,283	23.4	22.2	17.4	28.0
10	Wasatch County LHD (52)	33,089	7,048	21.3	20.6	16.9	24.9
	Weber-Morgan LHD	343,360	93,291	27.2	27.4	24.5	29.2
53	Ben Lomond (5)	79,921	24,290	30.4	30.4	25.4	35.9
15	Morgan Co (All)/Weber Co. (East) (6)	59,487	13,511	22.7	21.5	17.1	26.6
55	Ogden (Downtown) (7)	51,758	15,384	29.7	30.5	24.0	38.0
57	Riverdale (10)	37,012	10,505	28.4	30.9	24.2	38.6
56	Roy/Hooper (9)	60,831	19,233	31.6	30.6	25.1	36.7
22	South Ogden (8)	53,886	11,617	21.6	23.3	17.7	30.0

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A).

<sup>°</sup>Data are from 2012.

# Obese Adults

Figure 7.1: Percentage of Obese Adults by Small Area, Utah, 2011-2012 (Age-adjusted)

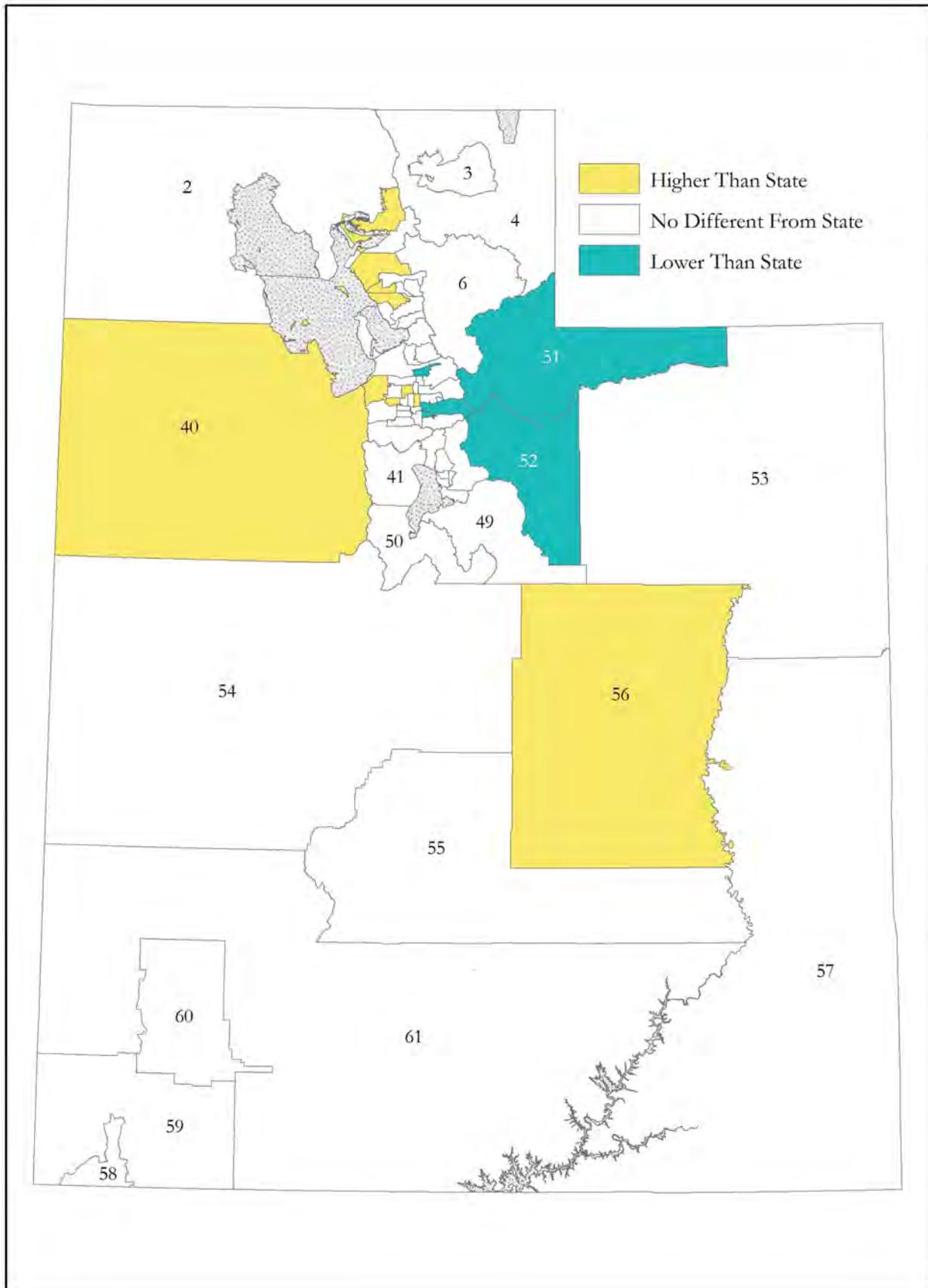
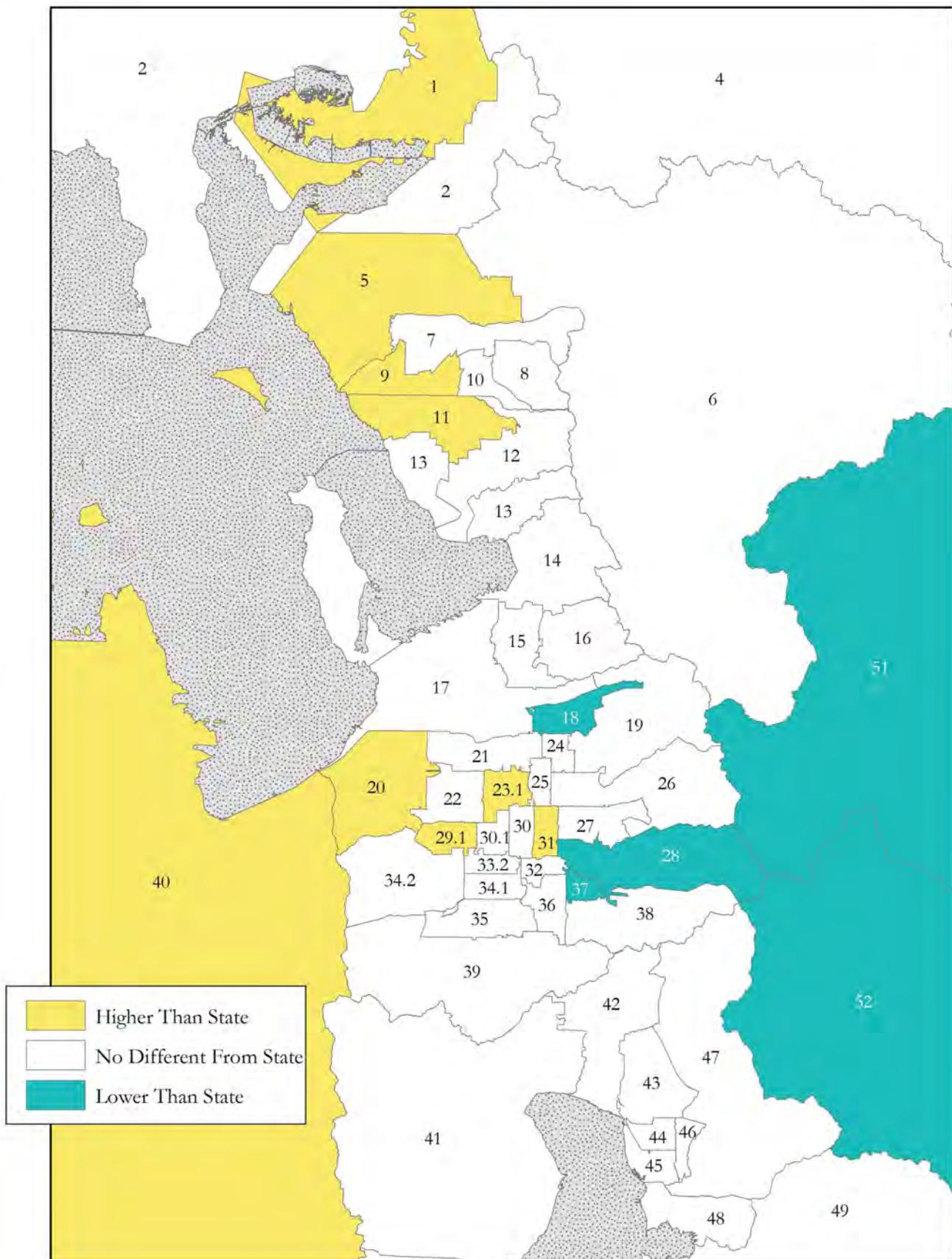


Figure 7.2: Percentage of Obese Adults by Small Area, Wasatch Front, Utah, 2011-2012 (Age-adjusted)



## 8. Physically Active Adults

### *Indicator Definition*

The percentage of adults aged 18 years and older who meet aerobic physical activity recommendations of getting at least 150 minutes per week of moderate-intensity activity, or 75 minutes of vigorous-intensity activity, or an equivalent combination of moderate-vigorous intensity activity.

### *Healthy People 2020 Objective*

PA-2.1: Increase the proportion of adults who engage in aerobic physical activity of at least moderate intensity for at least 150 minutes/week, or 75 minutes/week of vigorous intensity, or an equivalent combination.

- U.S. Target: 47.9 percent

### *Overview*

From 2011-2012, 60.0% of Utah adults reported getting the recommended amount of aerobic physical activity<sup>13</sup>. Physical activity improves general physical and mental health. It helps protect against cardiovascular disease and has been shown to reduce the risk of some cancers, type 2 diabetes, stroke, and heart disease, as well as relieve pain from osteoarthritis<sup>14</sup>. In addition, regular physical activity is known to improve affective disorders such as depression and anxiety, and can increase quality of life and independent living among the elderly<sup>15</sup>. Physical inactivity is a leading cause of premature death and results in greater occurrence of illness.

Among Utah Small Areas in 2011 and 2012, Taylorsville West small area had the highest proportion of adults who meet physical activity guidelines for aerobic physical activity, with an age-adjusted rate of 78.1, and Magna small area had the lowest age-adjusted rate at 40.4.

### *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 1: Environmental Approaches that Promote Health
  - Educate and train local and county policy makers on healthful and safe community guidelines (Objective 4.1)
  - Work with city planners to influence retail environments to promote healthful behaviors (Objective 4.2)
  - Work with the Utah Department of Transportation (UDOT), cities, and municipalities, to enhance the safety, access, and perceived safety of communities to improve walkability, bikeability, and public transit (Objective 4.3)
  - Work with local governments and businesses to increase availability of and access to safe, affordable, or free recreation opportunities for physical activity (Objective 4.4)
  - Increase the number of worksites supporting opportunities for employees to be physically active by 25% (Objective 5.6)

Strategic Goal Area	Related Objectives
Goal Area 1: Environmental Approaches that Promote Health	1.1, 2.2, 2.7, 4.2, 4.3, 4.4, 4.5, 4.11, 4.12, 5.1, 5.4, 5.6, 5.7
Goal Area 2: Health Care Systems	1.6, 1.7
Goal Area 3: Community Clinical Linkages	1.2, 1.3, 1.4, 1.10
Goal Area 4: Health Communications	
Goal Area 5: Data and Evaluation	

## *Case in Point: Increasing Physical Activity Among Utah Adults*

(Aligns with Strategic Goal Area 1: Environmental Approaches that Promote Health)

Utah's Healthy Living through Environment, Policy, and Improved Clinical Care (EPICC) Program aims to improve health in the state by increasing physical activity, improving nutrition, and improving health care services for adults and children.

EPICC partners with the Utah Department of Transportation, the Utah Cancer Control Program, National Parks Service, and local health departments to promote community infrastructures that support bicycling and walking. Bicycle and pedestrian master plans that encourage active transportation are being developed. Communities are increasingly using complete streets principles when developing new neighborhoods. Complete streets consider all forms of transportation, not just by vehicle, when planning a community.

EPICC collaborates with the Public Employees Health Program (PEHP), the primary health plan offered to state employees, to encourage PEHP employer members to provide opportunities for their employees to be physically active. For example, the state health department offers its employees release time up to 90 minutes per week to engage in physical activity.

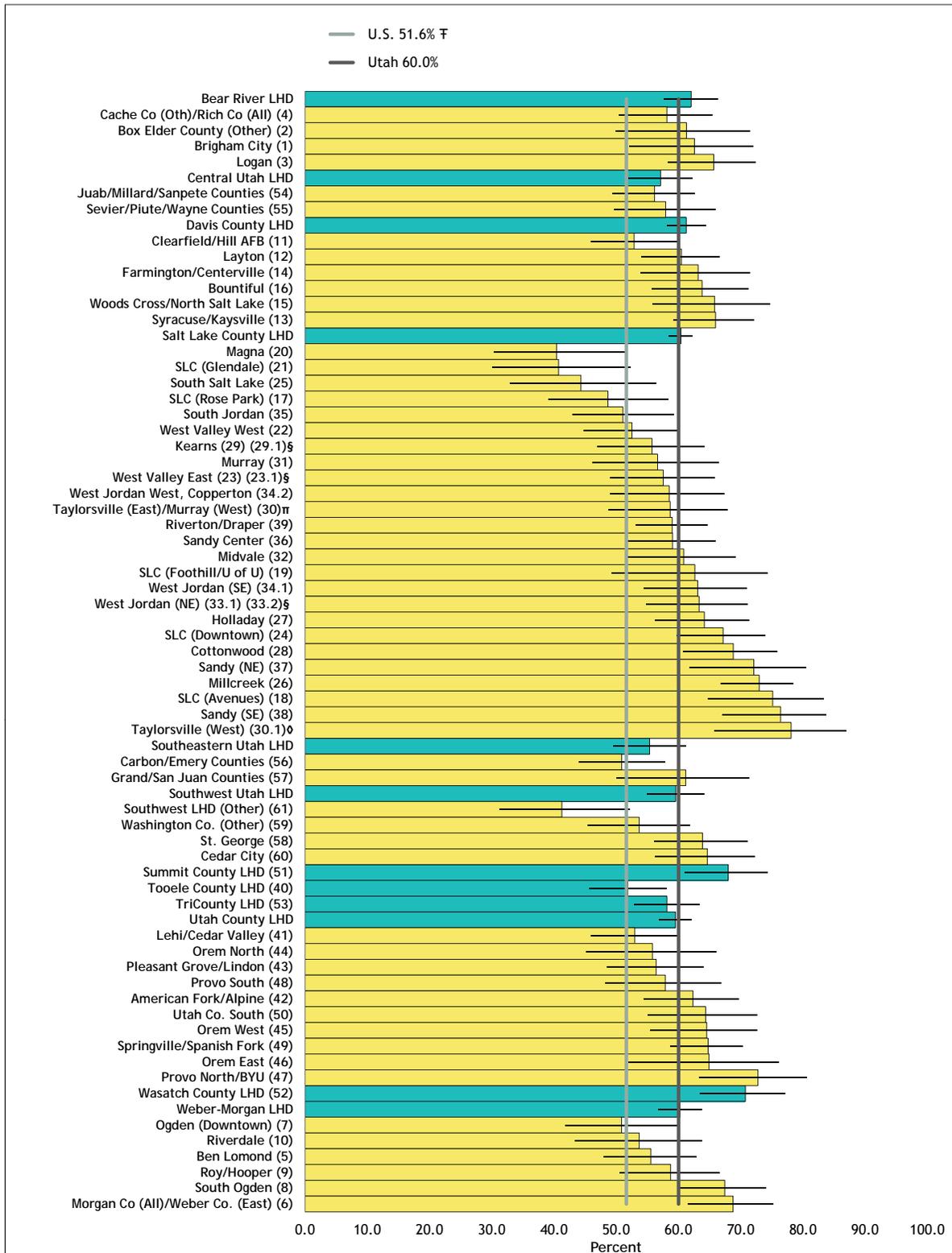
EPICC also collaborates with the Utah Council for Worksite Health Promotion to formally recognize Utah worksites with successful wellness programs that include strategies for being active in the workplace.

EPICC assists the Healthy Lifestyles Workgroup of the Utah Medical Association in efforts to encourage dialogue about physical activity between providers and patients. This work involves modifying primary health care systems so that providers can effectively assess patients' levels of physical activity and provide appropriate counseling.

Additional information can be found at <http://choosehealth.utah.gov>.

# Physically Active Adults

Figure 8: Percentage of Physically Active Adults by Small Area, Health District, Utah, and U.S., 2011-2012 (Age-adjusted)



† 2011 data were used to calculate U.S. rates. § In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). π In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). ◇ Data are from 2012.

# Physically Active Adults

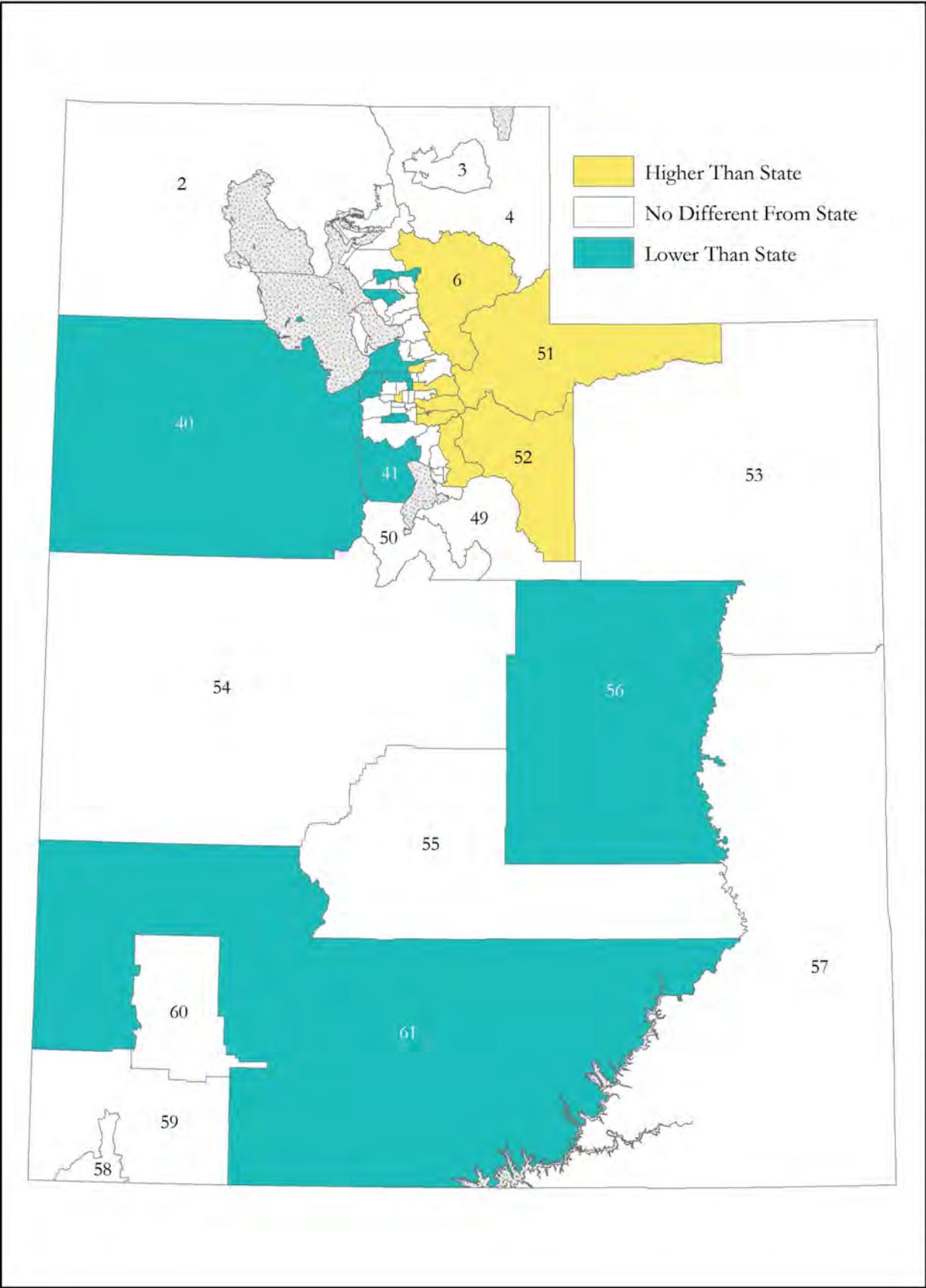
**Table 8: Percentage of Physically Active Adults by Small Area, Health District, Utah, and U.S., 2011-2012**

State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2011-2012 Population 18+	2011-2012 Physically Active Adults	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
						Lower	Upper
	U.S. <sup>2</sup>	477,862,819	246,577,215	51.6	51.6	51.3	51.9
	State of Utah	3,901,372	2,342,384	60.0	60.0	58.9	61.1
	Bear River LHD	228,606	142,467	62.3	62.3	57.9	66.5
36	Brigham City (1)	31,874	19,515	61.2	62.5	52.1	71.9
34	Box Elder County (Other) (2)	34,735	21,197	61.0	61.3	50.0	71.5
24	Cache Co (Oth)/Rich Co (All) (4)	54,829	32,604	59.5	58.1	50.4	65.4
49	Logan (3)	106,256	69,923	65.8	65.7	58.3	72.3
	Central Utah LHD	104,398	58,825	56.3	57.1	51.8	62.2
18	Juab/Millard/Sanpete Counties (54)	69,379	38,762	55.9	56.1	49.5	62.6
22	Sevier/Piute/Wayne Counties (55)	34,994	19,951	57.0	57.9	49.6	65.8
	Davis County LHD	414,908	255,251	61.5	61.2	58.1	64.3
41	Bountiful (16)	65,257	41,821	64.1	63.8	55.7	71.2
11	Clearfield/Hill AFB (11)	89,853	46,779	52.1	52.9	45.9	59.7
38	Farmington/Centerville (14)	46,659	29,613	63.5	63.1	54.0	71.5
31	Layton (12)	100,559	61,312	61.0	60.4	54.0	66.5
51	Syracuse/Kaysville (13)	71,854	47,604	66.3	65.9	59.1	72.1
50	Woods Cross/North Salt Lake (15)	40,812	26,620	65.2	65.8	55.7	74.6
	Salt Lake County LHD	1,501,652	908,499	60.5	60.5	58.6	62.3
55	Cottonwood (28)	69,252	48,405	69.9	68.8	60.7	75.9
43	Holladay (27)	71,641	46,604	65.1	64.2	56.3	71.4
16	Kearns (29) (29.1) <sup>5</sup>	70,542	40,279	57.1	55.7	47.0	64.1
1	Magna (20)	35,617	15,082	42.3	40.4	30.3	51.3
32	Midvale (32)	44,005	24,291	55.2	60.8	51.8	69.2
60	Millcreek (26)	86,875	61,450	70.7	73.0	66.8	78.4
20	Murray (31)	50,430	28,242	56.0	56.6	46.2	66.5
29	Riverton/Draper (39)	147,466	87,025	59.0	59.0	53.1	64.6
61	SLC (Avenues) (18)	37,200	27,529	74.0	75.1	64.6	83.3
52	SLC (Downtown) (24)	85,903	58,756	68.4	67.2	59.7	73.9
37	SLC (Foothill/U of U) (19)	36,278	24,255	66.9	62.6	49.3	74.3
2	SLC (Glendale) (21)	43,413	17,689	40.7	40.7	30.1	52.3
5	SLC (Rose Park) (17)	46,754	22,676	48.5	48.7	39.1	58.3
30	Sandy Center (36)	77,110	46,701	60.6	59.0	51.7	65.9
58	Sandy (NE) (37)	31,787	22,468	70.7	72.1	61.8	80.5
62	Sandy (SE) (38)	42,711	33,442	78.3	76.4	67.0	83.7
8	South Jordan (35)	71,060	37,566	52.9	51.0	42.9	59.1
4	South Salt Lake (25)	40,237	18,030	44.8	44.3	32.9	56.4
27	Taylorsville (East)/Murray (West) (30) <sup>m</sup>	54,519	31,880	58.5	58.6	48.8	67.9
63	Taylorsville (West) (30.1) <sup>o</sup>	27,721	19,509	70.4	78.1	65.7	86.9
40	West Jordan (NE) (33.1) (33.2) <sup>5</sup>	46,765	29,484	63.0	63.3	54.8	71.1
39	West Jordan (SE) (34.1)	48,668	29,282	60.2	63.1	54.4	70.9
26	West Jordan West, Copperton (34.2)	52,695	31,378	59.5	58.5	49.0	67.4
21	West Valley East (23) (23.1) <sup>5</sup>	76,438	44,384	58.1	57.5	48.9	65.7
10	West Valley West (22)	106,577	56,341	52.9	52.5	44.8	60.1
	Southeastern Utah LHD	80,520	45,083	56.0	55.4	49.6	61.1
7	Carbon/Emery Counties (56)	46,384	23,468	50.6	50.9	44.0	57.8
33	Grand/San Juan Counties (57)	34,040	21,358	62.7	61.2	50.0	71.3
	Southwest Utah LHD	293,942	172,309	58.6	59.0	54.3	63.6
46	Cedar City (60)	58,169	37,182	63.9	64.6	56.2	72.2
3	Southwest LHD (Other) (61)	34,574	16,637	48.1	41.3	31.2	52.1
42	St. George (58)	111,179	69,344	62.4	63.8	56.0	71.0
13	Washington Co. (Other) (59)	89,831	49,085	54.6	53.7	45.3	61.8
54	Summit County LHD (51)	55,021	38,245	69.5	67.9	60.9	74.2
9	Tooele County LHD (40)	76,782	39,032	50.8	51.9	45.6	58.1
25	TriCounty LHD (53)	72,101	42,604	59.1	58.2	52.8	63.3
	Utah County LHD	696,993	413,200	59.3	59.5	56.9	62.1
35	American Fork/Alpine (42)	65,466	39,530	60.4	62.3	54.4	69.6
12	Lehi/Cedar Valley (41)	104,311	55,351	53.1	52.9	45.9	59.9
48	Orem East (46)	29,666	19,453	65.6	64.9	51.9	76.0
17	Orem North (44)	50,541	28,586	56.6	55.8	45.1	66.0
45	Orem West (45)	46,117	26,114	56.6	64.5	55.5	72.6
19	Pleasant Grove/Lindon (43)	67,225	37,494	55.8	56.4	48.5	64.0
59	Provo North/BYU (47)	83,166	61,440	73.9	72.8	63.3	80.5
23	Provo South (48)	98,619	54,910	55.7	57.9	48.3	66.9
47	Springville/Spanish Fork (49)	107,269	70,206	65.4	64.7	58.6	70.4
44	Utah Co. South (50)	43,958	28,753	65.4	64.3	55.1	72.6
57	Wasatch County LHD (52)	33,089	23,714	71.7	70.8	63.4	77.2
	Weber-Morgan LHD	343,360	207,427	60.4	60.3	56.7	63.7
15	Ben Lomond (5)	79,921	45,033	56.3	55.5	47.9	62.9
56	Morgan Co (All)/Weber Co. (East) (6)	59,487	41,356	69.5	68.8	61.5	75.2
6	Ogden (Downtown) (7)	51,758	25,954	50.1	50.8	41.8	59.8
14	Riverdale (10)	37,012	20,240	54.7	53.7	43.4	63.7
28	Roy/Hooper (9)	60,831	35,686	58.7	58.7	50.5	66.5
53	South Ogden (8)	53,886	36,913	68.5	67.4	60.0	74.0

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>2</sup>2011 data were used to calculate U.S. rates. <sup>3</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>4</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>5</sup>Data are from 2012.

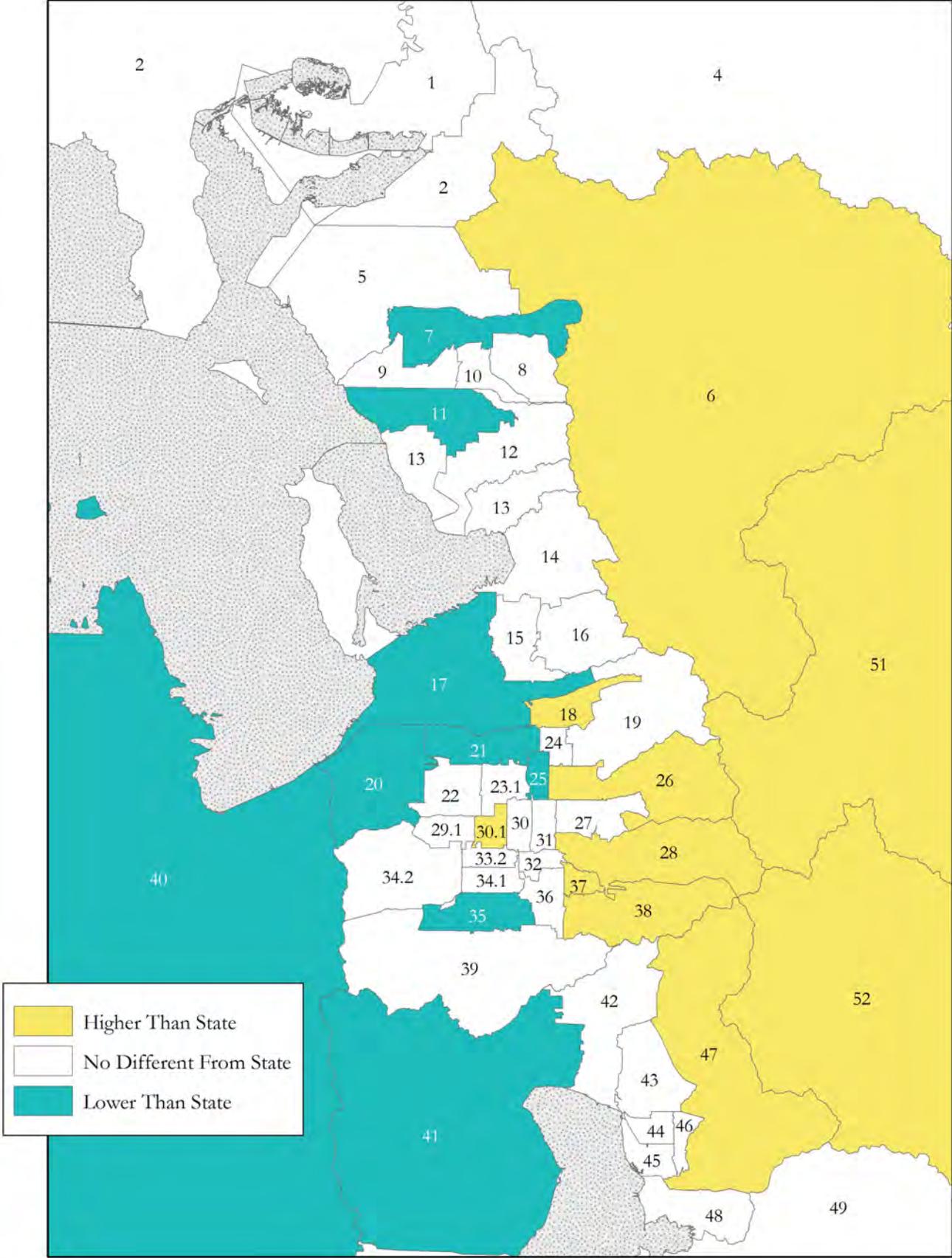
# Physically Active Adults

Figure 8.1: Percentage of Physically Active Adults by Small Area, Utah, 2011-2012 (Age-adjusted)



# Physically Active Adults

Figure 8.2: Percentage of Physically Active Adults by Small Area, Wasatch Front, Utah, 2011-2012 (Age-adjusted)



# 9. Fall Hospitalizations Ages 65+

## *Indicator Definition*

The number of incidents (hospitalizations) due to unintentional falls per 10,000 population.

## *Healthy People 2020 Objective*

IVP-23.2: Prevent an increase in the rate of fall-related deaths: Adults aged 65 years and older.

- U.S. Target: 45.3 deaths per 100,000 population

## *Overview*

Falls are the leading cause of injury death and disability in Utah for persons aged 65 and older. Females aged 65 and older had a significantly higher rate of hospitalizations due to unintentional falls than males of the same age. Nearly one in four elderly Utahns will die of complications from a hip fracture within one year of the injury. Among people ages 75 and older, those who fall are 4-5 times more likely to be admitted to a long-term care facility for one year or longer<sup>16</sup>.

Risk factors for falls include older age, poor eyesight, lack of regular exercise, poor nutrition, substance abuse, smoking, and the misuse of medications. Certain health conditions can increase the risk of falls, including osteoporosis, arthritis, clinical depression, dementia, incontinence, and neurological or musculoskeletal disorders like Parkinson's and Alzheimer's disease. Environmental hazards in the home such as poor lighting, lack of grab bars and handrails, slippery or wet surfaces, uneven floors and surfaces, clutter, and loose throw rugs can increase risk for falls.

Among Utah Small Areas in 2010 and 2011, South Salt Lake small area had the highest number of incidents (hospitalizations) due to unintentional falls per 10,000 population, with a rate of 189.1, and Brigham City small area had the lowest age-adjusted rate at 52.7.

## *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal areas relate to the Case in Point.

- Strategic Goal Area 1: Environmental Approaches that Promote Health
- Strategic Goal Area 5: Data and Evaluation
  - Develop a process to support the Office of Public Health Assessment (OPHA), including development of data sets, updating of Indicator-Based Information System for Public Health (IBIS-PH) indicators, and collaborating to improve the usability of IBIS-PH. (Objective 1.1)

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	2.3, 2.4, 2.5, 2.9, 4.1, 4.2, 4.3, 4.4, 4.13
Goal Area 2: Health Care Systems	1.1, 1.3, 1.5, 1.11
Goal Area 3: Community Clinical Linkages	1.1, 1.2, 1.9, 1.10
Goal Area 4: Health Communications	1.1, 1.2, 1.4, 1.5, 1.6, 1.8
Goal Area 5: Data and Evaluation	1.1, 1.6, 1.7

## *Case in Point: Monitoring and Preventing Injury Due to Falls Among Utah Adults Aged 65 and Older*

(Aligns with Strategic Goal Area 1: Environmental Approaches that Promote Health and Goal Area 5: Data and Evaluation)

In 2011, Utah joined 43 other states and Congress in recognizing September 23 as Falls Prevention Awareness Day. To address the growing issues of falls-related injuries, the Utah Department of Health formed the Utah Falls Prevention Coalition. Most falls are preventable when older adults learn what hazards to remove in their homes. The Violence and Injury Prevention Program (VIPP) at the Utah Department of Health has facilitated the implementation of a 7-week falls prevention program known as Stepping On, in three counties in the state (Utah, Wasatch, and Davis). The program focuses on empowering older adults to carry out health behaviors that reduce the risk of falling, such as removing tripping hazards in the home, and doing simple exercises to increase strength and balance. It has been shown to effectively reduce the incidence of falls among participants.

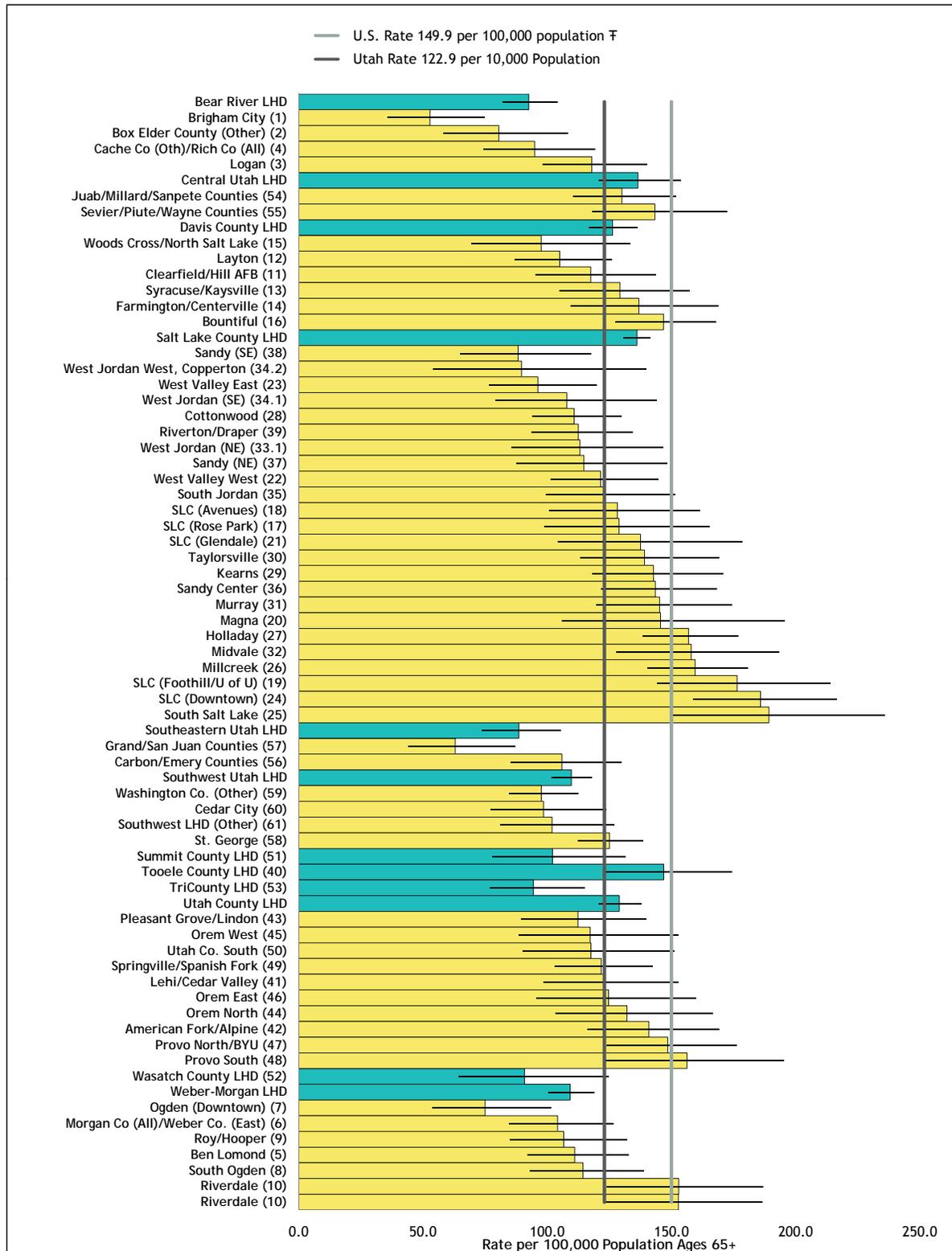
For more information regarding Stepping On, please contact the following agencies:

Utah County Health Department, Wasatch County Health Department, Davis County Health Department, Salt Lake County Aging Services, Salt Lake County Health Department, or Tooele County Health Department.

In addition, the VIPP monitors fall-related injuries throughout the state by collecting detailed information from hospital records regarding falls circumstances and severity. A falls module has been created as part of a data quality project with the Surveillance Quality Improvement (SQI) database, which monitors injury hospitalizations. Once a dataset of falls has been gathered, data abstractors use the module to analyze fall hospitalizations. The abstractions yield additional circumstantial data that increase the understanding of how falls occur, who experiences falls, and other contributing factors that may cause falls. The abstraction process also identifies codes that need to be revised for accuracy and also includes codes to describe the incident when they are absent.

# Fall Hospitalizations Ages 65+

Figure 9: Fall Hospitalizations per 10,000 Population Ages 65+ by Small Area, Health District, Utah, and U.S., 2010-2011



† 2009-2010 data were used to calculate U.S. rates.

# Fall Hospitalizations Ages 65+

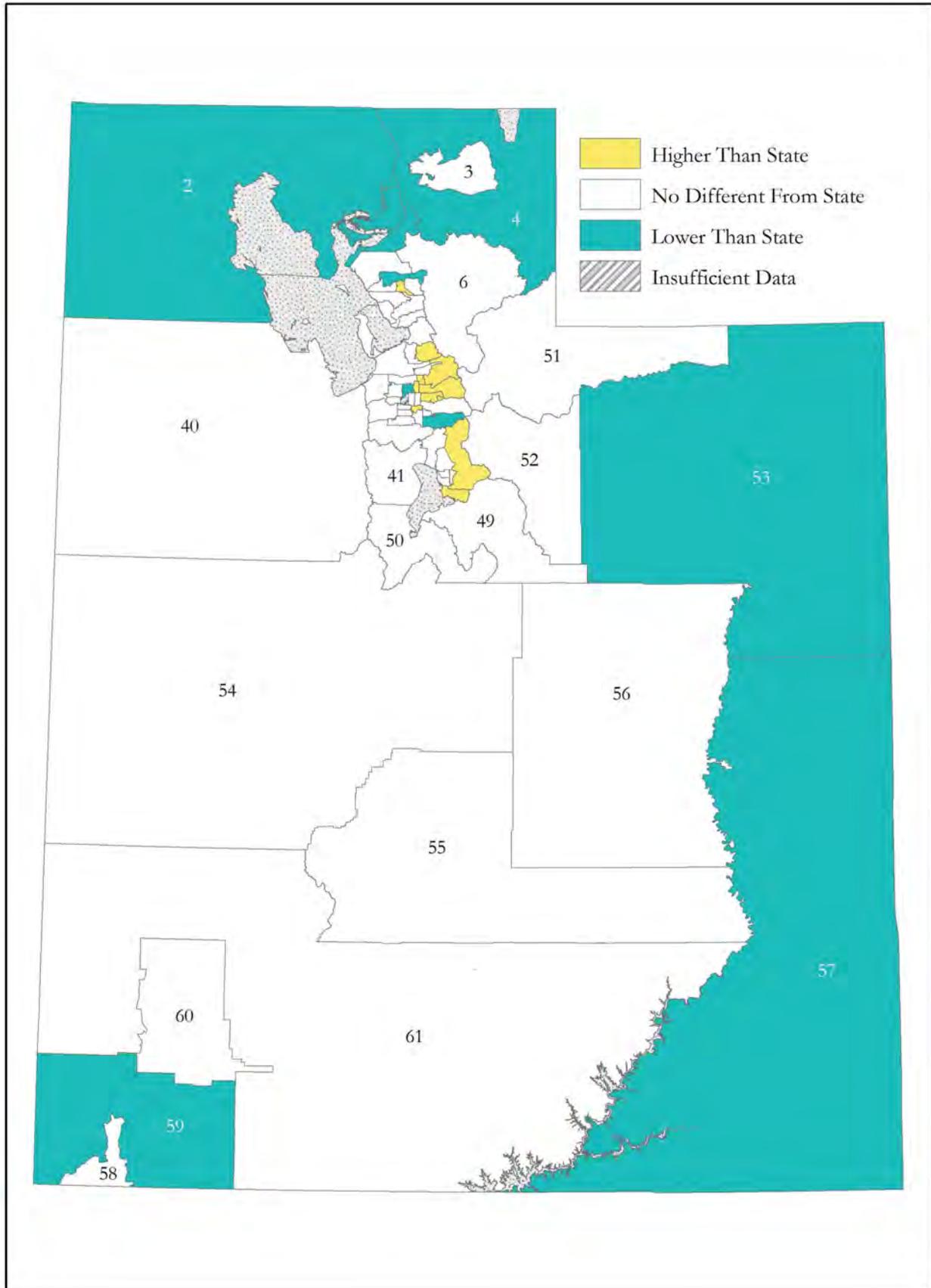
**Table 10: Percentage of Infants Receiving First Trimester Prenatal Care by Small Area, Health District, Utah, and U.S., 2011-2012**

State Rank <sup>1,*</sup>	Small Area, Health District, Utah, or U.S.	2011-2012 Live Births	2011-2012 First Trimester Prenatal Care	Crude Rate	95% Confidence Interval Lower	95% Confidence Interval Upper
	U.S. <sup>†</sup>	--	--	--	--	--
	State of Utah	102,583	77,057	75.1	74.9	75.4
	Bear River LHD	6,667	5,375	80.6	79.7	81.6
61	Brigham City (1)	785	658	83.8	81.0	86.3
42	Box Elder County (Other) (2)	951	753	79.2	76.4	81.7
49	Cache Co (Oth)/Rich Co (All) (4)	1,599	1,286	80.4	78.4	82.3
48	Logan (3)	3,342	2,682	80.3	78.9	81.6
	Central Utah LHD	2,218	1,587	71.6	69.6	73.4
14	Juab/Millard/Sanpete Counties (54)	1,556	1,071	68.8	66.5	71.1
40	Sevier/Piute/Wayne Counties (55)	667	521	78.1	74.8	81.2
	Davis County LHD	11,560	9,205	79.6	78.9	80.4
50	Bountiful (16)	1,541	1,240	80.5	78.4	82.4
37	Clearfield/Hill AFB (11)	2,816	2,192	77.8	76.3	79.4
58	Farmington/Centerville (14)	1,215	1,004	82.6	80.4	84.7
35	Layton (12)	2,703	2,094	77.5	75.8	79.0
51	Syracuse/Kaysville (13)	1,898	1,529	80.6	78.7	82.3
59	Woods Cross/North Salt Lake (15)	1,385	1,145	82.7	80.6	84.6
	Salt Lake County LHD	35,738	26,899	75.3	74.8	75.7
43	Cottonwood (28)	1,034	820	79.3	76.7	81.7
38	Holladay (27)	1,234	963	78.0	75.6	80.3
18	Kearns (29) (29.1) <sup>§</sup>	1,956	1,385	70.8	68.7	72.8
31	Magna (20)	991	752	75.9	73.1	78.5
23	Midvale (32)	1,293	934	72.2	69.7	74.7
46	Millcreek (26)	1,834	1,469	80.1	78.2	81.9
33	Murray (31)	1,167	887	76.0	73.4	78.4
60	Riverton/Draper (39)	4,165	3,469	83.3	82.1	84.4
44	SLC (Avenues) (18)	526	419	79.7	75.9	83.0
30	SLC (Downtown) (24)	1,254	947	75.5	73.0	77.9
57	SLC (Foothill/U of U) (19)	777	641	82.5	79.6	85.1
2	SLC (Glendale) (21)	1,240	781	63.0	60.3	65.7
6	SLC (Rose Park) (17)	1,313	852	64.9	62.3	67.5
39	Sandy Center (36)	1,830	1,428	78.0	76.1	79.9
54	Sandy (NE) (37)	495	403	81.4	77.7	84.7
47	Sandy (SE) (38)	602	483	80.2	76.8	83.3
62	South Jordan (35)	1,891	1,605	84.9	83.2	86.5
12	South Salt Lake (25)	1,023	694	67.8	65.0	70.7
21	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	1,335	957	71.7	69.2	74.1
45	Taylorsville (West) (30.1) <sup>°</sup>	517	413	79.9	76.1	83.2
32	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	1,197	909	75.9	73.4	78.3
25	West Jordan (SE) (34.1)	1,243	926	74.5	72.0	76.9
52	West Jordan West, Copperton (34.2)	1,599	1,289	80.6	78.6	82.5
4	West Valley East (23) (23.1) <sup>§</sup>	2,042	1,319	64.6	62.5	66.7
13	West Valley West (22)	2,872	1,966	68.5	66.8	70.2
	Southeastern Utah LHD	1,722	1,081	62.8	60.5	65.1
16	Carbon/Emery Counties (56)	981	694	70.7	67.8	73.6
1	Grand/San Juan Counties (57)	737	385	52.2	48.6	55.9
	Southwest Utah LHD	6,601	4,426	67.1	65.9	68.2
27	Cedar City (60)	1,584	1,188	75.0	72.8	77.1
7	Southwest LHD (Other) (61)	655	440	67.2	63.6	70.8
3	St. George (58)	2,321	1,477	63.6	61.7	65.6
5	Washington Co. (Other) (59)	2,032	1,317	64.8	62.7	66.9
17	Summit County LHD (51)	885	626	70.7	67.6	73.7
20	Tooele County LHD (40)	2,009	1,432	71.3	69.2	73.2
28	TriCounty LHD (53)	2,251	1,698	75.4	73.6	77.2
	Utah County LHD	23,912	17,714	74.1	73.5	74.6
53	American Fork/Alpine (42)	1,769	1,429	80.8	78.9	82.6
56	Lehi/Cedar Valley (41)	5,482	4,507	82.2	81.2	83.2
19	Orem East (46)	853	605	70.9	67.7	73.9
15	Orem North (44)	1,871	1,297	69.3	67.2	71.4
10	Orem West (45)	1,499	1,013	67.6	65.2	70.0
34	Pleasant Grove/Lindon (43)	2,170	1,669	76.9	75.1	78.7
8	Provo North/BYU (47)	1,575	1,058	67.2	64.9	69.5
9	Provo South (48)	3,497	2,353	67.3	65.7	68.8
22	Springville/Spanish Fork (49)	3,677	2,644	71.9	70.4	73.4
26	Utah Co. South (50)	1,462	1,095	74.9	72.6	77.1
11	Wasatch County LHD (52)	754	510	67.6	64.3	71.0
	Weber-Morgan LHD	8,266	6,504	78.7	77.8	79.6
36	Ben Lomond (5)	2,159	1,678	77.7	75.9	79.5
63	Morgan Co (All)/Weber Co. (East) (6)	1,149	996	86.7	84.6	88.6
24	Ogden (Downtown) (7)	1,359	995	73.2	70.8	75.5
41	Riverdale (10)	877	694	79.1	76.3	81.8
55	Roy/Hooper (9)	1,489	1,213	81.5	79.4	83.4
29	South Ogden (8)	1,226	924	75.4	72.8	77.7

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>†</sup>For this indicator a higher rate means the small area is doing better than the state rate. <sup>‡</sup>U.S. rate not available. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined. For more information see, Appendix A. <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created. <sup>°</sup>Data are from 2012.

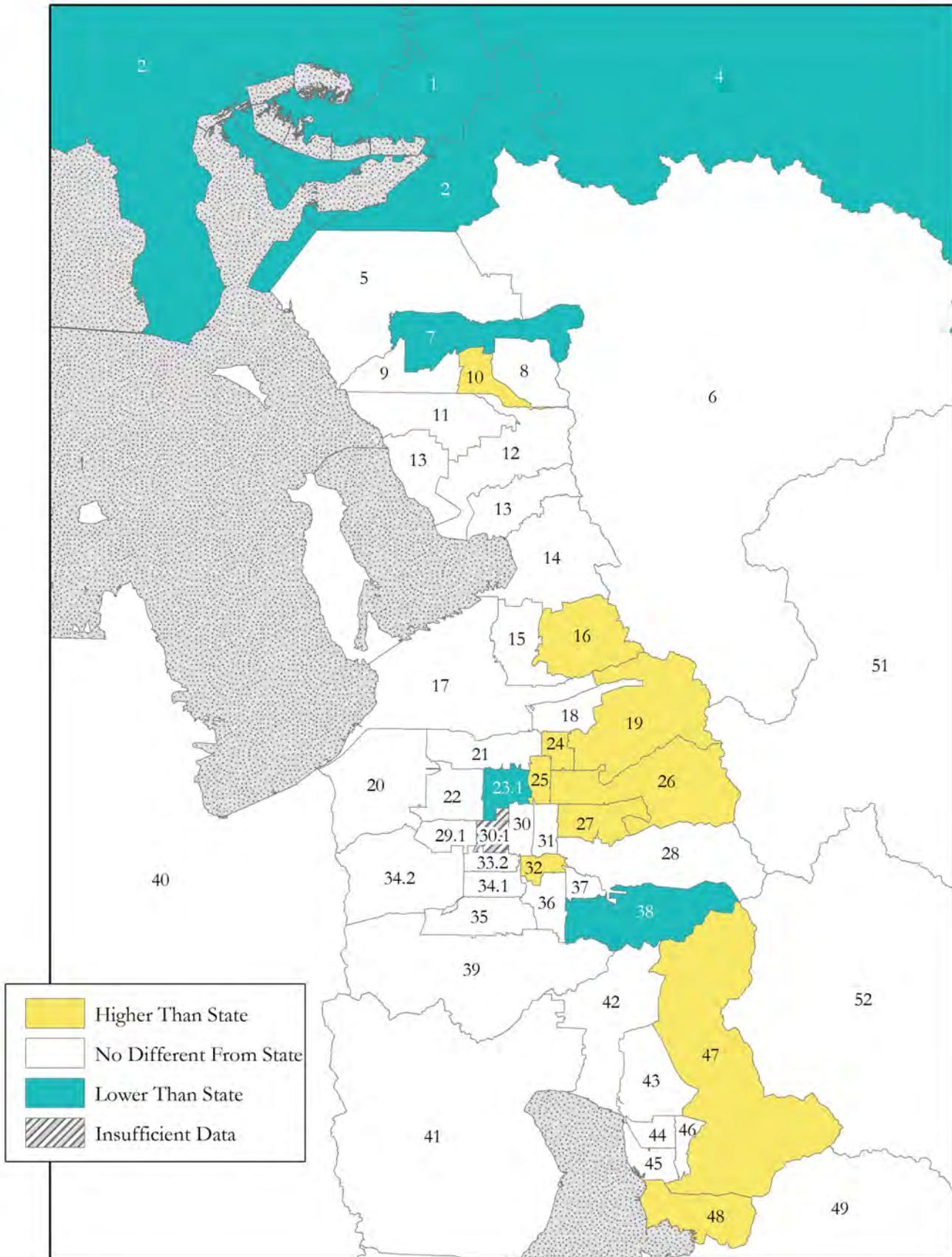
# Fall Hospitalizations Ages 65+

Figure 9.1: Fall Hospitalizations per 10,000 Population Ages 65+ by Small Area, Utah, 2010-2011



# Fall Hospitalizations Ages 65+

Figure 9.2: Fall Hospitalizations per 10,000 Population Ages 65+ by Small Area, Wasatch Front, Utah, 2010-2011



# 10. Infants Receiving First Trimester Prenatal Care

## *Indicator Definition*

The number of infants born to pregnant women receiving prenatal care in the first trimester as a percentage of the total number of live births.

## *Healthy People 2020 Objective*

MICH-10.1: Prenatal care beginning in first trimester.

- U.S. Target: 77.9 percent
- State Target: 77.9 percent

## *Overview*

Women who receive early and consistent prenatal care improve their likelihood of giving birth to a healthy child. Health care providers recommend that women begin prenatal care in the first trimester of their pregnancy. Prenatal care can improve birth outcomes and prevent medical complications and the costs associated with premature births, low birth weight births, and maternal and infant morbidity and mortality. Utah has seen an increase in the percentage of women entering prenatal care in the first trimester of pregnancy from 73.1% in 2010 to 75.5% in 2012<sup>17</sup>.

Among Utah Small Areas in 2011 and 2012, Morgan County (All)/Weber County (East) small area had the highest proportion of pregnant females receiving prenatal care in the first trimester, with a crude rate of 86.7, and Grand/San Juan Counties small area had the lowest rate at 52.2.

## *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 5: Data and Evaluation
  - Create a process to increase the capacity for social marketing and health communications (Objective 1.1)
  - Develop and implement a statewide communications plan that effectively uses social marketing and health communication strategies to effect behavior change (Objective 1.6)

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	1.4, 1.5, 2.3, 5.1
Goal Area 2: Health Care Systems	1.2, 1.4, 1.7
Goal Area 3: Community Clinical Linkages	1.2, 1.4, 2.9
Goal Area 4: Health Communications	1.1, 1.3, 1.4, 1.6
Goal Area 5: Data and Evaluation	1.1, 1.2

# Infants Receiving First Trimester Prenatal Care

## *Case in Point: Improving Proportion of Pregnant Females who Receive Prenatal Care in First Trimester*

(Aligns with Goal Area 4: Health Communications)

In an effort to promote early and continuous prenatal care, multiple programs within the Utah Department of Health (UDOH) work collaboratively to improve this measure. The UDOH administers the “Baby Your Baby” program. This program has two components: the first provides temporary Medicaid coverage for women with qualifying incomes; encouraging them to start care in a timely manner; the second component is general public education about the importance of early and ongoing care. Baby Your Baby (BYB) educational spots run regularly on KUTV-2 and on various radio stations throughout the state.

To improve the reporting of entry into prenatal care on birth certificates, the Utah Office of Vital Records and Statistics trains hospital personnel involved in completion of birth certificates on accurate data collection and reporting.

The Maternal and Infant Health Program (MIHP) promotes “Text4Baby,” a campaign sponsored by the National Healthy Mothers, Healthy Babies Coalition. BYB began placing “Text4Baby” information in all Keepsake booklets and MIHP placed a link to the program on its web page. The MIHP is also educating local health departments, community health centers, hospitals and other appropriate agencies about BYB and the national “Text4Baby” campaign.

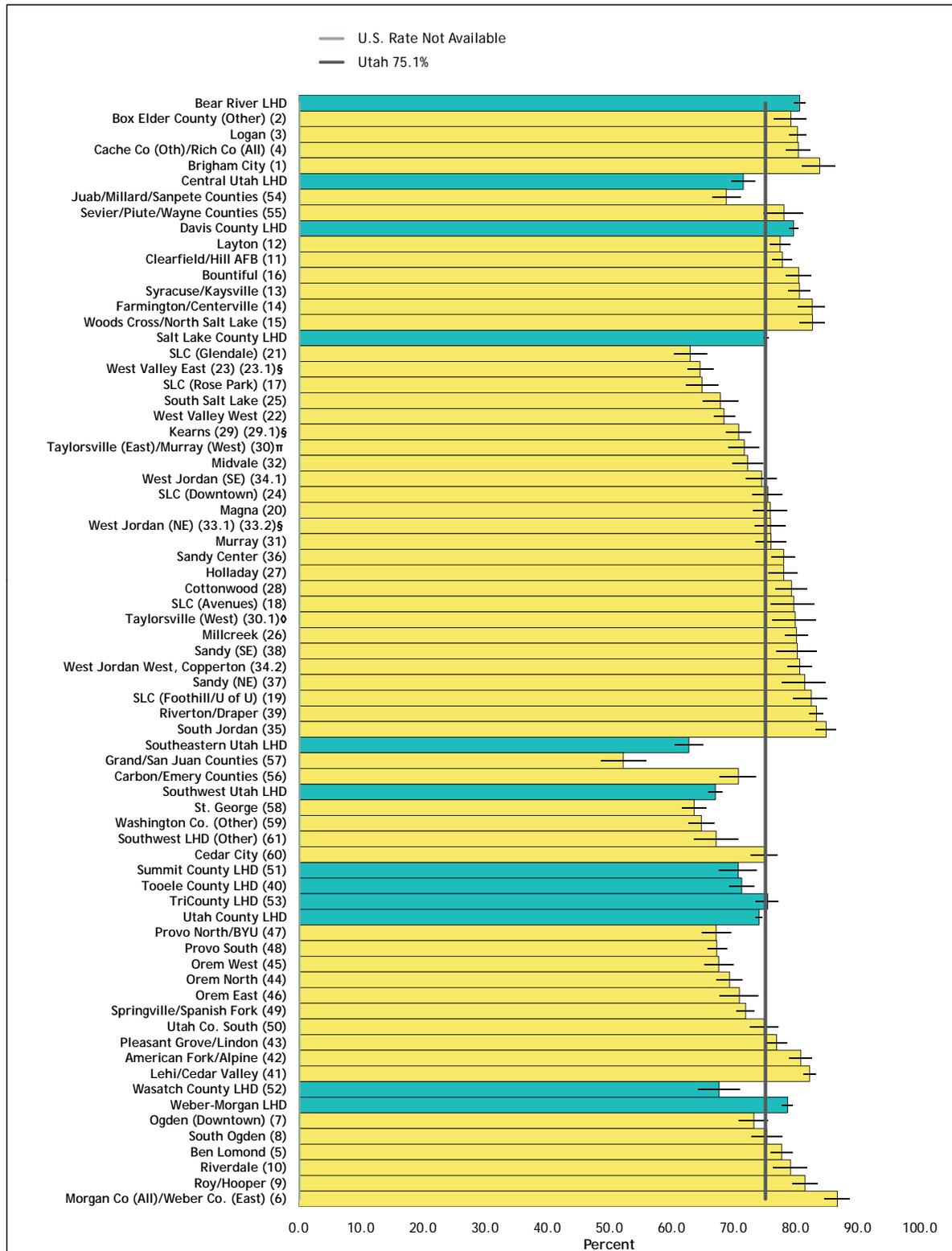
Mother to Baby Utah (also known as the Pregnancy Risk Line) is dedicated to providing evidence-based information to mothers, health care professionals, and the general public about medications and other exposures during pregnancy and while breastfeeding. Nurses who answer calls also query women about barriers to early care and provide education on the importance of prenatal care and how to access community resources.

The Office of Health Disparities Reduction promotes early prenatal care, folic acid, and healthy diets for pregnant women through a series of culturally/linguistically appropriate brochures and videos. The materials are available in English, Spanish, Tongan and Samoan languages, and there are videos in English for Pacific Islander, African American, Hispanic, and White women.

The MIHP continues to track reasons given for late prenatal care entry and disparities in early entry to prenatal care using Utah data from the Pregnancy Risk Assessment Monitoring System (PRAMS) . Using results, messages are being developed to increase awareness of the importance of early and continuous prenatal care and a “PRAMS Perspectives” report will be created for women and providers. Education will continue to be a focus with the aim of reducing population disparities among women entering early prenatal care.

# Infants Receiving First Trimester Prenatal Care

Figure 10: Percentage of Infants Receiving First Trimester Prenatal Care by Small Area, Health District, Utah, and U.S., 2011-2012



¶For this indicator a higher rate means the small area is doing better than the state rate. ¶ U.S. rate not available. §In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). ¶Data are from 2012.

# Infants Receiving First Trimester Prenatal Care

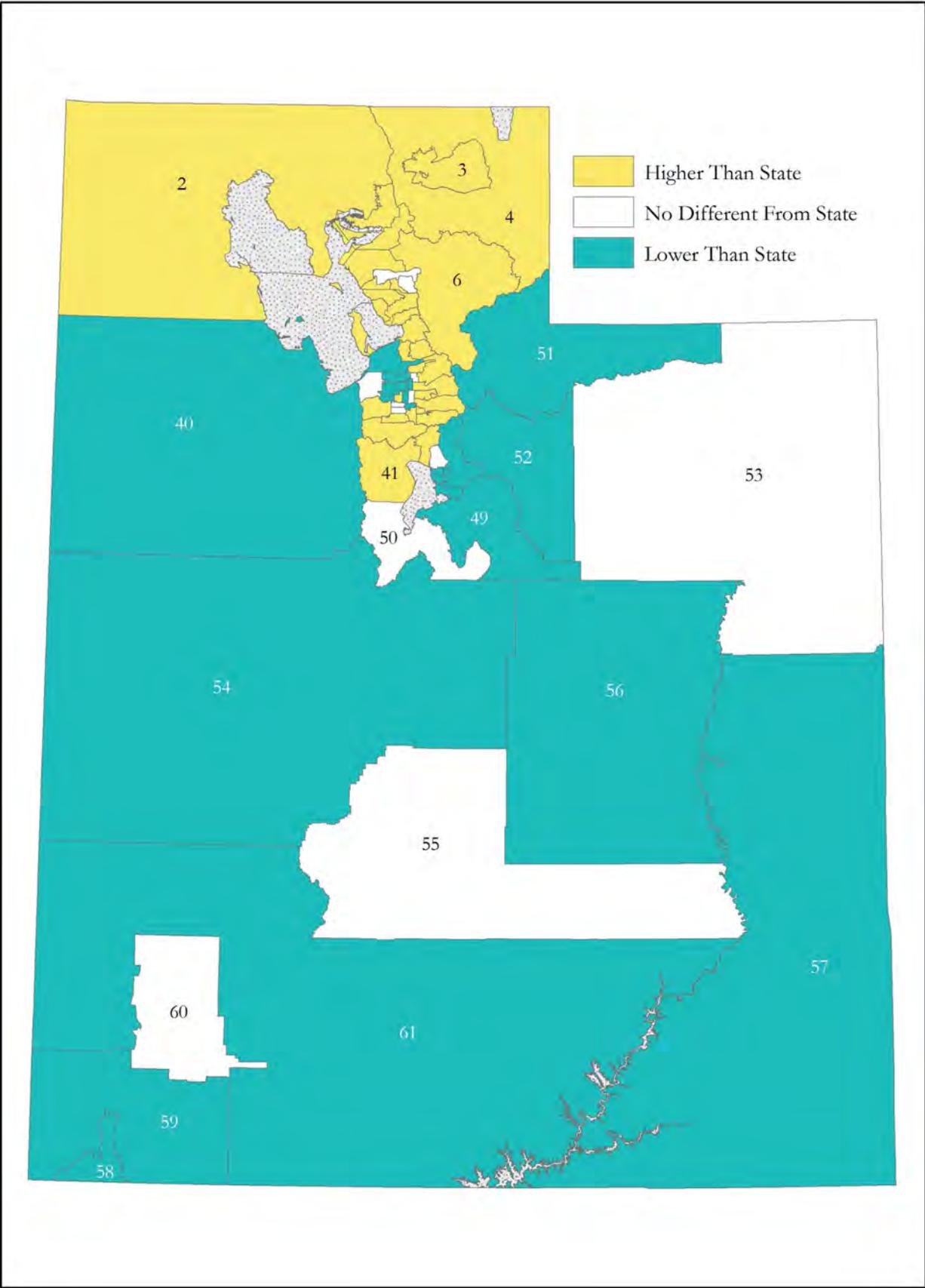
**Table 10: Percentage of Infants Receiving First Trimester Prenatal Care by Small Area, Health District, Utah, and U.S., 2011-2012**

State Rank <sup>1,*</sup>	Small Area, Health District, Utah, or U.S.	2011-2012 Live Births	2011-2012 First Trimester Prenatal Care	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>†</sup>	--	--	--	--	--
	State of Utah	102,583	77,057	75.1	74.9	75.4
	Bear River LHD	6,667	5,375	80.6	79.7	81.6
61	Brigham City (1)	785	658	83.8	81.0	86.3
42	Box Elder County (Other) (2)	951	753	79.2	76.4	81.7
49	Cache Co (Oth)/Rich Co (All) (4)	1,599	1,286	80.4	78.4	82.3
48	Logan (3)	3,342	2,682	80.3	78.9	81.6
	Central Utah LHD	2,218	1,587	71.6	69.6	73.4
14	Juab/Millard/Sanpete Counties (54)	1,556	1,071	68.8	66.5	71.1
40	Sevier/Piute/Wayne Counties (55)	667	521	78.1	74.8	81.2
	Davis County LHD	11,560	9,205	79.6	78.9	80.4
50	Bountiful (16)	1,541	1,240	80.5	78.4	82.4
37	Clearfield/Hill AFB (11)	2,816	2,192	77.8	76.3	79.4
58	Farmington/Centerville (14)	1,215	1,004	82.6	80.4	84.7
35	Layton (12)	2,703	2,094	77.5	75.8	79.0
51	Syracuse/Kaysville (13)	1,898	1,529	80.6	78.7	82.3
59	Woods Cross/North Salt Lake (15)	1,385	1,145	82.7	80.6	84.6
	Salt Lake County LHD	35,738	26,899	75.3	74.8	75.7
43	Cottonwood (28)	1,034	820	79.3	76.7	81.7
38	Holladay (27)	1,234	963	78.0	75.6	80.3
18	Kearns (29) (29.1) <sup>§</sup>	1,956	1,385	70.8	68.7	72.8
31	Magna (20)	991	752	75.9	73.1	78.5
23	Midvale (32)	1,293	934	72.2	69.7	74.7
46	Millcreek (26)	1,834	1,469	80.1	78.2	81.9
33	Murray (31)	1,167	887	76.0	73.4	78.4
60	Riverton/Draper (39)	4,165	3,469	83.3	82.1	84.4
44	SLC (Avenues) (18)	526	419	79.7	75.9	83.0
30	SLC (Downtown) (24)	1,254	947	75.5	73.0	77.9
57	SLC (Foothill/U of U) (19)	777	641	82.5	79.6	85.1
2	SLC (Glendale) (21)	1,240	781	63.0	60.3	65.7
6	SLC (Rose Park) (17)	1,313	852	64.9	62.3	67.5
39	Sandy Center (36)	1,830	1,428	78.0	76.1	79.9
54	Sandy (NE) (37)	495	403	81.4	77.7	84.7
47	Sandy (SE) (38)	602	483	80.2	76.8	83.3
62	South Jordan (35)	1,891	1,605	84.9	83.2	86.5
12	South Salt Lake (25)	1,023	694	67.8	65.0	70.7
21	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	1,335	957	71.7	69.2	74.1
45	Taylorsville (West) (30.1) <sup>°</sup>	517	413	79.9	76.1	83.2
32	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	1,197	909	75.9	73.4	78.3
25	West Jordan (SE) (34.1)	1,243	926	74.5	72.0	76.9
52	West Jordan West, Copperton (34.2)	1,599	1,289	80.6	78.6	82.5
4	West Valley East (23) (23.1) <sup>§</sup>	2,042	1,319	64.6	62.5	66.7
13	West Valley West (22)	2,872	1,966	68.5	66.8	70.2
	Southeastern Utah LHD	1,722	1,081	62.8	60.5	65.1
16	Carbon/Emery Counties (56)	981	694	70.7	67.8	73.6
1	Grand/San Juan Counties (57)	737	385	52.2	48.6	55.9
	Southwest Utah LHD	6,601	4,426	67.1	65.9	68.2
27	Cedar City (60)	1,584	1,188	75.0	72.8	77.1
7	Southwest LHD (Other) (61)	655	440	67.2	63.6	70.8
3	St. George (58)	2,321	1,477	63.6	61.7	65.6
5	Washington Co. (Other) (59)	2,032	1,317	64.8	62.7	66.9
17	Summit County LHD (51)	885	626	70.7	67.6	73.7
20	Tooele County LHD (40)	2,009	1,432	71.3	69.2	73.2
28	TriCounty LHD (53)	2,251	1,698	75.4	73.6	77.2
	Utah County LHD	23,912	17,714	74.1	73.5	74.6
53	American Fork/Alpine (42)	1,769	1,429	80.8	78.9	82.6
56	Lehi/Cedar Valley (41)	5,482	4,507	82.2	81.2	83.2
19	Orem East (46)	853	605	70.9	67.7	73.9
15	Orem North (44)	1,871	1,297	69.3	67.2	71.4
10	Orem West (45)	1,499	1,013	67.6	65.2	70.0
34	Pleasant Grove/Lindon (43)	2,170	1,669	76.9	75.1	78.7
8	Provo North/BYU (47)	1,575	1,058	67.2	64.9	69.5
9	Provo South (48)	3,497	2,353	67.3	65.7	68.8
22	Springville/Spanish Fork (49)	3,677	2,644	71.9	70.4	73.4
26	Utah Co. South (50)	1,462	1,095	74.9	72.6	77.1
11	Wasatch County LHD (52)	754	510	67.6	64.3	71.0
	Weber-Morgan LHD	8,266	6,504	78.7	77.8	79.6
36	Ben Lomond (5)	2,159	1,678	77.7	75.9	79.5
63	Morgan Co (All)/Weber Co. (East) (6)	1,149	996	86.7	84.6	88.6
24	Ogden (Downtown) (7)	1,359	995	73.2	70.8	75.5
41	Riverdale (10)	877	694	79.1	76.3	81.8
55	Roy/Hooper (9)	1,489	1,213	81.5	79.4	83.4
29	South Ogden (8)	1,226	924	75.4	72.8	77.7

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>†</sup>For this indicator a higher rate means the small area is doing better than the state rate. <sup>‡</sup>U.S. rate not available. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined. For more information see, Appendix A. <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created. <sup>°</sup>Data are from 2012.

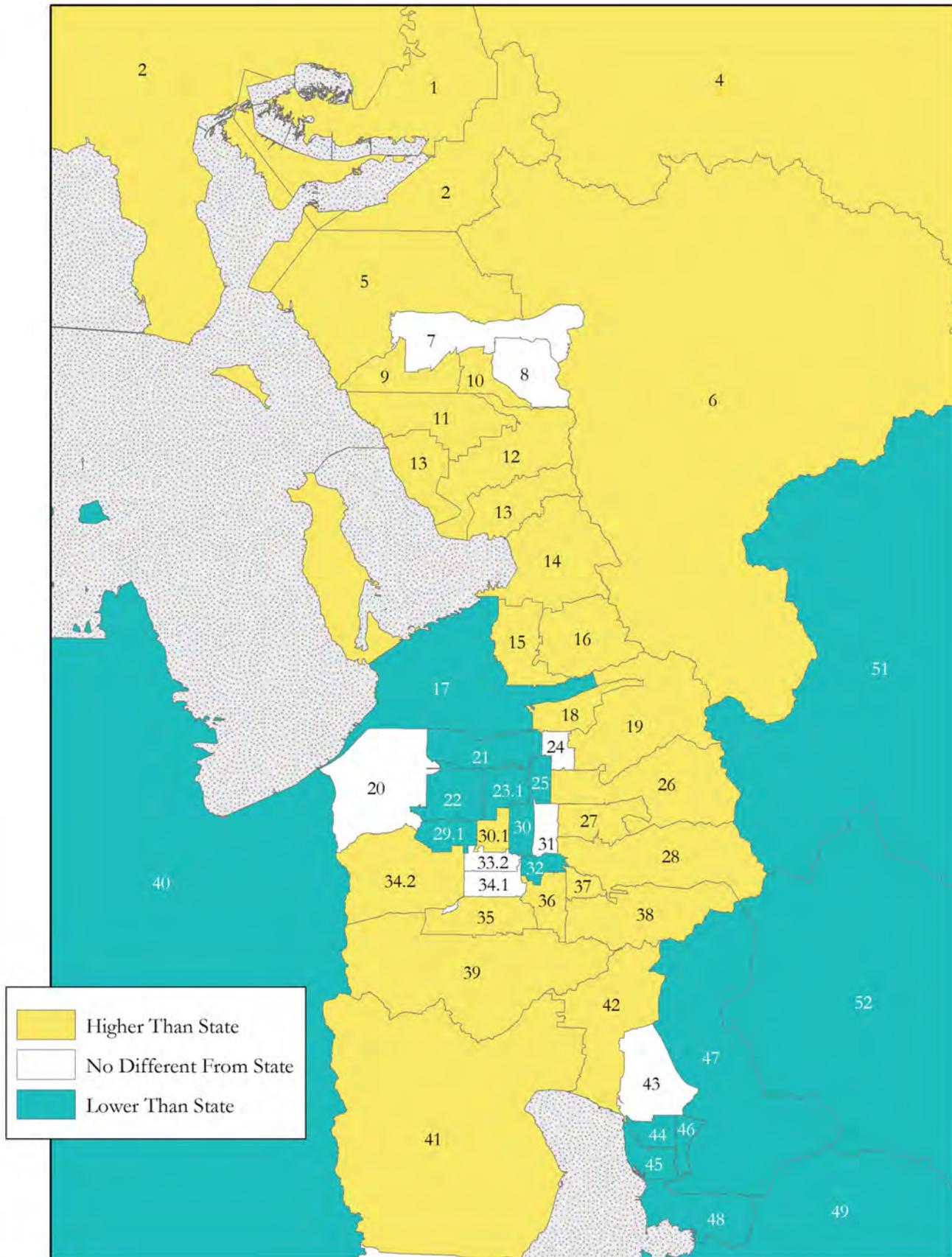
# Infants Receiving First Trimester Prenatal Care

Figure 10.1: Percentage of Infants Receiving First Trimester Prenatal Care by Small Area, Utah, 2011-2012



# Infants Receiving First Trimester Prenatal Care

Figure 10.2: Percentage of Infants Receiving First Trimester Prenatal Care by Small Area, Wasatch Front, Utah, 2011-2012



# 11. Female Breast Cancer Screenings Ages 40+

## *Indicator Definition*

The proportion of women 40 years or older who reported having a mammogram in the last two years.

## *Healthy People 2020 Objective*

C-17: Increase the proportion of women who receive a breast cancer screening based on the most recent guidelines.

- U.S. Target: 81.1 percent
- State Target: 74.14 percent

## *Overview*

Breast cancer is the leading cause of female cancer death in Utah. From 2010 to 2012, Utah's breast cancer screening rate was 66.3 percent. Screening is important, as deaths from breast cancer can be substantially reduced if the disease is discovered at an early stage. Mammography is currently the best method for early detection of breast cancer; routine screening with mammography has been demonstrated to reduce breast cancer deaths by 20-30% in women aged 50 to 69 years and about 17% in women aged 40 to 49 years<sup>18</sup>.

Among Utah Small Areas from 2010-2012, Holladay small area had the highest proportion of adults who reported having been screened in accordance with recent guidelines for breast cancer, with an age-adjusted rate of 79.9, and Salt Lake City (Glendale) small area had the lowest age-adjusted rate at 50.0.

## *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 1: Environmental Approaches that Promote Health
  - Implement a process to educate employers about the Affordable Care Act, including identification of new coverage for prevention of chronic diseases, health promotion, mental health parity, and worksite wellness (Objective 5.1)
  - Increase the number of worksites that encourage employees to use evidence-based clinical preventive services (Objective 5.4)

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	5.1, 5.4
Goal Area 2: Health Care Systems	1.1, 1.6, 1.12
Goal Area 3: Community Clinical Linkages	
Goal Area 4: Health Communications	
Goal Area 5: Data and Evaluation	

## *Case in Point: Improving Mammography Screening through Worksite Focused Initiatives*

(Aligns with Strategic Goal Area 2: Environmental Approaches that Promote Health)

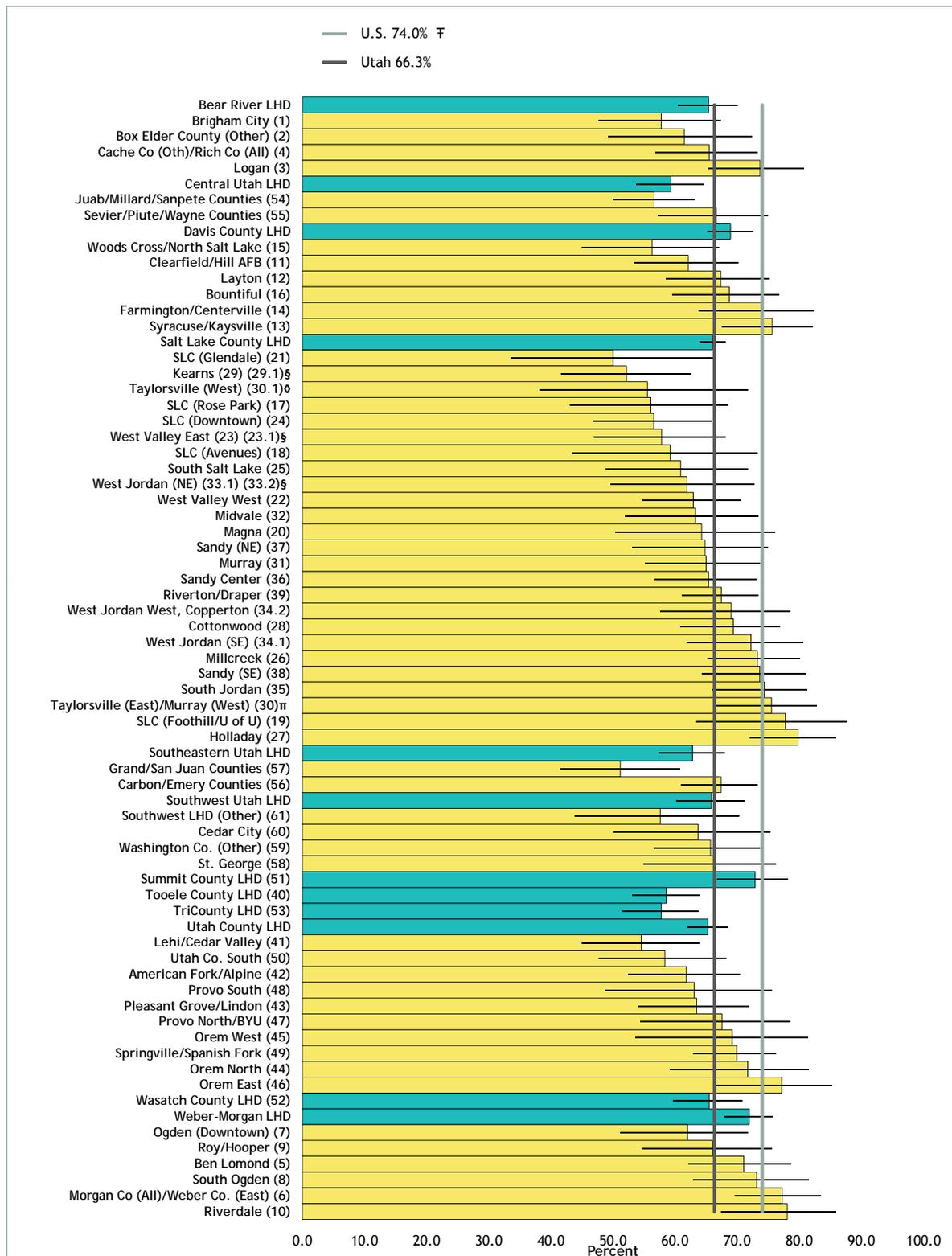
On November 8, 2012, the Utah Cancer Control Program sponsored a Mammography Action Summit in an effort to increase Utah's mammography screening rate, which is one of the lowest in the nation. Participants were urged to lend their expertise and creativity to identify ways to increase mammography screening rates and develop and commit to an action plan to put these ideas into practice.

As a result of the summit, participants formed the Utah Mammography Action Committee (UMAC). UMAC functions as a sub-group under the Utah Cancer Action Network (UCAN), Utah's comprehensive cancer coalition, to further increase collaboration and partnership with other cancer control initiatives. The key message that UMAC supports is "Just go get your mammogram!" with various taglines such as "regardless of family history," and "talk to your doctor." This message will be supported through social, small, and mass media campaigns, grassroots efforts, and community outreach. The coalition's vision is that all women ages 40 and older in the state of Utah will get regular mammogram screenings. The coalition's mission is to be a driving force in the effort to increase mammography screening rates in Utah.

Data show that there are women in Utah who have insurance but who reported not having received a mammogram within the last two years. Because of this finding, UMAC has focused its efforts on women with health insurance. UMAC, in collaboration with Get Screened Utah and the Sandy Chamber, hosted a kickoff event in November 2013, which involved human resource directors and other workplace representatives (about 200+ total guests). The purpose of the event, held in conjunction with the release of "The Hunger Games: Catching Fire," was to get worksites "fired up" about mammography screening. Participants were presented with the opportunity to implement one of two pilot programs at their respective worksites. More than 18 worksites have expressed interest in UMAC's pilot programs, and efforts are currently underway to meet with each worksite to deliver a packet with information about the programs and their accompanying evaluation components. Pilot programs will be implemented in March 2014 and will run for a total of fifteen months. Baseline data will be collected, as well as data following the completion of the pilot programs in Utah to evaluate several key points that will help UMAC in its efforts to increase mammography screening rates in Utah.

# Female Breast Cancer Screenings Ages 40+

Figure 11: Percentage of Female Breast Cancer Screenings Ages 40+ by Small Area, Health District, Utah, and U.S., 2010, 2012 (Age-adjusted)



¶For this indicator a higher rate means the small area is doing better than the state rate. ¶2010 and 2012 data were used to calculate U.S. rates. §In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). ◇Data are from 2012.

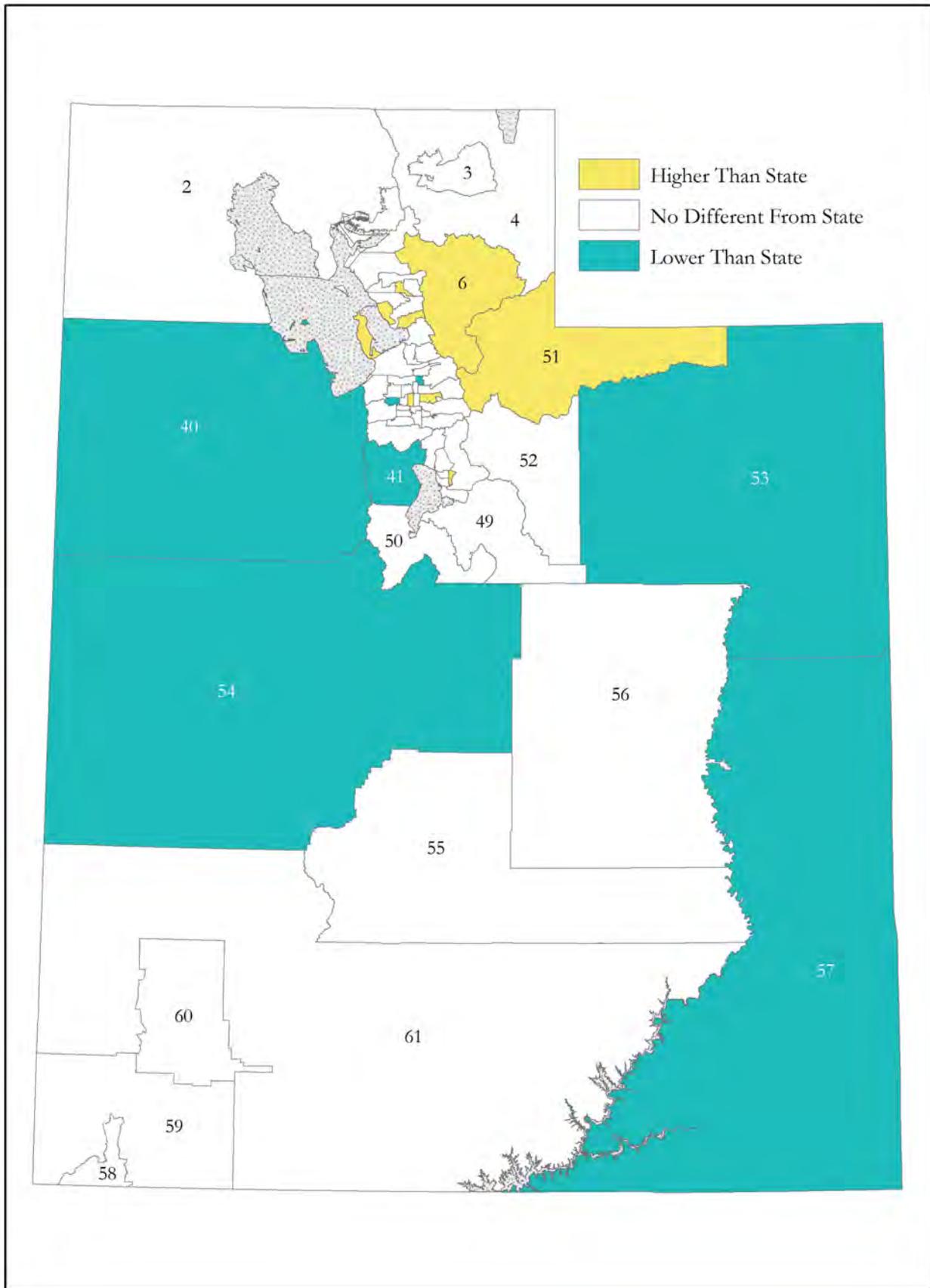
# Female Breast Cancer Screenings Ages 40+

Table 11: Percentage of Female Breast Cancer Screenings Ages 40+ by Small Area, Health District, Utah, and U.S., 2010-2012							
State Rank <sup>1,*</sup>	Small Area, Health District, Utah, or U.S.	2010-2012 Female Population 40+	2010-2012 Female Breast Cancer Screenings 40+	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
						Lower	Upper
	U.S. <sup>†</sup>	229,178,191	171,425,287	74.8	74.0	73.8	74.3
	State of Utah	1,507,033	1,012,226	67.2	66.3	65.0	67.5
	Bear River LHD	81,913	54,278	66.3	65.4	60.4	70.0
11	Brigham City (1)	14,167	7,990	56.4	57.7	47.6	67.3
18	Box Elder County (Other) (2)	14,796	9,674	65.4	61.4	49.3	72.3
31	Cache Co (Oth)/Rich Co (All) (4)	22,669	14,605	64.4	65.4	56.8	73.2
53	Logan (3)	29,679	22,097	74.5	73.6	65.2	80.6
	Central Utah LHD	45,257	27,270	60.3	59.3	53.8	64.6
9	Juab/Millard/Sanpete Counties (54)	28,530	16,150	56.6	56.6	49.9	63.0
37	Sevier/Piute/Wayne Counties (55)	16,601	11,380	68.5	66.6	57.1	74.8
	Davis County LHD	165,569	114,930	69.4	68.9	65.1	72.4
42	Bountiful (16)	31,274	22,497	71.9	68.7	59.5	76.6
22	Clearfield/Hill AFB (11)	29,458	18,490	62.8	62.1	53.3	70.1
55	Farmington/Centerville (14)	20,446	15,363	75.1	74.1	63.8	82.3
38	Layton (12)	39,927	27,915	69.9	67.3	58.5	75.1
58	Syracuse/Kaysville (13)	28,799	21,478	74.6	75.6	67.5	82.2
7	Woods Cross/North Salt Lake (15)	14,528	8,708	59.9	56.3	44.9	67.0
	Salt Lake County LHD	588,864	391,475	66.5	66.0	63.8	68.0
45	Cottonwood (28)	33,382	23,962	71.8	69.3	60.7	76.8
63	Holladay (27)	36,162	28,892	79.9	79.8	72.0	85.8
3	Kearns (29) (29.1) <sup>§</sup>	28,597	14,818	51.8	52.2	41.6	62.5
28	Magna (20)	12,231	7,575	61.9	64.2	50.4	76.1
25	Midvale (32)	16,699	10,427	62.4	63.2	51.8	73.3
52	Millcreek (26)	38,690	28,360	73.3	73.2	65.1	80.0
30	Murray (31)	20,526	13,416	65.4	64.9	55.1	73.6
39	Riverton/Draper (39)	50,394	33,622	66.7	67.4	61.0	73.3
16	SLC (Avenues) (18)	14,366	8,841	61.5	59.2	43.5	73.2
8	SLC (Downtown) (24)	26,823	14,735	54.9	56.5	46.7	65.9
61	SLC (Foothill/U of U) (19)	14,409	11,501	79.8	77.7	63.2	87.7
1	SLC (Glendale) (21)	13,208	6,678	50.6	50.0	33.5	66.5
6	SLC (Rose Park) (17)	16,293	9,168	56.3	56.1	43.0	68.4
32	Sandy Center (36)	32,773	21,685	66.2	65.4	56.7	73.1
29	Sandy (NE) (37)	16,593	11,009	66.3	64.8	53.1	74.9
54	Sandy (SE) (38)	21,156	15,555	73.5	73.6	64.4	81.1
56	South Jordan (35)	28,735	21,483	74.8	74.4	66.0	81.3
17	South Salt Lake (25)	13,294	7,489	56.3	60.9	48.8	71.7
57	Taylorsville (East)/Murray (West) (30) <sup>m</sup>	23,264	17,421	74.9	75.5	66.3	82.8
5	Taylorsville (West) (30.1) <sup>o</sup>	7,752	4,463	57.6	55.5	38.1	71.7
20	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	19,219	12,912	67.2	61.9	49.7	72.7
49	West Jordan (SE) (34.1)	18,856	13,818	73.3	72.2	61.8	80.6
43	West Jordan West, Copperton (34.2)	15,555	10,474	67.3	69.0	57.6	78.5
13	West Valley East (23) (23.1) <sup>§</sup>	26,754	15,717	58.7	57.8	46.9	68.0
23	West Valley West (22)	38,909	24,344	62.6	62.9	54.6	70.5
	Southeastern Utah LHD	37,274	24,131	64.7	62.8	57.3	67.9
40	Carbon/Emery Counties (56)	21,464	15,032	70.0	67.4	60.9	73.2
2	Grand/San Juan Counties (57)	15,264	9,962	52.2	51.2	41.5	60.7
	Southwest Utah LHD	132,807	91,211	68.7	65.8	60.1	71.1
27	Cedar City (60)	20,035	12,721	63.5	63.6	50.1	75.3
10	Southwest LHD (Other) (61)	17,616	11,636	66.1	57.6	43.8	70.3
36	St. George (58)	51,965	37,492	72.1	66.4	54.9	76.2
34	Washington Co. (Other) (59)	41,960	27,861	66.4	65.7	56.7	73.6
50	Summit County LHD (51)	25,447	19,019	74.7	72.8	66.8	78.2
15	Tooele County LHD (40)	30,094	18,051	60.0	58.6	53.0	63.9
12	TriCounty LHD (53)	28,529	17,018	59.7	57.7	51.5	63.7
	Utah County LHD	215,490	142,326	66.0	65.2	62.0	68.4
19	American Fork/Alpine (42)	27,395	17,355	63.4	61.8	52.4	70.4
4	Lehi/Cedar Valley (41)	26,585	13,635	51.3	54.5	44.9	63.8
59	Orem East (46)	12,901	9,851	76.4	77.1	66.3	85.2
48	Orem North (44)	17,251	13,007	75.4	71.6	59.2	81.5
44	Orem West (45)	13,349	9,589	71.8	69.1	53.5	81.3
26	Pleasant Grove/Lindon (43)	24,602	15,187	61.7	63.4	54.1	71.9
41	Provo North/BYU (47)	18,438	12,841	69.6	67.5	54.3	78.4
24	Provo South (48)	17,823	11,560	64.9	63.1	48.7	75.5
46	Springville/Spanish Fork (49)	39,236	27,476	70.0	69.9	62.8	76.1
14	Utah Co. South (50)	16,244	11,213	69.0	58.3	47.7	68.2
33	Wasatch County LHD (52) <sup>*</sup>	13,622	9,076	66.6	65.4	59.7	70.8
	Weber-Morgan LHD	142,167	103,531	72.8	71.9	67.8	75.6
47	Ben Lomond (5)	31,468	22,303	70.9	71.0	62.0	78.6
60	Morgan Co (All)/Weber Co. (East) (6)	27,810	21,446	77.1	77.2	69.6	83.4
21	Ogden (Downtown) (7)	18,634	11,864	63.7	62.0	51.2	71.7
62	Riverdale (10)	15,851	12,516	79.0	78.0	67.4	85.9
35	Roy/Hooper (9)	24,471	16,642	68.0	66.0	54.8	75.6
51	South Ogden (8)	22,504	17,227	76.6	73.1	62.8	81.4

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>†</sup>For this indicator a higher rate means the small area is doing better than the state rate. <sup>‡</sup>2010-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>m</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>o</sup>Data are from 2012.

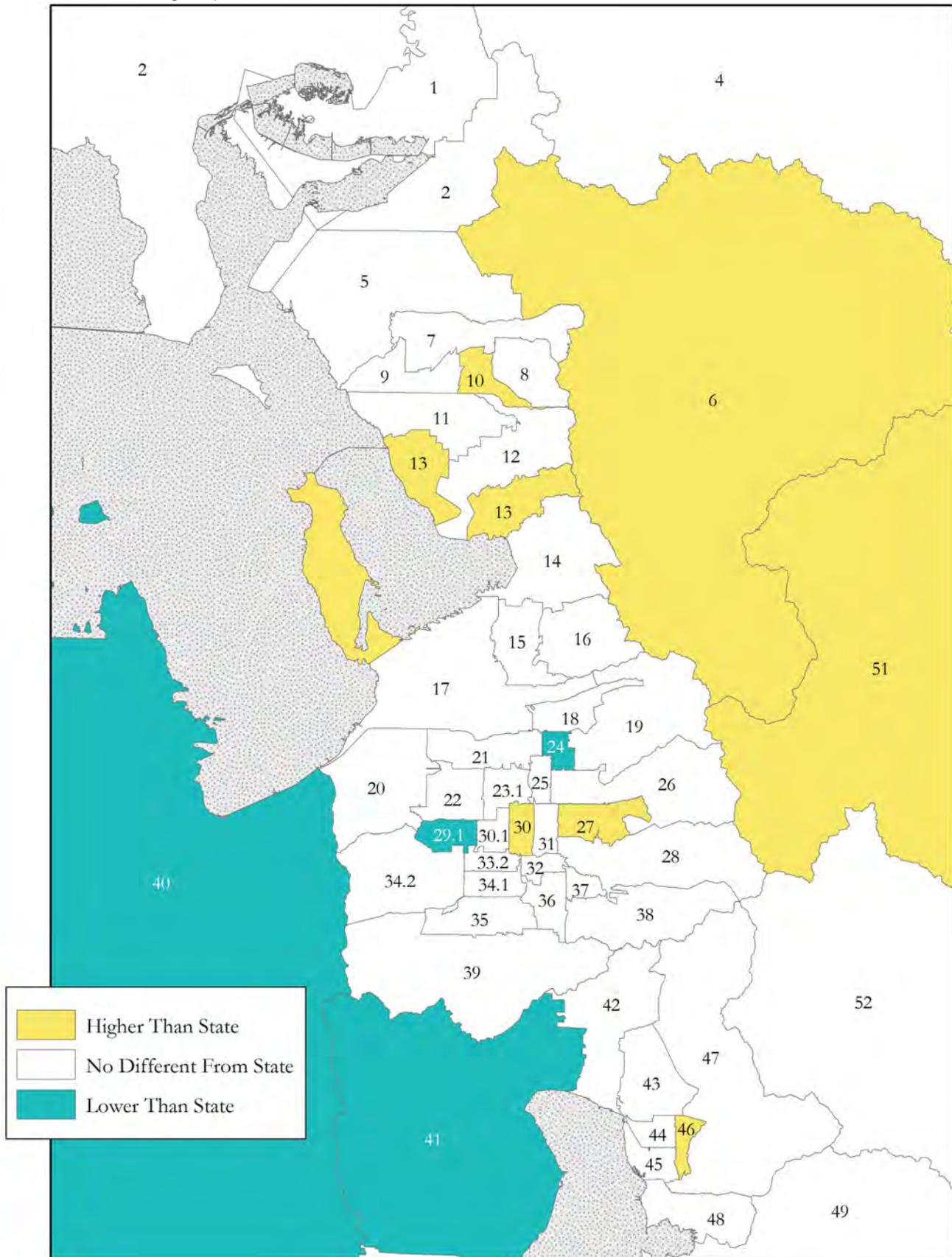
# Female Breast Cancer Screenings Ages 40+

Figure 11.1: Percentage of Female Breast Cancer Screenings Ages 40+ by Small Area, Utah, 2010-2012 (Age-adjusted)



# Female Breast Cancer Screenings Ages 40+

Figure 11.2: Percentage of Female Breast Cancer Screenings Ages 40+ by Small Area, Wasatch Front, Utah, 2010-2012 (Age-adjusted)



## 12. Colon Cancer Screenings Ages 50+

### *Indicator Definition*

The percentage of adults aged 50 or older who have had a blood stool test within the past year, sigmoidoscopy within the past 5 years and a blood stool test within the past 3 years, or a colonoscopy within the past 10 years.

### *Healthy People 2020 Objective*

C-16: Increase the proportion of adults aged 50 years and older who receive a colorectal cancer screening based on the most recent guidelines.

- U.S. Target: 70.5 percent
- State Target: 70.0 percent

### *Overview*

The prevalence of recommended colorectal cancer screening (blood stool test within the past year, sigmoidoscopy within the past 5 years and a blood stool test within the past 3 years, or a colonoscopy within the past 10 years) in Utah was 66.3 percent in 2010 and 70.2 percent in 2012. Colorectal cancer is the second leading cause of cancer-related deaths in the U.S. and in Utah. Screening is important, as deaths can be substantially reduced when precancerous polyps are detected early and removed<sup>19</sup>.

To reduce bias and more accurately represent population data, the BRFSS changed survey methodology. Colorectal cancer screening recommendations have also changed. Due to these changes, the numbers reported in this indicator are not comparable to those published before 2010.

Among Utah Small Areas in 2010 and 2012, Pleasant Grove/Lindon small area had the highest proportion of adults who reported having been screened in accordance with recent guidelines for colon cancer, with an age-adjusted rate of 80.5, and Salt Lake City (Glendale) small area had the lowest age-adjusted rate at 45.9.

### *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 2: Health Care Systems (activities within the health care system at large and with individual physicians)
  - o Develop shared goals and priorities with health care partners regarding quality of care outcomes and improving health equity (Objective 1.1)
  - o Educate health care systems and providers on the use of community health workers to help patients access health care services and community resources (Objective 1.6)
  - o Increase the number of health systems using electronic health records to treat and prevent chronic diseases (Objective 1.12)

Strategic Goal Area	Related Objectives
Goal Area 1: Environmental Approaches that Promote Health	5.1, 5.4
Goal Area 2: Health Care Systems	1.1, 1.6, 1.12
Goal Area 3: Community Clinical Linkages	
Goal Area 4: Health Communications	
Goal Area 5: Data and Evaluation	

***Case in Point: Improving Colonoscopy Screening Through Promoting Health Systems in Utah County***  
(Aligns with Strategic Goal Area 2: Health Care Systems)

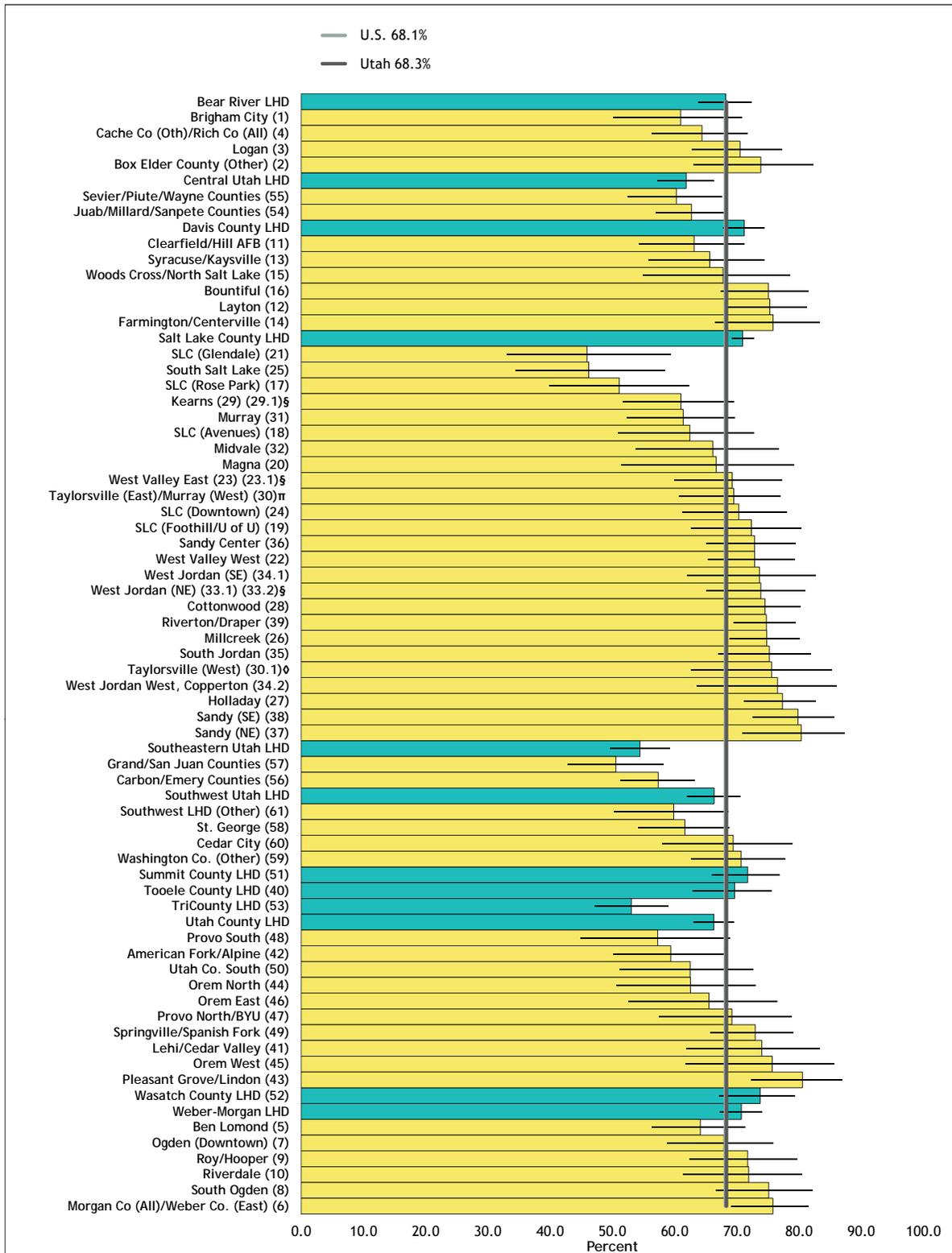
Using information from the Utah Cancer Control Program (UCCP)'s Small Area report (2011), public health practitioners identified 10 small areas with the lowest colorectal cancer screening in Utah. Two of the 10 areas of lowest screening (Provo South and TriCounty) also had high colorectal cancer mortality rates. These two areas were selected as pilot areas for a targeted public health campaign involving the Utah Department of Health, local health departments, local health clinics, and community partners. The focus of the intended campaign is to establish state/local partnerships that create and increase patient colonoscopy reminders, patient navigation to colonoscopy screening services, and targeted education/information about colorectal cancer and colonoscopy screening that are appropriate for the local populations.

In Phase 1 of the campaign, the Colorectal Cancer Health Program Specialist conducted an in-person needs assessment with key partners in Provo South. Barriers to health system collaboration included confusion as to how the Affordable Care Act will impact colorectal cancer screening and the belief that previously used social media were not culturally appropriate for their at-risk population. The needs assessment also identified potential community partners within the small area, assessed the acceptability of mailed colorectal cancer screening reminder cards, and discussed potential options for a targeted intervention.

In Phase 2 of the campaign, UDOH will continue to work with Provo South key partners to focus the area intervention on previously identified priorities, develop targeted social media messaging that is culturally appropriate, educate involved health clinics, practitioners, and insurers on how the Affordable Care Act will affect low-cost colonoscopy screenings, medical billing and Medicaid expansion, and work with partners to collaborate on a small-media intervention promoting colorectal screening reminders, increased patient navigation, and improved community access to colorectal cancer screening services. If successful, intervention strategies from South Provo will be tailored to meet identified needs in the TriCounty area.

# Colon Cancer Screenings Ages 50+

Figure 12: Percentage of Colon Cancer Screenings Ages 50+ by Small Area, Health District, Utah, and U.S., 2010, 2012 (Age-adjusted)



¥For this indicator a higher rate means the small area is doing better than the state rate. §In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). ϑData are from 2012.

# Colon Cancer Screenings Ages 50+

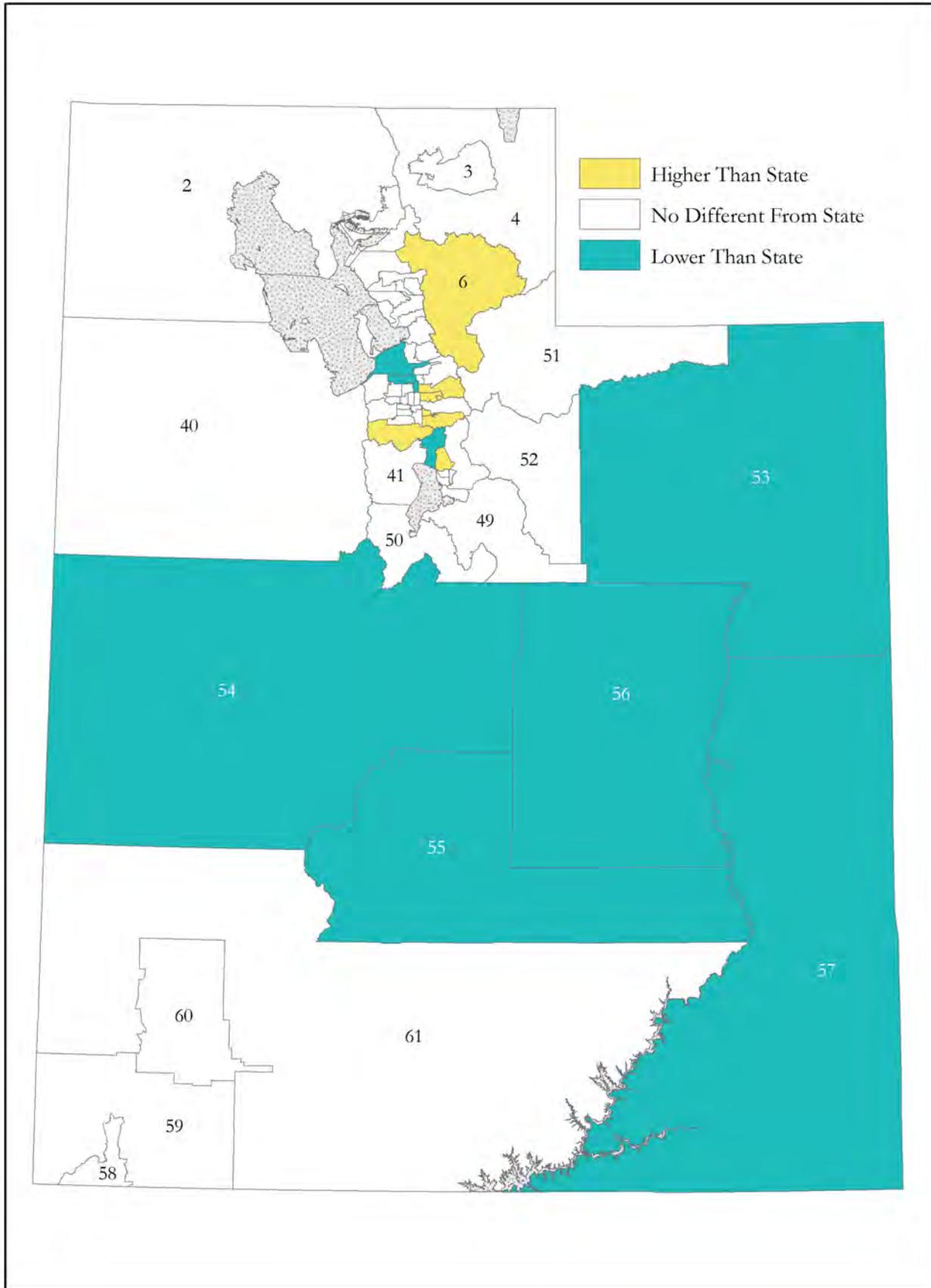
Table 12: Percentage of Colon Cancer Screenings Ages 50+ by Small Area, Health District, Utah, and U.S., 2010, 2012

State Rank <sup>1,*</sup>	Small Area, Health District, Utah, or U.S.	2010, 2012 Population 50+	2010, 2012 Colon Cancer Screenings 50+	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
						Lower	Upper
	U.S. <sup>†</sup>	203,924,294	137,444,974	67.4	68.1	67.8	68.3
	State of Utah	1,335,303	898,125	67.3	68.3	67.2	69.4
	Bear River LHD	74,537	50,395	67.6	68.2	63.7	72.3
11	Brigham City (1)	13,181	7,834	59.4	60.9	50.1	70.7
45	Box Elder County (Other) (2)	13,759	10,174	73.9	73.8	63.1	82.3
21	Cache Co (Oth)/Rich Co (All) (4)	20,868	13,092	62.7	64.4	56.3	71.7
34	Logan (3)	26,038	18,032	69.3	70.5	62.7	77.2
	Central Utah LHD	44,737	27,760	62.1	61.8	57.2	66.3
18	Juab/Millard/Sanpete Counties (54)	28,125	17,732	63.0	62.7	56.9	68.2
10	Sevier/Piute/Wayne Counties (55)	16,563	9,920	59.9	60.2	52.5	67.5
	Davis County LHD	142,516	99,769	70.0	71.1	67.7	74.3
51	Bountiful (16)	29,220	21,846	74.8	75.0	67.3	81.4
19	Clearfield/Hill AFB (11)	24,077	15,023	62.4	63.1	54.2	71.2
57	Farmington/Centerville (14)	18,231	13,306	73.0	75.8	66.4	83.2
54	Layton (12)	34,180	24,980	73.1	75.3	68.3	81.1
23	Syracuse/Kaysville (13)	23,663	15,347	64.9	65.6	55.7	74.3
26	Woods Cross/North Salt Lake (15)	12,442	8,305	66.7	67.7	54.8	78.4
	Salt Lake County LHD	510,801	353,442	69.2	70.9	69.1	72.6
48	Cottonwood (28)	30,825	22,956	74.5	74.5	67.9	80.1
60	Holladay (27)	33,841	26,448	78.2	77.3	71.0	82.5
12	Kearns (29) (29.1) <sup>§</sup>	21,884	12,464	57.0	61.0	51.7	69.5
25	Magna (20)	10,125	6,785	67.0	66.7	51.3	79.1
24	Midvale (32)	14,515	9,720	67.0	66.1	53.7	76.6
50	Millcreek (26)	35,116	26,082	74.3	74.8	68.7	80.0
13	Murray (31)	18,345	11,194	61.0	61.3	52.3	69.7
49	Riverton/Draper (39)	39,220	27,054	69.0	74.7	69.4	79.3
15	SLC (Avenues) (18)	13,800	8,642	62.6	62.4	50.9	72.7
33	SLC (Downtown) (24)	24,090	16,460	68.3	70.3	61.2	78.0
39	SLC (Foothill/U of U) (19)	13,443	9,732	72.4	72.3	62.6	80.3
1	SLC (Glendale) (21)	12,410	5,663	45.6	45.9	33.0	59.3
4	SLC (Rose Park) (17)	13,922	6,326	45.4	51.1	39.8	62.2
40	Sandy Center (36)	28,008	20,497	73.2	72.8	65.1	79.4
62	Sandy (NE) (37)	16,691	12,975	77.7	80.3	70.8	87.3
61	Sandy (SE) (38)	19,541	14,861	76.1	79.8	72.5	85.6
53	South Jordan (35)	24,324	17,878	73.5	75.2	67.0	81.9
2	South Salt Lake (25)	11,659	5,202	44.6	46.2	34.4	58.4
31	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	20,592	13,738	66.7	69.5	60.7	77.0
55	Taylorsville (West) (30.1) <sup>°</sup>	10,581	7,889	74.6	75.6	62.6	85.1
46	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	16,130	10,794	66.9	73.8	65.1	81.0
43	West Jordan (SE) (34.1)	14,709	10,695	72.7	73.6	62.0	82.7
59	West Jordan West, Copperton (34.2)	10,206	7,464	73.1	76.5	63.5	85.9
28	West Valley East (23) (23.1) <sup>§</sup>	22,330	14,503	65.0	69.2	59.8	77.2
41	West Valley West (22)	32,138	22,827	71.0	72.8	65.3	79.2
	Southeastern Utah LHD	36,390	19,295	53.0	54.4	49.6	59.2
7	Carbon/Emery Counties (56)	21,338	12,185	57.1	57.3	51.3	63.2
3	Grand/San Juan Counties (57)	14,838	6,949	46.8	50.5	42.8	58.2
	Southwest Utah LHD	130,697	87,846	67.2	66.3	61.9	70.4
30	Cedar City (60)	18,440	13,395	72.6	69.4	57.9	78.8
9	Southwest LHD (Other) (61)	18,089	10,723	59.3	59.8	50.3	68.6
14	St. George (58)	51,097	32,800	64.2	61.6	54.1	68.6
35	Washington Co. (Other) (59)	42,096	29,842	70.9	70.7	62.6	77.7
36	Summit County LHD (51)	22,297	15,677	70.3	71.7	66.0	76.8
32	Tooele County LHD (40)	25,843	17,982	69.6	69.6	62.9	75.5
5	TriCounty LHD (53)	26,905	14,079	52.3	53.0	47.1	58.9
	Utah County LHD	180,245	117,912	65.4	66.3	63.0	69.4
8	American Fork/Alpine (42)	22,678	12,330	54.4	59.3	50.1	68.0
47	Lehi/Cedar Valley (41)	20,424	14,977	73.3	73.9	61.8	83.3
22	Orem East (46)	11,951	7,918	66.3	65.5	52.6	76.5
16	Orem North (44)	14,632	8,618	58.9	62.5	50.7	73.0
56	Orem West (45)	11,635	8,808	75.7	75.6	61.8	85.6
63	Pleasant Grove/Lindon (43)	19,623	15,254	77.7	80.5	72.2	86.8
29	Provo North/BYU (47)	17,426	12,123	69.6	69.2	57.5	78.8
6	Provo South (48)	14,269	8,079	56.6	57.2	44.8	68.8
42	Springville/Spanish Fork (49)	33,045	23,844	72.2	72.9	65.7	79.1
17	Utah Co. South (50)	14,124	8,601	60.9	62.5	51.1	72.6
44	Wasatch County LHD (52) <sup>*</sup>	12,223	9,082	74.3	73.7	67.2	79.3
	Weber-Morgan LHD	128,112	89,114	69.6	70.7	67.3	73.9
20	Ben Lomond (5)	28,326	17,361	61.3	64.1	56.3	71.3
58	Morgan Co (All)/Weber Co. (East) (6)	25,780	19,360	75.1	75.8	69.0	81.4
27	Ogden (Downtown) (7)	16,289	10,961	67.3	67.9	58.8	75.8
38	Riverdale (10)	14,294	10,333	72.3	71.9	61.3	80.4
37	Roy/Hooper (9)	21,198	14,936	70.5	71.7	62.3	79.6
52	South Ogden (8)	20,725	15,218	73.4	75.1	66.5	82.1

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>†</sup>For this indicator a higher rate means the small area is doing better than the state rate. <sup>‡</sup>2010,2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>°</sup>Data are from 2012.

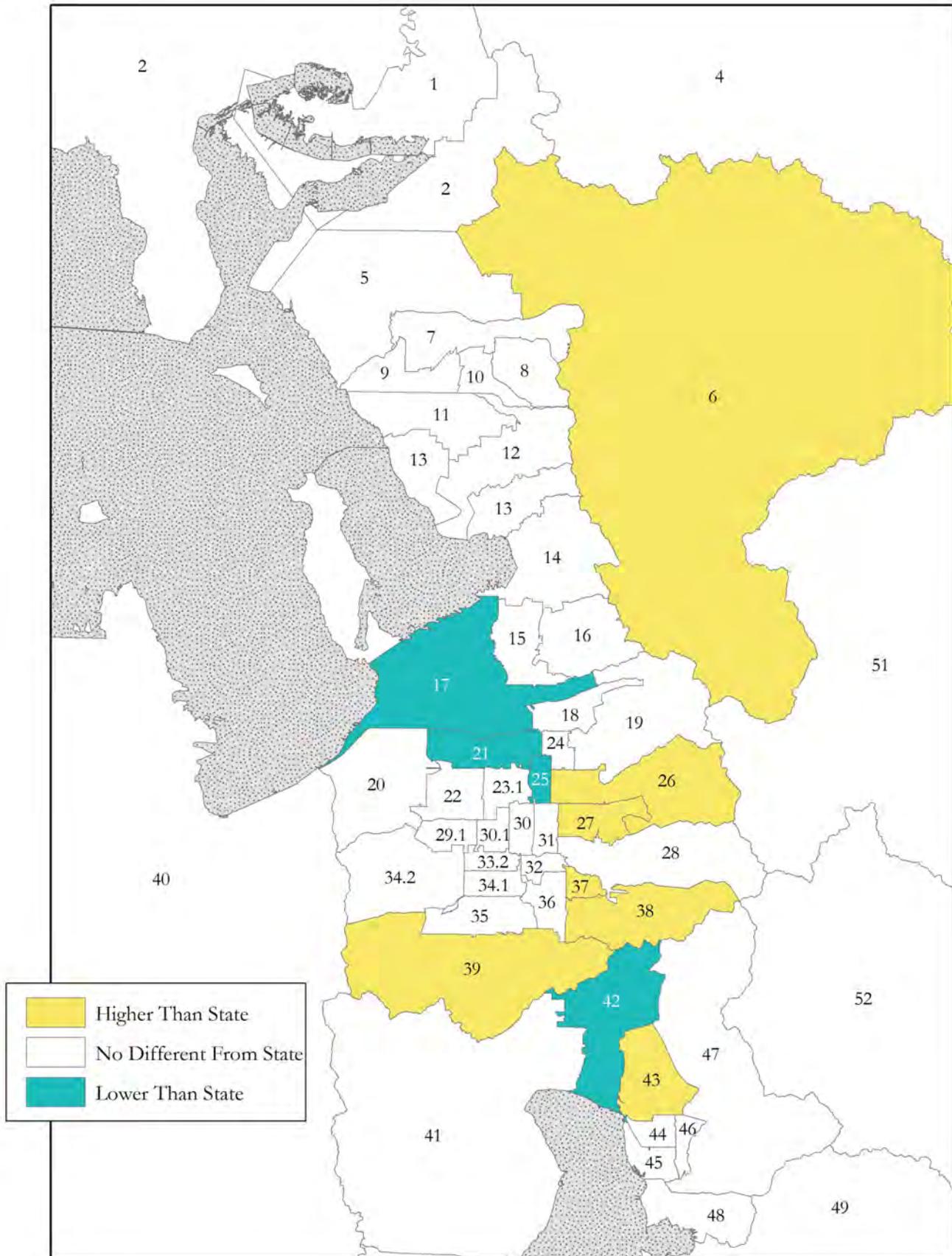
# Colon Cancer Screenings Ages 50+

Figure 12.1: Percentage of Colon Cancer Screenings Ages 50+ by Small Area, Utah, 2010, 2012 (Age-adjusted)



# Colon Cancer Screenings Ages 50+

Figure 12.2: Percentage of Colon Cancer Screenings Ages 50+ by Small Area, Wasatch Front, Utah, 2010, 2012 (Age-adjusted)



# 13. Prediabetic Adults

## *Indicator Definition*

Proportion of adults who report having been screened in accordance with recent guidelines for prediabetes.

## *Healthy People 2020 Objective*

D-1: Reduce the annual number of new cases of diagnosed diabetes in the population.

- U.S. Target: 7.2 new cases per 1,000 population aged 18 to 84 years

(State Plan target: 6.5% - proportion of adults who report having been screened in accordance with recent guidelines for prediabetes.)

## *Overview*

Prediabetes occurs when an individual's blood glucose level is higher than normal but not high enough to be diagnosed as diabetic – an A1C of 5.7% - 6.4%; fasting blood glucose of 100 -125 mg/dl; and an Oral Glucose Tolerance Test 2-hour blood glucose of 140 – 199 mg/dl<sup>20</sup>. Prediabetes increases the risk for developing type 2 diabetes and cardiovascular disease. There are no clear symptoms of prediabetes; however, some people may exhibit symptoms of diabetes or diabetes-related complications. Individuals with prediabetes should continue to be checked for type 2 diabetes every one to two years. A diagnosis of prediabetes does not mean type 2 diabetes will automatically develop; research shows that early treatment, weight loss, and moderate exercise can lower the risk of developing type 2 diabetes in persons with prediabetes diagnoses<sup>21</sup>.

Among Utah Small Areas from 2009-2012, Riverdale small area had the highest proportion of adults who reported having been screened in accordance with recent guidelines for prediabetes, with an age-adjusted rate of 11.9, and Orem East small area had the lowest age-adjusted rate at 1.9.

## *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 2: Health Care Systems
  - Develop shared goals and priorities with health care partners regarding quality of care outcomes and improving health equity (Objective 1.1)
  - Identify opportunities to link health care systems to community health workers (Objective 1.7).
  - Increase the number of health care systems that use team-based care to prevent and manage chronic disease by 10% (Objective 1.10)

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	5.1, 5.4
Goal Area 2: Health Care Systems	1.1, 1.6, 1.10, 1.12
Goal Area 3: Community Clinical Linkages	
Goal Area 4: Health Communications	
Goal Area 5: Data and Evaluation	

## *Case in Point: Increase the Proportion of Adults Who Have Been Screened for Prediabetes*

(Aligns with Strategic Goal Area 2: Health Care Systems)

Utah's Healthy Living through Environment, Policy, and Improved Clinical Care (EPICC) Program aims to improve health in the state by increasing physical activity, improving nutrition, and improving health care services for adults and children.

One of EPICC's primary goals is to increase screening rates among individuals who may have a chronic condition that has not been identified. One such condition is prediabetes. Prediabetes is a condition in which blood sugar levels are elevated but not yet high enough to meet the diagnostic threshold for diabetes. Most people with prediabetes will develop diabetes within 10 years unless steps are taken to prevent its progression. Prediabetes also increases the risk of heart disease. The Centers for Disease Control and Prevention (CDC) estimates that about one-third of US adults (aged 20 and over) has prediabetes, but the majority of people with prediabetes do not know they have it.

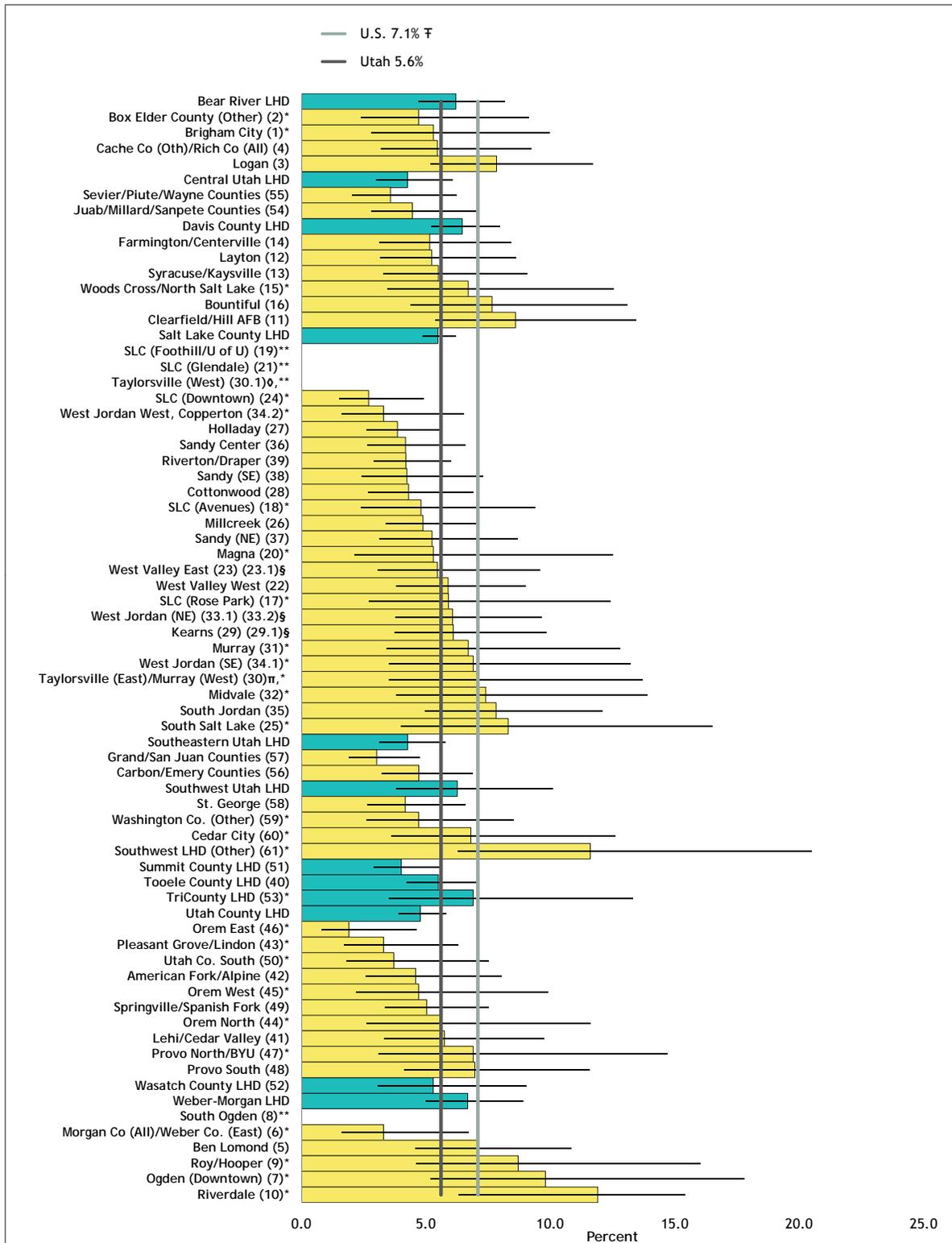
When individuals with prediabetes are aware of their condition and their related increased risk of developing diabetes and other cardiovascular complications, they can make the necessary lifestyle changes to prevent or at least delay progression to type 2 diabetes. More than one in 20 Utah adults (5.3%) have prediabetes (BRFSS 2011-2012). Through making simple lifestyle changes, such as being more physically active and losing weight, individuals can dramatically reduce their risk.

The WISEWOMAN (Well-Integrated Screening and Evaluation for WOMen Across the Nation) Program, housed at the Utah Department of Health, successfully screens women for prediabetes. WISEWOMAN has worked with local health departments since January 2009 to offer eligible Utah women, ages 50-64 with incomes at or below 250% of the Federal Poverty Level (FPL), cardiovascular screening, case management and health coaching. Utah's WISEWOMAN program (also known as BeWise) is offered at 22 local health department clinics. These community-based agencies offer local residents a variety of health resources and services. Women in the WISEWOMAN Program are routinely screened for high blood sugar. Women with fasting blood sugar levels between 100 and 125 mg/dL (or non-fasting of 141-200 mg/dL) are diagnosed with prediabetes and are eligible for risk reduction counseling by the WISEWOMAN staff of nurses and nurse practitioners. More information on prediabetes is available at <http://www.cdc.gov/diabetes/prevention/recognition/index.htm> .

Additional information can be found at <http://choosehealth.utah.gov>.

# Prediabetic Adults

Figure 13: Percentage of Prediabetic Adults by Small Area, Health District, Utah, and U.S., 2009-2012 (Age-adjusted)



‡ 2012 data were used to calculate U.S. rates. §In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). ◇Data are from 2012. \*Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. \*\*The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

# Prediabetic Adults

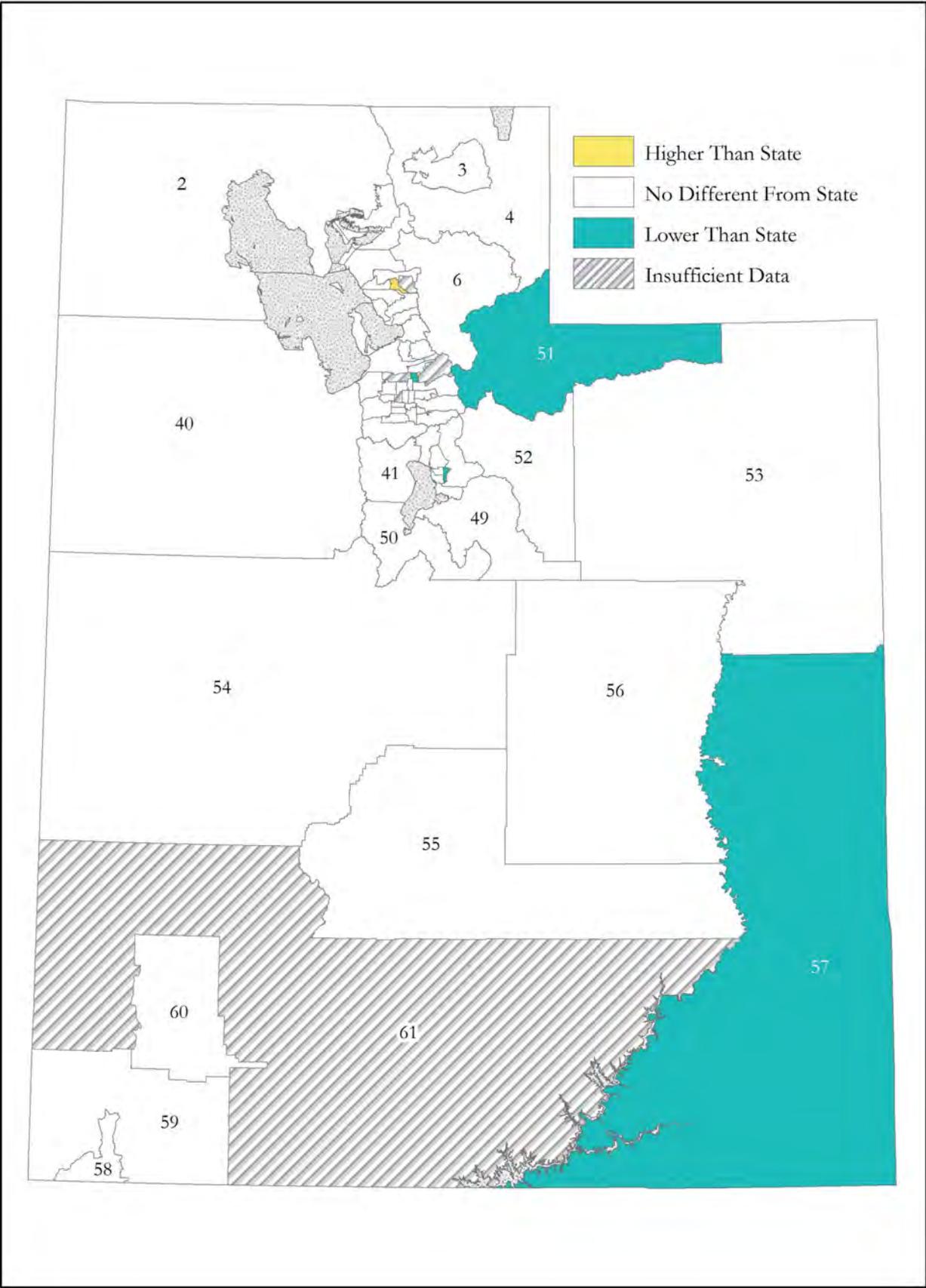
**Table 13: Percentage of Prediabetic Adults by Small Area, Health District, Utah, and U.S., 2009-2012**

State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2009-2012 Population 18+	2009-2012 Pre-diabetic Adults	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
						Lower	Upper
	U.S. <sup>2</sup>	240,185,952	17,605,630	7.3	7.1	6.9	7.3
	State of Utah	7,669,491	397,464	5.2	5.6	5.2	6.1
	Bear River LHD	450,575	26,685	5.9	6.2	4.7	8.2
28	Brigham City (1)	63,923	3,690	5.8*	5.3*	2.8	9.9
18	Box Elder County (Other) (2)	68,414	2,376	3.5*	4.7*	2.4	9.1
31	Cache Co (Oth)/Rich Co (All) (4)	107,754	5,348	5.0*	5.5*	3.2	9.2
52	Logan (3)	209,995	16,675	7.9	7.8	5.2	11.7
	Central Utah LHD	207,054	8,735	4.2	4.3	3.0	6.1
16	Juab/Millard/Sanpete Counties (54)	137,475	6,380	4.6	4.5	2.8	7.0
7	Sevier/Piute/Wayne Counties (55)	69,265	2,392	3.5*	3.6*	2.0	6.2
	Davis County LHD	815,250	47,268	5.8	6.5	5.2	8.0
51	Bountiful (16)	130,947	9,060	6.9	7.7	4.4	13.1
55	Clearfield/Hill AFB (11)	176,416	11,912	6.8	8.6	5.4	13.4
25	Farmington/Centerville (14)	91,551	5,047	5.5	5.1	3.1	8.4
26	Layton (12)	199,224	9,094	4.6	5.2	3.1	8.6
32	Syracuse/Kaysville (13)	140,025	7,358	5.3*	5.5*	3.3	9.1
41	Woods Cross/North Salt Lake (15)	78,984	4,883	6.2*	6.7*	3.4	12.5
	Salt Lake County LHD	2,955,383	150,033	5.1	5.5	4.9	6.2
15	Cottonwood (28)	135,047	5,945	4.4	4.3	2.6	6.9
9	Holladay (27)	142,035	6,779	4.8	3.9	2.6	5.6
39	Kearns (29) (29.1) <sup>§</sup>	161,050	9,200	5.7	6.1	3.7	9.8
29	Magna (20)	69,471	2,938	4.2*	5.3*	2.2	12.6
50	Midvale (32)	87,080	4,776	5.5*	7.4*	3.8	14.0
23	Millcreek (26)	173,227	8,567	4.9	4.9	3.4	7.0
42	Murray (31)	97,921	7,362	7.5*	6.7*	3.4	12.8
11	Riverton/Draper (39)	284,982	10,857	3.8	4.2	2.9	6.0
22	SLC (Avenues) (18)	73,804	3,441	4.7*	4.8*	2.4	9.3
2	SLC (Downtown) (24)	169,416	4,040	2.4*	2.7*	1.4	4.9
**	SLC (Foothill/U of U) (19)	71,574	**	**	**	**	**
**	SLC (Glendale) (21)	84,650	**	**	**	**	**
37	SLC (Rose Park) (17)	92,566	6,402	6.9*	5.9*	2.7	12.5
12	Sandy Center (36)	151,774	5,394	3.6	4.2	2.6	6.6
27	Sandy (NE) (37)	67,093	3,034	4.5	5.2	3.1	8.7
13	Sandy (SE) (38)	85,328	3,875	4.5	4.2	2.4	7.3
53	South Jordan (35)	134,257	8,989	6.7	7.8	5.0	12.1
54	South Salt Lake (25)	77,625	7,116	9.2*	8.3*	4.0	16.4
48	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	108,999	8,332	7.6*	7.1*	3.6	13.7
**	Taylorsville (West) (30.1) <sup>°</sup>	27,721	**	**	**	**	**
40	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	98,139	4,644	4.7	6.1	3.8	9.6
44	West Jordan (SE) (34.1)	95,335	5,279	5.5*	6.9*	3.5	13.2
4	West Jordan West, Copperton (34.2)	99,132	3,407	3.4*	3.3*	1.7	6.5
33	West Valley East (23) (23.1) <sup>§</sup>	150,794	8,155	5.4*	5.5*	3.0	9.6
38	West Valley West (22)	204,693	10,172	5.0	5.9	3.8	9.0
	Southeastern Utah LHD	160,217	7,155	4.5	4.3	3.1	5.8
19	Carbon/Emery Counties (56)	92,610	4,491	4.8	4.7	3.2	6.9
3	Grand/San Juan Counties (57)	67,006	2,262	3.4	3.0	1.9	4.8
	Southwest Utah LHD	577,342	37,551	6.5	6.3	3.8	10.1
43	Cedar City (60)	114,165	7,279	6.4*	6.8*	3.6	12.6
**	Southwest LHD (Other) (61)	69,536	**	**	**	6.3	20.5
14	St. George (58)	221,906	9,758	4.4	4.2	2.6	6.6
20	Washington Co. (Other) (59)	172,828	8,527	4.9	4.7	2.5	8.4
10	Summit County LHD (51)	107,263	4,005	3.7	4.0	2.9	5.6
34	Tooele County LHD (40)	150,688	7,479	5.0	5.5	4.2	7.1
45	TriCounty LHD (53)	141,873	8,568	6.0*	6.9*	3.4	13.3
	Utah County LHD	1,362,042	54,211	4.0	4.8	3.9	5.8
17	American Fork/Alpine (42)	128,645	4,973	3.9	4.6	2.6	8.0
36	Lehi/Cedar Valley (41)	200,392	8,692	4.3	5.7	3.3	9.7
1	Orem East (46)	59,037	1,041	1.8*	1.9*	0.8	4.6
35	Orem North (44)	99,205	3,853	3.9*	5.6*	2.6	11.5
21	Orem West (45)	90,562	3,186	3.5*	4.7*	2.2	9.9
5	Pleasant Grove/Lindon (43)	131,648	5,150	3.9*	3.3*	1.7	6.3
46	Provo North/BYU (47)	170,303	10,648	6.3*	6.9*	3.1	14.7
47	Provo South (48)	196,143	9,259	4.7*	7.0*	4.1	11.6
24	Springville/Spanish Fork (49)	208,243	9,789	4.7	5.0	3.3	7.5
8	Utah Co. South (50)	84,052	2,797	3.3*	3.7*	1.8	7.5
30	Wasatch County LHD (52)	63,871	3,769	5.9*	5.3*	3.1	9.0
	Weber-Morgan LHD	677,933	43,213	6.4	6.7	5.0	8.9
49	Ben Lomond (5)	157,103	9,456	6.0	7.1	4.6	10.8
6	Morgan Co (All)/Weber Co. (East) (6)	117,059	3,954	3.4*	3.3*	1.6	6.6
57	Ogden (Downtown) (7)	101,399	10,150	10.0*	9.8*	5.3	17.6
58	Riverdale (10)	72,966	8,319	11.4*	11.9*	6.3	21.4
56	Roy/Hooper (9)	119,672	8,470	7.1*	8.7*	4.5	16.0
**	South Ogden (8)	107,899	**	**	**	**	**

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>2</sup>2012 data were used to calculate U.S. rates. <sup>3</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>4</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>5</sup>Data are from 2012. <sup>6</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. <sup>7</sup>The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

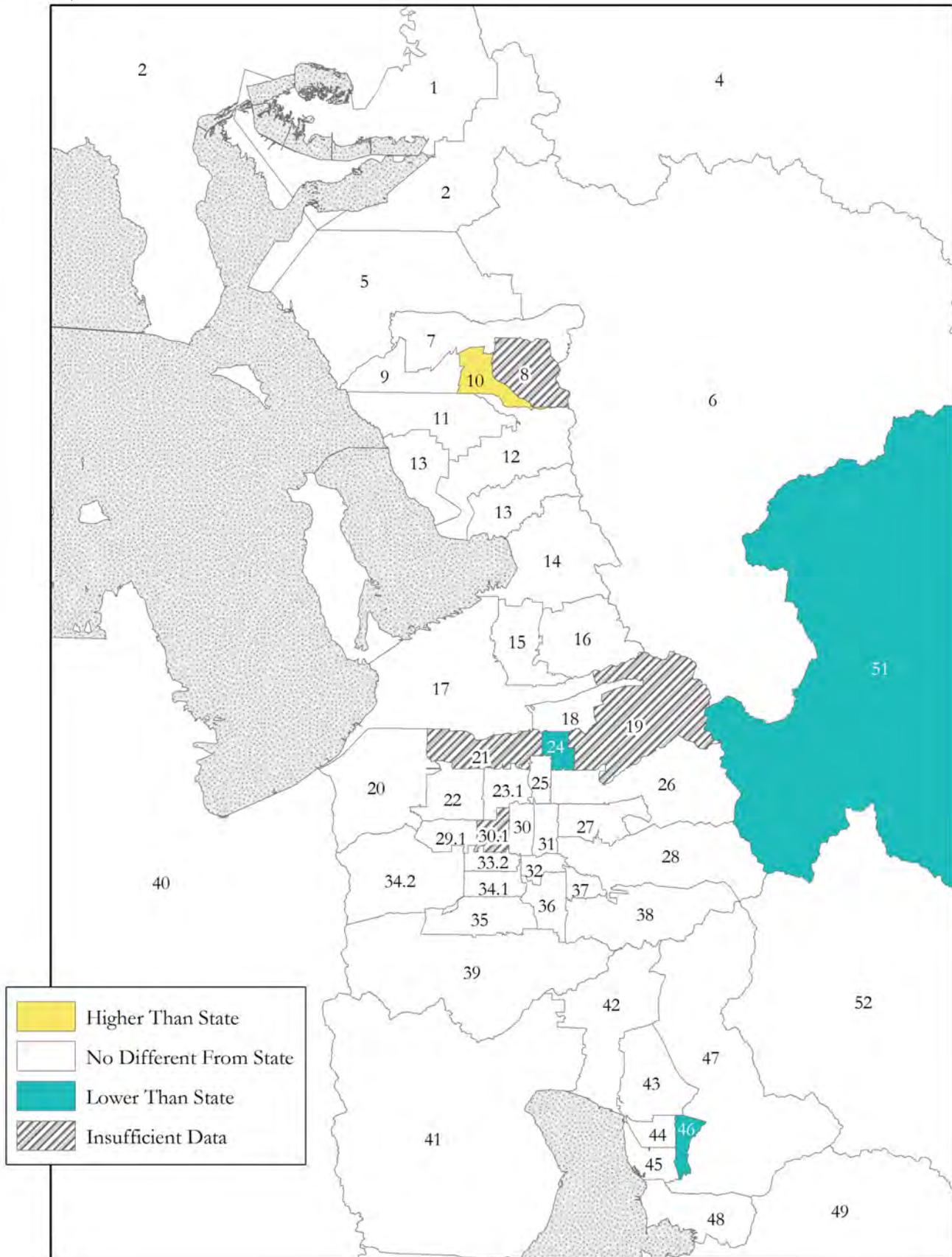
# Prediabetic Adults

Figure 13.1: Percentage of Prediabetic Adults by Small Area, Utah, 2009-2012 (Age-adjusted)



# Prediabetic Adults

Figure 13.2: Percentage of Prediabetic Adults by Small Area, Wasatch Front, Utah, 2009-2012 (Age-adjusted)



# 14. Adults Controlling High Blood Pressure

## *Indicator Definition*

The proportion of adults who report that they are taking action to control high blood pressure.

## *Healthy People 2020 Objective*

HDS-4: Increase the proportion of adults who have had their blood pressure measured within the preceding 2 years and can state whether their blood pressure was normal or high.

- U.S. Target: 92.6 percent

HDS-11: Increase the proportion of adults with hypertension who are taking prescribed medications to lower their blood pressure.

- U.S. Target: 69.5 percent

HDS-12: Increase the proportion of adults with hypertension whose blood pressure is under control.

- U.S. Target: 61.2 percent

## *Overview*

About one in four Utah adults have been told by their health care provider that their blood pressure is high<sup>22</sup>. If not controlled, high blood pressure increases the risk of heart attack, stroke, and kidney disease. Since most people with high blood pressure do not generally exhibit symptoms, the only way to diagnose the disease is to be screened. This can be done by checking blood pressure at home, at a doctor's office, or at a pharmacy. Controlling high blood pressure can be achieved through lifestyle modifications such as being physically active, maintaining a healthy weight, and choosing to eat foods low in sodium or salt. Treatments for high blood pressure include a variety of medications, such as diuretics and adrenergic blockers, smoking cessation, and limiting alcohol consumption.

Among Utah Small Areas in 2011 and 2012, West Jordan West, Copperton had the highest proportion of adults who reported that they are taking action to control high blood pressure, at 79.2%. Provo North/BYU had the lowest at 28.4%.

## *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 2: Health Care Systems
  - Develop shared goals and priorities with health care partners regarding quality of care outcomes and improving health equity (Objective 1.1)

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	4.3, 4.11, 5.3, 5.4, 5.6
Goal Area 2: Health Care Systems	1.10
Goal Area 3: Community Clinical Linkages	1.6
Goal Area 4: Health Communications	
Goal Area 5: Data and Evaluation	

## *Case in Point: Controlling High Blood Pressure Through Pharmacy-based Interventions*

(Aligns with Strategic Goal Area 2: Health Care Systems)

Utah's Healthy Living through Environment, Policy, and Improved Clinical Care (EPICC) Program aims to improve health by increasing physical activity, improving nutrition, and improving health care services for adults and children.

When it comes to helping patients manage chronic conditions like high blood pressure, pharmacists are an important part of the care team. Pharmacists can help patients and providers find the right medication, or combination of medications, to bring blood pressure under control and manage medication adherence problems. Pharmacists also can work with patients and providers to help make sure that patients follow care plans, including healthy lifestyle or behavior changes.

The Utah Department of Health is partnering with health care systems in the following ways:

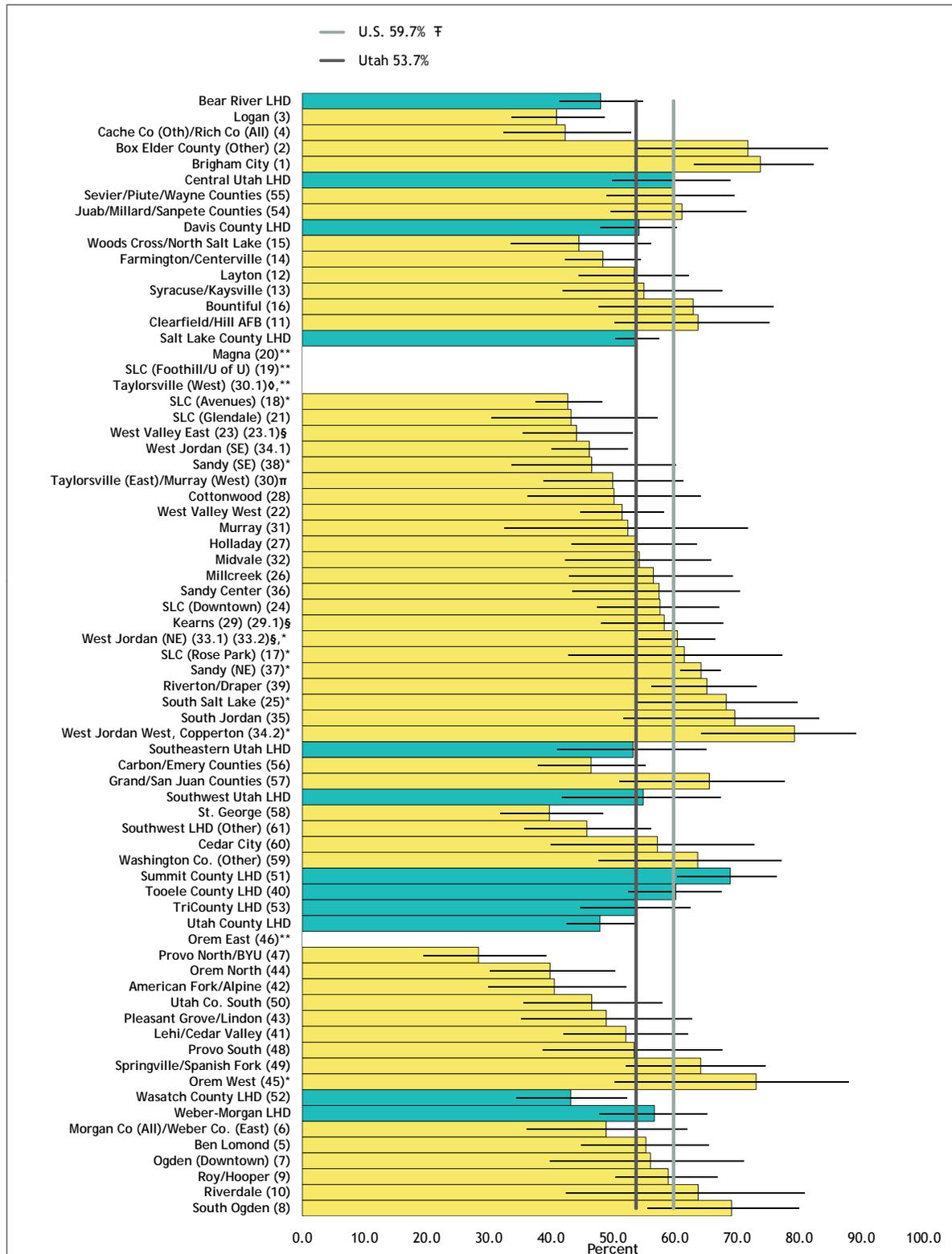
- Pharmacy Environmental Scan – UDOH is conducting surveys and interviews with pharmacists to learn how they view their roles, challenges, and opportunities to treat patients with chronic conditions, especially high blood pressure. The scan assesses not only pharmacists' training, experience, and opinions, but the structures of the health care system that facilitate and impede pharmacists in practicing to the full extent of their licensure.
- Pharmacy Treatment – UDOH is working with Intermountain Healthcare to facilitate pharmacist treatment of patients with uncontrolled high blood pressure. Pharmacists meet with patients, provide counseling, modify medication dosages and follow up with patients to make sure that their medications are effective in bringing blood pressure under control. The pharmacists also help to ensure patients are meeting their treatment goals by providing feedback to primary care providers on medication adherence.
- Pharmacy Adherence – UDOH supports Utah Public Employees Health Program (PEHP) efforts to identify members who have gaps in prescription refills for hypertension, diabetes, and cholesterol medications and get them back on track and using their medication consistently.

More information about the Utah Department of Health pharmacy-based interventions is available at <http://choosehealth.utah.gov>.

The U.S. Department of Health and Human Services developed a program called Team Up. Pressure Down., to offer support to health care professionals in helping Americans to improve their blood pressure control. The program is part of the Million Hearts campaign to prevent 1 million heart attacks and strokes by 2017. Health care providers can learn how to incorporate the program into their pharmacies by viewing the tools and resources available at <http://millionhearts.hhs.gov/resources/teamuppressuredown.html>.

# Adults Controlling High Blood Pressure

Figure 14: Percentage of Adults Taking Action To Control High Blood Pressure by Small Area, Health District, Utah, and U.S., 2011-2012 (Age-adjusted)



¶For this indicator a higher rate means the small area is doing better than the state rate. † 2011 data were used to calculate U.S. rates. §In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). ¶Data are from 2012. \*Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution.

# Adults Controlling High Blood Pressure

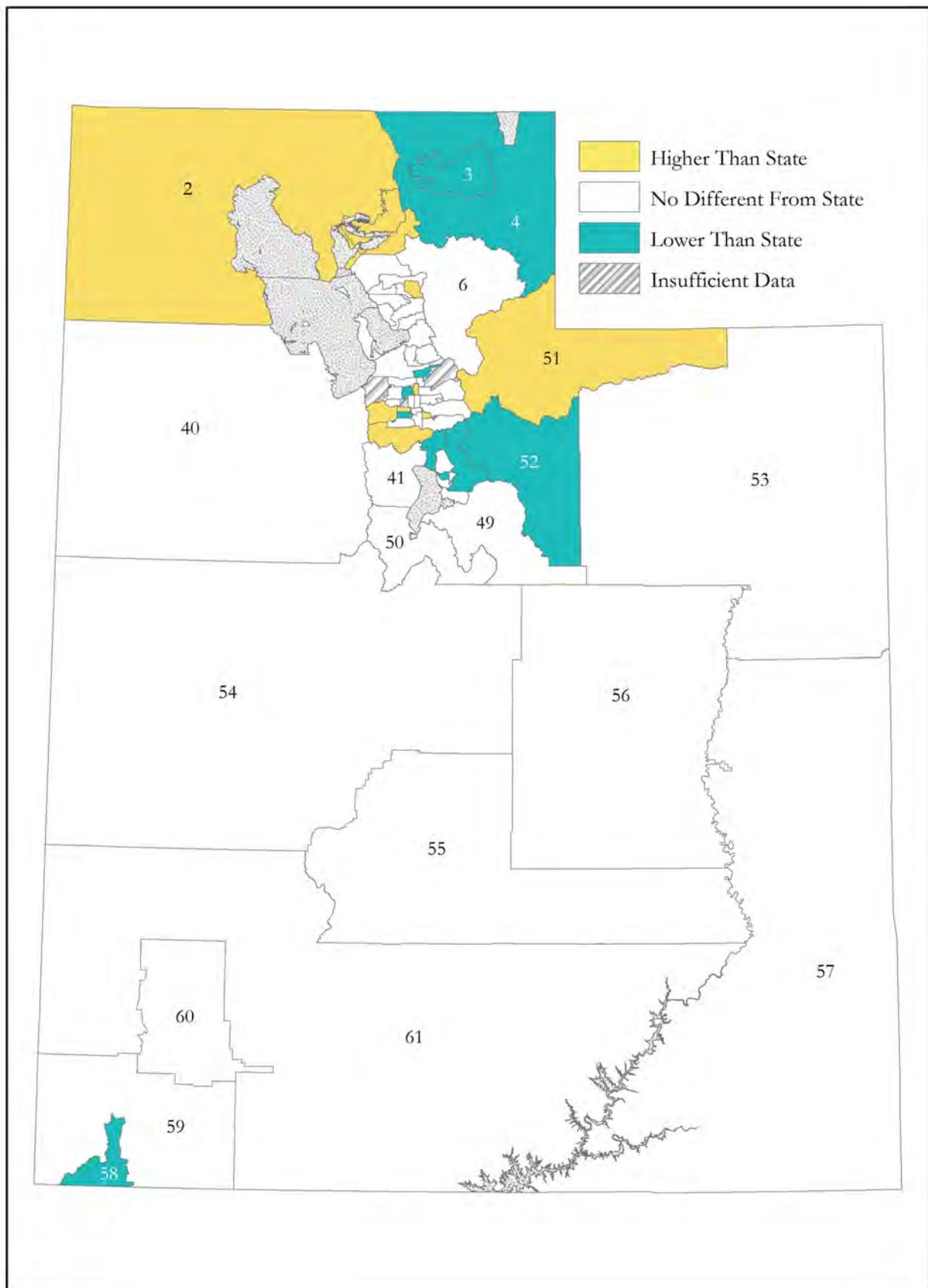
Table 14: Percentage of Adults Taking Action To Control High Blood Pressure by Small Area, Health District, Utah, and U.S., 2011-2012

State Rank <sup>1,*</sup>	Small Area, Health District, Utah, or U.S.	2011-2012 Population with HBP 18+	2011-2012 Adults Controlling HBP	Crude Rate	Age-adjusted Rate	95% Confidence Interval Lower	95% Confidence Interval Upper
	U.S. <sup>†</sup>	74,878,433	57,881,403	77.3	59.7	59.0	60.4
	State of Utah	457,730	319,767	69.9	53.7	51.2	56.2
	Bear River LHD	24,890	16,571	66.6	48.0	41.3	54.8
58	Brigham City (1)	3,690	3,029	82.1*	73.7*	62.9	82.2
56	Box Elder County (Other) (2)	4,540	3,605	79.4*	71.7*	53.9	84.6
6	Cache Co (Oth)/Rich Co (All) (4)	5,910	3,544	60.0	42.3	32.4	52.9
5	Logan (3)	10,460	6,092	58.2	40.9	33.6	48.6
	Central Utah LHD	14,690	11,035	75.1	59.7	49.9	68.8
42	Juab/Millard/Sanpete Counties (54)	88,870	68,063	76.6	61.1	49.6	71.4
39	Sevier/Piute/Wayne Counties (55)	6,300	4,728	75.1	59.7	48.9	69.5
	Davis County LHD	48,950	34,166	69.8	54.2	48.0	60.2
44	Bountiful (16)	7,290	5,598	76.8	62.9	47.7	75.9
45	Clearfield/Hill AFB (11)	11,080	7,185	64.8	63.6	50.2	75.2
17	Farmington/Centerville (14)	4,850	3,612	74.5*	48.3*	42.3	54.4
25	Layton (12)	12,040	8,565	71.1	53.3	44.4	62.1
30	Syracuse/Kaysville (13)	7,810	5,122	65.6	55.0	41.8	67.5
11	Woods Cross/North Salt Lake (15)	5,200	3,228	62.1	44.5	33.5	56.1
	Salt Lake County LHD	173,450	122,143	70.4	53.9	50.3	57.4
21	Cottonwood (28)	7,250	5,057	69.8	50.1	36.1	64.1
27	Holladay (27)	10,150	7,532	74.2	53.5	43.3	63.5
37	Kearns (29) (29.1) <sup>§</sup>	6,320	4,439	70.2	58.2	48.1	67.7
**	Magna (20)	5,230	**	**	**	43.3	86.8
29	Midvale (32)	6,850	4,306	62.9	54.2	42.3	65.7
33	Millcreek (26)	10,320	7,425	71.9	56.5	42.9	69.1
24	Murray (31)	6,090	3,380	55.5	52.4	32.4	71.6
50	Riverton/Draper (39)	13,530	8,922	65.9	65.1	56.1	73.0
7	SLC (Avenues) (18)	3,540	2,107	59.5*	42.7*	37.4	48.2
36	SLC (Downtown) (24)	8,860	5,306	59.9	57.5	47.4	67.1
**	SLC (Foothill/U of U) (19)	3,120	**	**	**	72.4	79.1
8	SLC (Glendale) (21)	4,020	2,248	55.9	43.2	30.4	57.1
43	SLC (Rose Park) (17)	6,800	4,910	72.2*	61.4*	42.8	77.2
35	Sandy Center (36)	9,070	5,786	63.8	57.4	43.4	70.3
48	Sandy (NE) (37)	4,240	3,728	87.9*	64.1*	60.8	67.3
16	Sandy (SE) (38)	4,680	3,199	68.4*	46.6*	33.6	60.0
55	South Jordan (35)	7,440	5,223	70.2	69.6	51.6	83.1
52	South Salt Lake (25)	4,210	3,209	76.2*	68.2*	54.0	79.7
20	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	7,100	5,060	71.3	49.9	38.7	61.2
**	Taylorsville (West) (30.1) <sup>°</sup>	8,310	**	**	**	69.0	91.1
41	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	3,920	2,832	72.3*	60.4*	54.0	66.4
13	West Jordan (SE) (34.1)	3,950	2,962	75.0	46.2	40.1	52.4
59	West Jordan West, Copperton (34.2)	4,730	3,901	82.5*	79.2*	64.1	89.0
10	West Valley East (23) (23.1) <sup>§</sup>	10,710	7,104	66.3	44.1	35.5	53.1
22	West Valley West (22)	12,800	9,229	72.1	51.4	44.7	58.1
	Southeastern Utah LHD	12,790	8,378	65.5	53.2	41.0	65.0
14	Carbon/Emery Counties (56)	7,340	5,149	70.1	46.5	37.9	55.2
51	Grand/San Juan Counties (57)	5,150	3,313	64.3*	65.5*	51.0	77.6
	Southwest Utah LHD	42,980	33,406	77.7	54.9	41.8	67.3
34	Cedar City (60)	8,450	5,624	66.6	57.1	40.0	72.7
12	Southwest LHD (Other) (61)	6,580	5,775	87.8*	45.7*	35.7	56.1
2	St. George (58)	14,490	11,301	78.0	39.7	31.8	48.3
46	Washington Co. (Other) (59)	12,200	9,781	80.2	63.6	47.6	77.0
53	Summit County LHD (51)	5,610	4,275	76.2	68.8	60.2	76.3
40	Tooele County LHD (40)	9,960	7,404	74.3	60.1	52.4	67.3
28	TriCounty LHD (53)	10,840	7,801	72.0	53.7	44.7	62.4
	Utah County LHD	65,340	40,645	62.2	47.9	42.5	53.3
4	American Fork/Alpine (42)	5,760	3,520	61.1	40.6	29.9	52.2
23	Lehi/Cedar Valley (41)	8,820	4,887	55.4	52.0	41.9	62.0
**	Orem East (46)	1,790	**	**	**	64.8	67.9
3	Orem North (44)	6,520	3,185	48.8	39.8	30.2	50.3
57	Orem West (45)	4,420	3,080	69.7*	73.0*	50.1	87.9
18	Pleasant Grove/Lindon (43)	6,630	4,239	63.9	48.9	35.2	62.7
1	Provo North/BYU (47)	7,430	4,808	64.7	28.4	19.5	39.3
26	Provo South (48)	8,210	5,151	62.7	53.3	38.6	67.5
49	Springville/Spanish Fork (49)	9,960	6,740	67.7	64.1	52.1	74.6
15	Utah Co. South (50)	5,450	2,946	54.1	46.5	35.6	57.9
9	Wasatch County LHD (52)	3,960	2,624	66.3	43.2	34.5	52.3
	Weber-Morgan LHD	47,000	33,394	71.1	56.7	47.8	65.1
31	Ben Lomond (5)	12,560	8,817	70.2	55.3	44.8	65.3
19	Morgan Co (All)/Weber Co. (East) (6)	7,450	4,930	66.2	48.9	36.0	61.9
32	Ogden (Downtown) (7)	6,860	4,793	69.9	56.0	39.8	71.0
47	Riverdale (10)	4,860	3,594	74.0*	63.7*	42.3	80.8
38	Roy/Hooper (9)	9,160	6,870	75.0	58.9	50.4	66.8
54	South Ogden (8)	5,550	4,494	81.0	69.0	55.5	79.9

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>†</sup>For this indicator a higher rate means the small area is doing better than the state rate. <sup>‡</sup>2011 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>°</sup>Data are from 2012. <sup>\*</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution.

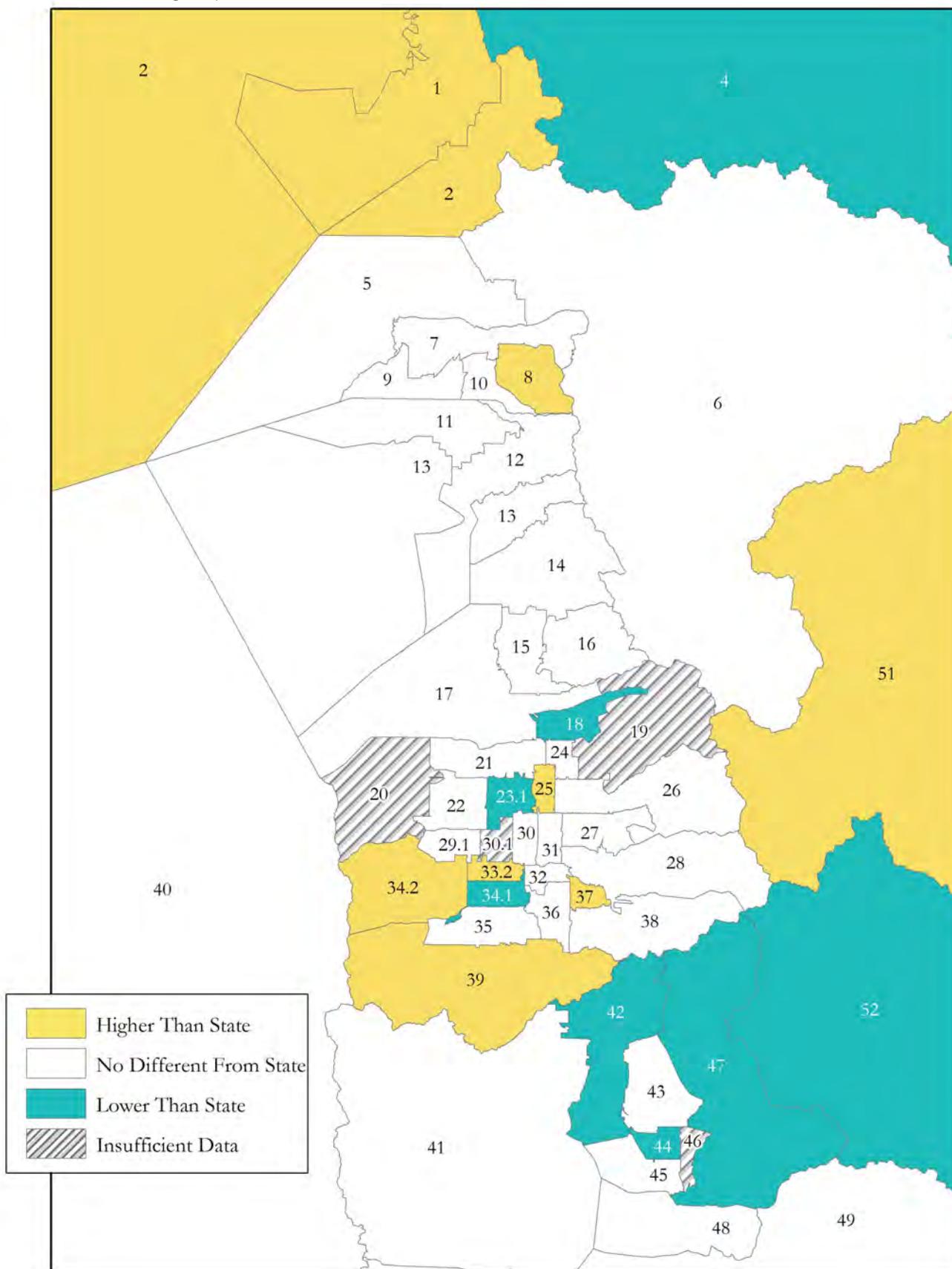
# Adults Controlling High Blood Pressure

Figure 14.1: Percentage of Adults Controlling High Blood Pressure by Small Area, Utah, 2011-2012 (Age-adjusted)



# Adults Controlling High Blood Pressure

Figure 14.2: Percentage of Adults Controlling High Blood Pressure by Small Area, Wasatch Front, Utah, 2011-2012 (Age-adjusted)



# 15. Diabetic Adults Receiving Diabetes Education

## *Indicator Definition*

Percentage of adults with diabetes who have ever had diabetes education.

## *Healthy People 2020 Objective*

D-14: Increase the proportion of persons with diagnosed diabetes who receive formal diabetes education.

- U.S. Target: 62.5 percent
- State Target: 65.5 percent

## *Overview*

About 135,000 Utahns have been diagnosed with diabetes<sup>23</sup>. It is the leading cause of non-traumatic lower-extremity amputation, renal failure, and blindness in adults younger than 75, as well as one of the leading causes of heart disease<sup>24</sup>. The burden of diabetes in the U.S. has increased with the increasing prevalence of obesity. Multiple long-term complications of diabetes can be prevented through improved patient education and self-management, provision of adequate and timely screening services, and medical care. Diabetes Self-Management Classes are evidence-based and have been shown to improve blood sugar control among participants. Diabetes education helps people practice healthy eating, being active, monitoring, taking medication, problem solving, healthy coping, and reducing risks. Diabetes education is conducted in a variety of settings, including clinics, hospital outpatient facilities, and doctor's offices, and diabetes educators are health care professionals.

Among Utah Small Areas from 2009-2012, Pleasant Grove/Lindon had the highest percentage of adults with diabetes who have ever had diabetes education at 84.8 percent; Magna had the lowest at 29.9 percent (age-adjusted).

## *Related Strategic Goal Areas*

This indicator relates to one goal area in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 3: Community-Clinical Linkages
  - Increase the number of Utahns who participate in and complete evidence-based programs in the community by 10% (Objective 1.6)
  - Measure the reach of evidence-based programs in general and high-priority populations (Objective 1.9)

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	
Goal Area 2: Health Care Systems	
Goal Area 3: Community-Clinical Linkages	1.6, 1.9
Goal Area 4: Health Communications	
Goal Area 5: Data and Evaluation	

# Diabetic Adults Receiving Diabetes Education

## *Case in Point: Increasing the Proportion of Adults with Diabetes Education*

(Aligns with Strategic Goal Area 3: Community Clinical Linkages)

Utah's Healthy Living through Environment, Policy, and Improved Clinical Care (EPICC) Program aims to improve health in the state by increasing physical activity, improving nutrition, and improving health care services for adults and children.

The EPICC Program currently certifies 11 Diabetes Self-management Education (DSME) programs. Prior to 2013, programs were certified by the Utah Diabetes Prevention and Control Program, Utah Department of Health. State-certified programs have submitted outcomes data on their DSME patients annually to the Utah Department of Health since 2000. Patient data show a substantial improvement in blood sugar control after participating in an education program. State-certification is gradually being phased out and the EPICC Program is helping programs that are currently certified by the state gain national accreditation through the American Diabetes Association and/or the American Association of Diabetes Educators.

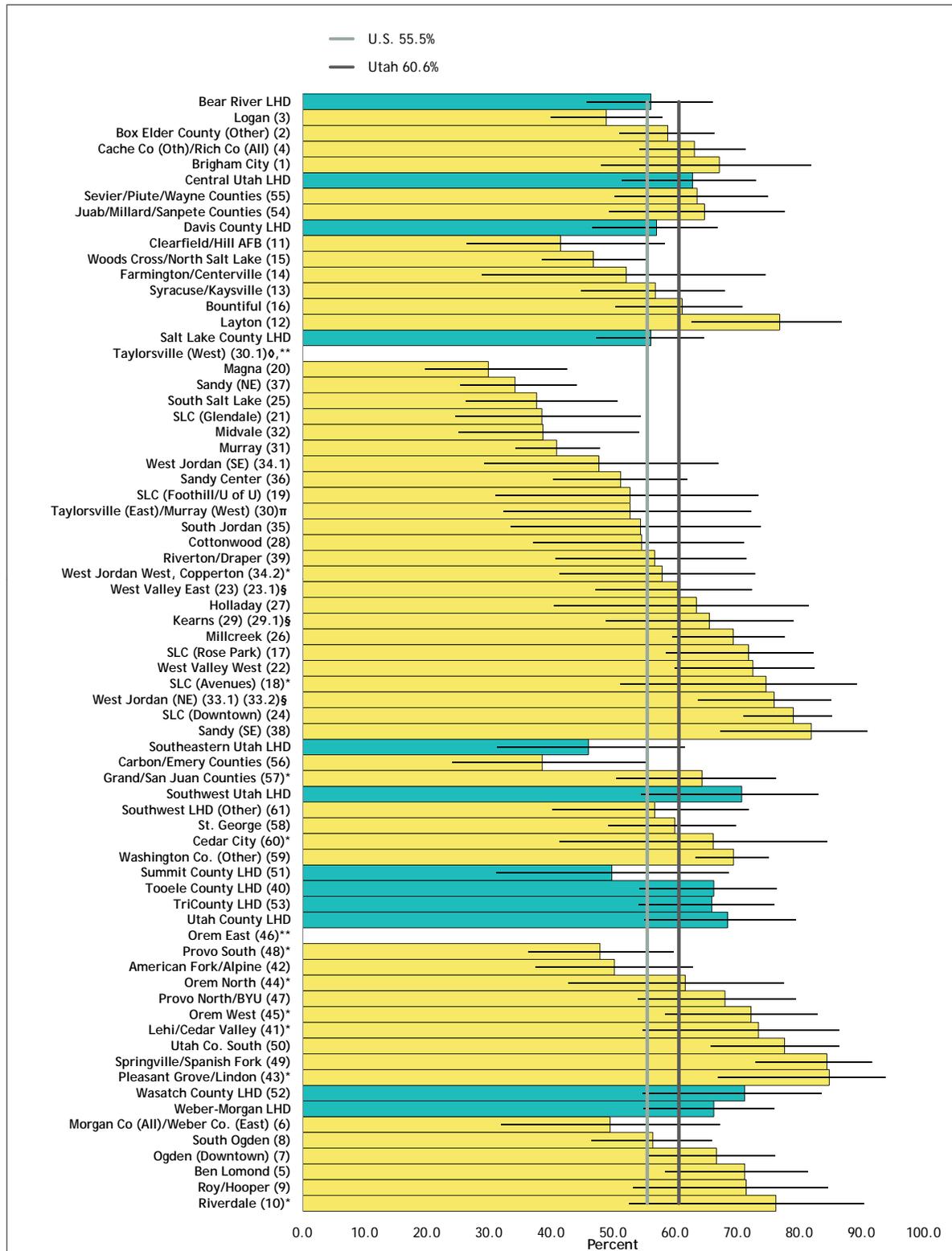
The EPICC Program supports diabetes educators in their efforts to provide quality education for their clients. The EPICC Program hosts the Diabetes Webinar Series to update educators on the most recent innovations and treatments for their patients with diabetes. This program is typically viewed at 60 locations throughout the U.S. monthly. Attendees report high satisfaction with the program and demonstrate a clear increase in knowledge through pre-program and post-program assessments.

Diabetes education is an evidence-based program that has been shown to improve blood sugar control. One of EPICC's goals is to increase the proportion of people with diabetes in targeted settings who have at least one encounter for diabetes education in a program recognized by the American Diabetes Association, American Association of Diabetes Educators or state-certified program, or Stanford licensed Diabetes Self-Management Program. While formal DSME is taught by a health care provider, typically a nurse, pharmacist, or certified diabetes educator, Stanford programs are available at low or no charge and are conducted by lay health personnel.

Additional information may be found at <http://choosehealth.utah.gov>.

# Diabetic Adults Receiving Diabetes Education

Figure 15: Percentage of Diabetic Adults Receiving Diabetes Education by Small Area, Health District, Utah, and U.S., 2009-2012 (Age-adjusted)



¶For this indicator a higher rate means the small area is doing better than the state rate. §In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). πIn 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). †Data are from 2012. \*Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. \*\*The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

# Diabetic Adults Receiving Diabetes Education

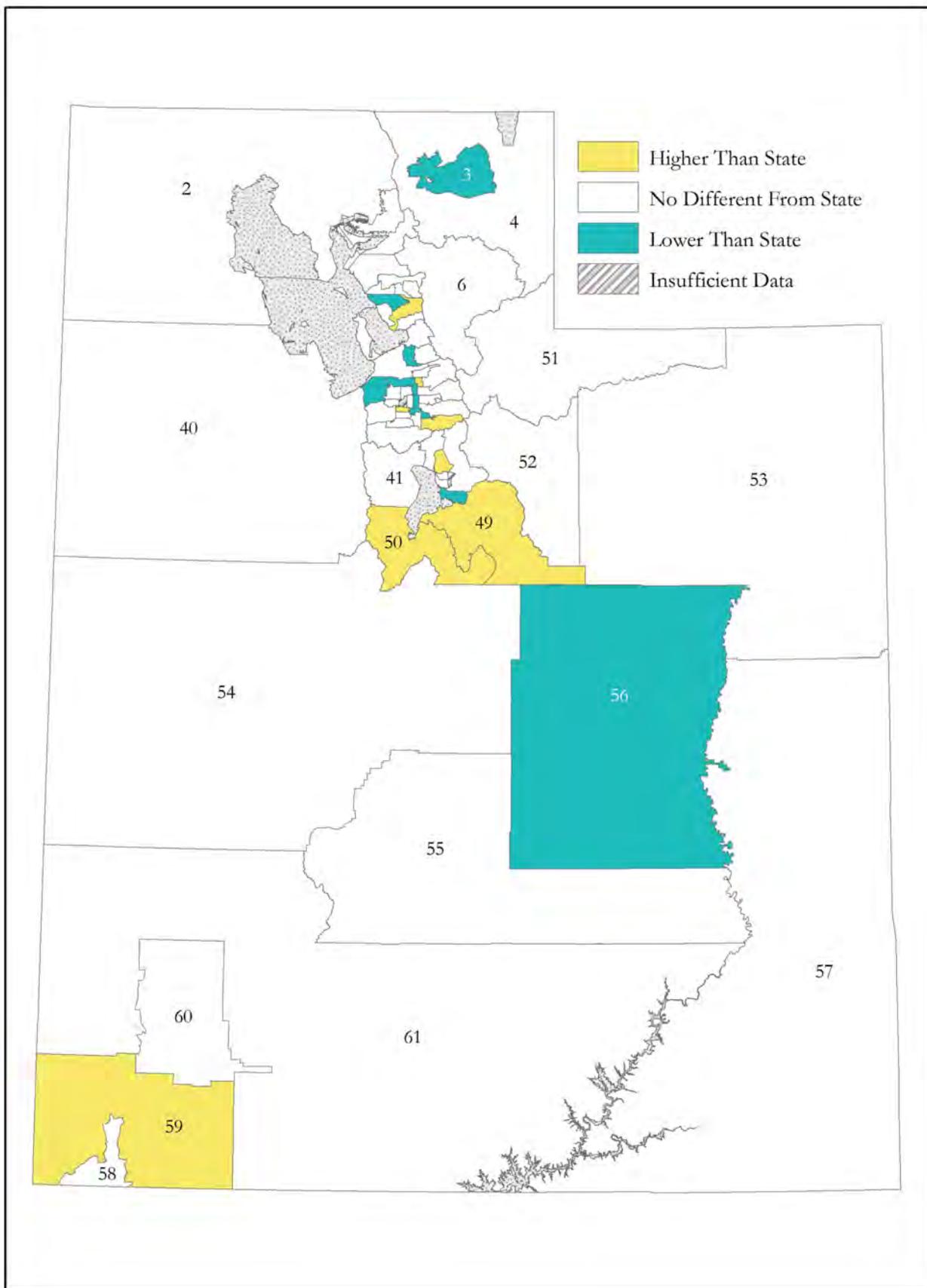
Table 15: Percentage of Diabetic Adults Receiving Diabetes Education by Small Area, Health District, Utah, and U.S., 2009-2012

State Rank <sup>1,*</sup>	Small Area, Health District, Utah, or U.S.	2012 Diabetic Population 18+	2009-2012 Adults with Diabetes Education	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
						Lower	Upper
	U.S.	133,216,736	73,381,640	55.1	55.5	53.2	57.7
	State of Utah	129,660	78,118	60.2	60.6	55.2	65.7
	Bear River LHD	7,420	3,858	52.0	56.1	45.7	66.0
42	Brigham City (1)	1,250	833	66.6	67.1	48.0	81.8
27	Box Elder County (Other) (2)	1,020	509	49.9	58.8	50.9	66.2
32	Cache Co (Oth)/Rich Co (All) (4)	1,790	943	52.7	63.1	54.1	71.2
12	Logan (3)	3,310	1,449	43.8	48.9	40.0	58.0
	Central Utah LHD	4,200	2,188	52.1	62.8	51.4	73.0
36	Juab/Millard/Sanpete Counties (54)	26,160	16,600	63.5	64.7	49.3	77.5
34	Sevier/Piute/Wayne Counties (55)	1,630	617	37.8	63.5	50.3	74.9
	Davis County LHD	13,090	7,895	60.3	57.0	46.6	66.7
30	Bountiful (16)	2,090	1,074	51.4	61.1	50.4	70.9
8	Clearfield/Hill AFB (11)	2,940	1,485	50.5	41.5	26.5	58.3
17	Farmington/Centerville (14)	830	356	42.9	52.1	28.8	74.4
56	Layton (12)	4,270	3,110	72.8	76.8	62.7	86.8
25	Syracuse/Kaysville (13)	1,920	1,328	69.2	56.8	44.9	68.0
9	Woods Cross/North Salt Lake (15)	1,060	523	49.3	46.8	38.5	55.2
	Salt Lake County LHD	51,790	29,825	57.6	56.1	47.3	64.6
21	Cottonwood (28)	2,270	1,363	60.0	54.6	37.1	71.1
33	Holladay (27)*	1,930	1,207	62.5*	63.4*	40.5	81.5
37	Kearns (29) (29.1) <sup>§</sup>	1,810	1,067	58.9	65.5	48.8	79.0
1	Magna (20)	1,890	675	35.7	29.9	19.7	42.6
6	Midvale (32)	2,010	1,110	55.2	38.7	25.2	54.2
44	Millcreek (26)	2,440	1,314	53.9	69.3	59.5	77.6
7	Murray (31)	1,880	1,019	54.2	40.9	34.3	47.9
23	Riverton/Draper (39)	3,650	2,080	57.0	56.7	40.7	71.4
53	SLC (Avenues) (18)*	1,070	767	71.7*	74.6*	51.1	89.2
58	SLC (Downtown) (24)	3,190	2,120	66.5	79.0	71.0	85.2
18	SLC (Foothill/U of U) (19)	970	477	49.2	52.7	31.1	73.3
4	SLC (Glendale) (21)	1,560	861	55.2	38.5	24.7	54.5
49	SLC (Rose Park) (17)	1,710	1,187	69.4	71.8	58.4	82.2
16	Sandy Center (36)	2,560	1,183	46.2	51.2	40.3	61.9
2	Sandy (NE) (37)	1,100	561	51.0	34.2	25.5	44.2
59	Sandy (SE) (38)	1,510	1,074	71.1*	81.9*	67.3	90.8
20	South Jordan (35)	1,700	1,014	59.7	54.4	33.6	73.8
3	South Salt Lake (25)	2,140	1,345	62.9	37.7	26.3	50.6
19	Taylorsville (East)/Murray (West) (30) <sup>m</sup>	2,170	1,230	56.7	52.7	32.3	72.2
**	Taylorsville (West) (30.1) <sup>o</sup>	2,120	**	**	**	**	**
54	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	1,300	752	57.9	75.9	63.6	85.0
10	West Jordan (SE) (34.1)	1,210	624	51.6	47.7	29.2	66.9
26	West Jordan West, Copperton (34.2)	880	446	50.7	57.9	41.4	72.8
29	West Valley East (23) (23.1) <sup>§</sup>	3,000	1,440	48.0	60.4	47.2	72.3
51	West Valley West (22)	4,800	3,258	67.9	72.5	59.8	82.3
	Southeastern Utah LHD	3,700	1,844	49.8	46.0	31.2	61.5
5	Carbon/Emery Counties (56)	2,060	804	39.1	38.6	24.2	55.5
35	Grand/San Juan Counties (57)	1,550	1,043	67.3	64.3	50.4	76.1
	Southwest Utah LHD	10,670	6,704	62.8	70.7	54.4	83.0
39	Cedar City (60)	1,830	1,286	70.3*	66.1*	41.2	84.4
24	Southwest LHD (Other) (61)	2,090	978	46.8	56.7	40.2	71.8
28	St. George (58)	3,280	2,086	63.6	59.9	49.2	69.7
45	Washington Co. (Other) (59)	3,320	2,198	66.2	69.4	63.2	75.0
14	Summit County LHD (51)	770	417	54.1	49.8	31.1	68.5
40	Tooele County LHD (40)	3,100	2,052	66.2	66.2	54.2	76.3
38	TriCounty LHD (53)	3,170	1,913	60.3	65.9	54.1	76.0
	Utah County LHD	17,700	12,327	69.6	68.4	55.0	79.4
15	American Fork/Alpine (42)	1,850	1,094	59.1	50.2	37.5	62.9
52	Lehi/Cedar Valley (41)	2,390	1,633	68.3*	73.4*	54.6	86.3
**	Orem East (46)	**	**	**	**	**	**
31	Orem North (44)	1,340	888	66.3	61.6	42.8	77.4
50	Orem West (45)	1,800	1,212	67.3	72.2	58.3	82.9
61	Pleasant Grove/Lindon (43)	1,210	978	80.8*	84.8*	67.0	93.9
43	Provo North/BYU (47)	2,050	1,074	52.4	68.0	54.0	79.4
11	Provo South (48)	2,920	1,761	60.3	47.9	36.4	59.7
60	Springville/Spanish Fork (49)	2,480	1,901	76.7*	84.4*	72.9	91.6
57	Utah Co. South (50)	1,600	1,206	75.4	77.6	65.6	86.2
46	Wasatch County LHD (52)*	950	561	59.0	71.2	54.7	83.5
	Weber-Morgan LHD	14,390	9,182	63.8	66.2	54.9	76.0
47	Ben Lomond (5)	3,870	2,587	66.9	71.2	58.4	81.4
13	Morgan Co (All)/Weber Co. (East) (6)	2,130	1,082	50.8	49.5	31.9	67.1
41	Ogden (Downtown) (7)	1,960	1,312	67.0	66.6	55.6	76.1
55	Riverdale (10)	1,650	1,285	77.9*	76.2*	52.5	90.2
48	Roy/Hooper (9)	3,080	1,960	63.6	71.4	53.3	84.6
22	South Ogden (8)	1,630	1,074	65.9	56.4	46.5	65.9

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>2</sup>For this indicator a higher rate means the small area is doing better than the state rate. <sup>3</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>4</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>5</sup>Data are from 2012. <sup>6</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. <sup>7</sup>The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

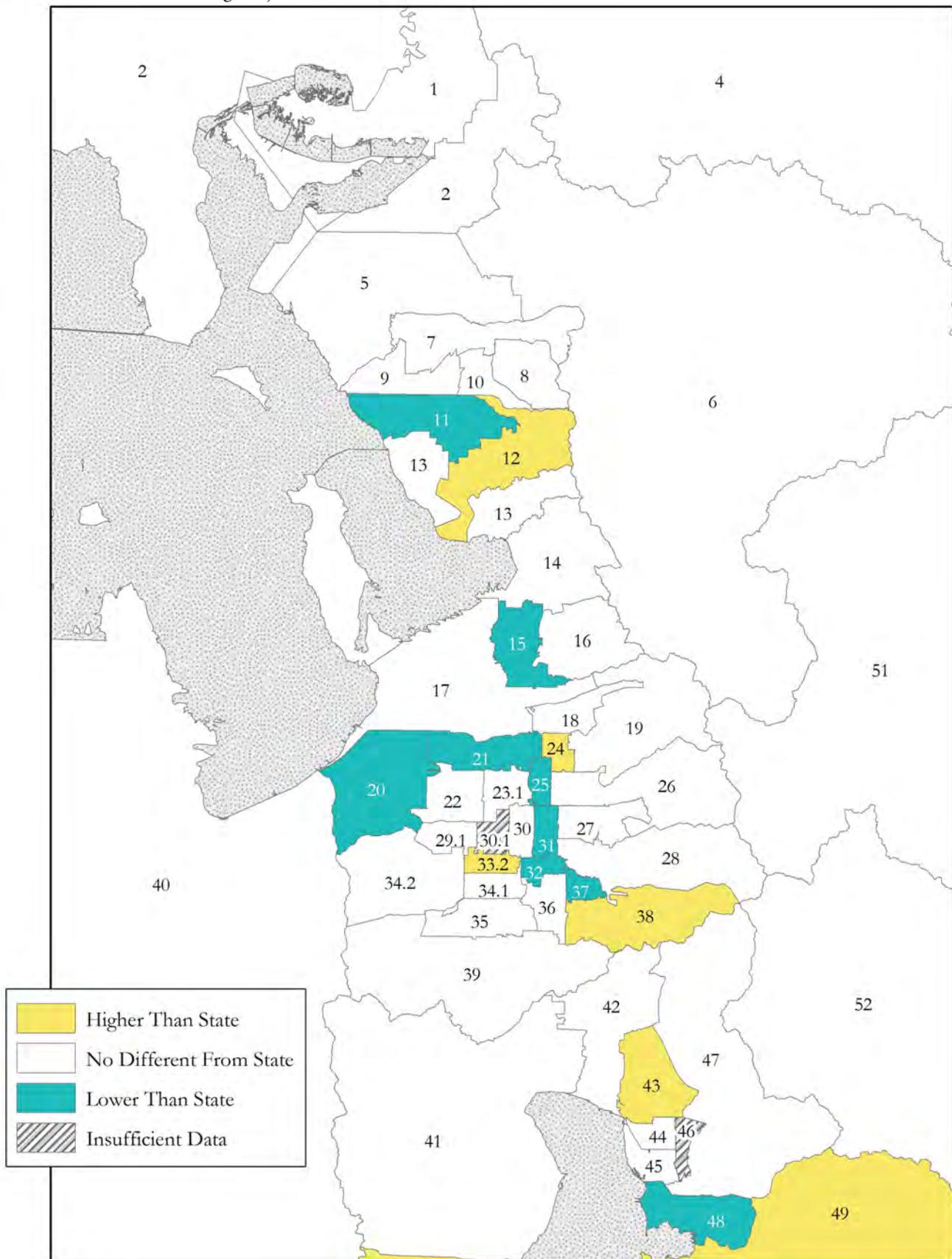
# Diabetic Adults Receiving Diabetes Education

Figure 15.1: Percentage of Diabetic Adults Receiving Diabetes Education by Small Area, Utah, 2009-2012 (Age-adjusted)



# Diabetic Adults Receiving Diabetes Education

Figure 15.2: Percentage of Diabetic Adults Receiving Diabetes Education by Small Area, Wasatch Front, Utah, 2009-2012 (Age-adjusted)



# 16. Asthma Emergency Department Visits

## *Indicator Definition*

Emergency department visits due to asthma (ICD-9 code 493) per 10,000 Utah residents.

## *Healthy People 2020 Objective*

RD-3: Reduce hospital emergency department visits for asthma:

RD-3.1: Children under age 5 years

- U.S. Target: 95.5 emergency department visits per 10,000
- Utah Target: 46.7 ED visits per 10,000

RD-3.2: Children and adults aged 5 to 64 years

- U.S. Target: 49.1 emergency department visits per 10,000
- Utah Target: 21.2 ED visits per 10,000

RD-3.3: Adults aged 65 years and older

- U.S. Target: 13.8 emergency department visits per 10,000
- Utah Target: 16.3 ED visits per 10,000

## *Overview*

In 2011, Utah's overall emergency department visit rate due to asthma was 21.3 per 10,000 population. Monitoring rates of emergency department visits can aid in identifying populations or areas with inadequate access to routine medical care. Asthma attacks can require emergency department visits and can be triggered by a variety of exposures, including environmental tobacco smoke, dust mites, mold, pets, strenuous exercise, and air pollution. Asthma can usually be managed in an outpatient setting, reducing the need for emergency department visits. Effective management of asthma includes control of exposures to factors that trigger exacerbations, adequate pharmacological management, continual monitoring, and patient education<sup>25</sup>.

Among Utah Small Areas in 2010 and 2011, Murray small area had the highest rate of emergency department visits due to asthma per 10,000 Utah residents, with an age-adjusted rate of 47.9, and Provo North/BYU small area had the lowest age-adjusted rate at 7.2.

## *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 2: Health Care Systems
  - Create a process for coordinating and promoting trainings for providers about current guidelines and referrals for chronic disease prevention and management and injury prevention (Objective 1.5)

# Asthma Emergency Department Visits

Strategic Goal Area	Related Objectives
Goal Area 1: Environmental Approaches that Promote Health	2.3, 2.8, 3.2, 3.4, 3.5, 3.6, 3.9, 3.10, 4.6, 4.14
Goal Area 2: Health Care Systems	1.1, 1.5, 1.10, 1.11
Goal Area 3: Community Clinical Linkages	1.1, 1.2, 1.3, 1.6
Goal Area 4: Health Communications	1.1, 1.6, 1.7, 1.8, 1.9, 1.11
Goal Area 5: Data and Evaluation	

***Case In Point: Educating Healthcare Providers on National Asthma Education and Prevention Program (NAEPP) Guidelines and Resources While Reducing Exposure to Home Triggers in Those with Asthma***

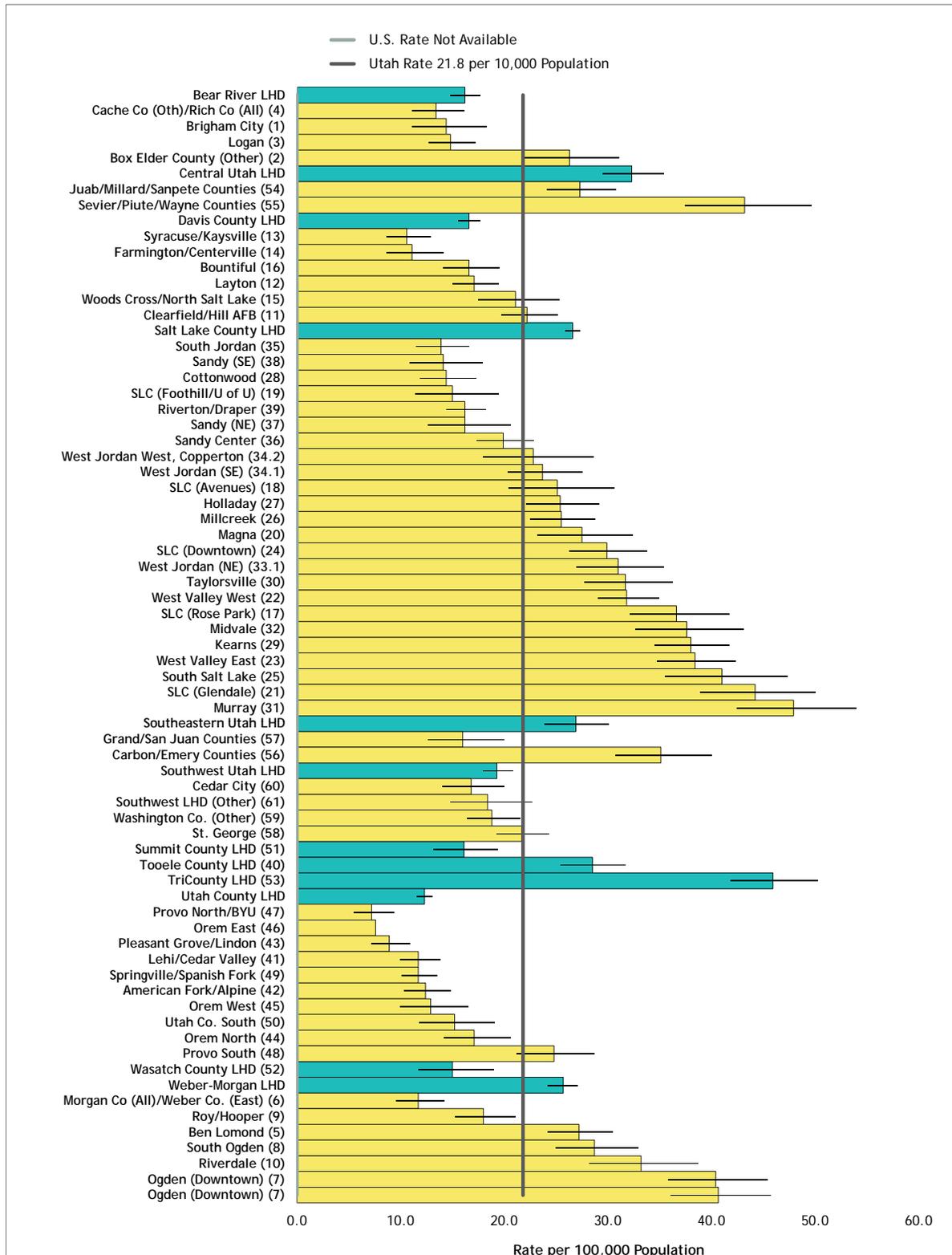
(Aligns with Strategic Goal Area 2: Health Care Systems)

The Utah Asthma Telehealth program, initiated in February 2010, is an asthma education series designed to keep health care professionals abreast of the latest information in asthma care and education. Participation is available via video conference, telephone, and live web streaming. Free continuing education (CE) credit is available to participating nurses and respiratory therapists. The Utah Asthma Program conducts 3-4 sessions per year on various asthma-related topics based on National Asthma Education and Prevention Program (NAEPP) guidelines. On average, about 50 providers attend each session.

A recent Telehealth program presented national resources and asthma management guidelines from the NAEPP to health care providers. Specifically, the materials included methods of addressing environmental controls so that health care providers could teach their patients with asthma ways to reduce trigger exposures inside and outside the home. This Telehealth is just one of many presentations that have used NAEPP guidelines as the basis of the presentation to educate health care providers on evidence-based guidelines that help to improve quality of life for those with asthma. Examples of past sessions include obesity and asthma, childhood versus adult-onset asthma, allergy testing, secondhand smoke and asthma, spirometry, and difficult-to-control asthma. The sessions can be viewed anytime online at <http://www.utahtelehealth.net/education/asthma.html>.

# Asthma Emergency Department Visits

Figure 16: Asthma Emergency Department Visits per 10,000 Population by Small Area, Health District, Utah, and U.S., 2010-2011 (Age-adjusted)



§In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). ¶In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A).

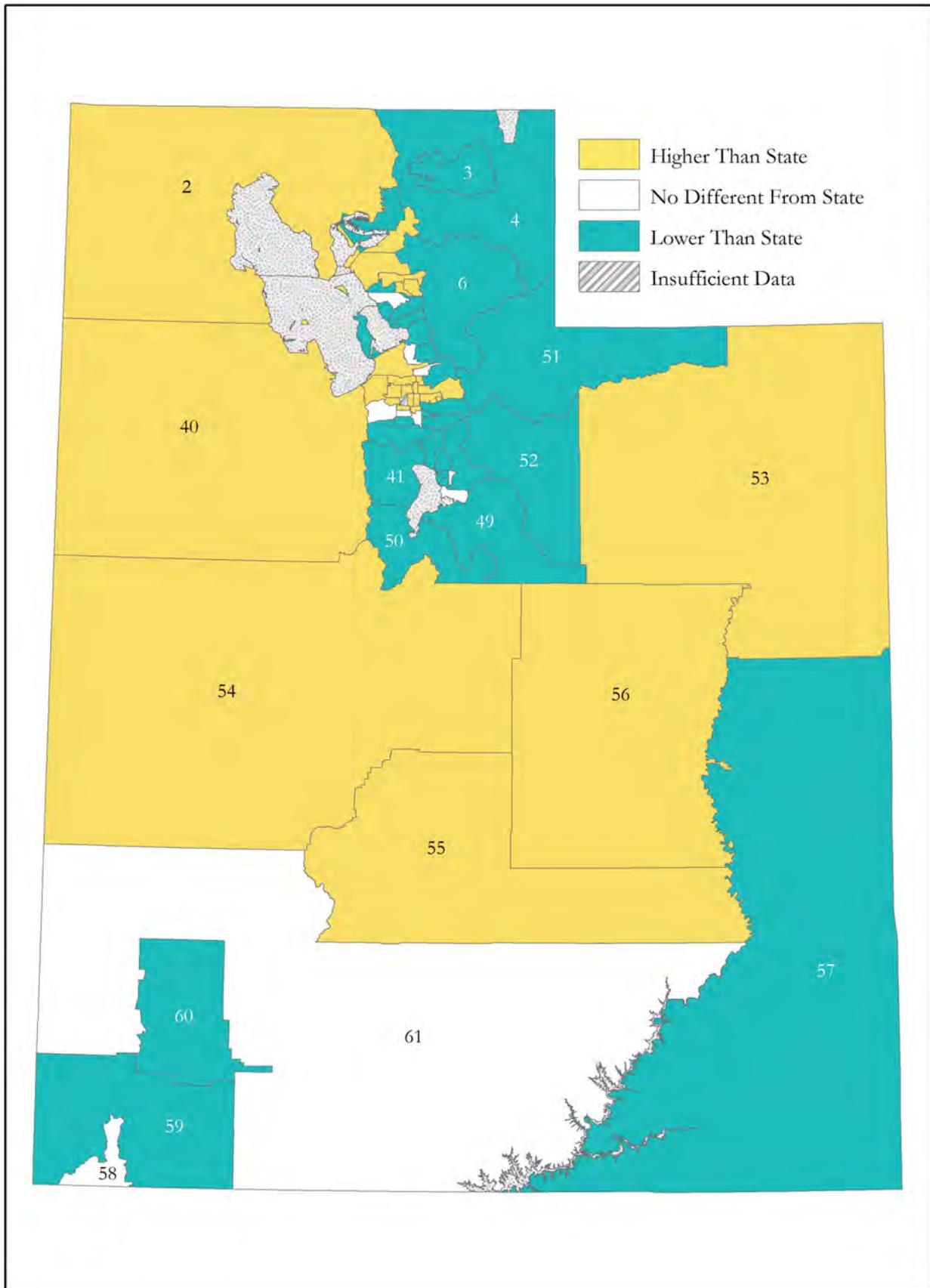
# Asthma Emergency Department Visits

State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2010-2011 Population	2010-2011 Asthma ED Visits	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
						Lower	Upper
	U.S. <sup>†</sup>	--	--	--	--	--	--
	State of Utah	5,589,440	12,453	22.3	21.8	21.3	22.2
	Bear River LHD	332,732	552	16.6	16.2	14.8	17.7
15	Brigham City (1)	47,329	69	14.6	14.4	11.2	18.3
41	Box Elder County (Other) (2)	53,004	144	27.2	26.3	22.0	31.1
11	Cache Co (Oth)/Rich Co (All) (4)	86,635	129	14.9	13.4	11.1	16.1
16	Logan (3)	145,796	209	14.3	14.8	12.7	17.2
	Central Utah LHD	151,876	494	32.5	32.3	29.5	35.4
43	Juab/Millard/Sanpete Counties (54)	101,602	278	27.4	27.3	24.1	30.8
59	Sevier/Piute/Wayne Counties (55)	50,320	216	42.9	43.2	37.4	49.6
	Davis County LHD	619,746	1,053	17.0	16.6	15.6	17.7
24	Bountiful (16)	90,601	155	17.1	16.6	14.1	19.5
34	Clearfield/Hill AFB (11)	136,018	308	22.6	22.2	19.7	25.1
5	Farmington/Centerville (14)	68,065	78	11.5	11.1	8.7	13.9
26	Layton (12)	147,838	254	17.2	17.1	15.0	19.4
4	Syracuse/Kaysville (13)	116,552	119	10.2	10.6	8.6	12.9
32	Woods Cross/North Salt Lake (15)	60,566	136	22.5	21.1	17.5	25.3
	Salt Lake County LHD	2,080,942	5,653	27.2	26.6	25.9	27.3
14	Cottonwood (28)	88,222	122	13.8	14.4	11.9	17.3
39	Holladay (27)	91,972	220	23.9	25.4	22.1	29.1
55	Kearns (29)	134,370	504	37.5	38.0	34.5	41.7
44	Magna (20)	53,480	160	29.9	27.5	23.2	32.4
54	Midvale (32)	57,205	216	37.8	37.6	32.7	43.1
40	Millcreek (26)	113,431	275	24.2	25.5	22.5	28.8
62	Murray (31)	62,992	290	46.0	47.9	42.4	53.9
23	Riverton/Draper (39)	227,521	383	16.8	16.2	14.4	18.2
38	SLC (Avenues) (18)	43,002	91	21.2	25.1	19.9	31.1
47	SLC (Downtown) (24)	101,088	293	29.0	29.9	26.3	33.8
18	SLC (Foothill/U of U) (19)	45,893	61	13.3	15.0	11.4	19.4
60	SLC (Glendale) (21)	60,149	272	45.2	44.2	38.9	50.0
53	SLC (Rose Park) (17)	67,794	252	37.2	36.6	32.1	41.7
31	Sandy Center (36)	106,335	215	20.2	19.9	17.3	22.8
22	Sandy (NE) (37)	43,338	67	15.5	16.2	12.5	20.7
13	Sandy (SE) (38)	59,519	80	13.4	14.1	11.0	17.8
12	South Jordan (35)	103,564	139	13.4	13.9	11.5	16.6
58	South Salt Lake (25)	50,743	209	41.2	41.0	35.5	47.3
49	Taylorsville (30)	74,267	237	31.9	31.7	27.7	36.2
48	West Jordan (NE) (33.1)	72,990	233	31.9	31.0	27.0	35.4
36	West Jordan (SE) (34.1)	71,796	184	25.6	23.7	20.3	27.5
35	West Jordan West, Copperton (34.2)	85,346	163	19.1	22.8	17.9	28.6
56	West Valley East (23)	108,194	431	39.8	38.4	34.7	42.3
50	West Valley West (22)	157,166	521	33.1	31.8	29.0	34.9
	Southeastern Utah LHD	112,917	312	27.6	26.9	23.9	30.1
52	Carbon/Emery Counties (56)	64,719	234	36.2	35.1	30.7	40.0
20	Grand/San Juan Counties (57)	48,221	78	16.2	16.0	12.6	20.1
	Southwest Utah LHD	410,818	783	19.1	19.3	17.9	20.8
25	Cedar City (60)	82,600	140	16.9	16.8	14.0	20.0
29	Southwest LHD (Other) (61)	48,261	84	17.4	18.4	14.6	22.9
33	St. George (58)	151,581	325	21.4	21.7	19.3	24.3
30	Washington Co. (Other) (59)	128,396	234	18.2	18.8	16.4	21.5
21	Summit County LHD (51)	73,919	115	15.6	16.1	13.2	19.4
45	Tooele County LHD (40)	117,794	344	29.2	28.5	25.4	31.7
61	TriCounty LHD (53)	105,305	497	47.2	45.9	41.8	50.2
	Utah County LHD	1,049,936	1,323	12.6	12.3	11.6	13.1
9	American Fork/Alpine (42)	106,344	136	12.8	12.4	10.3	14.8
6	Lehi/Cedar Valley (41)	182,185	234	12.8	11.7	9.9	13.8
2	Orem East (46)	42,973	35	8.1	7.6	5.3	10.7
27	Orem North (44)	74,483	131	17.6	17.1	14.2	20.6
10	Orem West (45)	62,366	69	11.1	12.9	9.8	16.6
3	Pleasant Grove/Lindon (43)	108,619	107	9.9	8.9	7.2	11.0
1	Provo North/BYU (47)	100,736	59	5.9	7.2	5.2	9.7
37	Provo South (48)	129,555	233	18.0	24.8	21.2	28.7
8	Springville/Spanish Fork (49)	171,393	209	12.2	11.7	10.1	13.5
19	Utah Co. South (50)	71,356	110	15.4	15.2	12.3	18.5
17	Wasatch County LHD (52)	48,025	75	15.6	15.0	11.7	19.0
	Weber-Morgan LHD	485,430	1,252	25.8	25.7	24.2	27.1
42	Ben Lomond (5)	113,583	307	27.0	27.2	24.2	30.5
7	Morgan Co (All)/Weber Co. (East) (6)	85,806	102	11.9	11.7	9.5	14.3
57	Ogden (Downtown) (7)	72,487	296	40.8	40.4	35.8	45.4
51	Riverdale (10)	51,869	169	32.6	33.2	28.2	38.7
28	Roy/Hooper (9)	88,162	166	18.8	18.0	15.3	21.1
46	South Ogden (8)	73,531	212	28.8	28.7	24.9	32.9

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>†</sup>U.S. rates not available.

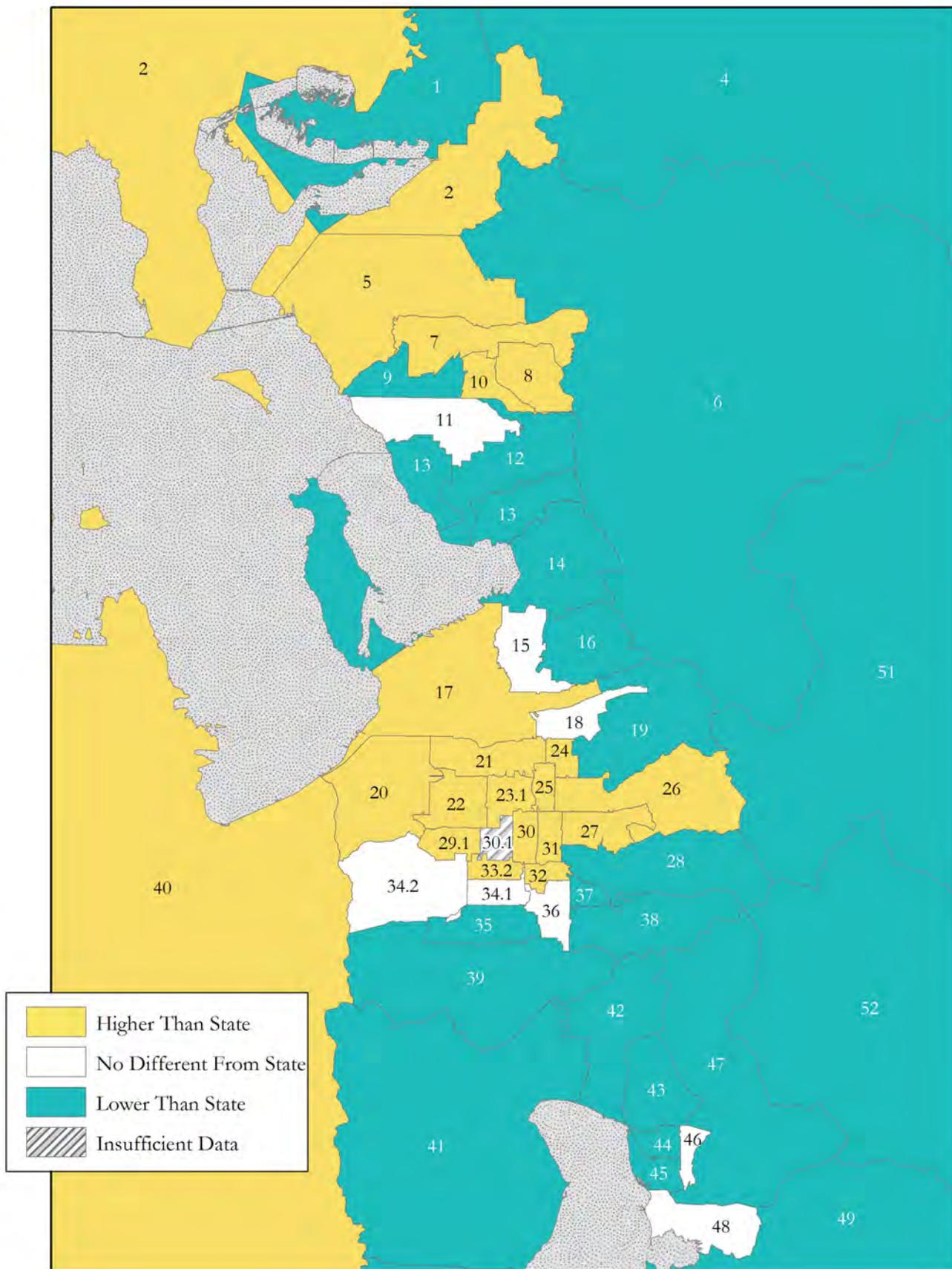
# Asthma Emergency Department Visits

Figure 16.1: Asthma Emergency Department Visits per 10,000 Population by Small Area, Utah, 2011-2012 (Age-adjusted)



# Asthma Emergency Department Visits

Figure 16.2: Asthma Emergency Department Visits per 10,000 Population by Small Area, Wasatch Front, Utah, 2011-2012 (Age-adjusted)



# 17. Adults with Arthritis Limited by Arthritis

## *Indicator Definition*

Utah adults 18 and older with doctor-diagnosed arthritis who report limiting any activities because of their arthritis.

## *Healthy People 2020 Objective*

AOCBC-2: Reduce the proportion of adults with doctor-diagnosed arthritis who experience a limitation in activity due to arthritis or joint symptoms.

- U.S. Target: 35.5 percent
- State Target: 37.0 percent

## *Overview*

In 2011, the age-adjusted rate of activity limitation due to arthritis was 48.1 percent in Utah. Monitoring the prevalence of arthritis-attributable activity limitation among adults is important for estimating the need for intervention programs and evaluating how well existing programs are working. Arthritis-attributable activity limitation can be prevented or reduced in many persons by participating in aerobic and strengthening exercises and self-management education classes. The risk of arthritis is linked to being overweight and obese and to physical inactivity.

Among Utah Small Areas in 2009 and 2011, Pleasant Grove/Lindon small area had the highest prevalence of adults aged 18 or older with arthritis who reported their activities are limited (84.8 percent) due to arthritis. Magna small area had the lowest prevalence at 29.9 percent.

## *Related Strategic Goal Areas*

This indicator relates to several goal areas in the Utah Chronic Disease Prevention and Health Promotion State Plan. The highlighted goal area relates to the Case in Point.

- Strategic Goal Area 4: Health Communications
  - The public is aware of services available to manage chronic diseases and injury prevention (e.g., chronic disease self-management classes, the Tobacco Quit Line and violence and injury hotlines) (Objective 1.9)

<b>Strategic Goal Area</b>	<b>Related Objectives</b>
Goal Area 1: Environmental Approaches that Promote Health	5.1, 5.4, 5.6
Goal Area 2: Health Care Systems	1.1, 1.5, 1.6
Goal Area 3: Community Clinical Linkages	1.6, 1.8, 1.9, 1.10
Goal Area 4: Health Communications	1.9
Goal Area 5: Data and Evaluation	

## *Case In Point: Decreasing the Proportion of Adults with Arthritis who Report Limiting their Activities Due to their Arthritis*

(Aligns with Strategic Goal Area 4: Health Communications)

In 2011, nearly half (49.7% crude rate) of Utah adults who reported arthritis revealed they limited their usual activities due to their arthritis<sup>26</sup>. Despite the known benefits of physical activity for persons with arthritis, one in four (25.3%) Utah adults with arthritis do not meet the recommended requirements for physical activity, and 25.5 percent report no leisure time physical activity<sup>27</sup>.

In 2011, the Utah Arthritis Program examined rates of arthritis for each small area. The highest age-adjusted prevalence of arthritis was found in Murray City small area (31.8%)<sup>26</sup>. Therefore, Murray was selected as the target area for a media campaign focused on increasing physical activity among people with arthritis, entitled: “Physical Activity. The Arthritis Pain Reliever.” The campaign was designed to:

- Raise awareness of physical activity as a way to manage arthritis pain and increase function;
- Enhance understanding of how to use physical activity to ease arthritis symptoms and prevent further disability;
- Boost the confidence of people with arthritis so they can be physically active; and
- Increase physical activity behaviors among people with arthritis.

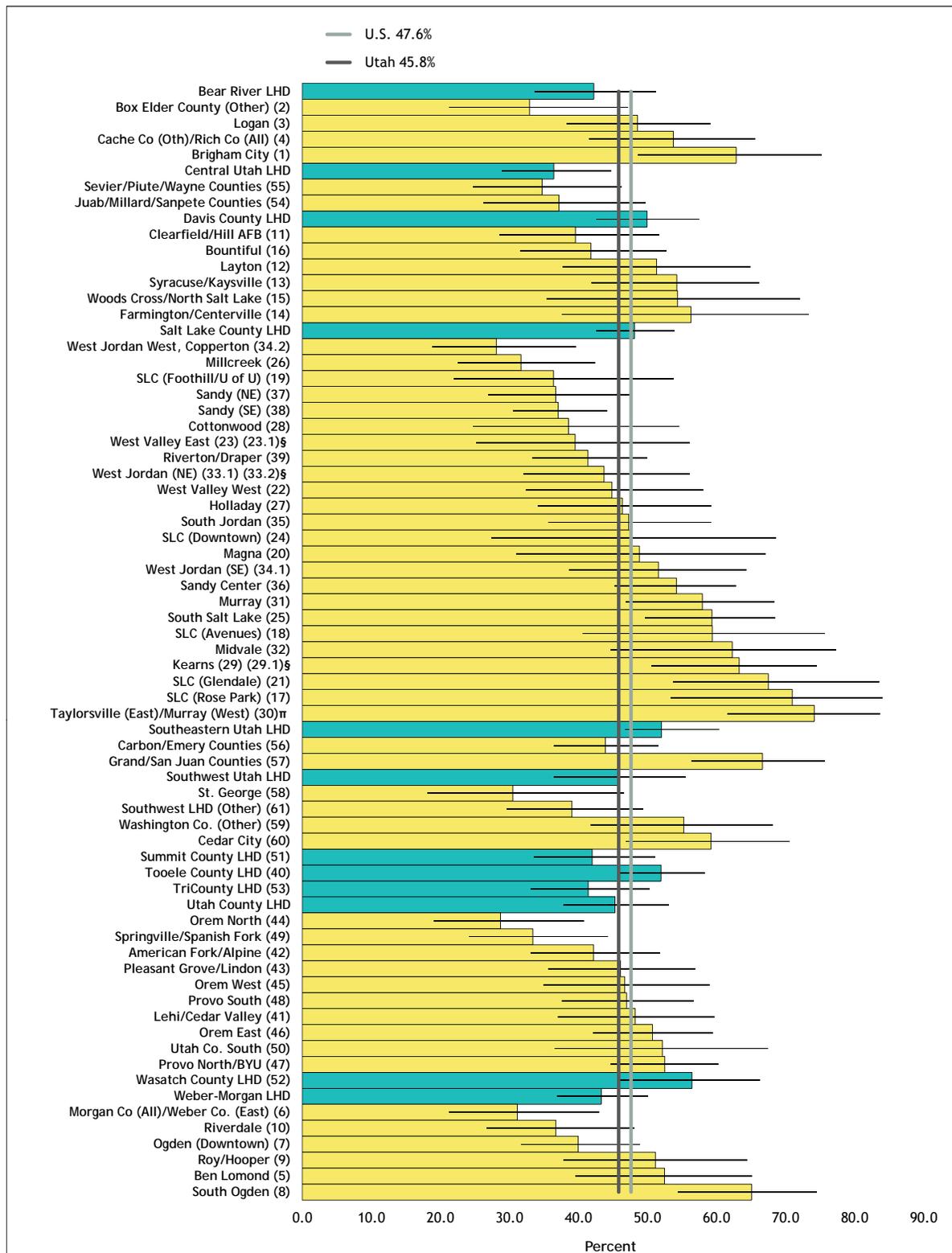
The media campaign ran for 10 weeks during May-July 2013 in Murray. The campaign included a successful combination of newspaper stories, bus boards, bus shelter placards, brochures, and postcard mailings. Total reach and impressions were 6,566,541.

### Media Coverage

- Online article - Fox 13 News – Salt Lake City, UT, May 28, 2013: <http://fox13now.com/2013/05/28/centers-for-disease-control-and-prevention-advise-walking-for-arthritis/>
- Newspaper - Standard Examiner – Ogden, UT, June 2, 2013: <http://www.standard.net/stories/2013/06/02/400000-utahns-arthritis-urged-walk-exercise-more>
- TV Spot – KUTV Channel 2, Check Your Health spot: [http://www.kutv.com/news/features/guests/stories/vid\\_1526.shtml](http://www.kutv.com/news/features/guests/stories/vid_1526.shtml)

# Adults with Arthritis Limited by Arthritis

Figure 17: Percentage of Adults with Arthritis Limited by Arthritis by Small Area, Health District, Utah, and U.S., 2009, 2011 (Age-adjusted)



†State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state.

# Adults with Arthritis Limited by Arthritis

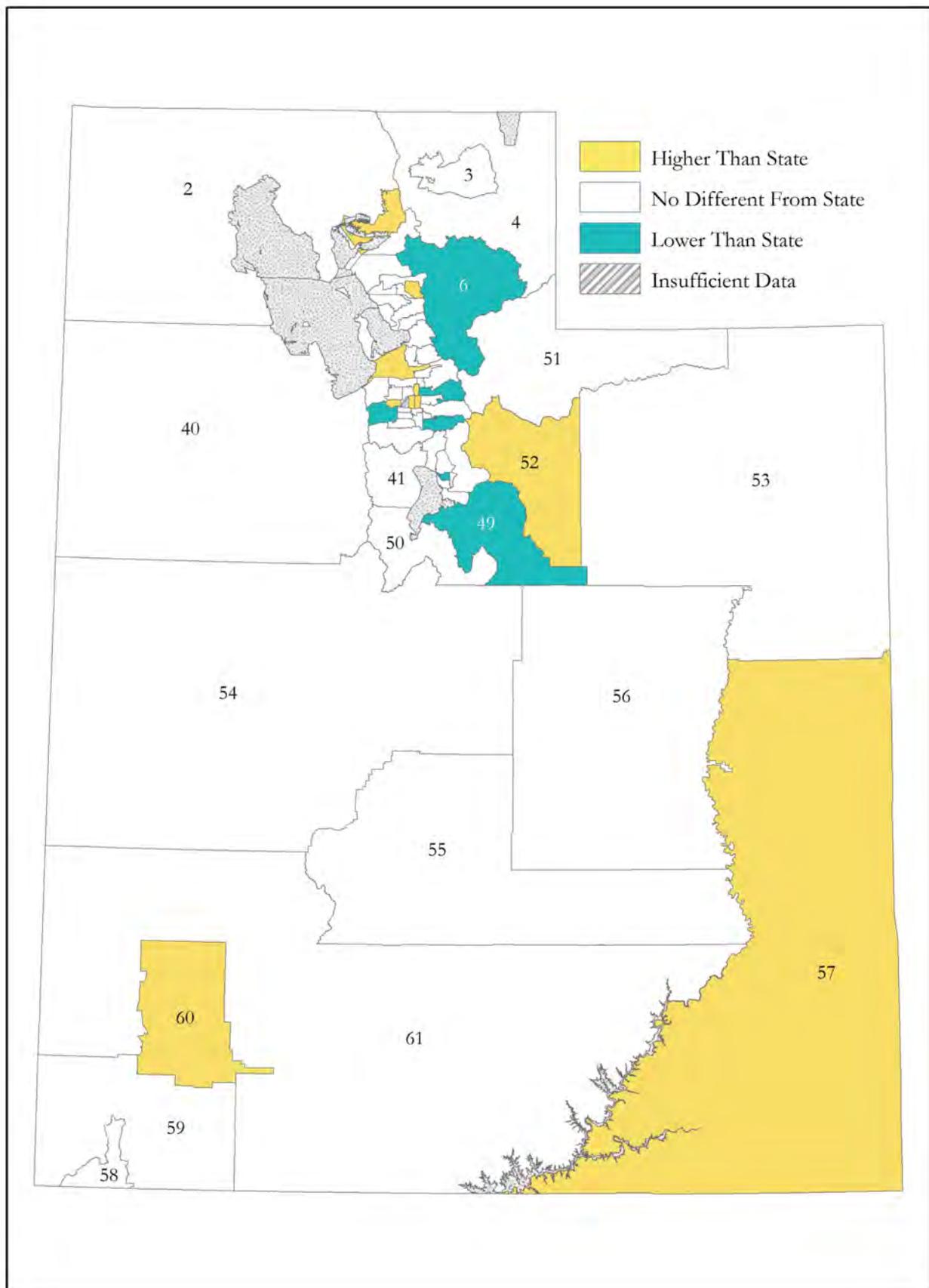
**Table 17: Percentage of Adults With Arthritis Limited By Arthritis by Small Area, Health District, Utah, and U.S., 2009, 2011**

State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2009, 2011 Adults With Arthritis 18+	2009, 2011 Adults Limited By Arthritis	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
						Lower	Upper
	U.S.	240,185,952	116,490,187	48.5	47.6	46.8	48.4
	State of Utah	790,322	388,838	49.2	45.8	42.9	48.8
	Bear River LHD	43,542	20,291	46.6	42.2	33.6	51.2
56	Brigham City (1)	7,543	3,722	49.3	62.8	48.5	75.2
6	Box Elder County (Other) (2)	8,451	2,920	34.5	32.9	21.2	47.1
44	Cache Co (Oth)/Rich Co (All) (4)	12,007	5,860	48.8	53.7	41.5	65.5
34	Logan (3)	23,032	11,631	50.5	48.5	38.2	59.0
	Central Utah LHD	28,534	12,355	43.3	36.4	28.9	44.7
13	Juab/Millard/Sanpete Counties (54)	17,968	7,432	41.4	37.2	26.2	49.6
8	Sevier/Piute/Wayne Counties (55)	8,978	3,966	44.2	34.7	24.7	46.2
	Davis County LHD	85,579	43,046	50.3	49.9	42.5	57.4
21	Bountiful (16)	17,629	8,781	49.8	41.8	31.6	52.7
16	Clearfield/Hill AFB (11)	24,983	12,272	49.1	39.5	28.6	51.7
49	Farmington/Centerville (14)	7,919	3,828	48.3	56.3	37.6	73.3
38	Layton (12)	22,804	11,217	49.2	51.3	37.6	64.8
45	Syracuse/Kaysville (13)	14,925	8,227	55.1	54.2	41.8	66.1
47	Woods Cross/North Salt Lake (15)	7,722	3,900	50.5	54.3	35.4	72.0
	Salt Lake County LHD	302,706	151,958	50.2	48.1	42.5	53.8
14	Cottonwood (28)	14,599	6,305	43.2	38.5	24.7	54.5
28	Holladay (27)	12,728	6,904	54.2	46.3	34.0	59.1
57	Kearns (29)	24,565	14,355	58.4	63.2	50.5	74.4
35	Magna (20)	8,938	4,866	54.4	48.8	30.9	67.0
55	Midvale (32)	9,857	5,545	56.3	62.2	44.6	77.2
5	Millcreek (26)	18,147	8,088	44.6	31.6	22.5	42.4
51	Murray (31)	14,224	8,082	56.8	57.9	46.8	68.3
19	Riverton/Draper (39)	30,848	15,089	48.9	41.4	33.3	49.9
53	SLC (Avenues) (18)	8,361	4,046	48.4	59.3	40.6	75.7
32	SLC (Downtown) (24)	12,764	6,528	51.1	47.6	27.4	68.6
9	SLC (Foothill/U of U) (19)	6,391	2,951	46.2	36.4	22.0	53.7
60	SLC (Glendale) (21)	8,795	5,834	66.3	67.5	45.4	83.8
61	SLC (Rose Park) (17)	11,739	7,803	66.5	70.9	53.3	83.9
46	Sandy Center (36)	14,711	7,662	52.1	54.2	45.3	62.8
10	Sandy (NE) (37)	8,380	2,941	35.1	36.7	26.9	47.7
12	Sandy (SE) (38)	10,058	4,005	39.8	37.0	30.5	44.1
31	South Jordan (35)	12,696	6,644	52.3	47.2	35.6	59.2
54	South Salt Lake (25)	7,050	4,140	58.7	59.3	49.6	68.4
62	Taylorsville (30)	12,129	7,819	64.5	74.1	61.6	83.7
24	West Jordan (NE) (33.1)	15,180	7,862	51.8	43.7	32.0	56.0
39	West Jordan (SE) (34.1)	9,618	4,867	50.6	51.6	38.6	64.3
1	West Jordan West, Copperton (34.2)	10,395	3,740	36.0	28.1	18.9	39.6
17	West Valley East (23)	18,241	9,382	51.4	39.5	25.1	56.0
26	West Valley West (22)	26,077	11,902	45.6	44.8	32.3	58.0
	Southeastern Utah LHD	22,315	12,876	57.7	52.0	46.7	60.3
25	Carbon/Emery Counties (56)	12,692	6,974	54.9	43.9	36.4	51.6
59	Grand/San Juan Counties (57)	7,779	4,551	58.5	66.6	56.3	75.5
	Southwest Utah LHD	72,367	35,749	49.4	45.8	36.4	55.5
52	Cedar City (60)	13,994	6,781	48.5	59.2	46.8	70.5
15	Southwest LHD (Other) (61)	9,743	5,136	52.7	39.0	29.6	49.3
3	St. George (58)	23,546	10,364	44.0	30.5	18.1	46.5
48	Washington Co. (Other) (59)	20,453	10,751	52.6	55.2	41.7	68.0
22	Summit County LHD (51)	10,207	4,032	39.5	42.0	33.5	51.0
40	Tooele County LHD (40)	17,645	8,125	46.0	51.9	45.6	58.2
20	TriCounty LHD (53)	15,888	7,608	47.9	41.4	33.1	50.2
	Utah County LHD	111,641	54,349	48.7	45.3	37.8	53.0
23	American Fork/Alpine (42)	15,804	8,156	51.6	42.2	33.1	51.8
33	Lehi/Cedar Valley (41)	22,390	10,731	47.9	48.2	36.9	59.6
36	Orem East (46)	6,482	3,039	46.9	50.7	42.0	59.3
2	Orem North (44)	7,654	3,261	42.6	28.7	19.0	40.8
29	Orem West (45)	5,760	2,185	37.9	46.7	34.8	58.9
27	Pleasant Grove/Lindon (43)	13,359	6,369	47.7	46.1	35.6	56.9
43	Provo North/BYU (47)	15,783	7,132	45.2	52.5	44.6	60.2
30	Provo South (48)	24,524	12,554	51.2	46.9	37.5	56.6
7	Springville/Spanish Fork (49)	22,673	9,477	41.8	33.4	24.1	44.2
41	Utah Co. South (50)	12,464	7,061	56.7	52.1	36.5	67.4
50	Wasatch County LHD (52)	5,479	2,977	54.3	56.4	46.0	66.3
	Weber-Morgan LHD	82,420	39,224	47.6	43.3	36.8	49.9
42	Ben Lomond (5)	21,585	11,126	51.5	52.4	39.5	65.0
4	Morgan Co (All)/Weber Co. (East) (6)	12,390	4,886	39.4	31.1	21.3	43.0
18	Ogden (Downtown) (7)	13,649	6,617	48.5	39.9	31.6	48.9
11	Riverdale (10)	8,920	3,789	42.5	36.7	26.7	48.0
37	Roy/Hooper (9)	18,188	9,417	51.8	51.1	37.8	64.3
58	South Ogden (8)	13,826	6,975	50.4	65.0	54.3	74.4

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state.

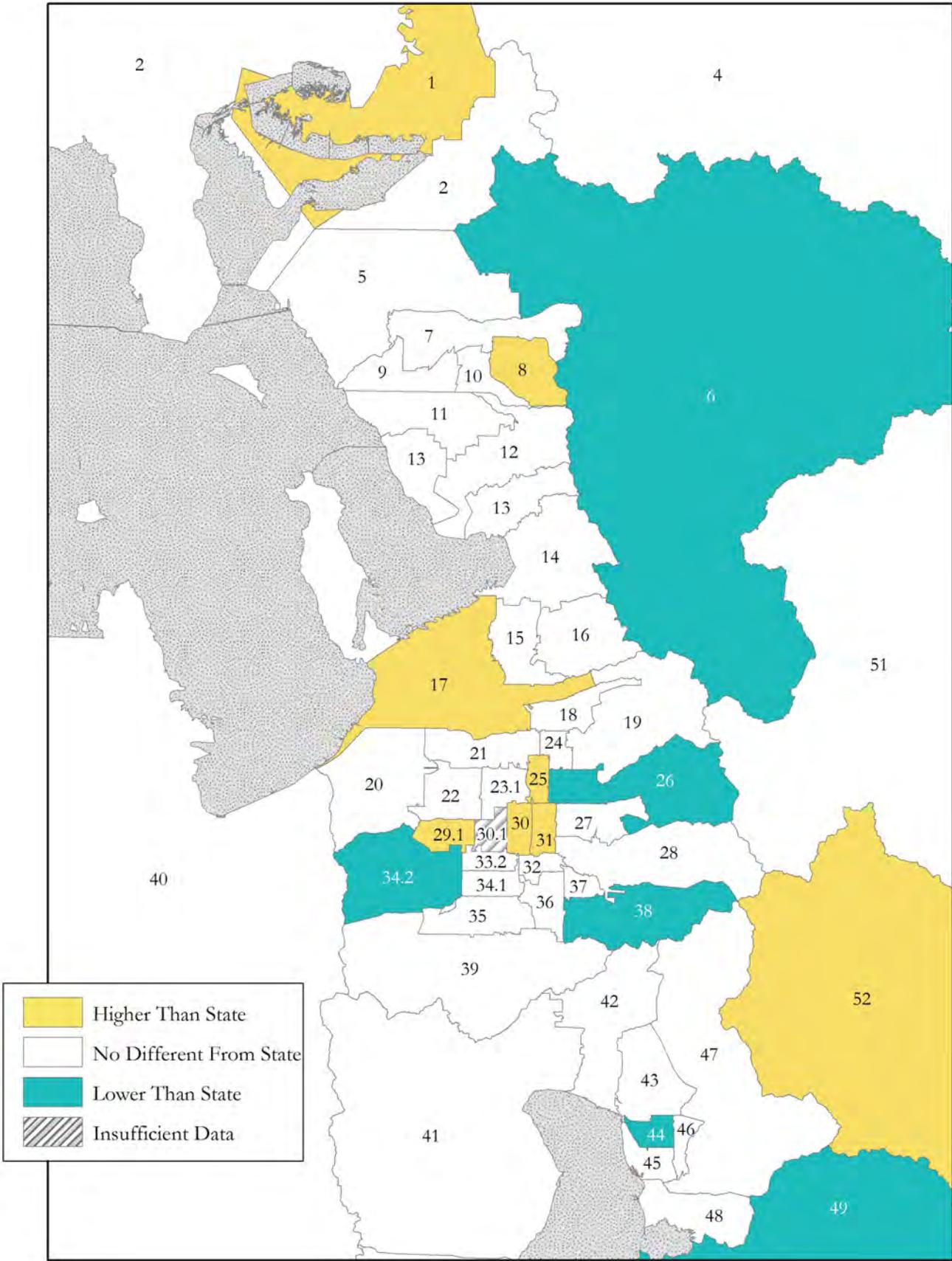
# Adults With Arthritis Limited By Arthritis

Figure 17.1: Percentage of Adults with Arthritis Limited by Arthritis by Small Area, Utah, 2009, 2011 (Age-adjusted)



# Adults With Arthritis Limited By Arthritis

Figure 17.2: Percentage of Adults with Arthritis Limited by Arthritis by Small Area, Wasatch Front, Utah, 2009, 2011 (Age-adjusted)



# Appendix A: How Small Areas Were Determined

## Appendix A: How Small Areas Were Determined

In 1997, 61 Utah Small Areas were designated by Utah Department of Health staff in order to facilitate the reporting of health information at the community level. In most health data sources, ZIP code area boundaries are the smallest commonly-used geographic units. As such, ZIP code area boundaries, singly or in combination, were used to define the Utah Small Areas. Additionally, the U.S. Postal Service ZIP code areas roughly follow political boundaries. For some sparsely populated areas of the state, however, entire counties were used to define Utah Small Areas.

In 2008, the U.S. Postal Service created a new ZIP code (84081) from two existing ZIP codes (84084 and 84088) in Salt Lake County. This change affected the boundaries for Utah Small Area #33 “West Jordan North (84084)” and Utah Small Area #34 “West Jordan/Copperton (84088, 84006).” Utah Small Areas #33 and #34 were discontinued and three new Utah Small Areas were created in their place.

Beginning with 2009 data, ZIP code 84084 defines new Utah Small Area #34.1 “West Jordan Southeast.” The new ZIP code 84081 with the old ZIP code 84006 defines new Utah Small Area #34.2 “West Jordan West/Copperton.” The new Utah Small Areas in West Jordan are not comparable to the previous designations for 84084, 84088, and 84006.

For more information on Utah Small Area definitions, go to <http://health.utah.gov/opha/IBIShelp/sarea/UtahSmallAreaInfo.pdf>.

To get a map to view how the Utah Small Area boundaries changed, please go to [http://health.utah.gov/opha/IBIShelp/sarea/2009SA\\_change.pdf](http://health.utah.gov/opha/IBIShelp/sarea/2009SA_change.pdf).

Utah Small Area size was established by examining incidence rates for a variety of health events and determining the population size that would be required to yield at least 20 events over a three- to five-year period. A numerator of 20 or greater was chosen because it produces relatively stable incidence estimates and simplifies the computation of confidence intervals. Populations of 40,000 to 60,000 were found to be sufficiently large for classification of a small area. However, some areas with smaller populations were designated as small areas when low population density, community identity, or other factors suggested that it was appropriate.

Because local health districts are the primary seat of community public health in Utah, the Utah Small Areas were designed to not cross local health district boundaries. Whenever possible, the Utah Small Areas were designed to conform to established political boundaries of cities and towns. Due to extremely varying economic statuses within ZIP code areas in some instances, the investigators examined median per capita annual income levels of each ZIP code. In many cases, local representatives, including health officers and city officials, were asked to assist in designating Utah Small Area boundaries based on their knowledge of community characteristics.

Population estimates for the Utah Small Areas were obtained and several health measures were analyzed and compared. The 61 Utah Small Areas had an average population size in 1997 of 33,500 persons (range from 15,000 to 62,500). Six small areas had population sizes under 20,000 due to local health district boundaries, input from local health district boundaries, or input from local area residents. In four cases, a Utah Small Area encompassed an entire local health district.

# Appendix A: How Small Areas Were Designated

## *Difficulties in Designating Utah's Small Areas Using ZIP Codes*

Because ZIP code boundaries are arbitrary geographic areas designed for the convenience of postal carriers, they do not always correspond to other more meaningful boundaries, such as those of cities or towns, school districts, neighborhoods, or political voting districts. ZIP code areas may be heterogeneous with respect to important health-related demographic variables such as income, education, and household composition. Additionally, ZIP code boundaries are not stable because they are subdivided as the populations within them increase. Also, very importantly, ZIP code and Utah Small Area boundaries may not match health event (e.g., a disease or exposure) boundaries.

Although ZIP code areas may be less than ideal, they are routinely included on many public health data records and can be gathered easily on surveys such as the BRFSS. Also, estimates of population size and other demographic characteristics are often available for ZIP code areas. When calculating disease and mortality rates, these population estimates are used as the denominator, making them especially important.

## *Statistical Issues in Analyzing Small Area Data*

Rates calculated from few events or in a small population typically show relatively large fluctuations with small changes in the number of events. Such fluctuations create challenges for those trying to make valid interpretations. For instance, it is difficult to assess whether rates, such as those in the BRFSS measures included in this report, are either higher or lower than usual, or in relation to some standard such as the state rate. There are a number of statistical approaches for detecting significant differences that are discussed in the article by Haggard, et al.<sup>28</sup> For this report, confidence intervals were used. Confidence intervals describe the precision of an estimate and take into account the variability of the measure, the sample size, and the sampling method. Data were combined to increase sample size in the Utah Small Areas and improve the precision of the BRFSS estimates.

One limitation in the use of confidence intervals to identify areas that are significantly different from the state is the lack of independence of the Utah Small Areas and the state. The state includes the Utah Small Area, so it is not technically appropriate for comparison. Another issue is that the state rate also has a confidence interval. For this report, a Utah Small Area differed from the state rate when its confidence interval did not include the state rate; however, the confidence interval for the state rate was not considered.

## *In Summary*

Utah Small Area analysis has many uses in public health. It can assist in targeting health promotion efforts and examining health status in small areas. It can also help to identify environmental, health system, and demographic attributes that may be related to the health of a community.

Though the method described here is not perfect, it allows for the presentation of estimates by Utah Small Areas.

# Appendix B: Small Area Definitions and Key Maps

# Appendix B: Small Area Definitions and Key Maps

Local Health District	County	#	Utah Small Area	Boundary Designation
BEAR RIVER LHD	BOX ELDER	1	Brigham City	ZIP Code 84302
		2	Box Elder County (Other)	All of Box Elder County except Brigham City; includes ZIP Codes 84301, 84306, 84307, 84309, 84311, 84312, 84313, 84314, 84316, 84324, 84329, 84330, 84331, 84334, 84336, 84337, 84340)
	CACHE	3	Logan	ZIP Codes 84321, 84322, 84332, 84341
		4	Cache County (Other)/ Rich County (All)	All of Rich County; Cache County except Logan; includes ZIP Codes 84028, 84038, 84064, 84086, 84304, 84305, 84308, 84318, 84319, 84320, 84323, 84325, 84326, 84327, 84328, 84333, 84335, 84338, 84339
WEBER-MORGAN LHD	WEBER	5	Ben Lomond	ZIP Codes 84404, 84407, 84412
	MORGAN/WEBER	6	Morgan County (All)/ Weber County (East)	All of Morgan County; ZIP Codes 84018, 84050, 84310, 84317, 84414 in Weber County
	WEBER	7	Ogden (Downtown)	ZIP Codes 84401, 84402
		8	South Ogden	ZIP Codes 84403, 84408
		9	Roy/Hooper	ZIP Code 84067; ZIP Code 84315 (only in Weber County)
		10	Riverdale	ZIP Code 84405 (only in Weber County); ZIP Code 84409
DAVIS COUNTY LHD		11	Clearfield/Hill Air Force Base	ZIP Codes 84015, 84016, 84056; ZIP Code 84315 (only in Davis County)
		12	Layton	ZIP Codes 84040, 84041; ZIP Code 84405 (only in Davis County)
		13	Syracuse/Kaysville	ZIP Codes 84037, 84075
		14	Farmington/Centerville	ZIP Codes 84014, 84025
		15	Woods Cross/North Salt Lake	ZIP Codes 84054, 84087
		16	Bountiful	ZIP Codes 84010, 84011
SALT LAKE COUNTY LHD		17	Salt Lake City (Rose Park)	ZIP Codes 84116, 84122
		18	Salt Lake City (Avenues)	ZIP Codes 84103, 84114, 84150
		19	Salt Lake City (Foothill/ University of Utah)	ZIP Codes 84108, 84112, 84113
		20	Magna	ZIP Code 84044
		21	Salt Lake City	ZIP Codes 84101, 84104, 84110,

# Appendix B: Small Area Definitions and Key Maps

	(Glendale)	84180
22	West Valley (West)	ZIP Codes 84120, 84128, 84170
23	West Valley (East) [2011 and before]	ZIP Codes 84119, 84199 [EFFECTIVE 2011 AND BEFORE]
23.1	West Valley (East) Version 2 [2012 and after]	Revised ZIP Code 84119; 84199 [EFFECTIVE 2012 AND AFTER]
24	Salt Lake City (Downtown)	ZIP Codes 84102, 84105, 84111, 84145, 84152
25	South Salt Lake	ZIP Codes 84115, 84165
26	Millcreek	ZIP Codes 84106, 84109, 84151
27	Holladay	ZIP Codes 84117, 84124, 84127
28	Cottonwood	ZIP Code 84121
29	Kearns [2011 and before]	ZIP Code 84118 [EFFECTIVE 2011 AND BEFORE]
29.1	Kearns Version 2 [2012 and after]	Revised ZIP Code 84118 [EFFECTIVE 2012 AND AFTER]
30	Taylorsville (East)/Murray (West) [Renamed from Taylorsville in 2012]	ZIP Code 84123
30.1	Taylorsville (West) [2012 and after]	ZIP Code 84129 (new ZIP Code introduced in 2011) [EFFECTIVE 2012 AND AFTER]
31	Murray	ZIP Codes 84107, 84157
32	Midvale	ZIP Code 84047
33	West Jordan (North) [2008 and before]	ZIP Code 84084 [EFFECTIVE 2008 AND BEFORE]
33.1	West Jordan (Northeast) [2009 through 2011]	Revised ZIP Code 84084 [EFFECTIVE 2009 THROUGH 2011]
33.2	West Jordan (Northeast) Version 2 [2012 and after]	Revised ZIP Code 84084 [EFFECTIVE 2012 AND AFTER]
34	West Jordan/Copperton [2008 and before]	ZIP Codes 84006, 84088 [EFFECTIVE 2008 AND BEFORE]
34.1	West Jordan (Southeast) [2009 and after]	Revised ZIP Code 84088 [EFFECTIVE 2009 AND AFTER]
34.2	West Jordan (West)/Copperton [2009 and after]	ZIP Codes 84006, 84081 (new ZIP Code introduced in 2008) [EFFECTIVE 2009 AND AFTER]
35	South Jordan	ZIP Code 84095
36	Sandy (Center)	ZIP Codes 84070, 84091, 84094
37	Sandy (Northeast)	ZIP Codes 84090, 84093
38	Sandy (Southeast)	ZIP Code 84092
39	Riverton/Draper	ZIP Codes 84020, 84065, 84096 (new ZIP Code introduced-2006)

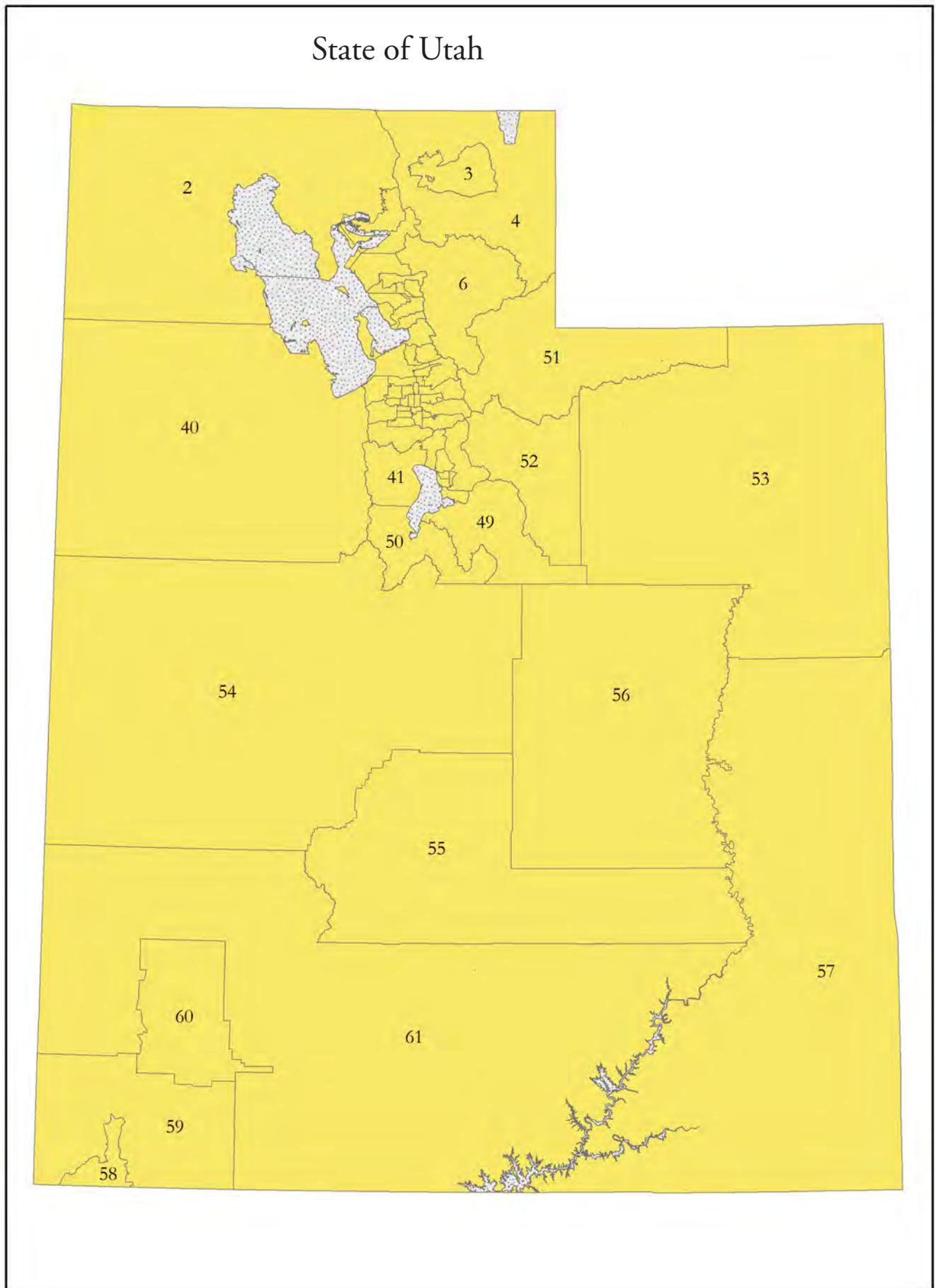
# Appendix B: Small Area Definitions and Key Maps

TOOELE COUNTY LHD		40	Tooele County	All of Tooele County (includes ZIP Codes 84022, 84029, 84034, 84069, 84071, 84074, 84080, 84083)
UTAH COUNTY LHD		41	Lehi/Cedar Valley	ZIP Codes 84005 (new ZIP Code introduced in 2006), 84013, 84043, 84045 (new ZIP Code introduced in 2006)
		42	American Fork/Alpine	ZIP Codes 84003, 84004
		43	Pleasant Grove/Lindon	ZIP Codes 84042, 84062
		44	Orem (North)	ZIP Codes 84057, 84059
		45	Orem (West)	ZIP Code 84058
		46	Orem (East)	ZIP Code 84097
		47	Provo (North)/Brigham Young University	ZIP Codes 84602, 84604
		48	Provo (South)	ZIP Codes 84601, 84603, 84605, 84606
		49	Springville/Spanish Fork	ZIP Codes 84653, 84660, 84663, 84664
		50	Utah County (South)	ZIP Codes 84626, 84633, 84651, 84655
SUMMIT COUNTY LHD		51	Summit County	All of Summit County (includes ZIP Codes 84017, 84024, 84033, 84036, 84055, 84060, 84061, 84068, 84098)
WASATCH COUNTY LHD		52	Wasatch County	All of Wasatch County (includes ZIP Codes 84032, 84049, 84082)
TRI COUNTY LHD	DAGGETT/ DUCHESNE/ UINTAH	53	Tri County Local Health District	All of Daggett, Duchesne, and Uintah Counties (includes ZIP Codes 84001, 84002, 84007, 84008, 84021, 84023, 84026, 84027, 84031, 84035, 84039, 84046, 84051, 84052, 84053, 84063, 84066, 84072, 84073, 84076, 84078, 84079, 84085)
CENTRAL LHD	JUAB/ MILLARD/ SANPETE	54	Juab/Millard/Sanpete Counties	All of Juab, Millard, and Sanpete Counties (includes ZIP Codes 84621, 84622, 84623, 84624, 84627, 84628, 84629, 84630, 84631, 84632, 84634, 84635, 84636, 84637, 84638, 84639, 84640, 84642, 84643, 84644, 84645, 84646, 84647, 84648, 84649, 84650, 84656, 84662, 84665, 84667, 84728)
	SEVIER/	55	Sevier/Piute/Wayne	All of Piute, Sevier, and Wayne

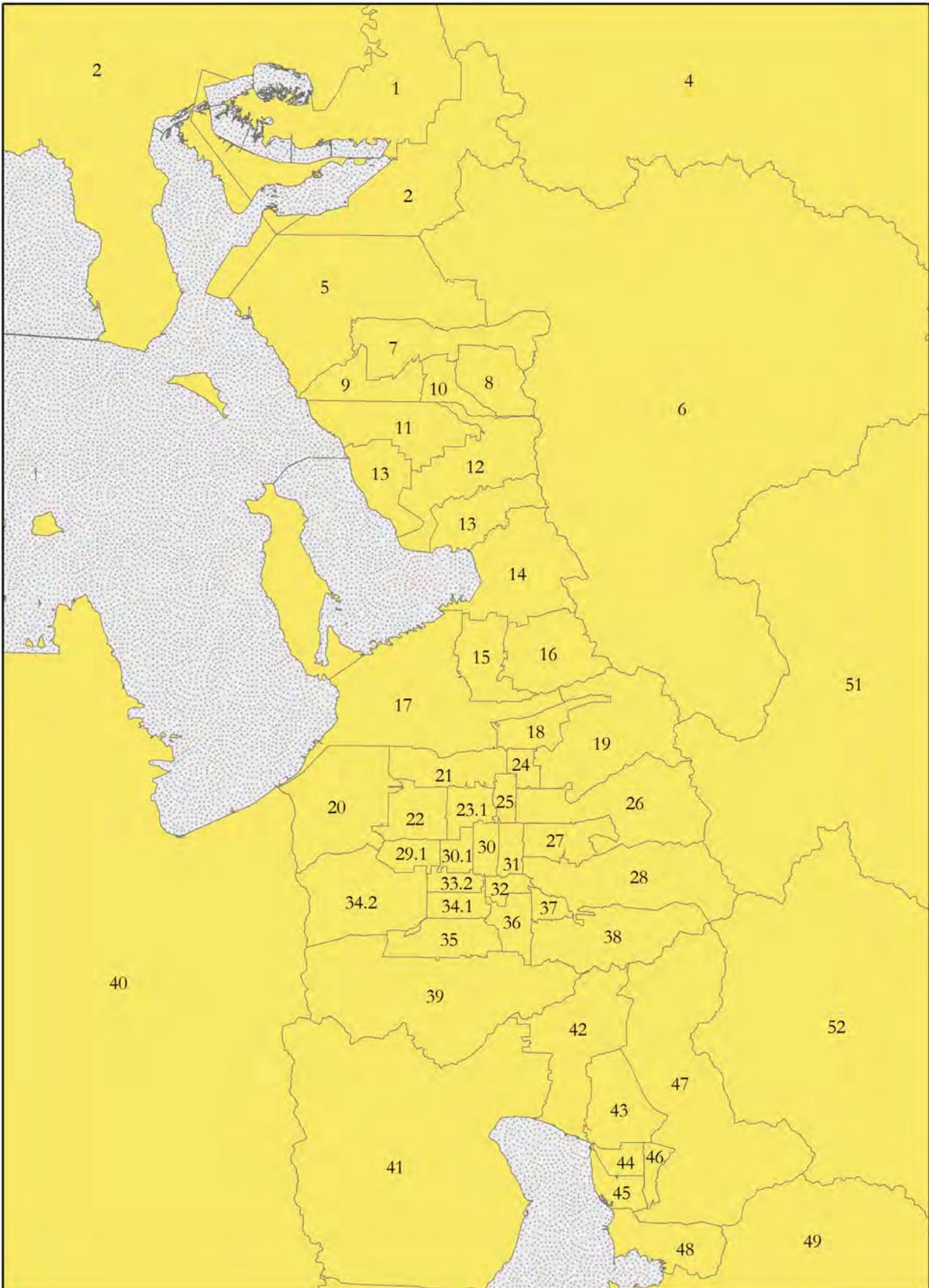
# Appendix B: Small Area Definitions and Key Maps

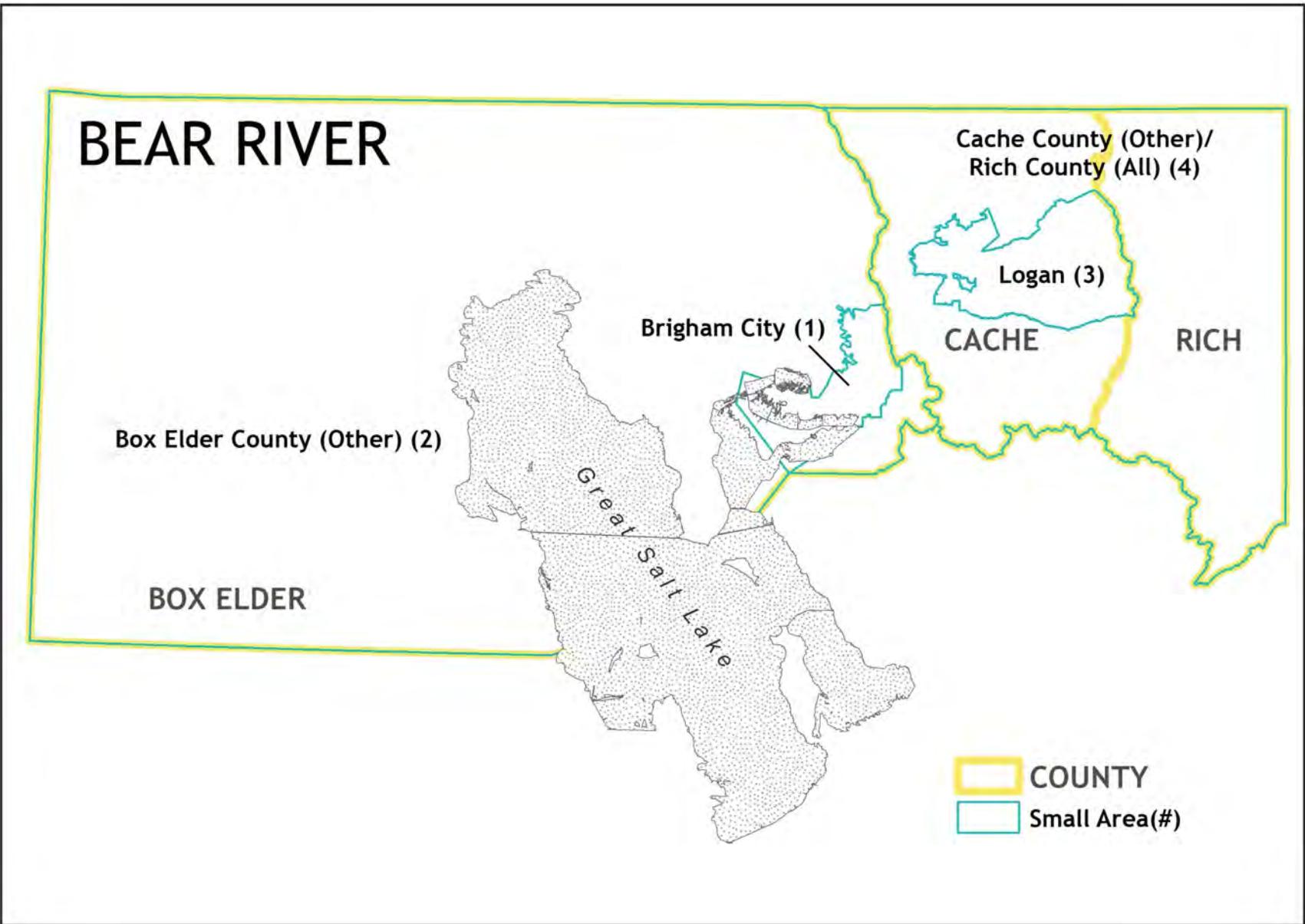
	PIUTE/ WAYNE		Counties	Counties (includes ZIP Codes 84620, 84652, 84654, 84657, 84701, 84711, 84715, 84723, 84724, 84730, 84732, 84734, 84739, 84740, 84743, 84744, 84747, 84749, 84750, 84754, 84766, 84773, 84775)
SOUTHEASTERN LHD	CARBON /EMERY	56	Carbon/Emery Counties	All of Carbon and Emery Counties (includes ZIP Codes 84501, 84513, 84516, 84518, 84520, 84521, 84522, 84523, 84525, 84526, 84527, 84528, 84529, 84537, 84539, 84542)
	GRAND/SAN JUAN	57	Grand/San Juan Counties	All of Grand and San Juan Counties (includes ZIP Codes 84510, 84511, 84512, 84515, 84530, 84531, 84532, 84533, 84534, 84535, 84536, 84540, 86044, 86514)
SOUTHWEST LHD	WASHINGTON	58	St George	ZIP Codes 84770, 84771, 84790
		59	Washington County (Other)	All of Washington County except St. George (includes ZIP Codes 84722, 84725, 84733, 84737, 84738, 84745, 84746, 84757, 84763, 84765, 84767, 84774, 84779, 84780, 84781, 84782, 84783, 84784, 84791)
	IRON	60	Cedar City	ZIP Codes 84720, 84721
	BEAVER/ GARFIELD/ IRON/KANE	61	Southwest Local Health District (Other)	All of Beaver, Garfield, and Kane Counties; Iron County except Cedar City (includes ZIP Codes 84710, 84712, 84713, 84714, 84716, 84718, 84719, 84726, 84729, 84731, 84735, 84736, 84741, 84742, 84751, 84752, 84753, 84755, 84756, 84758, 84759, 84760, 84761, 84762, 84764, 84772, 84776)

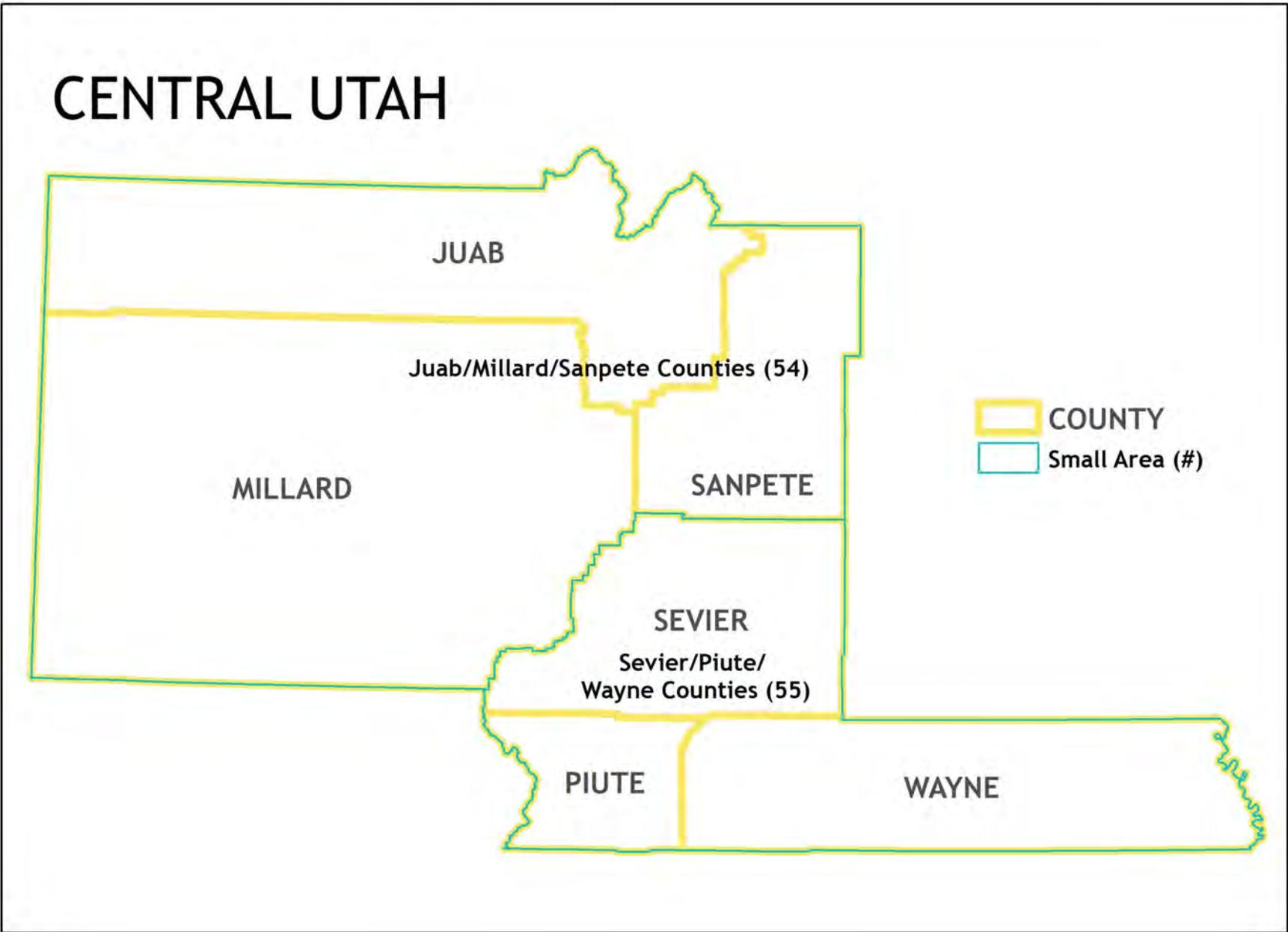
# Appendix B: Small Area Definitions and Key Maps

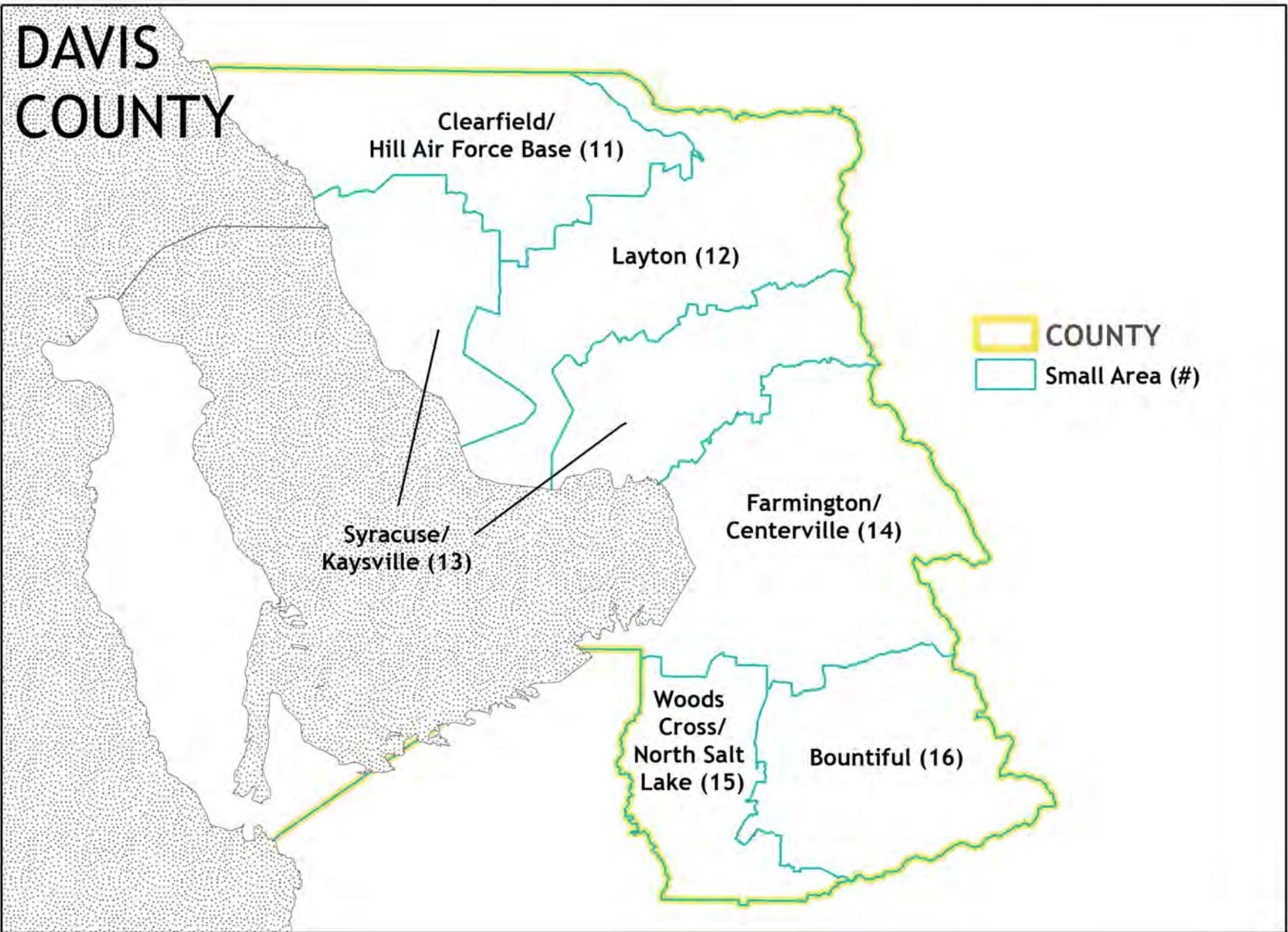


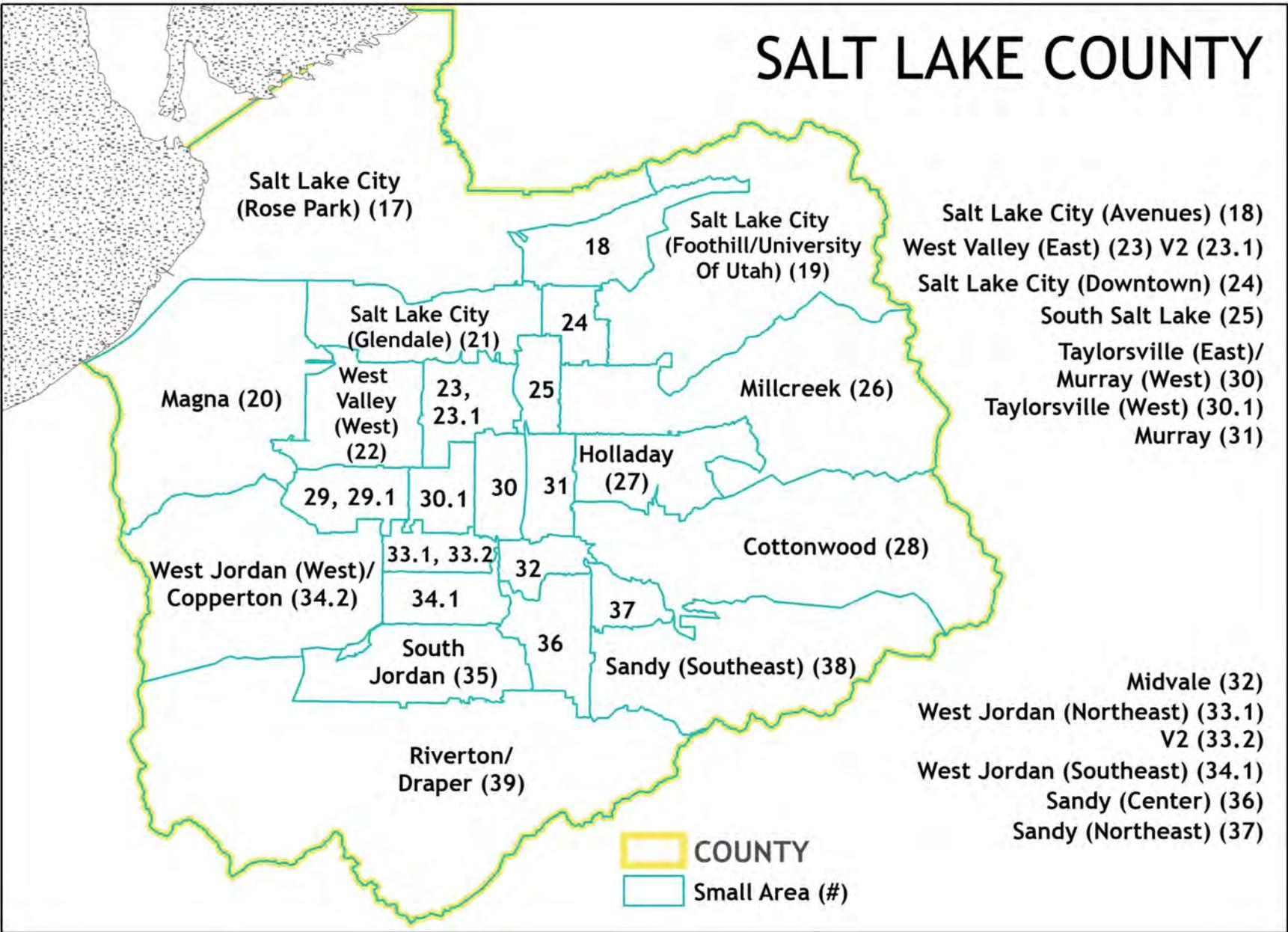
Wasatch Front

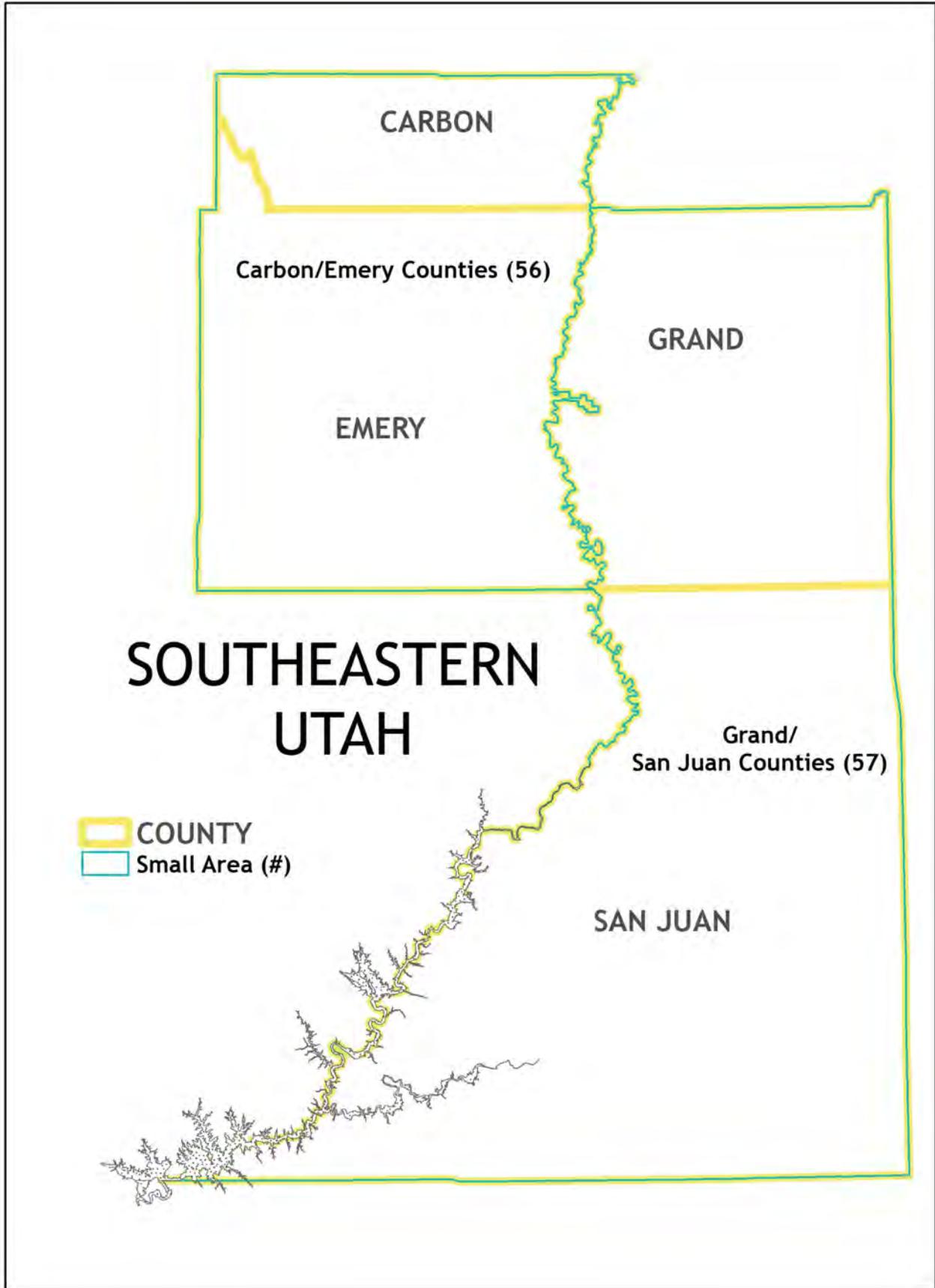


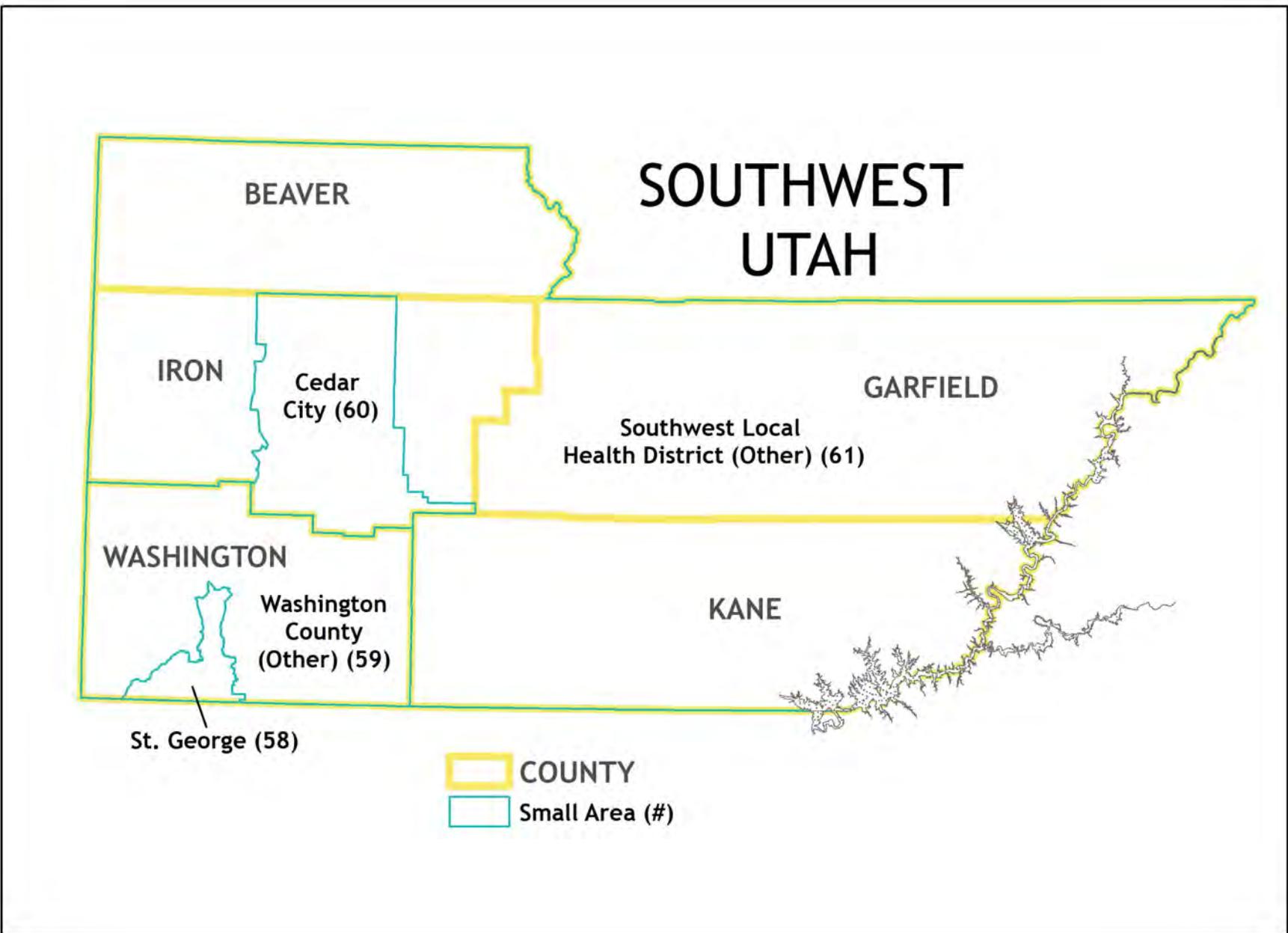


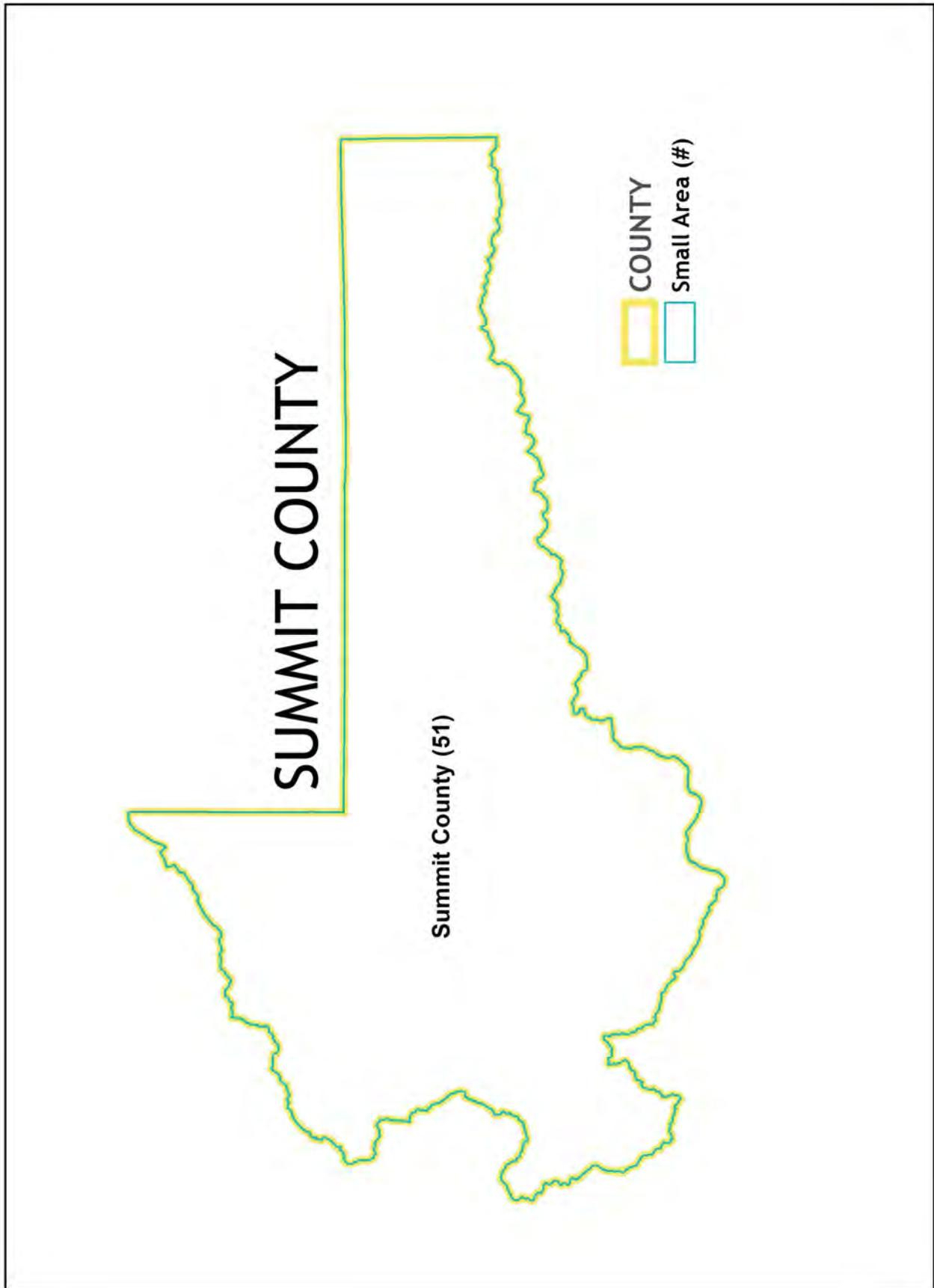


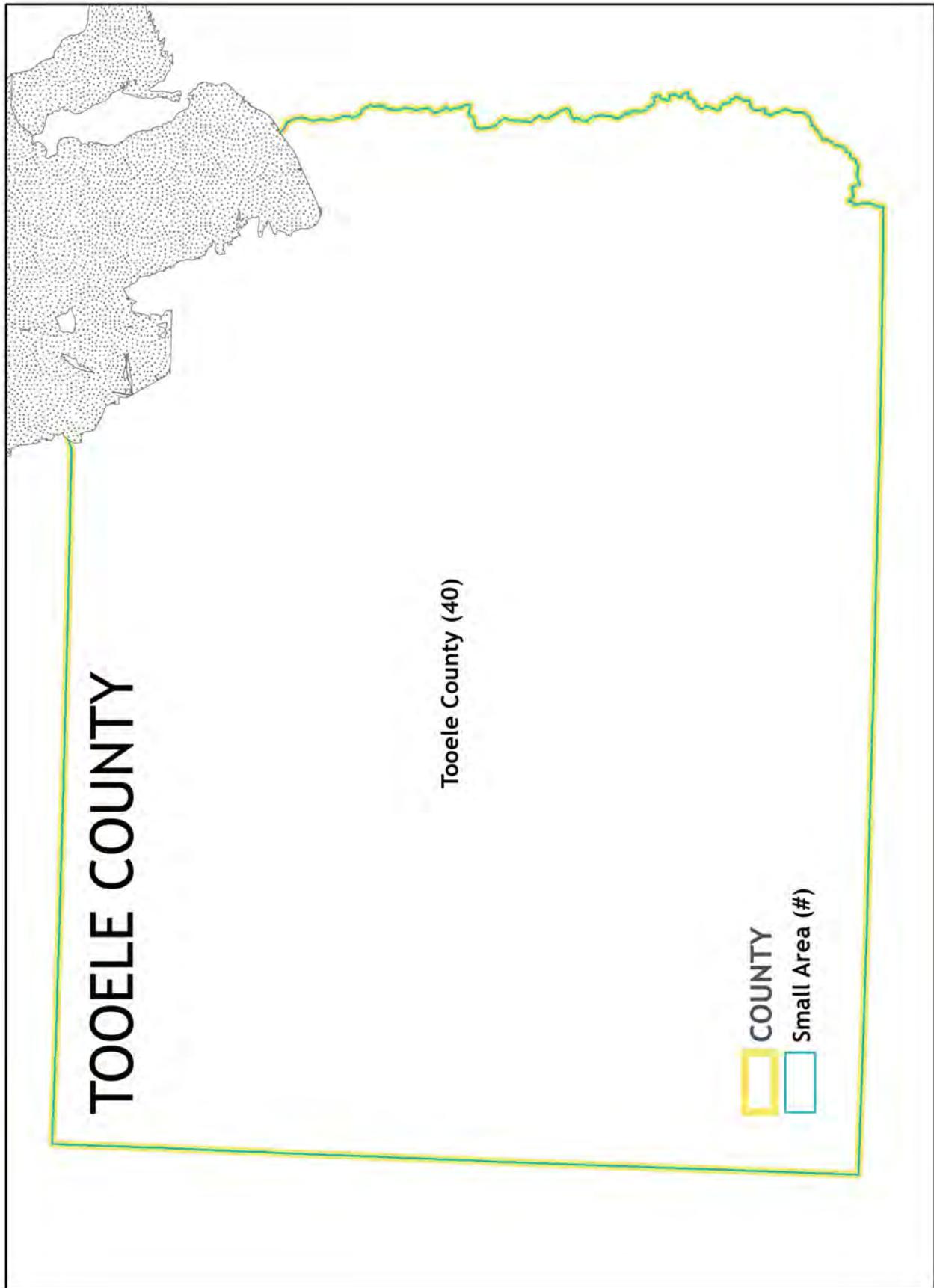


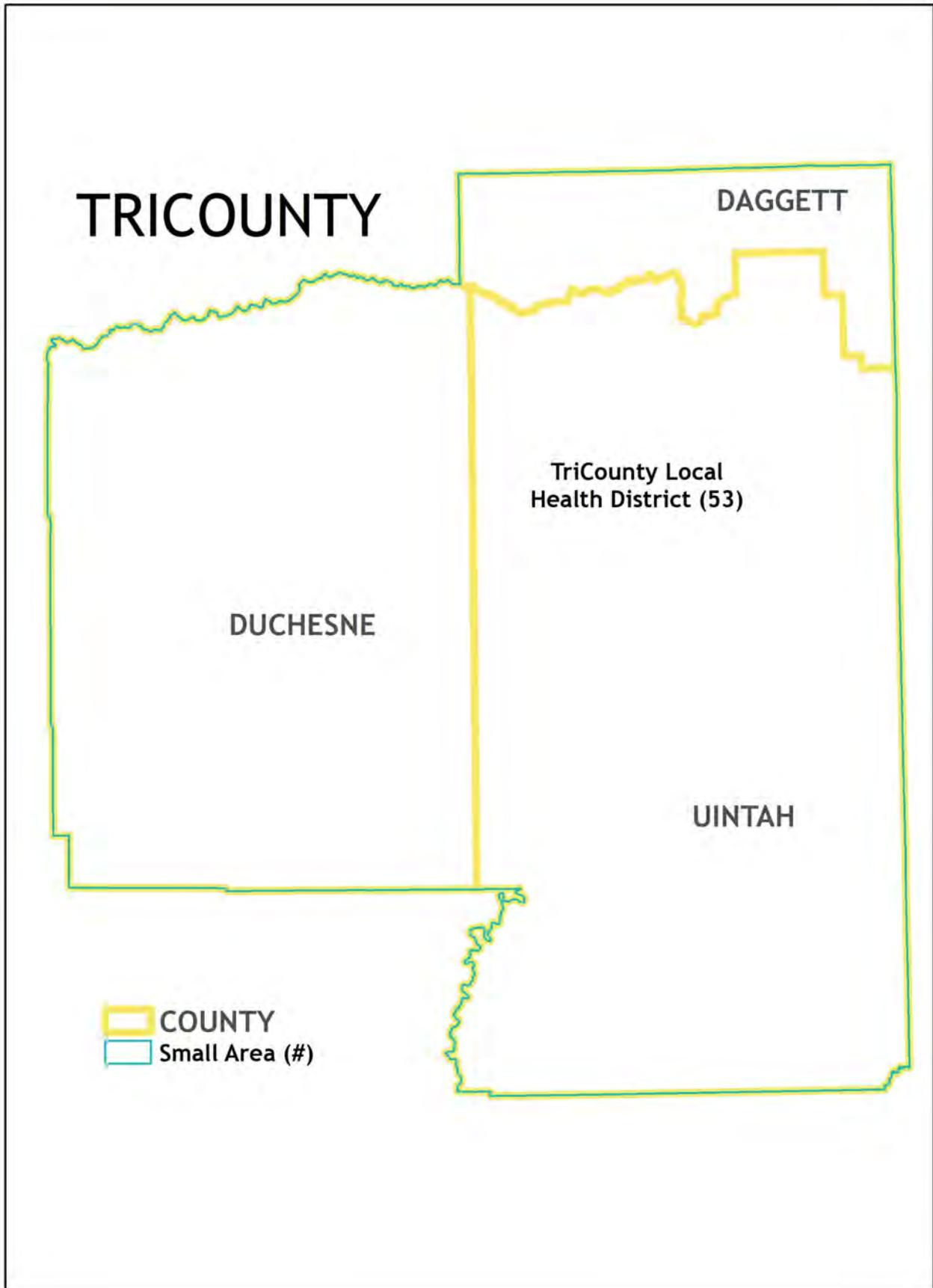


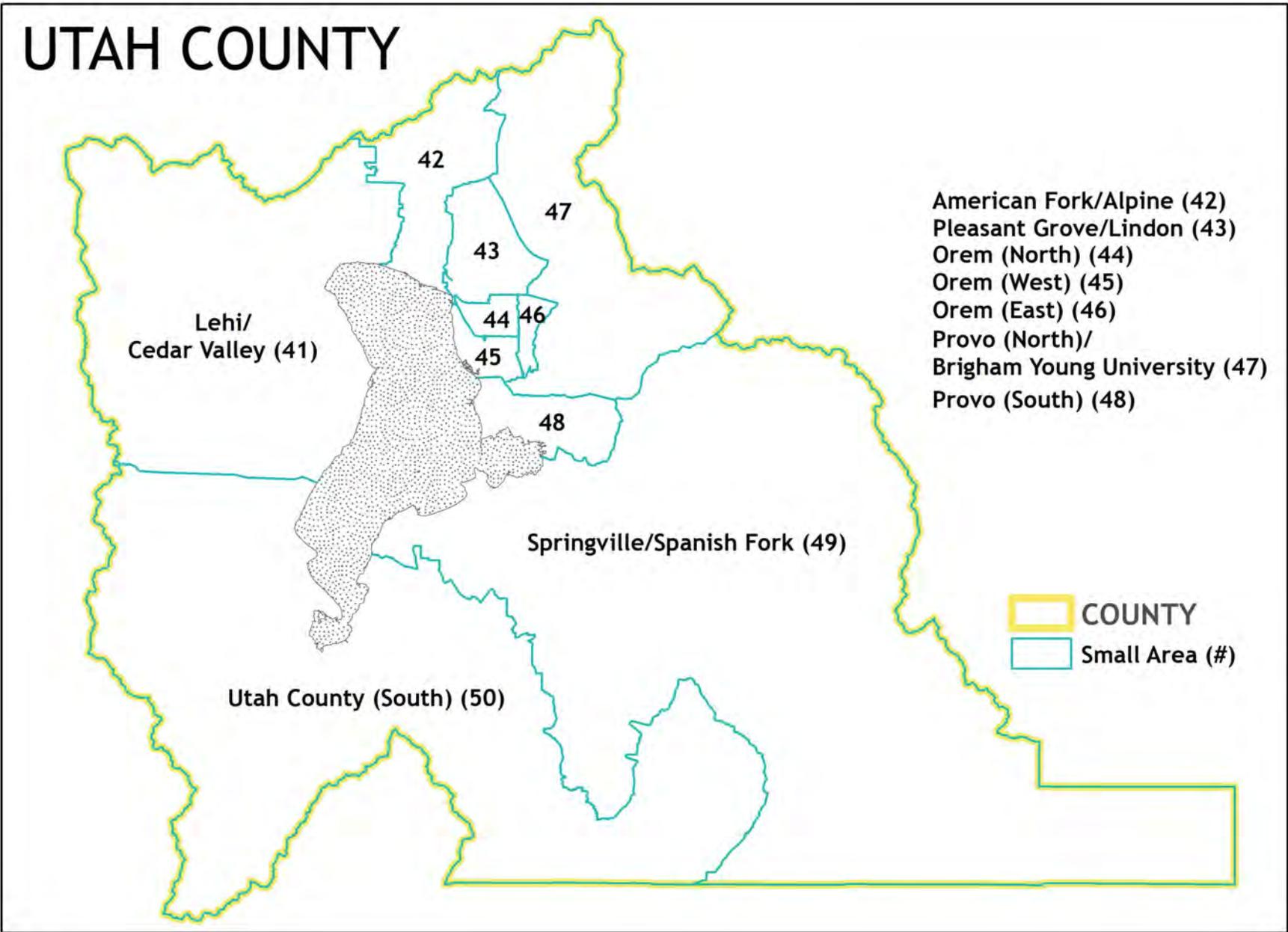


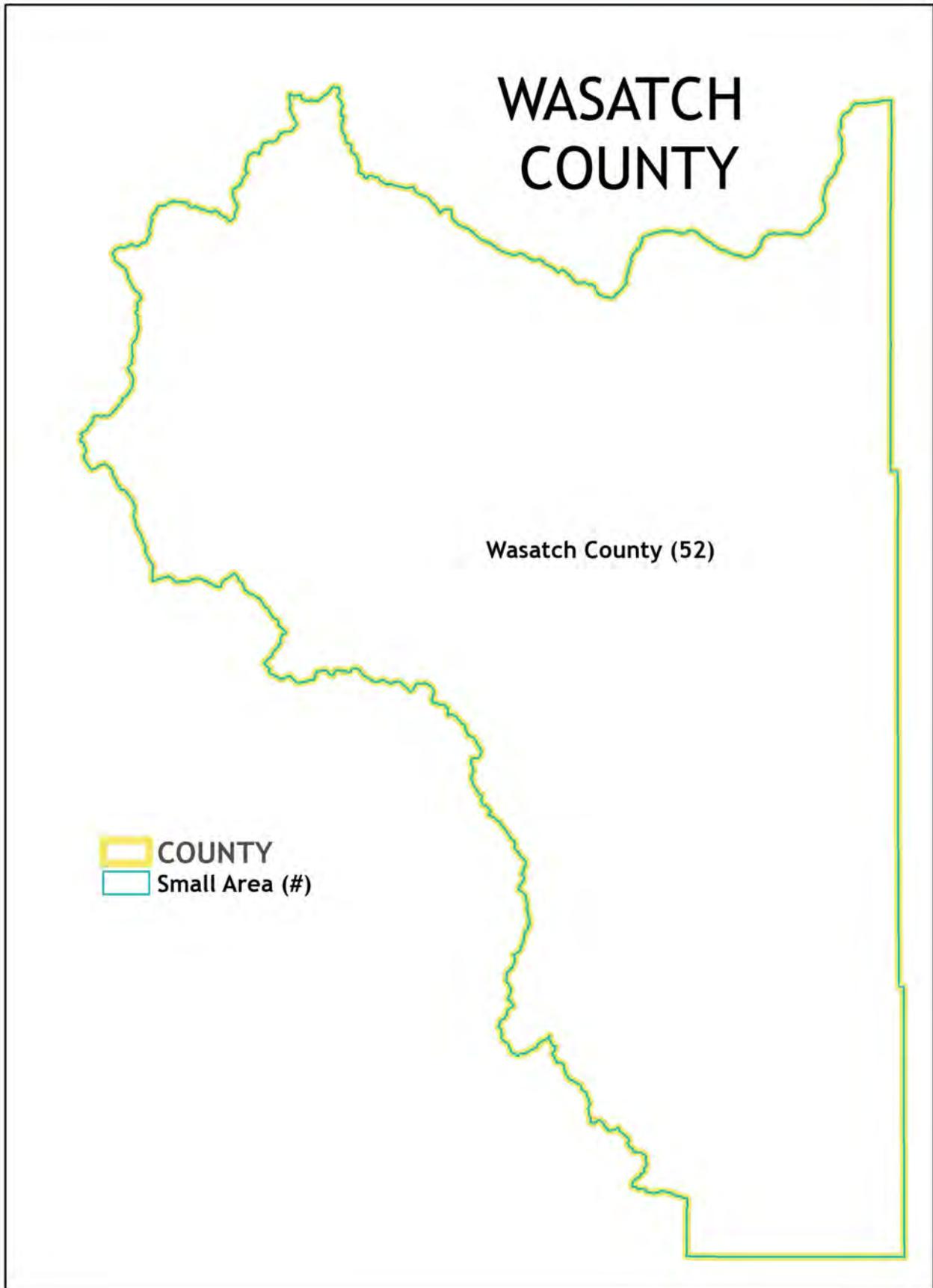


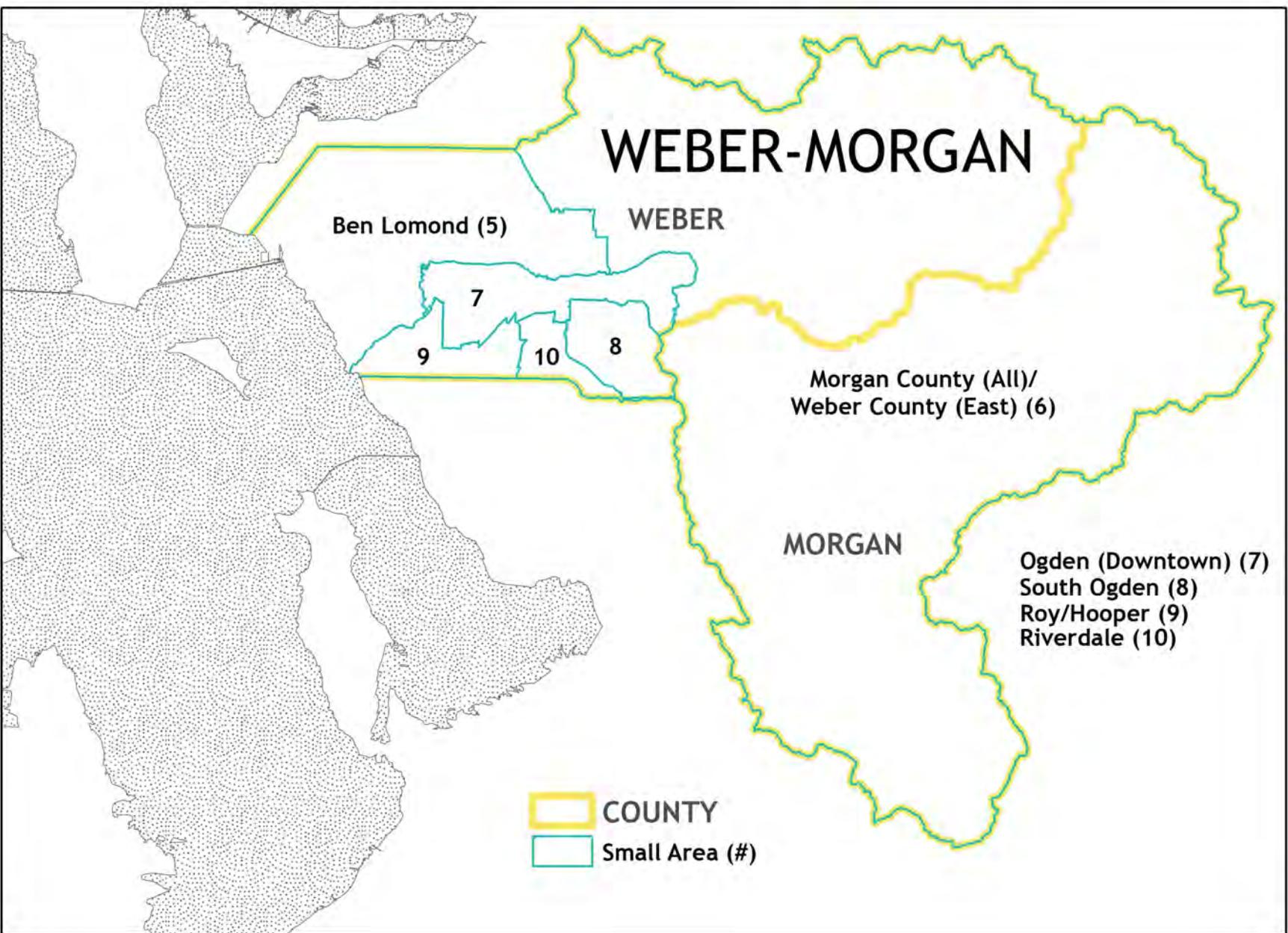












# Appendix C: Demographic Summary Table by Small Area

# Appendix C: Demographic Summary Table

	Adult Female Population, 2012	Adult Male Population, 2012	Adults Ages 18-34, 2012	Adults Ages 35-49, 2012	Adults Ages 50-64, 2012	Adults Ages 65+	Black Population Ages 18+, 2008-2012	American Indian Population Ages 18+, 2008-2012	Asian Population Ages 18+, 2008-2012	Pacific Islander Population Ages 18+, 2008-2012	White Population Ages 18+, 2008-2012	Hispanic Population Ages 18+, 2008-2012	Workforce Population Ages 18+, 2008-2012	Employed Population Ages 18+, 2009-2012	Unemployed Population Ages 18+, 2009-2012	Homeowner Population Ages 18+, 2009-2012	Student Population Ages 18+, 2009-2012	Married Adults, 2009-2012	Retired Ages 18+, 2009-2012	HS Degree Ages 25+, 2009-2012	High School Graduates Ages 25+, 2009-2012	Some College Education Ages 25+, 2009-2012	College Graduates Ages 25+, 2009-2012	Female College Graduates Ages 25+, 2008-2012	Single Mothers With Children, 2008-2012	Population Below 200% of Poverty Ages 18+, 2009-2012	Children in Poverty Ages 0-17, 2008-2012	Income < \$25,000 Ages 18+, 2009-2012	Income \$25,000-\$49,999 Ages 18+, 2009-2012	Income \$50,000-\$74,999 Ages 18+, 2009-2012	Income \$75,000+ Ages 18+, 2009-2012	Uninsured Ages 18+, 2009-2012	
U.S.	51.5	48.5	30.6	27.2	25.1	17.2	12.0	0.8	4.9	0.2	76.1	14.2	64.7	95.4	15.2	6.9	6.0	50.1	16.6	15.2	29.0	30.3	25.5	28.2	24.5	—	20.8	32.1	25.2	15.0	27.6	18.3	
State of Utah	50.2	49.8	39.2	21.2	13.8	0.9	1.1	2.3	0.8	90.1	11.3	68.9	61.7	10.7	5.9	60.8	11.5	9.0	62.8	38.1	29.4	27.0	14.4	35.1	14.0	23.8	27.3	18.8	30.2	18.3	18.3		
Bear River LHD	50.5	49.5	43.9	22.7	19.7	13.7	0.5	0.6	1.9	0.2	93.2	7.9	69.0	62.1	7.1	10.5	9.5	63.4	10.9	5.8	24.6	37.7	31.9	21.8	12.8	13.9	23.5	31.8	20.8	26.9	14.9		
Brigham City (1)	50.6	49.4	34.1	24.4	22.5	19.0	0.2	1.2	1.2	0.2	94.7	7.0	64.1	66.1	9.2	3.1	3.1	63.4	12.3	9.5	25.3	38.1	27.2	19.3	15.6	31.8	20.2	28.5	27.3	24.0	15.9		
Box Elder County (Other) (2)	49.9	50.1	33.8	25.6	24.7	16.0	0.1	0.3	0.7	0.0	94.0	7.4	66.1	63.8	9.5	10.1	3.2	68.2	13.4	5.7	31.0	43.7	19.6	16.4	11.9	41.0	20.3	34.8	21.1	23.8	15.2		
Cache Co. (Oth)/Rich Co. (All) (4)	49.6	50.4	35.2	26.5	23.8	14.5	0.2	0.3	0.8	0.2	95.4	5.4	70.2	64.8	4.7	12.4	6.9	68.9	11.3	6.9	26.0	38.1	29.0	25.8	8.9	38.2	20.0	32.5	21.8	25.7	14.1		
Logan (3)	50.9	49.1	56.9	17.8	14.7	10.6	0.8	0.7	3.1	0.2	91.2	9.7	70.8	58.8	6.6	10.1	15.7	58.8	8.8	5.8	20.2	34.3	39.6	37.8	14.9	37.8	19.8	30.0	30.4	16.8	22.8	16.9	
Central Utah LHD	48.8	51.2	32.8	23.5	23.6	20.1	0.7	1.0	0.4	0.2	94.8	6.4	60.0	68.8	12.3	11.0	3.9	68.4	14.1	11.3	28.1	41.5	19.2	16.0	14.4	44.8	17.5	31.1	32.6	18.5	17.8	21.2	
Juab/Millard/Sanpete Counties (64)	48.4	51.6	35.9	22.9	23.1	18.1	0.8	0.9	0.5	0.3	94.1	7.7	59.9	61.0	11.8	10.7	3.9	68.2	12.5	13.3	27.4	40.1	19.3	16.2	14.7	43.7	16.5	30.2	32.2	18.9	16.7	20.8	
Sevier/Plute/Wayne Counties (55)	50.0	50.0	29.2	22.4	25.4	23.0	0.5	1.0	0.3	0.1	96.5	3.7	60.5	56.7	12.5	10.6	3.5	65.9	16.7	9.0	30.7	42.2	18.1	15.7	13.6	49.4	19.3	34.5	33.4	16.4	15.7	23.3	
David's County LHD	50.4	49.6	36.9	27.8	22.1	13.2	1.1	0.6	2.2	0.6	91.8	7.6	70.4	62.6	3.5	11.5	5.9	65.1	11.5	3.9	22.8	39.0	34.4	28.4	12.8	26.2	9.2	16.0	23.0	20.5	19.9	9.0	
Bountiful (16)	51.9	48.1	32.9	22.3	22.6	0.4	0.3	1.7	0.9	93.5	5.7	63.3	56.4	9.1	13.9	3.1	3.1	67.4	17.4	2.0	21.9	38.1	38.0	33.7	14.6	25.7	7.8	15.8	24.1	19.2	40.9	11.4	
Clearfield/Hill AFB (11)	49.6	50.4	45.6	26.9	18.1	9.5	1.8	0.9	3.9	0.6	88.0	12.2	74.1	66.8	10.7	9.3	4.3	59.8	8.9	6.2	30.4	42.6	20.9	18.4	16.5	35.9	15.5	24.7	29.1	20.4	25.8	16.5	
Farmington/Centerville (14)	50.9	49.1	34.5	25.5	25.6	14.3	0.6	0.3	0.9	0.1	96.8	3.0	69.1	65.2	6.0	11.9	4.3	74.4	12.6	**	14.9	40.5	44.1	34.9	7.2	19.6	3.7	8.8	19.2	20.4	51.5	6.7	
Layton (12)	50.3	49.7	38.6	26.7	23.0	11.7	1.7	0.6	2.5	0.7	90.9	9.4	69.4	63.6	9.4	4.2	7.1	63.7	10.7	4.1	22.7	39.2	34.0	26.1	17.6	29.3	10.8	17.1	23.7	22.0	37.2	13.2	
Syracuse/Keyville (13)	50.5	49.5	34.7	31.5	22.4	11.5	0.9	0.6	1.1	0.1	95.5	4.5	71.6	60.2	7.8	14.8	8.3	70.0	9.0	4.6	19.8	35.3	40.3	31.7	7.4	20.0	5.8	11.5	17.1	19.8	51.6	12.2	
Woods Cross/North Salt Lake (15)	50.3	49.7	42.9	26.0	20.6	10.5	0.4	0.6	1.9	1.4	90.7	8.7	75.7	66.2	4.4	11.0	8.2	66.6	10.2	4.5	22.1	39.1	34.3	30.4	8.8	19.4	6.6	12.1	20.3	23.4	44.2	9.8	
Salt Lake County LHD	50.1	49.9	38.2	27.0	22.0	12.8	1.4	0.8	3.6	1.3	87.4	14.7	71.9	63.9	11.3	9.2	4.8	57.0	10.9	11.1	22.6	36.8	29.6	29.3	17.0	34.2	15.5	24.1	26.6	17.3	32.2	19.8	
Cottonwood (28)	51.0	49.0	29.8	22.3	27.1	20.8	0.9	0.5	3.0	0.1	94.1	3.4	66.9	58.7	8.8	9.7	5.6	59.6	17.2	3.7	17.3	36.8	42.1	39.0	12.5	23.9	3.6	15.8	22.2	17.3	44.7	15.6	
Holladay (27)	52.9	47.1	30.1	21.6	23.9	24.4	0.9	0.4	3.0	1.0	93.2	4.5	65.8	59.5	7.5	8.0	7.8	54.6	17.1	4.9	13.9	34.1	47.1	46.3	17.1	24.4	10.0	19.4	25.4	16.0	39.2	11.3	
Kearns (29) (1)	49.8	50.2	43.3	28.1	19.9	8.7	1.2	0.8	2.8	2.1	88.0	24.8	74.9	65.3	15.9	7.6	3.9	53.3	7.3	7.3	17.2	35.9	34.8	12.2	14.2	16.7	48.3	16.2	31.3	34.0	15.8	19.0	26.4
Magna (20)	49.6	50.4	43.8	27.3	20.1	8.9	0.3	1.3	1.0	1.8	90.0	20.6	74.5	64.9	16.4	12.1	**	60.7	5.1	14.8	35.7	41.0	8.6	11.9	21.4	47.2	16.0	26.0	38.1	24.5	11.5	24.3	
Midvale (32)	51.1	48.9	43.5	23.2	18.8	14.5	1.2	0.7	3.7	0.7	86.1	21.5	74.9	64.3	13.9	4.7	3.2	45.7	14.0	8.0	28.8	35.4	27.8	21.6	27.0	35.0	24.7	25.7	39.8	16.0	18.6	27.0	
Millcreek (26)	51.8	48.2	36.5	22.9	21.1	18.5	1.5	1.1	3.3	0.6	91.3	5.1	69.8	63.4	7.1	8.8	6.6	52.0	14.1	5.8	12.3	34.3	47.7	44.5	15.0	23.7	9.5	17.6	26.4	15.0	39.0	13.8	
Murray (31)	52.0	48.0	41.4	21.2	20.9	16.5	1.1	0.9	2.9	0.8	88.8	11.5	71.6	60.0	13.8	9.1	3.7	47.7	13.5	7.5	24.5	42.1	25.9	27.4	25.6	38.3	25.4	27.6	29.0	18.9	24.5	18.1	
Riverton/Draper (39)	48.3	51.7	38.7	19.7	7.9	0.9	0.4	0.8	93.0	6.4	70.9	66.3	8.8	14.3	4.3	93.0	6.3	3.4	18.5	41.4	36.7	29.5	41.1	36.7	29.5	9.7	21.2	6.7	9.8	19.4	17.9	52.9	13.2
SLC (Avenues) (18)	50.5	49.5	42.6	19.2	22.0	16.2	1.8	0.9	4.0	0.1	88.3	6.9	72.6	64.4	7.1	5.1	8.5	44.0	14.9	**	10.6	26.4	60.0	58.6	18.0	22.0	10.0	23.1	25.4	10.8	40.7	12.5	
SLC (Downtown) (24)	48.2	51.8	49.7	21.9	17.8	10.6	2.7	1.1	4.5	0.7	84.0	9.7	74.0	65.5	13.0	4.5	9.0	39.7	8.1	5.2	3.8	34.7	44.6	49.4	23.0	36.2	15.4	33.7	26.6	15.4	24.4	23.5	
SLC (Foothill/U of U) (19)	50.9	49.1	42.7	19.6	20.9	16.7	0.5	0.5	10.0	0.2	85.9	4.2	65.4	54.5	7.9	8.7	14.1	59.0	14.8	4.7	7.7	24.8	62.8	65.3	12.7	18.2	12.9	15.3	20.4	11.3	53.0	7.6	
SLC (Glendale) (21)	44.7	55.3	44.8	26.2	19.0	10.1	3.0	1.6	3.7	5.5	65.3	38.9	68.9	63.2	16.4	6.9	4.3	33.3	9.2	36.4	26.1	25.0	12.5	14.9	30.2	60.6	38.4	50.3	27.4	11.6	10.7	39.7	
	1	63	52	39	13	10	60	58	54	61	2	62	28	33	60	7	28	1	20	59	41	2	5	8	61	63	61	61	29	3	4	63	

# Appendix C: Demographic Summary Table

U.S.	Adult Female Population, 2012	Adult Male Population, 2012	Adults Ages 18-34, 2012	Adults Ages 35-49, 2012	Adults Ages 50-64, 2012	Adults Ages 65+	Black Population Ages 18+, 2008-2012	American Indian Population Ages 18+, 2008-2012	Asian Population Ages 18+, 2008-2012	Pacific Islander Population Ages 18+, 2008-2012	White Population Ages 18+, 2008-2012	Hispanic Population Ages 18+, 2008-2012	Workforce Ages 16+, 2008-2012	Employed Population Ages 18+, 2009-2012 <sup>†</sup>	Unemployed Population Ages 18+, 2009-2012 <sup>†</sup>	Homemaker Population Ages 18+, 2009-2012 <sup>†</sup>	Student Population Ages 18+, 2009-2012 <sup>†</sup>	Married Adults, 2009-2012 <sup>†</sup>	Retired Ages 18+, 2009-2012 <sup>†</sup>	No HS Degree Ages 25+, 2009-2012 <sup>†</sup>	High School Graduates Ages 25+, 2009-2012 <sup>†</sup>	Some College Education Ages 25+, 2009-2012 <sup>†</sup>	College Graduates Ages 25+, 2009-2012 <sup>†</sup>	Female College Graduates Ages 25+, 2008-2012	Single Mothers With Children, 2008-2012	Population Below 200% of Poverty Ages 18+, 2009-2012 <sup>†</sup>	Children in Poverty 0-17, 2008-2012	Income < \$25,000 Ages 18+, 2009-2012 <sup>†</sup>	Income \$25,000-\$49,999 Ages 18+, 2009-2012 <sup>†</sup>	Income \$50,000-\$74,999 Ages 18+, 2009-2012 <sup>†</sup>	Income \$75,000+ Ages 18+, 2009-2012 <sup>†</sup>	Uninsured Ages 18+, 2009-2012 <sup>†</sup>	
48.2	51.8	42.0	27.1	19.9	10.9	4.9	0.9	3.6	3.4	73.6	38.0	70.8	66.6	13.3	8.2	3.9	47.5	8.0	33.0	25.8	27.6	13.6	13.7	17.4	55.6	28.7	44.1	31.8	14.0	10.2	34.8		
51.1	48.9	37.3	25.7	22.6	14.4	0.7	3.1	0.3	91.8	8.1	72.1	68.9	11.9	6.2	2.9	40.0	27.9	33.2	37.0	34.5	49.9	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	
50.3	49.7	26.7	23.7	32.9	16.7	0.4	0.5	2.9	0.2	92.6	4.3	66.7	66.1	5.6	9.7	3.8	68.9	14.7	**	12.2	34.5	49.9	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
49.3	50.7	26.5	27.1	33.5	13.0	0.3	0.0	3.0	0.5	94.9	2.3	70.2	59.2	7.6	13.7	7.2	71.6	12.3	1.3	12.7	40.2	46.1	38.2	5.8	14.8	4.7	11.4	13.6	13.9	61.0	9.5		
12	52	2	46	63	31	11	1	45	29	50	1	38	20	16	55	47	58	38	1	7	42	57	54	2	1	4	4	1	10	63	5		
50.4	49.6	35.2	29.5	24.1	11.2	0.3	0.1	2.2	1.0	93.9	5.1	70.5	66.9	6.8	14.6	4.1	73.6	7.6	6.1	17.5	41.1	35.4	33.2	5.6	20.3	3.9	9.5	15.7	17.3	57.6	8.2		
36	28	22	56	49	21	16	2	35	47	44	12	39	59	11	60	23	62	9	2	16	47	44	47	1	6	3	2	2	25	62	4		
2	62	54	29	14	16	61	60	59	23	5	58	36	13	63	4	15	2	42	56	35	10	9	34	62	62	62	62	62	62	62	62	62	62
47.7	52.3	45.6	24.4	19.0	10.9	3.0	2.1	4.9	0.3	79.5	26.6	70.1	57.5	20.4	5.7	3.6	37.0	12.8	24.0	25.7	33.9	16.3	26.4	33.5	57.3	42.6	50.7	29.4	11.6	8.3	33.8		
51.8	48.2	39.8	22.7	24.0	13.5	1.8	1.0	3.4	1.3	84.2	13.5	73.5	66.7	10.9	7.4	1.9	49.9	13.2	12.1	27.6	35.9	24.4	21.5	28.0	37.6	23.2	29.7	29.3	17.4	23.6	24.2		
58	6	35	21	47	35	54	45	51	9	46	50	57	39	9	1	10	43	44	46	21	26	24	60	38	52	46	37	26	22	53			
50.4	49.6	37.7	24.1	26.5	11.7	**	**	**	**	58.8	14.2	8.7	2.7	61.6	15.6	9.3	27.0	46.0	17.8	**	**	**	**	**	**	24.3	**	19.3	31.3	21.4	28.1	16.2	
35	29	27	55	25	**	**	**	**	**	19	56	6	34	54	40	63	12	**	**	**	**	**	**	**	**	14	**	22	49	48	32	28	
51.0	49.0	39.9	26.1	24.0	9.9	1.3	0.6	2.6	1.2	89.3	14.0	71.2	68.1	9.9	6.9	6.4	59.7	9.0	13.0	24.2	38.8	24.0	23.3	20.2	31.5	12.3	16.9	29.9	24.2	29.0	21.2		
51	13	38	38	48	9	48	26	39	50	21	47	61	61	61	30	8	37	28	18	47	30	34	24	28	51	23	29	16	41	57	35	44	
50.8	49.2	39.8	29.2	21.8	9.2	1.1	1.1	2.7	1.0	90.4	15.4	76.9	68.3	12.0	6.8	5.6	58.6	7.3	8.9	31.2	39.8	20.0	22.2	13.9	35.6	13.9	23.1	26.1	19.0	31.8	21.4		
45	19	34	55	29	7	44	51	40	46	25	48	60	62	45	6	34	38	18	26	36	18	26	26	34	32	33	33	33	33	33	33	33	33
50.6	49.4	45.8	33.8	15.9	4.5	1.0	0.4	3.6	1.6	90.0	19.2	79.6	71.1	6.5	12.7	3.7	70.2	5.9	5.0	27.9	43.0	24.2	22.8	11.3	26.6	7.4	11.8	26.4	25.6	36.2	14.8		
41	23	55	6	1	41	15	52	55	23	53	62	63	7	53	17	57	4	13	47	13	47	58	25	27	17	11	6	25	62	45	20		
47.8	52.2	44.1	26.0	19.0	11.0	2.2	1.3	6.1	3.7	73.9	30.7	69.1	62.0	15.8	8.5	2.3	47.9	11.4	28.9	26.1	34.9	10.3	13.5	27.9	54.6	30.3	46.3	31.8	33.8	8.1	36.0		
3	61	51	36	12	19	57	56	61	60	4	60	29	31	57	15	2	8	30	57	40	17	2	5	59	59	59	59	60	51	9	1	62	
49.7	50.3	40.9	28.0	20.9	10.2	1.3	0.9	5.8	2.7	83.7	27.9	75.5	59.7	17.7	9.3	4.2	52.8	9.1	21.4	33.1	33.7	11.8	12.7	17.4	50.4	23.9	35.9	29.8	17.7	16.6	26.9		
16	48	40	51	26	11	49	40	60	58	7	59	58	23	62	25	24	15	19	55	58	9	3	3	4	57	57	57	57	40	28	10	58	
50.3	49.7	30.9	23.3	27.1	18.7	0.3	13.0	0.5	0.2	83.5	7.5	69.8	59.5	13.6	9.3	2.7	62.4	14.9	13.3	29.4	38.7	18.6	16.2	17.7	41.9	20.5	30.4	29.2	20.7	19.8	17.2		
50.3	49.7	32.0	21.4	27.6	19.0	0.4	0.9	0.6	0.0	94.6	8.9	60.6	56.6	14.2	10.5	2.4	64.0	16.3	12.8	31.2	40.4	15.6	12.3	16.0	36.9	13.9	29.6	25.1	21.6	23.7	14.5		
34	30	12	13	59	56	17	39	7	2	48	32	6	11	55	4	4	55	45	44	8	2	37	36	3	3	36	3	45	18	49	23	19	
50.1	49.9	30.6	25.1	26.7	17.6	0.3	43.3	0.4	0.4	58.0	4.5	55.6	63.6	13.3	7.9	4.0	58.2	11.3	15.1	26.6	35.7	22.7	18.4	23.0	51.4	30.5	34.7	34.4	18.1	12.8	24.4		
26	38	10	32	56	51	13	62	4	27	1	10	1	36	51	11	22	20	29	51	42	20	23	18	54	58	60	56	56	30	8	55		
51.1	48.9	33.3	21.1	22.2	13.4	0.3	1.2	0.8	0.6	94.1	7.5	65.2	54.0	11.0	10.0	5.8	64.3	19.3	6.7	27.4	40.8	25.2	21.5	15.0	42.8	20.2	30.0	32.0	19.2	18.9	21.0		
50.9	49.1	47.4	20.1	19.2	13.3	0.3	2.0	0.7	0.4	93.5	6.5	65.1	57.5	13.4	10.0	7.7	58.4	11.4	8.7	24.2	38.6	28.5	25.4	11.4	41.9	22.9	33.2	30.4	19.1	17.2	21.6		
48	16	56	8	15	33	12	59	9	26	41	21	14	14	52	32	49	21	31	35	31	33	33	29	20	49	50	53	44	36	11	46		
49.7	50.3	25.6	21.6	29.3	23.5	0.2	0.7	0.4	0.5	97.0	6.0	62.2	51.2	10.5	9.4	**	71.9	28.7	7.4	36.2	39.2	17.2	18.4	14.4	48.7	16.8	30.7	42.3	15.9	11.1	15.9		
17	47	1	16	60	60	4	30	3	28	62	17	9	2	36	26	**	59	63	29	63	36	10	19	28	55	41	49	63	16	5	23		
51.8	48.2	34.2	19.0	20.0	26.8	0.5	1.0	1.2	0.6	92.3	9.9	57.6	51.9	9.2	10.5	7.0	60.3	21.4	7.6	24.2	40.3	28.0	21.3	15.6	38.7	17.8	30.9	28.8	19.4	20.9	23.3		
59	5	18	5	20	63	27	47	21	33	34	37	2	3	28	36	44	31	62	31	29	43	32	23	34	43	44	50	34	39	18	49		
50.7	49.3	30.3	21.4	24.6	23.8	0.1	1.2	0.5	0.7	95.6	5.8	59.2	55.8	11.1	9.4	5.3	67.8	18.4	7.2	29.1	41.2	22.6	20.9	17.2	48.0	22.0	29.2	31.9	19.5	23.3			
44	20	9	12	51	61	3	54	5	38	56	16	3	8	40	27	32	48	61	28	49	48	22	22	43	53	49	44	53	38	16	51		
48.5	51.5	27.1	31.0	29.9	12.0	0.3	0.2	1.6	**	95.4	9.7	73.8	67.0	7.7	9.5	5.2	64.6	10.7	8.1	17.8	29.1	45.0	46.7	10.9	21.0	9.6	15.1	22.1	16.8	46.1	17.2		
9	55	4	59	61	27	14	4	28	**	53	26	31	42	25	34	17																	

# Appendix C: Demographic Summary Table

	Adult Female Population, 2012	Adult Male Population, 2012	Adults Ages 18-34, 2012	Adults Ages 35-49, 2012	Adults Ages 50-64, 2012	Adults Ages 65+	Black Population Ages 18+, 2008-2012	American Indian Population Ages 18+, 2008-2012	Asian Population Ages 18+, 2008-2012	Pacific Islander Population Ages 18+, 2008-2012	White Population Ages 18+, 2008-2012	Hispanic Population Ages 18+, 2008-2012	Workforce Ages 16+, 2008-2012	Employed Population Ages 18+, 2009-2012 <sup>1</sup>	Unemployed Population Ages 18+, 2009-2012 <sup>1</sup>	Homemaker Population Ages 18+, 2009-2012 <sup>1</sup>	Student Population Ages 18+, 2009-2012 <sup>1</sup>	Married Adults, 2009-2012 <sup>2</sup>	Retired Ages 18+, 2009-2012 <sup>2</sup>	No HS Degree Ages 25+, 2009-2012 <sup>2</sup>	Some College Education Ages 25+, 2009-2012 <sup>2</sup>	College Graduates Ages 25+, 2009-2012 <sup>2</sup>	Female College Graduates Ages 25+, 2008-2012	Single Mothers With Children, 2008-2012	Population Below 200% of Poverty Ages 18+, 2009-2012 <sup>2</sup>	Children in Poverty Ages 0-17, 2008-2012	Income <\$5,000 Ages 18+, 2009-2012 <sup>2</sup>	Income \$5,000-\$14,999 Ages 18+, 2009-2012 <sup>2</sup>	Income \$15,000-\$24,999 Ages 18+, 2009-2012 <sup>2</sup>	Income \$25,000-\$34,999 Ages 18+, 2009-2012 <sup>2</sup>	Income \$35,000-\$44,999 Ages 18+, 2009-2012 <sup>2</sup>	Income \$45,000-\$54,999 Ages 18+, 2009-2012 <sup>2</sup>	Income \$55,000-\$64,999 Ages 18+, 2009-2012 <sup>2</sup>	Income \$65,000-\$74,999 Ages 18+, 2009-2012 <sup>2</sup>	Income \$75,000+ Ages 18+, 2009-2012 <sup>2</sup>	Uninsured Ages 18+, 2009-2012 <sup>2</sup>		
U.S.	51.5	48.5	30.6	27.2	25.1	17.2	12.0	0.8	4.9	0.2	76.1	14.2	64.7	55.4	15.2	6.9	6.0	50.1	16.6	15.2	39.0	30.3	25.5	28.2	24.5	20.8	32.1	25.2	15.0	27.6	18.3	18.3	18.3	18.3	18.3			
State of Utah	50.2	49.8	39.2	25.8	21.2	13.8	0.9	1.1	2.3	0.8	90.1	11.3	68.9	61.7	10.2	10.7	5.9	60.8	11.5	9.0	23.6	38.1	29.4	27.0	14.5	35.1	20.6	23.8	27.3	18.8	30.2	18.8	30.2	18.8	30.2	18.8		
Orem East (46)	57.7	48.8	38.8	20.7	17.3	10.4	0.5	2.1	0.8	91.7	8.0	61.4	58.0	6.6*	12.3	9.0	65.5	14.1	5.3*	13.2	38.0	43.4	35.1	9.2	27.7	15.1	20.6	24.8	18.7	35.9	19.2	31.7	43.3	38.8	38.8	38.8		
Orem North (44)	50.5	49.5	49.1	21.5	18.5	11.0	0.4	0.7	1.6	0.6	87.6	18.8	69.1	62.1	10.0	12.0	7.0	58.8	8.9	11.3	17.4	39.9	31.5	26.2	15.6	37.4	23.0	27.2	28.7	19.5	24.6	18.6	18.6	18.6	18.6	18.6		
Orem West (45)	50.2	49.8	57.3	16.5	15.1	11.1	0.9	0.6	1.5	0.7	91.6	11.0	72.7	55.5	8.9	12.2	12.1	57.9	11.4	5.0*	9.3	45.2	40.6	30.4	14.1	40.9	17.3	28.3	28.2	21.9	21.6	19.7	19.7	19.7	19.7	19.7		
Pleasant Grove/Lindon (43)	49.9	49.1	41.4	28.4	18.6	11.5	0.4	0.3	1.8	0.1	95.0	6.5	68.3	59.6	12.5	13.9	6.9	65.6	7.2	4.6	15.8	43.0	36.7	30.9	7.9	35.1	10.9	17.8	25.0	21.0	36.2	13.3	13.3	13.3	13.3	13.3	13.3	
Provo North/BYU (47)	49.9	50.1	68.8	9.6	10.6	10.9	1.0	0.6	3.1	1.4	89.8	7.5	60.7	48.3	5.5	11.2	23.2	52.2	11.9	**	11.3	38.0	47.6	44.1	10.5	39.2	19.1	33.0	24.6	13.7	28.7	13.6	13.6	13.6	13.6	13.6	13.6	
Provo South (48)	51.1	48.9	70.9	14.3	9.5	5.3	0.4	0.9	2.4	1.4	88.1	17.4	74.0	55.8	13.2	11.3	15.0	49.2	4.7	12.1	20.2	38.4	29.4	31.9	13.2	55.4	25.7	51.2	25.4	11.8	11.6	26.7	26.7	26.7	26.7	26.7	26.7	
Springville/Spanish Fork (49)	50.1	49.9	41.2	27.2	19.2	12.4	0.2	0.8	0.4	0.5	93.8	7.7	68.1	64.4	7.7	13.6	5.7	69.2	8.6	5.6	21.5	42.2	30.8	26.0	8.4	33.4	7.4	20.5	25.3	23.4	30.8	19.1	19.1	19.1	19.1	19.1	19.1	19.1
Utah Co. South (50)	49.8	50.2	39.8	27.6	20.1	12.5	0.4	0.9	0.8	0.1	92.7	10.3	67.5	58.0	10.8	14.1	7.2	69.4	9.9	10.0	27.5	42.0	37.6	18.1	9.7	44.6	10.8	24.2	30.0	24.4	21.3	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Wasatch County LHD (52)	49.2	50.8	31.2	30.8	24.4	13.6	0.2	0.3	1.1	0.1*	96.5	11.2	71.1	65.3	9.7	10.6	2.3	65.3	12.1	8.8	24.0	37.0	30.1	28.8	9.7	28.8	10.0	16.7	31.9	16.7	34.7	20.0	20.0	20.0	20.0	20.0	20.0	
Weber-Morgan LHD	50.2	49.8	36.4	25.5	23.0	15.1	1.3	0.8	1.4	0.2	89.0	13.7	68.2	62.0	9.6	9.6	4.8	59.2	13.9	9.4	29.5	36.8	24.3	19.9	18.3	32.2	15.0	23.1	29.2	19.9	27.8	16.7	16.7	16.7	16.7	16.7	16.7	
Ben Lomond (5)	50.0	50.0	39.6	24.5	22.0	13.9	1.6	0.8	1.2	0.2	85.5	16.9	68.5	61.7	11.6	8.9	5.7	54.5	12.1	16.6	34.5	31.7	17.2	12.9	21.4	39.1	17.4	28.5	30.6	22.4	18.6	15.8	15.8	15.8	15.8	15.8	15.8	
Morgan Co (All)/Weber Co. (East) (6)	50.1	49.9	28.8	26.7	27.5	17.1	0.2	0.3	0.6	0.0*	96.8	4.3	67.1	62.0	6.7	11.5	4.7	68.9	15.1	4.1*	25.7	38.3	31.9	29.2	9.0	23.8	5.0	13.8	23.1	22.2	41.0	12.4	12.4	12.4	12.4	12.4	12.4	12.4
Ogden (Downtown) (7)	48.3	51.7	40.8	26.9	21.0	11.4	2.9	1.0	1.6	0.2	82.4	23.0	68.0	56.1	17.0	11.7	2.7	52.3	12.6	19.3	32.7	27.7	20.3	17.7	25.3	41.9	26.8	38.5	27.6	14.3	19.8	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Riverdale (10)	51.0	49.0	37.7	22.9	21.7	17.6	1.7	0.5	1.1	0.3	91.4	11.1	68.6	61.9	6.4	6.6	6.9	58.5	18.3	3.7*	26.0	44.7	25.6	18.2	18.3	27.0	11.0	17.8	33.2	20.6	28.4	11.9	11.9	11.9	11.9	11.9	11.9	
Roy/Hooper (9)	50.5	49.5	38.4	26.4	21.9	13.4	0.5	0.8	2.0	0.4	92.4	10.2	69.9	65.3	8.7	8.4	2.9	62.0	14.8	5.8	31.1	43.8	19.2	17.4	16.4	27.2	9.4	17.1	31.2	25.3	26.4	16.7	16.7	16.7	16.7	16.7	16.7	
South Ogden (8)	50.7	49.3	39.8	21.4	22.0	16.8	1.0	1.0	2.0	0.3	86.9	15.7	66.8	63.8	10.2	8.8	6.4	52.4	10.9	8.7	23.6	33.2	34.5	26.6	18.2	35.8	21.0	26.3	31.0	12.7	30.0	22.7	22.7	22.7	22.7	22.7	22.7	

<sup>1</sup>State rank is by 63 small areas for unexpressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>2</sup>U.S. rate not available. <sup>3</sup>2011-2012 data were used to calculate U.S. rates. <sup>4</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>5</sup>In 2012, the Taylorsville, Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) and Taylorsville (West) Utah Small Area was created (Appendix A). <sup>6</sup>Data are from 2012. <sup>7</sup>Insufficient number of cases to meet UDOH standards for data reliability; interpret with caution. <sup>8</sup>The rate has been suppressed because the observed number of events is <5 or the estimate is unreliable.

# Appendix D: Demographic Summary Characteristics by Small Area

Female Population by Small Area, Health District, Utah, or U.S, 2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2012 Females 18+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	240,185,952	123,621,409	51.5	50.5	52.4
	State of Utah	1,967,315	987,513	50.2	49.2	51.2
	Bear River LHD	114,924	58,020	50.5	49.5	51.5
42	Brigham City (1)	16,086	8,134	50.6	49.6	51.5
21	Box Elder County (Other) (2)	17,287	8,622	49.9	48.9	50.9
13	Cache Co (Oth)/Rich Co (All) (4)	27,519	13,637	49.6	48.6	50.5
49	Logan (3)	53,455	27,231	50.9	50.0	51.9
	Central Utah LHD	52,303	25,540	48.8	47.9	49.8
8	Juab/Millard/Sanpete Counties (54)	34,778	16,823	48.4	47.4	49.4
24	Sevier/Piute/Wayne Counties (55)	17,651	8,822	50.0	49.0	51.0
	Davis County LHD	209,077	105,399	50.4	49.4	51.4
61	Bountiful (16)	32,734	16,985	51.9	50.9	52.9
14	Clearfield/Hill AFB (11)	44,893	22,257	49.6	48.6	50.6
46	Farmington/Centerville (14)	23,643	12,027	50.9	49.9	51.8
30	Layton (12)	50,686	25,488	50.3	49.3	51.3
38	Syracuse/Kaysville (13)	36,386	18,374	50.5	49.5	51.5
31	Woods Cross/North Salt Lake (15)	20,675	10,398	50.3	49.3	51.3
	Salt Lake County LHD	757,119	378,991	50.1	49.1	51.0
53	Cottonwood (28)	33,211	16,941	51.0	50.0	52.0
63	Holladay (27)	35,928	19,015	52.9	51.9	53.9
19	Kearns (29) (29.1) <sup>§</sup>	25,972	12,933	49.8	48.8	50.8
15	Magna (20)	17,913	8,889	49.6	48.6	50.6
54	Midvale (32)	22,833	11,660	51.1	50.1	52.0
60	Millcreek (26)	43,883	22,748	51.8	50.9	52.8
62	Murray (31)	25,516	13,274	52.0	51.0	53.0
6	Riverton/Draper (39)	74,334	35,892	48.3	47.3	49.3
37	SLC (Avenues) (18)	18,589	9,386	50.5	49.5	51.5
4	SLC (Downtown) (24)	43,048	20,770	48.2	47.3	49.2
47	SLC (Foothill/U of U) (19)	18,546	9,436	50.9	49.9	51.9
1	SLC (Glendale) (21)	22,235	9,932	44.7	43.7	45.6
5	SLC (Rose Park) (17)	23,310	11,247	48.2	47.3	49.2
56	Sandy Center (36)	38,657	19,763	51.1	50.1	52.1
29	Sandy (NE) (37)	16,992	8,544	50.3	49.3	51.3
36	Sandy (SE) (38)	36,470	18,392	50.4	49.5	51.4
2	South Jordan (35)	20,259	9,664	47.7	46.7	48.7
58	South Salt Lake (25)	27,559	14,274	51.8	50.8	52.8
35	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	27,721	13,966	50.4	49.4	51.4
51	Taylorsville (West) (30.1)	21,746	11,082	51.0	50.0	51.9
12	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,375	10,534	49.3	48.3	50.3
45	West Jordan (SE) (34.1)	24,374	12,374	50.8	49.8	51.7
41	West Jordan West, Copperton (34.2)	26,643	13,471	50.6	49.6	51.5
3	West Valley East (23) (23.1) <sup>§</sup>	37,199	17,786	47.8	46.8	48.8
16	West Valley West (22)	53,441	26,562	49.7	48.7	50.7
	Southeastern Utah LHD	40,317	20,277	50.3	49.3	51.3
34	Carbon/Emery Counties (56)	23,192	11,674	50.3	49.4	51.3
26	Grand/San Juan Counties (57)	17,103	8,573	50.1	49.1	51.1
	Southwest Utah LHD	148,401	75,900	51.1	50.2	52.1
48	Cedar City (60)	29,168	14,845	50.9	49.9	51.9
17	Southwest LHD (Other) (61)	17,288	8,596	49.7	48.7	50.7
59	St. George (58)	56,177	29,112	51.8	50.8	52.8
44	Washington Co. (Other) (59)	45,712	23,180	50.7	49.7	51.7
9	Summit County LHD (51)	27,801	13,493	48.5	47.6	49.5
20	Tooele County LHD (40)	38,707	19,303	49.9	48.9	50.8
10	TriCounty LHD (53)	36,560	17,947	49.1	48.1	50.1
	Utah County LHD	352,433	177,553	50.4	49.4	51.4
32	American Fork/Alpine (42)	33,188	16,695	50.3	49.3	51.3
33	Lehi/Cedar Valley (41)	52,992	26,660	50.3	49.3	51.3
57	Orem East (46)	15,059	7,711	51.2	50.2	52.2
40	Orem North (44)	25,424	12,844	50.5	49.5	51.5
28	Orem West (45)	23,220	11,658	50.2	49.2	51.2
50	Pleasant Grove/Lindon (43)	33,977	17,310	50.9	50.0	51.9
22	Provo North/BYU (47)	41,689	20,812	49.9	48.9	50.9
55	Provo South (48)	49,593	25,328	51.1	50.1	52.1
25	Springville/Spanish Fork (49)	54,228	27,177	50.1	49.1	51.1
18	Utah Co. South (50)	22,548	11,220	49.8	48.8	50.7
11	Wasatch County LHD (52)	16,912	8,325	49.2	48.2	50.2
	Weber-Morgan LHD	172,761	86,765	50.2	49.2	51.2
23	Ben Lomond (5)	40,310	20,144	50.0	49.0	51.0
27	Morgan Co (All)/Weber Co. (East) (6)	29,995	15,039	50.1	49.2	51.1
7	Ogden (Downtown) (7)	26,184	12,653	48.3	47.3	49.3
52	Riverdale (10)	18,568	9,465	51.0	50.0	52.0
39	Roy/Hooper (9)	30,718	15,517	50.5	49.5	51.5
43	South Ogden (8)	26,920	13,646	50.7	49.7	51.7

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). Source: National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau.

Male Population by Small Area, Health District, Utah, or U.S., 2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2012 Males 18+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	240,185,952	116,564,543	48.5	47.6	49.5
	State of Utah	1,967,315	979,802	49.8	48.8	50.8
	Bear River LHD	114,924	56,904	49.5	48.5	50.5
22	Brigham City (1)	16,086	7,952	49.4	48.5	50.4
43	Box Elder County (Other) (2)	17,287	8,665	50.1	49.1	51.1
51	Cache Co (Oth)/Rich Co (All) (4)	27,519	13,882	50.4	49.5	51.4
15	Logan (3)	53,455	26,224	49.1	48.1	50.0
	Central Utah LHD	52,303	26,763	51.2	50.2	52.1
56	Juab/Millard/Sanpete Counties (54)	34,778	17,955	51.6	50.6	52.6
40	Sevier/Piute/Wayne Counties (55)	17,651	8,829	50.0	49.0	51.0
	Davis County LHD	209,077	103,678	49.6	48.6	50.6
3	Bountiful (16)	32,734	15,749	48.1	47.1	49.1
50	Clearfield/Hill AFB (11)	44,893	22,636	50.4	49.4	51.4
18	Farmington/Centerville (14)	23,643	11,616	49.1	48.2	50.1
34	Layton (12)	50,686	25,198	49.7	48.7	50.7
26	Syracuse/Kaysville (13)	36,386	18,012	49.5	48.5	50.5
33	Woods Cross/North Salt Lake (15)	20,675	10,277	49.7	48.7	50.7
	Salt Lake County LHD	757,119	378,128	49.9	49.0	50.9
11	Cottonwood (28)	33,211	16,270	49.0	48.0	50.0
1	Holladay (27)	35,928	16,913	47.1	46.1	48.1
45	Kearns (29) (29.1) <sup>§</sup>	25,972	13,039	50.2	49.2	51.2
49	Magna (20)	17,913	9,024	50.4	49.4	51.4
10	Midvale (32)	22,833	11,173	48.9	48.0	49.9
4	Millcreek (26)	43,883	21,135	48.2	47.2	49.1
2	Murray (31)	25,516	12,242	48.0	47.0	49.0
58	Riverton/Draper (39)	74,334	38,442	51.7	50.7	52.7
27	SLC (Avenues) (18)	18,589	9,203	49.5	48.5	50.5
60	SLC (Downtown) (24)	43,048	22,278	51.8	50.8	52.7
17	SLC (Foothill/U of U) (19)	18,546	9,110	49.1	48.1	50.1
63	SLC (Glendale) (21)	22,235	12,303	55.3	54.4	56.3
59	SLC (Rose Park) (17)	23,310	12,063	51.8	50.8	52.7
8	Sandy Center (36)	38,657	18,894	48.9	47.9	49.9
35	Sandy (NE) (37)	16,992	8,448	49.7	48.7	50.7
28	Sandy (SE) (38)	36,470	18,078	49.6	48.6	50.5
62	South Jordan (35)	20,259	10,595	52.3	51.3	53.3
6	South Salt Lake (25)	27,559	13,285	48.2	47.2	49.2
29	Taylorsville (East)/Murray (West) (30) <sup>π</sup>	27,721	13,755	49.6	48.6	50.6
13	Taylorsville (West) (30.1)	21,746	10,664	49.0	48.1	50.0
52	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,375	10,841	50.7	49.7	51.7
19	West Jordan (SE) (34.1)	24,374	12,000	49.2	48.3	50.2
23	West Jordan West, Copperton (34.2)	26,643	13,172	49.4	48.5	50.4
61	West Valley East (23) (23.1) <sup>§</sup>	37,199	19,413	52.2	51.2	53.2
48	West Valley West (22)	53,441	26,879	50.3	49.3	51.3
	Southeastern Utah LHD	40,317	20,040	49.7	48.7	50.7
30	Carbon/Emery Counties (56)	23,192	11,518	49.7	48.7	50.6
38	Grand/San Juan Counties (57)	17,103	8,530	49.9	48.9	50.9
	Southwest Utah LHD	148,401	72,501	48.9	47.9	49.8
16	Cedar City (60)	29,168	14,323	49.1	48.1	50.1
47	Southwest LHD (Other) (61)	17,288	8,692	50.3	49.3	51.3
5	St. George (58)	56,177	27,065	48.2	47.2	49.2
20	Washington Co. (Other) (59)	45,712	22,532	49.3	48.3	50.3
55	Summit County LHD (51)	27,801	14,308	51.5	50.5	52.4
44	Tooele County LHD (40)	38,707	19,404	50.1	49.2	51.1
54	TriCounty LHD (53)	36,560	18,613	50.9	49.9	51.9
	Utah County LHD	352,433	174,880	49.6	48.6	50.6
32	American Fork/Alpine (42)	33,188	16,493	49.7	48.7	50.7
31	Lehi/Cedar Valley (41)	52,992	26,332	49.7	48.7	50.7
7	Orem East (46)	15,059	7,348	48.8	47.8	49.8
24	Orem North (44)	25,424	12,580	49.5	48.5	50.5
36	Orem West (45)	23,220	11,562	49.8	48.8	50.8
14	Pleasant Grove/Lindon (43)	33,977	16,667	49.1	48.1	50.0
42	Provo North/BYU (47)	41,689	20,877	50.1	49.1	51.1
9	Provo South (48)	49,593	24,265	48.9	47.9	49.9
39	Springville/Spanish Fork (49)	54,228	27,051	49.9	48.9	50.9
46	Utah Co. South (50)	22,548	11,328	50.2	49.3	51.2
53	Wasatch County LHD (52)	16,912	8,587	50.8	49.8	51.8
	Weber-Morgan LHD	172,761	85,996	49.8	48.8	50.8
41	Ben Lomond (5)	40,310	20,166	50.0	49.0	51.0
37	Morgan Co (All)/Weber Co. (East) (6)	29,995	14,956	49.9	48.9	50.8
57	Ogden (Downtown) (7)	26,184	13,531	51.7	50.7	52.7
12	Riverdale (10)	18,568	9,103	49.0	48.0	50.0
25	Roy/Hooper (9)	30,718	15,201	49.5	48.5	50.5
21	South Ogden (8)	26,920	13,274	49.3	48.3	50.3

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>π</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). Source: National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau.

Adult Population 18-34 Years Old by Small Area, Health District, Utah, or U.S., 2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2012 Adults 18-34	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	240,185,952	73,455,359	30.6	29.7	31.5
	State of Utah	1,967,315	772,035	39.2	38.3	40.2
	Bear River LHD	114,924	50,462	43.9	42.9	44.9
15	Brigham City (1)	16,086	5,492	34.1	33.2	35.1
14	Box Elder County (Other) (2)	17,287	5,840	33.8	32.9	34.7
21	Cache Co (Oth)/Rich Co (All) (4)	27,519	9,685	35.2	34.3	36.1
60	Logan (3)	53,455	30,409	56.9	55.9	57.9
	Central Utah LHD	52,303	17,162	32.8	31.9	33.7
23	Juab/Millard/Sanpete Counties (54)	34,778	12,496	35.9	35.0	36.9
6	Sevier/Piute/Wayne Counties (55)	17,651	5,151	29.2	28.3	30.1
	Davis County LHD	209,077	77,128	36.9	35.9	37.8
13	Bountiful (16)	32,734	10,542	32.2	31.3	33.1
53	Clearfield/Hill AFB (11)	44,893	20,458	45.6	44.6	46.5
19	Farmington/Centerville (14)	23,643	8,167	34.5	33.6	35.5
30	Layton (12)	50,686	19,588	38.6	37.7	39.6
20	Syracuse/Kaysville (13)	36,386	12,633	34.7	33.8	35.7
47	Woods Cross/North Salt Lake (15)	20,675	8,872	42.9	41.9	43.9
	Salt Lake County LHD	757,119	289,361	38.2	37.3	39.2
7	Cottonwood (28)	33,211	9,881	29.8	28.9	30.6
8	Holladay (27)	35,928	10,826	30.1	29.2	31.0
48	Kearns (29) (29.1) <sup>§</sup>	25,972	11,241	43.3	42.3	44.3
50	Magna (20)	17,913	7,842	43.8	42.8	44.8
49	Midvale (32)	22,833	9,923	43.5	42.5	44.4
24	Millcreek (26)	43,883	16,034	36.5	35.6	37.5
42	Murray (31)	25,516	10,574	41.4	40.5	42.4
31	Riverton/Draper (39)	74,334	28,777	38.7	37.8	39.7
45	SLC (Avenues) (18)	18,589	7,910	42.6	41.6	43.5
58	SLC (Downtown) (24)	43,048	21,389	49.7	48.7	50.7
46	SLC (Foothill/U of U) (19)	18,546	7,928	42.7	41.8	43.7
52	SLC (Glendale) (21)	22,235	9,953	44.8	43.8	45.7
44	SLC (Rose Park) (17)	23,310	9,797	42.0	41.1	43.0
25	Sandy Center (36)	38,657	14,402	37.3	36.3	38.2
3	Sandy (NE) (37)	16,992	4,534	26.7	25.8	27.6
22	Sandy (SE) (38)	36,470	12,846	35.2	34.3	36.2
54	South Jordan (35)	20,259	9,240	45.6	44.6	46.6
35	South Salt Lake (25)	27,559	10,963	39.8	38.8	40.7
27	Taylorsville (East)/Murray (West) (30) <sup>π</sup>	27,721	10,455	37.7	36.8	38.7
38	Taylorsville (West) (30.1)	21,746	8,679	39.9	39.0	40.9
2	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,375	5,656	26.5	25.6	27.3
34	West Jordan (SE) (34.1)	24,374	9,690	39.8	38.8	40.7
55	West Jordan West, Copperton (34.2)	26,643	12,210	45.8	44.9	46.8
51	West Valley East (23) (23.1) <sup>§</sup>	37,199	16,391	44.1	43.1	45.0
40	West Valley West (22)	53,441	21,831	40.9	39.9	41.8
	Southeastern Utah LHD	40,317	12,446	30.9	30.0	31.8
12	Carbon/Emery Counties (56)	23,192	7,424	32.0	31.1	32.9
10	Grand/San Juan Counties (57)	17,103	5,236	30.6	29.7	31.5
	Southwest Utah LHD	148,401	49,390	33.3	32.4	34.2
56	Cedar City (60)	29,168	13,817	47.4	46.4	48.3
1	Southwest LHD (Other) (61)	17,288	4,418	25.6	24.7	26.4
18	St. George (58)	56,177	19,225	34.2	33.3	35.2
9	Washington Co. (Other) (59)	45,712	13,833	30.3	29.4	31.2
4	Summit County LHD (51)	27,801	7,523	27.1	26.2	27.9
17	Tooele County LHD (40)	38,707	13,241	34.2	33.3	35.1
26	TriCounty LHD (53)	36,560	13,716	37.5	36.6	38.5
	Utah County LHD	352,433	173,489	49.2	48.2	50.2
16	American Fork/Alpine (42)	33,188	11,336	34.2	33.2	35.1
59	Lehi/Cedar Valley (41)	52,992	26,953	50.9	49.9	51.8
32	Orem East (46)	15,059	5,848	38.8	37.9	39.8
57	Orem North (44)	25,424	12,472	49.1	48.1	50.0
61	Orem West (45)	23,220	13,298	57.3	56.3	58.2
43	Pleasant Grove/Lindon (43)	33,977	14,082	41.4	40.5	42.4
62	Provo North/BYU (47)	41,689	28,692	68.8	67.9	69.7
63	Provo South (48)	49,593	35,165	70.9	70.0	71.8
41	Springville/Spanish Fork (49)	54,228	22,316	41.2	40.2	42.1
37	Utah Co. South (50)	22,548	8,983	39.8	38.9	40.8
11	Wasatch County LHD (52)	16,912	5,276	31.2	30.3	32.1
	Weber-Morgan LHD	172,761	62,841	36.4	35.4	37.3
33	Ben Lomond (5)	40,310	15,980	39.6	38.7	40.6
5	Morgan Co (All)/Weber Co. (East) (6)	29,995	8,636	28.8	27.9	29.7
39	Ogden (Downtown) (7)	26,184	10,670	40.8	39.8	41.7
28	Riverdale (10)	18,568	7,005	37.7	36.8	38.7
29	Roy/Hooper (9)	30,718	11,790	38.4	37.4	39.3
36	South Ogden (8)	26,920	10,715	39.8	38.8	40.8

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>π</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). Source: National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau.

Adult Population 35-49 Years Old by Small Area, Health District, Utah, or U.S., 2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2012 Adults 35-49	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	240,185,952	65,307,816	27.2	26.3	28.1
	State of Utah	1,967,315	506,899	25.8	24.9	26.6
	Bear River LHD	114,924	26,116	22.7	21.9	23.5
28	Brigham City (1)	16,086	3,917	24.4	23.5	25.2
34	Box Elder County (Other) (2)	17,287	4,422	25.6	24.7	26.4
41	Cache Co (Oth)/Rich Co (All) (4)	27,519	7,303	26.5	25.7	27.4
4	Logan (3)	53,455	9,494	17.8	17.0	18.5
	Central Utah LHD	52,303	12,270	23.5	22.6	24.3
24	Juab/Millard/Sanpete Counties (54)	34,778	7,957	22.9	22.1	23.7
20	Sevier/Piute/Wayne Counties (55)	17,651	3,953	22.4	21.6	23.2
	Davis County LHD	209,077	58,208	27.8	27.0	28.7
18	Bountiful (16)	32,734	7,263	22.2	21.4	23.0
44	Clearfield/Hill AFB (11)	44,893	12,056	26.9	26.0	27.7
33	Farmington/Centerville (14)	23,643	6,034	25.5	24.7	26.4
43	Layton (12)	50,686	13,512	26.7	25.8	27.5
61	Syracuse/Kaysville (13)	36,386	11,450	31.5	30.6	32.4
37	Woods Cross/North Salt Lake (15)	20,675	5,374	26.0	25.1	26.9
	Salt Lake County LHD	757,119	204,758	27.0	26.2	27.9
19	Cottonwood (28)	33,211	7,419	22.3	21.5	23.2
15	Holladay (27)	35,928	7,767	21.6	20.8	22.4
52	Kearns (29) (29.1) <sup>§</sup>	25,972	7,303	28.1	27.2	29.0
49	Magna (20)	17,913	4,889	27.3	26.4	28.2
25	Midvale (32)	22,833	5,305	23.2	22.4	24.1
22	Millcreek (26)	43,883	10,036	22.9	22.0	23.7
10	Murray (31)	25,516	5,405	21.2	20.4	22.0
62	Riverton/Draper (39)	74,334	25,056	33.7	32.8	34.6
6	SLC (Avenues) (18)	18,589	3,565	19.2	18.4	19.9
17	SLC (Downtown) (24)	43,048	9,416	21.9	21.1	22.7
7	SLC (Foothill/U of U) (19)	18,546	3,643	19.6	18.9	20.4
39	SLC (Glendale) (21)	22,235	5,816	26.2	25.3	27.0
47	SLC (Rose Park) (17)	23,310	6,321	27.1	26.2	28.0
35	Sandy Center (36)	38,657	9,946	25.7	24.9	26.6
26	Sandy (NE) (37)	16,992	4,029	23.7	22.9	24.5
56	Sandy (SE) (38)	36,470	10,748	29.5	28.6	30.4
29	South Jordan (35)	20,259	4,953	24.4	23.6	25.3
21	South Salt Lake (25)	27,559	6,268	22.7	21.9	23.6
27	Taylorsville (East)/Murray (West) (30) <sup>π</sup>	27,721	6,685	24.1	23.3	25.0
38	Taylorsville (West) (30.1)	21,746	5,679	26.1	25.3	27.0
46	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,375	5,784	27.1	26.2	27.9
55	West Jordan (SE) (34.1)	24,374	7,112	29.2	28.3	30.1
63	West Jordan West, Copperton (34.2)	26,643	9,014	33.8	32.9	34.8
36	West Valley East (23) (23.1) <sup>§</sup>	37,199	9,655	26.0	25.1	26.8
51	West Valley West (22)	53,441	14,956	28.0	27.1	28.9
	Southeastern Utah LHD	40,317	9,413	23.3	22.5	24.2
13	Carbon/Emery Counties (56)	23,192	4,966	21.4	20.6	22.2
32	Grand/San Juan Counties (57)	17,103	4,294	25.1	24.3	26.0
	Southwest Utah LHD	148,401	31,381	21.1	20.3	21.9
8	Cedar City (60)	29,168	5,867	20.1	19.3	20.9
16	Southwest LHD (Other) (61)	17,288	3,742	21.6	20.8	22.5
5	St. George (58)	56,177	10,657	19.0	18.2	19.7
12	Washington Co. (Other) (59)	45,712	9,788	21.4	20.6	22.2
59	Summit County LHD (51)	27,801	8,613	31.0	30.1	31.9
60	Tooele County LHD (40)	38,707	12,138	31.4	30.4	32.3
31	TriCounty LHD (53)	36,560	9,037	24.7	23.9	25.6
	Utah County LHD	352,433	85,693	24.3	23.5	25.2
57	American Fork/Alpine (42)	33,188	10,133	30.5	29.6	31.4
54	Lehi/Cedar Valley (41)	52,992	15,247	28.8	27.9	29.7
9	Orem East (46)	15,059	3,117	20.7	19.9	21.5
14	Orem North (44)	25,424	5,466	21.5	20.7	22.3
3	Orem West (45)	23,220	3,834	16.5	15.8	17.2
53	Pleasant Grove/Lindon (43)	33,977	9,658	28.4	27.5	29.3
1	Provo North/BYU (47)	41,689	3,995	9.6	9.0	10.2
2	Provo South (48)	49,593	7,073	14.3	13.6	14.9
48	Springville/Spanish Fork (49)	54,228	14,769	27.2	26.4	28.1
50	Utah Co. South (50)	22,548	6,234	27.6	26.8	28.5
58	Wasatch County LHD (52)	16,912	5,203	30.8	29.9	31.7
	Weber-Morgan LHD	172,761	44,069	25.5	24.7	26.4
30	Ben Lomond (5)	40,310	9,863	24.5	23.6	25.3
42	Morgan Co (All)/Weber Co. (East) (6)	29,995	7,996	26.7	25.8	27.5
45	Ogden (Downtown) (7)	26,184	7,036	26.9	26.0	27.7
23	Riverdale (10)	18,568	4,248	22.9	22.1	23.7
40	Roy/Hooper (9)	30,718	8,095	26.4	25.5	27.2
11	South Ogden (8)	26,920	5,749	21.4	20.6	22.2

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>π</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). Source: National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau.

Adult Population 50-64 Years Old by Small Area, Health District, Utah, or U.S., 2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2012 Adults 50-64	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	240,185,952	60,189,676	25.1	24.2	25.9
	State of Utah	1,967,315	416,962	21.2	20.4	22.0
	Bear River LHD	114,924	22,632	19.7	18.9	20.5
38	Brigham City (1)	16,086	3,627	22.5	21.7	23.4
52	Box Elder County (Other) (2)	17,287	4,263	24.7	23.8	25.5
45	Cache Co (Oth)/Rich Co (All) (4)	27,519	6,549	23.8	23.0	24.6
4	Logan (3)	53,455	7,868	14.7	14.0	15.4
	Central Utah LHD	52,303	12,358	23.6	22.8	24.5
43	Juab/Millard/Sanpete Counties (54)	34,778	8,028	23.1	22.3	23.9
53	Sevier/Piute/Wayne Counties (55)	17,651	4,479	25.4	24.5	26.2
	Davis County LHD	209,077	46,170	22.1	21.3	22.9
42	Bountiful (16)	32,734	7,543	23.0	22.2	23.9
8	Clearfield/Hill AFB (11)	44,893	8,135	18.1	17.4	18.9
54	Farmington/Centerville (14)	23,643	6,051	25.6	24.7	26.4
41	Layton (12)	50,686	11,664	23.0	22.2	23.8
37	Syracuse/Kaysville (13)	36,386	8,134	22.4	21.5	23.2
23	Woods Cross/North Salt Lake (15)	20,675	4,252	20.6	19.8	21.4
	Salt Lake County LHD	757,119	166,382	22.0	21.2	22.8
57	Cottonwood (28)	33,211	8,997	27.1	26.2	28.0
46	Holladay (27)	35,928	8,579	23.9	23.0	24.7
18	Kearns (29) (29.1) <sup>§</sup>	25,972	5,166	19.9	19.1	20.7
22	Magna (20)	17,913	3,595	20.1	19.3	20.9
11	Midvale (32)	22,833	4,293	18.8	18.0	19.6
34	Millcreek (26)	43,883	9,689	22.1	21.3	22.9
24	Murray (31)	25,516	5,334	20.9	20.1	21.7
17	Riverton/Draper (39)	74,334	14,615	19.7	18.9	20.4
32	SLC (Avenues) (18)	18,589	4,095	22.0	21.2	22.8
7	SLC (Downtown) (24)	43,048	7,666	17.8	17.1	18.6
25	SLC (Foothill/U of U) (19)	18,546	3,882	20.9	20.1	21.7
13	SLC (Glendale) (21)	22,235	4,219	19.0	18.2	19.7
19	SLC (Rose Park) (17)	23,310	4,649	19.9	19.2	20.7
39	Sandy Center (36)	38,657	8,741	22.6	21.8	23.4
62	Sandy (NE) (37)	16,992	5,588	32.9	32.0	33.8
49	Sandy (SE) (38)	36,470	8,780	24.1	23.2	24.9
14	South Jordan (35)	20,259	3,852	19.0	18.2	19.8
47	South Salt Lake (25)	27,559	6,610	24.0	23.1	24.8
55	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	27,721	7,343	26.5	25.6	27.4
48	Taylorsville (West) (30.1)	21,746	5,226	24.0	23.2	24.9
63	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,375	7,150	33.5	32.5	34.4
29	West Jordan (SE) (34.1)	24,374	5,322	21.8	21.0	22.6
6	West Jordan West, Copperton (34.2)	26,643	4,226	15.9	15.1	16.6
12	West Valley East (23) (23.1) <sup>§</sup>	37,199	7,054	19.0	18.2	19.7
26	West Valley West (22)	53,441	11,191	20.9	20.1	21.7
	Southeastern Utah LHD	40,317	10,928	27.1	26.2	28.0
59	Carbon/Emery Counties (56)	23,192	6,391	27.6	26.7	28.4
56	Grand/San Juan Counties (57)	17,103	4,571	26.7	25.9	27.6
	Southwest Utah LHD	148,401	32,952	22.2	21.4	23.0
15	Cedar City (60)	29,168	5,591	19.2	18.4	19.9
60	Southwest LHD (Other) (61)	17,288	5,066	29.3	28.4	30.2
20	St. George (58)	56,177	11,249	20.0	19.2	20.8
51	Washington Co. (Other) (59)	45,712	11,223	24.6	23.7	25.4
61	Summit County LHD (51)	27,801	8,323	29.9	29.0	30.8
35	Tooele County LHD (40)	38,707	8,593	22.2	21.4	23.0
40	TriCounty LHD (53)	36,560	8,305	22.7	21.9	23.5
	Utah County LHD	352,433	56,494	16.0	15.3	16.7
36	American Fork/Alpine (42)	33,188	7,385	22.3	21.4	23.1
3	Lehi/Cedar Valley (41)	52,992	7,078	13.4	12.7	14.0
44	Orem East (46)	15,059	3,493	23.2	22.4	24.0
9	Orem North (44)	25,424	4,698	18.5	17.7	19.2
5	Orem West (45)	23,220	3,512	15.1	14.4	15.8
10	Pleasant Grove/Lindon (43)	33,977	6,320	18.6	17.8	19.4
2	Provo North/BYU (47)	41,689	4,439	10.6	10.0	11.3
1	Provo South (48)	49,593	4,708	9.5	8.9	10.1
16	Springville/Spanish Fork (49)	54,228	10,425	19.2	18.5	20.0
21	Utah Co. South (50)	22,548	4,522	20.1	19.3	20.8
50	Wasatch County LHD (52)	16,912	4,130	24.4	23.6	25.3
	Weber-Morgan LHD	172,761	39,695	23.0	22.2	23.8
31	Ben Lomond (5)	40,310	8,851	22.0	21.1	22.8
58	Morgan Co (All)/Weber Co. (East) (6)	29,995	8,240	27.5	26.6	28.3
27	Ogden (Downtown) (7)	26,184	5,496	21.0	20.2	21.8
28	Riverdale (10)	18,568	4,038	21.7	20.9	22.6
30	Roy/Hooper (9)	30,718	6,713	21.9	21.0	22.7
33	South Ogden (8)	26,920	5,932	22.0	21.2	22.8

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). Source: National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau.

Adult Population Ages 65+ by Small Area, Health District, Utah, or U.S, 2012						
State Rank*	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2012 Adults 65+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	240,185,952	41,233,101	17.2	16.4	17.9
	State of Utah	1,967,315	271,419	13.8	13.1	14.5
	Bear River LHD	114,924	15,714	13.7	13.0	14.3
55	Brigham City (1)	16,086	3,050	19.0	18.2	19.7
43	Box Elder County (Other) (2)	17,287	2,762	16.0	15.3	16.7
40	Cache Co (Oth)/Rich Co (All) (4)	27,519	3,982	14.5	13.8	15.2
14	Logan (3)	53,455	5,684	10.6	10.0	11.2
	Central Utah LHD	52,303	10,513	20.1	19.3	20.9
53	Juab/Millard/Sanpete Counties (54)	34,778	6,297	18.1	17.4	18.9
59	Sevier/Piute/Wayne Counties (55)	17,651	4,068	23.0	22.2	23.9
	Davis County LHD	209,077	27,571	13.2	12.5	13.9
58	Bountiful (16)	32,734	7,386	22.6	21.7	23.4
8	Clearfield/Hill AFB (11)	44,893	4,244	9.5	8.9	10.0
38	Farmington/Centerville (14)	23,643	3,391	14.3	13.7	15.0
26	Layton (12)	50,686	5,922	11.7	11.1	12.3
23	Syracuse/Kaysville (13)	36,386	4,169	11.5	10.8	12.1
12	Woods Cross/North Salt Lake (15)	20,675	2,177	10.5	9.9	11.1
	Salt Lake County LHD	757,119	96,618	12.8	12.1	13.4
57	Cottonwood (28)	33,211	6,914	20.8	20.0	21.6
62	Holladay (27)	35,928	8,756	24.4	23.5	25.2
5	Kearns (29) (29.1) <sup>§</sup>	25,972	2,262	8.7	8.2	9.3
6	Magna (20)	17,913	1,587	8.9	8.3	9.4
41	Midvale (32)	22,833	3,312	14.5	13.8	15.2
54	Millcreek (26)	43,883	8,124	18.5	17.8	19.3
45	Murray (31)	25,516	4,203	16.5	15.7	17.2
4	Riverton/Draper (39)	74,334	5,886	7.9	7.4	8.4
44	SLC (Avenues) (18)	18,589	3,019	16.2	15.5	17.0
13	SLC (Downtown) (24)	43,048	4,577	10.6	10.0	11.2
46	SLC (Foothill/U of U) (19)	18,546	3,093	16.7	15.9	17.4
10	SLC (Glendale) (21)	22,235	2,247	10.1	9.5	10.7
15	SLC (Rose Park) (17)	23,310	2,543	10.9	10.3	11.5
39	Sandy Center (36)	38,657	5,568	14.4	13.7	15.1
47	Sandy (NE) (37)	16,992	2,841	16.7	16.0	17.5
21	Sandy (SE) (38)	36,470	4,096	11.2	10.6	11.9
16	South Jordan (35)	20,259	2,214	10.9	10.3	11.5
35	South Salt Lake (25)	27,559	3,718	13.5	12.8	14.2
25	Taylorsville (East)/Murray (West) (30) <sup>π</sup>	27,721	3,238	11.7	11.1	12.3
9	Taylorsville (West) (30.1)	21,746	2,162	9.9	9.4	10.5
31	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,375	2,785	13.0	12.4	13.7
7	West Jordan (SE) (34.1)	24,374	2,250	9.2	8.7	9.8
1	West Jordan West, Copperton (34.2)	26,643	1,193	4.5	4.1	4.9
19	West Valley East (23) (23.1) <sup>§</sup>	37,199	4,099	11.0	10.4	11.6
11	West Valley West (22)	53,441	5,463	10.2	9.6	10.8
	Southeastern Utah LHD	40,317	7,530	18.7	17.9	19.4
56	Carbon/Emery Counties (56)	23,192	4,411	19.0	18.3	19.8
51	Grand/San Juan Counties (57)	17,103	3,002	17.6	16.8	18.3
	Southwest Utah LHD	148,401	34,678	23.4	22.5	24.2
33	Cedar City (60)	29,168	3,893	13.3	12.7	14.0
60	Southwest LHD (Other) (61)	17,288	4,062	23.5	22.7	24.3
63	St. George (58)	56,177	15,046	26.8	25.9	27.7
61	Washington Co. (Other) (59)	45,712	10,868	23.8	22.9	24.6
27	Summit County LHD (51)	27,801	3,342	12.0	11.4	12.7
28	Tooele County LHD (40)	38,707	4,735	12.2	11.6	12.9
42	TriCounty LHD (53)	36,560	5,502	15.0	14.3	15.8
	Utah County LHD	352,433	36,757	10.4	9.8	11.0
32	American Fork/Alpine (42)	33,188	4,334	13.1	12.4	13.7
3	Lehi/Cedar Valley (41)	52,992	3,714	7.0	6.5	7.5
50	Orem East (46)	15,059	2,601	17.3	16.5	18.0
18	Orem North (44)	25,424	2,788	11.0	10.4	11.6
20	Orem West (45)	23,220	2,576	11.1	10.5	11.7
24	Pleasant Grove/Lindon (43)	33,977	3,917	11.5	10.9	12.2
17	Provo North/BYU (47)	41,689	4,563	10.9	10.3	11.6
2	Provo South (48)	49,593	2,647	5.3	4.9	5.8
29	Springville/Spanish Fork (49)	54,228	6,718	12.4	11.7	13.0
30	Utah Co. South (50)	22,548	2,809	12.5	11.8	13.1
36	Wasatch County LHD (52)	16,912	2,303	13.6	12.9	14.3
	Weber-Morgan LHD	172,761	26,156	15.1	14.4	15.8
37	Ben Lomond (5)	40,310	5,616	13.9	13.3	14.6
49	Morgan Co (All)/Weber Co. (East) (6)	29,995	5,123	17.1	16.3	17.8
22	Ogden (Downtown) (7)	26,184	2,982	11.4	10.8	12.0
52	Riverdale (10)	18,568	3,277	17.6	16.9	18.4
34	Roy/Hooper (9)	30,718	4,120	13.4	12.7	14.1
48	South Ogden (8)	26,920	4,524	16.8	16.1	17.5

\*State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>π</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). Source: National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau.

Black Population Ages 18+ by Small Area, Health District, Utah, or U.S, 2008-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2008-2012 Population 18+	2008-2012 Black 18+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	235,158,852	28,131,114	12.0	11.3	12.6
	State of Utah	1,899,143	18,036	0.9	0.8	1.1
	Bear River LHD	111,473	508	0.5	0.3	0.6
10	Brigham City (1)	16,267	37	0.2	0.1	0.3
2	Box Elder County (Other) (2)	16,575	14	0.1*	0.0	0.1
7	Cache Co (Oth)/Rich Co (All) (4)	27,433	52	0.2	0.1	0.3
34	Logan (3)	51,163	404	0.8	0.6	1.0
	Central Utah LHD	51,626	379	0.7	0.6	0.9
35	Juab/Millard/Sanpete Counties (54)	34,356	280	0.8	0.6	1.0
30	Sevier/Piute/Wayne Counties (55)	17,291	93	0.5	0.4	0.7
	Davis County LHD	201,915	2,223	1.1	0.9	1.3
21	Bountiful (16)	32,122	125	0.4	0.3	0.5
55	Clearfield/Hill AFB (11)	41,752	768	1.8	1.6	2.1
31	Farmington/Centerville (14)	23,443	136	0.6	0.4	0.7
53	Layton (12)	50,280	866	1.7	1.5	2.0
37	Syracuse/Kaysville (13)	34,812	300	0.9	0.7	1.0
24	Woods Cross/North Salt Lake (15)	19,638	81	0.4	0.3	0.5
	Salt Lake County LHD	732,642	10,252	1.4	1.2	1.6
36	Cottonwood (28)	32,061	273	0.9	0.7	1.0
40	Holladay (27)	35,771	337	0.9	0.8	1.1
46	Kearns (29) (29.1) <sup>§</sup>	44,672	530	1.2	1.0	1.4
15	Magna (20)	18,074	60	0.3	0.2	0.4
47	Midvale (32)	22,513	277	1.2	1.0	1.4
50	Millcreek (26)	43,801	664	1.5	1.3	1.8
45	Murray (31)	24,711	265	1.1	0.9	1.3
38	Riverton/Draper (39)	69,374	623	0.9	0.7	1.1
56	SLC (Avenues) (18)	18,460	341	1.8	1.6	2.1
58	SLC (Downtown) (24)	42,961	1,154	2.7	2.4	3.0
28	SLC (Foothill/U of U) (19)	17,804	92	0.5	0.4	0.7
60	SLC (Glendale) (21)	20,578	617	3.0	2.7	3.3
62	SLC (Rose Park) (17)	22,171	1,084	4.9	4.5	5.3
32	Sandy Center (36)	36,972	250	0.7	0.5	0.8
19	Sandy (NE) (37)	17,557	65	0.4	0.3	0.5
11	Sandy (SE) (38)	21,041	54	0.3	0.2	0.4
16	South Jordan (35)	33,486	114	0.3	0.2	0.5
61	South Salt Lake (25)	18,574	565	3.0	2.7	3.4
54	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	28,092	503	1.8	1.5	2.1
--	Taylorsville (West) (30.1) <sup>¶</sup>	--	--	--	--	--
48	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	25,807	338	1.3	1.1	1.5
44	West Jordan (SE) (34.1)	23,737	253	1.1	0.9	1.3
41	West Jordan West, Copperton (34.2)	25,720	253	1.0	0.8	1.2
57	West Valley East (23) (23.1) <sup>§</sup>	38,505	864	2.2	2.0	2.5
49	West Valley West (22)	51,562	689	1.3	1.1	1.6
	Southeastern Utah LHD	39,857	131	0.3	0.2	0.4
17	Carbon/Emery Counties (56)	23,105	81	0.4	0.2	0.5
13	Grand/San Juan Counties (57)	21,238	59	0.3	0.2	0.4
	Southwest Utah LHD	143,247	423	0.3	0.2	0.4
12	Cedar City (60)	28,152	78	0.3	0.2	0.4
4	Southwest LHD (Other) (61)	17,479	27	0.2	0.1	0.2
27	St. George (58)	54,345	261	0.5	0.3	0.6
3	Washington Co. (Other) (59)	43,179	57	0.1	0.1	0.2
14	Summit County LHD (51)	26,510	78	0.3	0.2	0.4
33	Tooele County LHD (40)	37,133	254	0.7	0.5	0.8
1	TriCounty LHD (53)	34,952	21	0.1*	0.0	0.1
	Utah County LHD	336,046	1,562	0.5	0.3	0.6
6	American Fork/Alpine (42)	30,995	51	0.2	0.1	0.2
26	Lehi/Cedar Valley (41)	47,698	226	0.5	0.3	0.6
18	Orem East (46)	14,282	52	0.4	0.2	0.5
22	Orem North (44)	25,294	101	0.4	0.3	0.5
39	Orem West (45)	22,211	201	0.9	0.7	1.1
20	Pleasant Grove/Lindon (43)	32,428	124	0.4	0.3	0.5
43	Provo North/BYU (47)	38,476	396	1.0	0.8	1.2
25	Provo South (48)	50,129	213	0.4	0.3	0.6
8	Springville/Spanish Fork (49)	51,603	98	0.2	0.1	0.3
23	Utah Co. South (50)	21,229	87	0.4	0.3	0.5
5	Wasatch County LHD (52)	15,695	25	0.2	0.1	0.2
	Weber-Morgan LHD	168,047	2,180	1.3	1.1	1.5
51	Ben Lomond (5)	38,859	622	1.6	1.4	1.8
9	Morgan Co (All)/Weber Co. (East) (6)	28,889	57	0.2	0.1	0.3
59	Ogden (Downtown) (7)	24,373	714	2.9	2.6	3.3
52	Riverdale (10)	17,940	297	1.7	1.4	1.9
29	Roy/Hooper (9)	30,496	162	0.5	0.4	0.7
42	South Ogden (8)	27,358	275	1.0	0.8	1.2

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>‡</sup>Data are not yet available for ACS 2008-2012. <sup>\*</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. Source: U.S. Census Bureau, 2008-2012 American Community Survey B01001B

American Indian Population Ages 18+ by Small Area, Health District, Utah, or U.S., 2008-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2008-2012 Population 18+	2008-2012 American Indian 18+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	235,158,852	1,795,485	0.8	0.6	0.9
	State of Utah	1,899,143	20,638	1.1	0.9	1.3
	Bear River LHD	111,473	696	0.6	0.5	0.8
55	Brigham City (1)	16,267	199	1.2	1.0	1.4
6	Box Elder County (Other) (2)	16,575	43	0.3	0.2	0.4
10	Cache Co (Oth)/Rich Co (All) (4)	27,433	88	0.3	0.2	0.4
31	Logan (3)	51,163	366	0.7	0.6	0.9
	Central Utah LHD	51,626	503	1.0	0.8	1.2
36	Juab/Millard/Sanpete Counties (54)	34,356	294	0.9	0.7	1.0
46	Sevier/Piute/Wayne Counties (55)	17,291	172	1.0	0.8	1.2
	Davis County LHD	201,915	1,182	0.6	0.4	0.7
5	Bountiful (16)	32,122	83	0.3	0.2	0.4
44	Clearfield/Hill AFB (11)	41,752	395	0.9	0.8	1.1
7	Farmington/Centerville (14)	23,443	71	0.3	0.2	0.4
27	Layton (12)	50,280	317	0.6	0.5	0.8
23	Syracuse/Kaysville (13)	34,812	206	0.6	0.4	0.7
24	Woods Cross/North Salt Lake (15)	19,638	118	0.6	0.4	0.8
	Salt Lake County LHD	732,642	5,609	0.8	0.6	0.9
20	Cottonwood (28)	32,061	160	0.5	0.4	0.6
14	Holladay (27)	35,771	130	0.4	0.2	0.5
35	Kearns (29) (29.1) <sup>§</sup>	44,672	376	0.8	0.7	1.0
57	Magna (20)	18,074	237	1.3	1.1	1.5
29	Midvale (32)	22,513	158	0.7	0.5	0.9
50	Millcreek (26)	43,801	464	1.1	0.9	1.3
41	Murray (31)	24,711	231	0.9	0.7	1.1
13	Riverton/Draper (39)	69,374	251	0.4	0.2	0.5
42	SLC (Avenues) (18)	18,460	173	0.9	0.7	1.1
52	SLC (Downtown) (24)	42,961	486	1.1	0.9	1.3
19	SLC (Foothill/U of U) (19)	17,804	86	0.5	0.3	0.6
58	SLC (Glendale) (21)	20,578	320	1.6	1.3	1.8
43	SLC (Rose Park) (17)	22,171	208	0.9	0.7	1.1
3	Sandy Center (36)	36,972	64	0.2	0.1	0.3
17	Sandy (NE) (37)	17,557	80	0.5	0.3	0.6
1	Sandy (SE) (38)	21,041	0	0.0	0.0	0.0
2	South Jordan (35)	33,486	38	0.1	0.0	0.2
60	South Salt Lake (25)	18,574	393	2.1	1.8	2.4
45	Taylorsville (East)/Murray (West) (30) <sup>†</sup>	28,092	277	1.0	0.8	1.2
--	Taylorsville (West) (30.1) <sup>§</sup>	--	--	--	--	--
26	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	25,807	158	0.6	0.5	0.8
51	West Jordan (SE) (34.1)	23,737	265	1.1	0.9	1.3
15	West Jordan West, Copperton (34.2)	25,720	102	0.4	0.3	0.5
56	West Valley East (23) (23.1) <sup>§</sup>	38,505	484	1.3	1.0	1.5
40	West Valley West (22)	51,562	481	0.9	0.7	1.1
	Southeastern Utah LHD	39,857	5,196	13.0	12.4	13.7
39	Carbon/Emery Counties (56)	23,105	207	0.9	0.7	1.1
62	Grand/San Juan Counties (57)	21,238	9,195	43.3	42.3	44.3
	Southwest Utah LHD	143,247	1,765	1.2	1.0	1.4
59	Cedar City (60)	28,152	559	2.0	1.7	2.3
30	Southwest LHD (Other) (61)	17,479	123	0.7	0.5	0.9
47	St. George (58)	54,345	541	1.0	0.8	1.2
54	Washington Co. (Other) (59)	43,179	506	1.2	1.0	1.4
4	Summit County LHD (51)	26,510	56	0.2	0.1	0.3
53	Tooele County LHD (40)	37,133	426	1.1	0.9	1.4
61	TriCounty LHD (53)	34,952	1,826	5.2	4.8	5.7
	Utah County LHD	336,046	2,060	0.6	0.5	0.8
12	American Fork/Alpine (42)	30,995	111	0.4	0.2	0.5
16	Lehi/Cedar Valley (41)	47,698	201	0.4	0.3	0.5
21	Orem East (46)	14,282	78	0.5	0.4	0.7
28	Orem North (44)	25,294	171	0.7	0.5	0.8
25	Orem West (45)	22,211	135	0.6	0.5	0.8
9	Pleasant Grove/Lindon (43)	32,428	104	0.3	0.2	0.4
22	Provo North/BYU (47)	38,476	217	0.6	0.4	0.7
37	Provo South (48)	50,129	429	0.9	0.7	1.0
32	Springville/Spanish Fork (49)	51,603	411	0.8	0.6	1.0
38	Utah Co. South (50)	21,229	189	0.9	0.7	1.1
8	Wasatch County LHD (52)	15,695	48	0.3	0.2	0.4
	Weber-Morgan LHD	168,047	1,271	0.8	0.6	0.9
34	Ben Lomond (5)	38,859	315	0.8	0.6	1.0
11	Morgan Co (All)/Weber Co. (East) (6)	28,889	93	0.3	0.2	0.4
49	Ogden (Downtown) (7)	24,373	247	1.0	0.8	1.2
18	Riverdale (10)	17,940	84	0.5	0.3	0.6
33	Roy/Hooper (9)	30,496	247	0.8	0.6	1.0
48	South Ogden (8)	27,358	277	1.0	0.8	1.2

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>§</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>¶</sup>Data are not yet available for ACS 2008-2012. Source: U.S. Census Bureau, 2008-2012 American Community Survey B01001C

Asian Population Ages 18+ by Small Area, Health District, Utah, or U.S., 2008-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2008-2012 Population 18+	2008-2012 Asian 18+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	235,158,852	11,625,193	4.9	4.5	5.4
	State of Utah	1,899,143	43,591	2.3	2.0	2.6
	Bear River LHD	111,473	2,105	1.9	1.6	2.2
22	Brigham City (1)	16,267	188	1.2	0.9	1.4
10	Box Elder County (Other) (2)	16,575	122	0.7	0.6	0.9
12	Cache Co (Oth)/Rich Co (All) (4)	27,433	226	0.8	0.6	1.0
48	Logan (3)	51,163	1,569	3.1	2.7	3.4
	Central Utah LHD	51,626	215	0.4	0.3	0.5
6	Juab/Millard/Sanpete Counties (54)	34,356	164	0.5	0.3	0.6
1	Sevier/Piute/Wayne Counties (55)	17,291	51	0.3	0.2	0.4
	Davis County LHD	201,915	4,356	2.2	1.9	2.4
29	Bountiful (16)	32,122	532	1.7	1.4	1.9
56	Clearfield/Hill AFB (11)	41,752	1,641	3.9	3.5	4.3
14	Farmington/Centerville (14)	23,443	206	0.9	0.7	1.1
38	Layton (12)	50,280	1,253	2.5	2.2	2.8
20	Syracuse/Kaysville (13)	34,812	392	1.1	0.9	1.3
31	Woods Cross/North Salt Lake (15)	19,638	370	1.9	1.6	2.2
	Salt Lake County LHD	732,642	26,530	3.6	3.3	4.0
44	Cottonwood (28)	32,061	949	3.0	2.6	3.3
46	Holladay (27)	35,771	1,086	3.0	2.7	3.4
41	Kearns (29) (29.1) <sup>§</sup>	44,672	1,264	2.8	2.5	3.2
17	Magna (20)	18,074	180	1.0	0.8	1.2
55	Midvale (32)	22,513	833	3.7	3.3	4.1
50	Millcreek (26)	43,801	1,448	3.3	3.0	3.7
42	Murray (31)	24,711	711	2.9	2.5	3.2
36	Riverton/Draper (39)	69,374	1,652	2.4	2.1	2.7
57	SLC (Avenues) (18)	18,460	746	4.0	3.7	4.4
58	SLC (Downtown) (24)	42,961	1,917	4.5	4.1	4.9
62	SLC (Foothill/U of U) (19)	17,804	1,775	10.0	9.4	10.6
54	SLC (Glendale) (21)	20,578	755	3.7	3.3	4.0
53	SLC (Rose Park) (17)	22,171	797	3.6	3.2	4.0
49	Sandy Center (36)	36,972	1,142	3.1	2.7	3.4
43	Sandy (NE) (37)	17,557	511	2.9	2.6	3.2
45	Sandy (SE) (38)	21,041	627	3.0	2.6	3.3
35	South Jordan (35)	33,486	736	2.2	1.9	2.5
59	South Salt Lake (25)	18,574	916	4.9	4.5	5.4
51	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	28,092	946	3.4	3.0	3.7
--	Taylorsville (West) (30.1) <sup>§</sup>	--	--	--	--	--
39	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	25,807	681	2.6	2.3	3.0
40	West Jordan (SE) (34.1)	23,737	630	2.7	2.3	3.0
52	West Jordan West, Copperton (34.2)	25,720	914	3.6	3.2	3.9
61	West Valley East (23) (23.1) <sup>§</sup>	38,505	2,355	6.1	5.6	6.6
60	West Valley West (22)	51,562	2,986	5.8	5.3	6.2
	Southeastern Utah LHD	39,857	211	0.5	0.4	0.7
7	Carbon/Emery Counties (56)	23,105	131	0.6	0.4	0.7
4	Grand/San Juan Counties (57)	21,238	94	0.4	0.3	0.6
	Southwest Utah LHD	143,247	1,091	0.8	0.6	0.9
9	Cedar City (60)	28,152	202	0.7	0.6	0.9
3	Southwest LHD (Other) (61)	17,479	65	0.4	0.3	0.5
21	St. George (58)	54,345	628	1.2	0.9	1.4
5	Washington Co. (Other) (59)	43,179	196	0.5	0.3	0.6
28	Summit County LHD (51)	26,510	433	1.6	1.4	1.9
15	Tooele County LHD (40)	37,133	331	0.9	0.7	1.1
11	TriCounty LHD (53)	34,952	273	0.8	0.6	1.0
	Utah County LHD	336,046	5,449	1.6	1.4	1.9
16	American Fork/Alpine (42)	30,995	283	0.9	0.7	1.1
25	Lehi/Cedar Valley (41)	47,698	743	1.6	1.3	1.8
34	Orem East (46)	14,282	305	2.1	1.9	2.4
27	Orem North (44)	25,294	403	1.6	1.3	1.8
24	Orem West (45)	22,211	330	1.5	1.2	1.7
30	Pleasant Grove/Lindon (43)	32,428	590	1.8	1.6	2.1
47	Provo North/BYU (47)	38,476	1,174	3.1	2.7	3.4
37	Provo South (48)	50,129	1,221	2.4	2.1	2.7
2	Springville/Spanish Fork (49)	51,603	187	0.4	0.2	0.5
13	Utah Co. South (50)	21,229	178	0.8	0.7	1.0
18	Wasatch County LHD (52)	15,695	166	1.1	0.9	1.3
	Weber-Morgan LHD	168,047	2,431	1.4	1.2	1.7
23	Ben Lomond (5)	38,859	469	1.2	1.0	1.4
8	Morgan Co (All)/Weber Co. (East) (6)	28,889	183	0.6	0.5	0.8
26	Ogden (Downtown) (7)	24,373	388	1.6	1.3	1.8
19	Riverdale (10)	17,940	196	1.1	0.9	1.3
32	Roy/Hooper (9)	30,496	609	2.0	1.7	2.3
33	South Ogden (8)	27,358	548	2.0	1.7	2.3

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>§</sup>Data are not yet available for ACS 2008-2012. Source: U.S. Census Bureau, 2008-2012 American Community Survey B01001D

Pacific Islander Population Ages 18+ by Small Area, Health District, Utah, or U.S., 2008-2012						
State Rank <sup>a</sup>	Small Area, Health District, Utah, or U.S.	2008-2012 Population 18+	2008-2012 Pacific Islander 18+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	235,158,852	370,055	0.2	0.1	0.2
	State of Utah	1,899,143	15,750	0.8	0.7	1.0
	Bear River LHD	111,473	207	0.2	0.1	0.3
18	Brigham City (1)	16,267	36	0.2	0.1	0.3
2	Box Elder County (Other) (2)	16,575	6	0.0*	0.0	0.1
14	Cache Co (Oth)/Rich Co (All) (4)	27,433	52	0.2	0.1	0.3
17	Logan (3)	51,163	113	0.2	0.1	0.3
	Central Utah LHD	51,626	118	0.2	0.1	0.3
23	Juab/Millard/Sanpete Counties (54)	34,356	100	0.3	0.2	0.4
10	Sevier/Piute/Wayne Counties (55)	17,291	18	0.1*	0.0	0.2
	Davis County LHD	201,915	1,220	0.6	0.5	0.8
46	Bountiful (16)	32,122	281	0.9	0.7	1.1
32	Clearfield/Hill AFB (11)	41,752	249	0.6	0.4	0.7
9	Farmington/Centerville (14)	23,443	20	0.1*	0.0	0.1
41	Layton (12)	50,280	373	0.7	0.6	0.9
6	Syracuse/Kaysville (13)	34,812	24	0.1*	0.0	0.1
54	Woods Cross/North Salt Lake (15)	19,638	271	1.4	1.2	1.6
	Salt Lake County LHD	732,642	9,856	1.3	1.1	1.6
8	Cottonwood (28)	32,061	26	0.1*	0.0	0.1
49	Holladay (27)	35,771	363	1.0	0.8	1.2
58	Kearns (29) (29.1) <sup>b</sup>	44,672	918	2.1	1.8	2.3
57	Magna (20)	18,074	330	1.8	1.6	2.1
38	Midvale (32)	22,513	147	0.7	0.5	0.8
36	Millcreek (26)	43,801	280	0.6	0.5	0.8
44	Murray (31)	24,711	204	0.8	0.6	1.0
42	Riverton/Draper (39)	69,374	525	0.8	0.6	0.9
7	SLC (Avenues) (18)	18,460	14	0.1*	0.1	0.1
40	SLC (Downtown) (24)	42,961	302	0.7	0.5	0.9
19	SLC (Foothill/U of U) (19)	17,804	40	0.2	0.1	0.3
62	SLC (Glendale) (21)	20,578	1,135	5.5	5.1	6.0
60	SLC (Rose Park) (17)	22,171	745	3.4	3.0	3.7
25	Sandy Center (36)	36,972	123	0.3	0.2	0.4
15	Sandy (NE) (37)	17,557	36	0.2	0.1	0.3
30	Sandy (SE) (38)	21,041	113	0.5	0.4	0.7
48	South Jordan (35)	33,486	334	1.0	0.8	1.2
24	South Salt Lake (25)	18,574	56	0.3	0.2	0.4
52	Taylorsville (East)/Murray (West) (30) <sup>c</sup>	28,092	375	1.3	1.1	1.6
--	Taylorsville (West) (30.1) <sup>d</sup>	--	--	--	--	--
51	West Jordan (NE) (33.1) (33.2) <sup>e</sup>	25,807	321	1.2	1.0	1.5
47	West Jordan (SE) (34.1)	23,737	235	1.0	0.8	1.2
56	West Jordan West, Copperton (34.2)	25,720	409	1.6	1.3	1.8
61	West Valley East (23) (23.1) <sup>f</sup>	38,505	1,442	3.7	3.4	4.1
59	West Valley West (22)	51,562	1,383	2.7	2.4	3.0
	Southeastern Utah LHD	39,857	95	0.2	0.1	0.3
3	Carbon/Emery Counties (56)	23,105	10	0.0*	0.0	0.1
28	Grand/San Juan Counties (57)	21,238	91	0.4	0.3	0.6
	Southwest Utah LHD	143,247	841	0.6	0.4	0.7
27	Cedar City (60)	28,152	120	0.4	0.3	0.6
29	Southwest LHD (Other) (61)	17,479	92	0.5	0.4	0.7
34	St. George (58)	54,345	338	0.6	0.5	0.8
39	Washington Co. (Other) (59)	43,179	291	0.7	0.5	0.8
**	Summit County LHD (51)	26,510	**	**	**	**
13	Tooele County LHD (40)	37,133	60	0.2	0.1	0.2
50	TriCounty LHD (53)	34,952	357	1.0	0.8	1.2
	Utah County LHD	336,046	2,574	0.8	0.6	0.9
35	American Fork/Alpine (42)	30,995	197	0.6	0.5	0.8
43	Lehi/Cedar Valley (41)	47,698	365	0.8	0.6	0.9
45	Orem East (46)	14,282	120	0.8	0.7	1.0
33	Orem North (44)	25,294	156	0.6	0.5	0.8
37	Orem West (45)	22,211	145	0.7	0.5	0.8
12	Pleasant Grove/Lindon (43)	32,428	43	0.1	0.1	0.2
55	Provo North/BYU (47)	38,476	557	1.4	1.2	1.7
53	Provo South (48)	50,129	685	1.4	1.1	1.6
31	Springville/Spanish Fork (49)	51,603	280	0.5	0.4	0.7
11	Utah Co. South (50)	21,229	26	0.1	0.1	0.2
5	Wasatch County LHD (52)	15,695	10	0.1*	0.0	0.1
	Weber-Morgan LHD	168,047	404	0.2	0.1	0.3
16	Ben Lomond (5)	38,859	81	0.2	0.1	0.3
4	Morgan Co (All)/Weber Co. (East) (6)	28,889	14	0.0*	0.0	0.1
20	Ogden (Downtown) (7)	24,373	60	0.2	0.1	0.3
21	Riverdale (10)	17,940	47	0.3	0.2	0.4
26	Roy/Hooper (9)	30,496	125	0.4	0.3	0.5
22	South Ogden (8)	27,358	79	0.3	0.2	0.4

<sup>a</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>b</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>c</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>d</sup>Data are not yet available for ACS 2008-2012. <sup>e</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. <sup>f</sup>The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable. Source: U.S. Census Bureau, 2008-2012 American Community Survey B01001E

White Population Ages 18+ by Small Area, Health District, Utah, or U.S., 2008-2012						
State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2008-2012 Population 18+	2008-2012 White 18+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	235,158,852	178,852,142	76.1	75.2	76.9
	State of Utah	1,899,143	1,711,813	90.1	89.6	90.7
	Bear River LHD	111,473	103,856	93.2	92.7	93.7
49	Brigham City (1)	16,267	15,398	94.7	94.2	95.1
45	Box Elder County (Other) (2)	16,575	15,579	94.0	93.5	94.5
54	Cache Co (Oth)/Rich Co (All) (4)	27,433	26,170	95.4	95.0	95.8
28	Logan (3)	51,163	46,675	91.2	90.7	91.8
	Central Utah LHD	51,626	48,934	94.8	94.3	95.2
46	Juab/Millard/Sanpete Counties (54)	34,356	32,321	94.1	93.6	94.5
58	Sevier/Piute/Wayne Counties (55)	17,291	16,685	96.5	96.1	96.9
	Davis County LHD	201,915	185,457	91.8	91.3	92.4
42	Bountiful (16)	32,122	30,047	93.5	93.1	94.0
12	Clearfield/Hill AFB (11)	41,752	35,895	86.0	85.3	86.7
60	Farmington/Centerville (14)	23,443	22,687	96.8	96.4	97.1
27	Layton (12)	50,280	45,703	90.9	90.3	91.5
55	Syracuse/Kaysville (13)	34,812	33,250	95.5	95.1	95.9
26	Woods Cross/North Salt Lake (15)	19,638	17,806	90.7	90.1	91.2
	Salt Lake County LHD	732,642	640,284	87.4	86.7	88.0
47	Cottonwood (28)	32,061	30,170	94.1	93.6	94.6
40	Holladay (27)	35,771	33,348	93.2	92.7	93.7
16	Kearns (29) (29.1) <sup>3</sup>	44,672	39,298	88.0	87.3	88.6
24	Magna (20)	18,074	16,270	90.0	89.4	90.6
13	Midvale (32)	22,513	19,394	86.1	85.5	86.8
29	Millcreek (26)	43,801	39,980	91.3	90.7	91.8
20	Murray (31)	24,711	21,953	88.8	88.2	89.5
38	Riverton/Draper (39)	69,374	64,485	93.0	92.5	93.5
18	SLC (Avenues) (18)	18,460	16,305	88.3	87.7	89.0
8	SLC (Downtown) (24)	42,961	36,081	84.0	83.3	84.7
11	SLC (Foothill/U of U) (19)	17,804	15,295	85.9	85.2	86.6
2	SLC (Glendale) (21)	20,578	13,441	65.3	64.4	66.3
3	SLC (Rose Park) (17)	22,171	16,314	73.6	72.7	74.4
33	Sandy Center (36)	36,972	33,956	91.8	91.3	92.4
36	Sandy (NE) (37)	17,557	16,251	92.6	92.0	93.1
50	Sandy (SE) (38)	21,041	19,969	94.9	94.5	95.3
44	South Jordan (35)	33,486	31,437	93.9	93.4	94.4
5	South Salt Lake (25)	18,574	14,775	79.5	78.8	80.3
9	Taylorsville (East)/Murray (West) (30) <sup>4</sup>	28,092	23,640	84.2	83.4	84.9
--	Taylorsville (West) (30.1) <sup>5</sup>	--	--	--	--	--
21	West Jordan (NE) (33.1) (33.2) <sup>3</sup>	25,807	23,053	89.3	88.7	89.9
25	West Jordan (SE) (34.1)	23,737	21,454	90.4	89.8	91.0
23	West Jordan West, Copperton (34.2)	25,720	23,141	90.0	89.4	90.6
4	West Valley East (23) (23.1) <sup>3</sup>	38,505	28,445	73.9	73.0	74.7
7	West Valley West (22)	51,562	43,138	83.7	82.9	84.4
	Southeastern Utah LHD	39,857	33,281	83.5	82.8	84.2
48	Carbon/Emery Counties (56)	23,105	21,847	94.6	94.1	95.0
1	Grand/San Juan Counties (57)	21,238	11,681	55.0	54.0	56.0
	Southwest Utah LHD	143,247	134,818	94.1	93.7	94.6
41	Cedar City (60)	28,152	26,329	93.5	93.0	94.0
62	Southwest LHD (Other) (61)	17,479	16,949	97.0	96.6	97.3
34	St. George (58)	54,345	50,183	92.3	91.8	92.9
56	Washington Co. (Other) (59)	43,179	41,300	95.6	95.2	96.0
53	Summit County LHD (51)	26,510	25,287	95.4	95.0	95.8
52	Tooele County LHD (40)	37,133	35,335	95.2	94.7	95.6
19	TriCounty LHD (53)	34,952	30,887	88.4	87.7	89.0
	Utah County LHD	336,046	308,969	91.9	91.4	92.5
57	American Fork/Alpine (42)	30,995	29,698	95.8	95.4	96.2
39	Lehi/Cedar Valley (41)	47,698	44,460	93.2	92.7	93.7
32	Orem East (46)	14,282	13,102	91.7	91.2	92.3
15	Orem North (44)	25,294	22,146	87.6	86.9	88.2
31	Orem West (45)	22,211	20,353	91.6	91.1	92.2
51	Pleasant Grove/Lindon (43)	32,428	30,820	95.0	94.6	95.5
22	Provo North/BYU (47)	38,476	34,533	89.8	89.2	90.3
17	Provo South (48)	50,129	44,185	88.1	87.5	88.8
43	Springville/Spanish Fork (49)	51,603	48,394	93.8	93.3	94.3
37	Utah Co. South (50)	21,229	19,678	92.7	92.2	93.2
59	Wasatch County LHD (52)	15,695	15,150	96.5	96.2	96.9
	Weber-Morgan LHD	168,047	149,555	89.0	88.4	89.6
10	Ben Lomond (5)	38,859	33,222	85.5	84.8	86.2
61	Morgan Co (All)/Weber Co. (East) (6)	28,889	27,963	96.8	96.4	97.1
6	Ogden (Downtown) (7)	24,373	20,072	82.4	81.6	83.1
30	Riverdale (10)	17,940	16,404	91.4	90.9	92.0
35	Roy/Hooper (9)	30,496	28,190	92.4	91.9	93.0
14	South Ogden (8)	27,358	23,773	86.9	86.2	87.6

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>2</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>3</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>4</sup>Data are not yet available for ACS 2008-2012. <sup>5</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. Source: U.S. Census Bureau, 2008-2012 American Community Survey B01001A

Hispanic Population Ages 18+ by Small Area, Health District, Utah, or U.S., 2008-2012						
State Rank*	Small Area, Health District, Utah, or U.S.	2008-2012 Population 18+	2008-2012 Hispanic 18+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	235,158,852	33,478,249	14.2	13.6	14.9
	State of Utah	1,899,143	214,870	11.3	10.7	11.9
	Bear River LHD	111,473	8,803	7.9	7.4	8.4
24	Brigham City (1)	16,267	1,135	7.0	6.5	7.5
25	Box Elder County (Other) (2)	16,575	1,222	7.4	6.9	7.9
14	Cache Co (Oth)/Rich Co (All) (4)	27,433	1,477	5.4	4.9	5.8
35	Logan (3)	51,163	4,969	9.7	9.1	10.3
	Central Utah LHD	51,626	3,299	6.4	5.9	6.9
28	Juab/Millard/Sanpete Counties (54)	34,356	2,654	7.7	7.2	8.2
5	Sevier/Piute/Wayne Counties (55)	17,291	641	3.7	3.3	4.1
	Davis County LHD	201,915	15,381	7.6	7.1	8.1
15	Bountiful (16)	32,122	1,829	5.7	5.2	6.1
45	Clearfield/Hill AFB (11)	41,752	5,089	12.2	11.5	12.8
2	Farmington/Centerville (14)	23,443	712	3.0	2.7	3.4
33	Layton (12)	50,280	4,737	9.4	8.8	10.0
9	Syracuse/Kaysville (13)	34,812	1,558	4.5	4.1	4.9
31	Woods Cross/North Salt Lake (15)	19,638	1,702	8.7	8.1	9.2
	Salt Lake County LHD	732,642	107,430	14.7	14.0	15.4
3	Cottonwood (28)	32,061	1,103	3.4	3.1	3.8
11	Holladay (27)	35,771	1,607	4.5	4.1	4.9
57	Kearns (29) (29.1) <sup>b</sup>	44,672	11,098	24.8	24.0	25.7
54	Magna (20)	18,074	3,723	20.6	19.8	21.4
55	Midvale (32)	22,513	4,837	21.5	20.7	22.3
13	Millcreek (26)	43,801	2,244	5.1	4.7	5.6
44	Murray (31)	24,711	2,845	11.5	10.9	12.1
19	Riverton/Draper (39)	69,374	4,412	6.4	5.9	6.8
22	SLC (Avenues) (18)	18,460	1,275	6.9	6.4	7.4
34	SLC (Downtown) (24)	42,961	4,163	9.7	9.1	10.3
6	SLC (Foothill/U of U) (19)	17,804	743	4.2	3.8	4.6
62	SLC (Glendale) (21)	20,578	8,000	38.9	37.9	39.8
61	SLC (Rose Park) (17)	22,171	8,431	38.0	37.1	39.0
30	Sandy Center (36)	36,972	3,006	8.1	7.6	8.7
7	Sandy (NE) (37)	17,557	748	4.3	3.9	4.7
1	Sandy (SE) (38)	21,041	478	2.3	2.0	2.6
12	South Jordan (35)	33,486	1,706	5.1	4.7	5.5
58	South Salt Lake (25)	18,574	4,935	26.6	25.7	27.4
46	Taylorsville (East)/Murray (West) (30) <sup>c</sup>	28,092	3,789	13.5	12.8	14.2
--	Taylorsville (West) (30.1) <sup>c</sup>	--	--	--	--	--
47	West Jordan (NE) (33.1) (33.2) <sup>b</sup>	25,807	3,610	14.0	13.3	14.7
48	West Jordan (SE) (34.1)	23,737	3,646	15.4	14.7	16.1
53	West Jordan West, Copperton (34.2)	25,720	4,950	19.2	18.5	20.0
60	West Valley East (23) (23.1) <sup>b</sup>	38,505	11,826	30.7	29.8	31.6
59	West Valley West (22)	51,562	14,361	27.9	27.0	28.7
	Southeastern Utah LHD	39,857	2,974	7.5	6.9	8.0
32	Carbon/Emery Counties (56)	23,105	2,050	8.9	8.3	9.4
10	Grand/San Juan Counties (57)	21,238	952	4.5	4.1	4.9
	Southwest Utah LHD	143,247	10,750	7.5	7.0	8.0
21	Cedar City (60)	28,152	1,836	6.5	6.0	7.0
17	Southwest LHD (Other) (61)	17,479	1,041	6.0	5.5	6.4
37	St. George (58)	54,345	5,356	9.9	9.3	10.4
16	Washington Co. (Other) (59)	43,179	2,518	5.8	5.4	6.3
36	Summit County LHD (51)	26,510	2,580	9.7	9.2	10.3
40	Tooele County LHD (40)	37,133	3,926	10.6	10.0	11.2
18	TriCounty LHD (53)	34,952	2,127	6.1	5.6	6.6
	Utah County LHD	336,046	32,776	9.8	9.2	10.3
4	American Fork/Alpine (42)	30,995	1,092	3.5	3.2	3.9
23	Lehi/Cedar Valley (41)	47,698	3,327	7.0	6.5	7.5
29	Orem East (46)	14,282	1,137	8.0	7.4	8.5
52	Orem North (44)	25,294	4,760	18.8	18.1	19.6
41	Orem West (45)	22,211	2,435	11.0	10.4	11.6
20	Pleasant Grove/Lindon (43)	32,428	2,093	6.5	6.0	6.9
26	Provo North/BYU (47)	38,476	2,903	7.5	7.0	8.1
51	Provo South (48)	50,129	8,716	17.4	16.6	18.1
27	Springville/Spanish Fork (49)	51,603	3,951	7.7	7.1	8.2
39	Utah Co. South (50)	21,229	2,178	10.3	9.7	10.9
43	Wasatch County LHD (52)	15,695	1,755	11.2	10.6	11.8
	Weber-Morgan LHD	168,047	23,069	13.7	13.1	14.4
50	Ben Lomond (5)	38,859	6,578	16.9	16.2	17.7
8	Morgan Co (All)/Weber Co. (East) (6)	28,889	1,248	4.3	3.9	4.7
56	Ogden (Downtown) (7)	24,373	5,614	23.0	22.2	23.9
42	Riverdale (10)	17,940	1,984	11.1	10.4	11.7
38	Roy/Hooper (9)	30,496	3,107	10.2	9.6	10.8
49	South Ogden (8)	27,358	4,292	15.7	15.0	16.4

\*State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>b</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>c</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>d</sup>Data is not yet available for ACS 2008-2012. Source: U.S. Census Bureau, 2008-2012 American Community Survey B01001B

Persons in Workforce Ages 16+ by Small Area, Health District, Utah, or U.S., 2008-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2008-2012 Population 16+	2008-2012 Workforce 16+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	243,810,053	157,664,311	64.7	63.7	65.6
	State of Utah	1,984,562	1,368,252	68.9	68.0	69.9
	Bear River LHD	116,844	80,564	69.0	68.0	69.9
12	Brigham City (1)	17,175	11,001	64.1	63.1	65.0
17	Box Elder County (Other) (2)	17,546	11,599	66.1	65.2	67.0
37	Cache Co (Oth)/Rich Co (All) (4)	29,254	20,535	70.2	69.3	71.1
41	Logan (3)	52,834	37,411	70.8	69.9	71.7
	Central Utah LHD	54,484	32,714	60.0	59.1	61.0
4	Juab/Millard/Sanpete Counties (54)	36,353	21,792	59.9	59.0	60.9
5	Sevier/Piute/Wayne Counties (55)	18,180	11,003	60.5	59.6	61.5
	Davis County LHD	211,828	149,076	70.4	69.5	71.3
11	Bountiful (16)	33,544	21,231	63.3	62.3	64.2
54	Clearfield/Hill AFB (11)	43,662	32,370	74.1	73.3	75.0
31	Farmington/Centerville (14)	24,569	16,988	69.1	68.2	70.0
32	Layton (12)	52,730	36,601	69.4	68.5	70.3
45	Syracuse/Kaysville (13)	37,014	26,492	71.6	70.7	72.5
59	Woods Cross/North Salt Lake (15)	20,400	15,444	75.7	74.9	76.5
	Salt Lake County LHD	762,457	547,998	71.9	71.0	72.8
20	Cottonwood (28)	33,221	22,231	66.9	66.0	67.8
16	Holladay (27)	36,938	24,309	65.8	64.9	66.7
56	Kearns (29) (29.1) <sup>§</sup>	46,769	35,007	74.9	74.0	75.7
55	Magna (20)	19,054	14,197	74.5	73.7	75.4
57	Midvale (32)	23,125	17,319	74.9	74.0	75.7
33	Millcreek (26)	45,231	31,553	69.8	68.9	70.7
46	Murray (31)	25,302	18,120	71.6	70.7	72.5
42	Riverton/Draper (39)	73,408	52,068	70.9	70.0	71.8
48	SLC (Avenues) (18)	18,805	13,652	72.6	71.7	73.5
53	SLC (Downtown) (24)	43,813	32,439	74.0	73.2	74.9
15	SLC (Foothill/U of U) (19)	18,230	11,926	65.4	64.5	66.4
28	SLC (Glendale) (21)	21,500	14,811	68.9	68.0	69.8
40	SLC (Rose Park) (17)	23,178	16,402	70.8	69.9	71.7
47	Sandy Center (36)	38,398	27,671	72.1	71.2	72.9
18	Sandy (NE) (37)	18,374	12,258	66.7	65.8	67.6
38	Sandy (SE) (38)	22,284	15,647	70.2	69.3	71.1
39	South Jordan (35)	35,184	24,799	70.5	69.6	71.4
36	South Salt Lake (25)	19,030	13,341	70.1	69.2	71.0
50	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	28,933	21,263	73.5	72.6	74.4
--	Taylorsville (West) (30.1) <sup>¶</sup>	--	--	--	--	--
61	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	26,977	20,825	77.2	76.4	78.0
60	West Jordan (SE) (34.1)	25,095	19,288	76.9	76.0	77.7
62	West Jordan West, Copperton (34.2)	27,032	21,525	79.6	78.8	80.4
29	West Valley East (23) (23.1) <sup>§</sup>	39,982	27,636	69.1	68.2	70.0
58	West Valley West (22)	53,994	40,783	75.5	74.7	76.4
	Southeastern Utah LHD	41,684	24,947	59.8	58.9	60.8
6	Carbon/Emery Counties (56)	24,068	14,580	60.6	59.6	61.5
1	Grand/San Juan Counties (57)	22,393	12,459	55.6	54.7	56.6
	Southwest Utah LHD	149,426	89,947	60.2	59.2	61.2
14	Cedar City (60)	29,635	19,303	65.1	64.2	66.1
9	Southwest LHD (Other) (61)	18,291	11,382	62.2	61.3	63.2
2	St. George (58)	56,511	32,538	57.6	56.6	58.5
3	Washington Co. (Other) (59)	44,897	26,565	59.2	58.2	60.1
51	Summit County LHD (51)	27,555	20,324	73.8	72.9	74.6
34	Tooele County LHD (40)	39,097	27,295	69.8	68.9	70.7
13	TriCounty LHD (53)	36,751	23,579	64.2	63.2	65.1
	Utah County LHD	352,536	240,514	68.2	67.3	69.1
10	American Fork/Alpine (42)	33,209	20,976	63.2	62.2	64.1
43	Lehi/Cedar Valley (41)	50,482	35,911	71.1	70.2	72.0
8	Orem East (46)	15,026	9,233	61.4	60.5	62.4
30	Orem North (44)	26,531	18,340	69.1	68.2	70.0
49	Orem West (45)	22,966	16,690	72.7	71.8	73.5
25	Pleasant Grove/Lindon (43)	34,409	23,512	68.3	67.4	69.2
7	Provo North/BYU (47)	39,857	24,177	60.7	59.7	61.6
52	Provo South (48)	51,468	38,096	74.0	73.2	74.9
24	Springville/Spanish Fork (49)	54,406	37,063	68.1	67.2	69.0
22	Utah Co. South (50)	22,415	15,132	67.5	66.6	68.4
44	Wasatch County LHD (52)	16,518	11,752	71.1	70.3	72.0
	Weber-Morgan LHD	175,382	119,542	68.2	67.2	69.1
26	Ben Lomond (5)	40,273	27,584	68.5	67.6	69.4
21	Morgan Co (All)/Weber Co. (East) (6)	30,462	20,436	67.1	66.2	68.0
23	Ogden (Downtown) (7)	25,560	17,388	68.0	67.1	68.9
27	Riverdale (10)	18,695	12,826	68.6	67.7	69.5
35	Roy/Hooper (9)	31,846	22,264	69.9	69.0	70.8
19	South Ogden (8)	28,455	18,994	66.8	65.8	67.7

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>§</sup>Data are not yet available for ACS 2008-2012. Source: U.S. Census Bureau, 2008-2012 American Community Survey B23001

Employed Population by Small Area, Health District, Utah, or U.S, 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2009-2012 Employed Adults	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>†</sup>	240,185,952	133,063,017	55.4	55.2	55.6
	State of Utah	1,967,315	1,214,620	61.7	61.1	62.3
	Bear River LHD	114,924	71,345	62.1	59.7	64.4
52	Brigham City (1)	16,086	10,638	66.1	60.5	71.3
37	Box Elder County (Other) (2)	17,287	11,020	63.8	57.8	69.3
44	Cache Co (Oth)/Rich Co (All) (4)	27,519	17,830	64.8	60.3	69.1
18	Logan (3)	53,455	31,405	58.8	54.8	62.6
	Central Utah LHD	52,303	30,738	58.8	56.0	61.5
26	Juab/Millard/Sanpete Counties (54)	34,778	21,228	61.0	57.5	64.4
12	Sevier/Piute/Wayne Counties (55)	17,651	10,015	56.7	52.0	61.4
	Davis County LHD	209,077	130,945	62.6	60.7	64.5
10	Bountiful (16)	32,734	18,469	56.4	51.6	61.1
58	Clearfield/Hill AFB (11)	44,893	30,002	66.8	62.9	70.6
46	Farmington/Centerville (14)	23,643	15,408	65.2	60.0	70.1
35	Layton (12)	50,686	32,236	63.6	59.4	67.6
25	Syracuse/Kaysville (13)	36,386	21,904	60.2	55.6	64.7
54	Woods Cross/North Salt Lake (15)	20,675	13,679	66.2	60.3	71.6
	Salt Lake County LHD	757,119	483,648	63.9	62.9	64.8
17	Cottonwood (28)	33,211	19,508	58.7	54.5	62.8
21	Holladay (27)	35,928	21,392	59.5	55.4	63.6
49	Kearns (29) (29.1) <sup>‡</sup>	25,972	16,962	65.3	61.0	69.4
45	Magna (20)	17,913	11,624	64.9	58.7	70.7
40	Midvale (32)	22,833	14,684	64.3	58.1	70.1
34	Millcreek (26)	43,883	27,809	63.4	59.8	66.8
24	Murray (31)	25,516	15,304	60.0	54.9	64.8
55	Riverton/Draper (39)	74,334	49,298	66.3	63.3	69.2
42	SLC (Avenues) (18)	18,589	11,971	64.4	58.2	70.1
50	SLC (Downtown) (24)	43,048	28,196	65.5	61.1	69.6
4	SLC (Foothill/U of U) (19)	18,546	10,108	54.5	47.9	60.9
33	SLC (Glendale) (21)	22,235	14,050	63.2	56.5	69.4
56	SLC (Rose Park) (17)	23,310	15,527	66.6	60.3	72.4
28	Sandy Center (36)	38,657	23,898	61.8	57.7	65.8
53	Sandy (NE) (37)	16,992	11,239	66.1	60.8	71.1
20	Sandy (SE) (38)	21,375	12,654	59.2	53.8	64.4
59	South Jordan (35)	36,470	24,406	66.9	62.8	70.8
13	South Salt Lake (25)	20,259	11,649	57.5	50.4	64.3
57	Taylorsville (East)/Murray (West) (30) <sup>†</sup>	27,559	18,374	66.7	62.1	71.0
19	Taylorsville (West) (30.1) <sup>‡</sup>	27,721	16,294	58.8	48.6	68.3
61	West Jordan (NE) (33.1) (33.2) <sup>‡</sup>	21,746	14,798	68.1	62.9	72.8
62	West Jordan (SE) (34.1)	24,374	16,638	68.3	62.8	73.3
63	West Jordan West, Copperton (34.2)	26,643	18,951	71.1	65.9	75.8
31	West Valley East (23) (23.1) <sup>‡</sup>	37,199	23,075	62.0	57.2	66.7
23	West Valley West (22)	53,441	31,888	59.7	55.6	63.6
	Southeastern Utah LHD	40,317	23,981	59.5	56.6	62.3
11	Carbon/Emery Counties (56)	23,192	13,134	56.6	53.2	60.1
36	Grand/San Juan Counties (57)	17,103	10,884	63.6	58.4	68.6
	Southwest Utah LHD	148,401	80,077	54.0	51.4	56.5
14	Cedar City (60)	29,168	16,777	57.5	51.7	63.1
2	Southwest LHD (Other) (61)	17,288	8,851	51.2	45.0	57.4
3	St. George (58)	56,177	29,178	51.9	47.6	56.2
8	Washington Co. (Other) (59)	45,712	25,512	55.8	51.4	60.2
60	Summit County LHD (51)	27,801	18,618	67.0	63.7	70.1
39	Tooele County LHD (40)	38,707	24,877	64.3	61.3	67.1
43	TriCounty LHD (53)	36,560	23,614	64.6	61.7	67.4
	Utah County LHD	352,433	209,310	59.4	57.8	61.0
5	American Fork/Alpine (42)	33,188	18,267	55.0	49.8	60.2
51	Lehi/Cedar Valley (41)	52,992	34,784	65.6	61.4	69.6
15	Orem East (46)	15,059	8,731	58.0	50.6	65.0
32	Orem North (44)	25,424	15,783	62.1	55.9	67.9
6	Orem West (45)	23,220	12,880	55.5	48.4	62.3
22	Pleasant Grove/Lindon (43)	33,977	20,264	59.6	54.5	64.6
1	Provo North/BYU (47)	41,689	20,115	48.3	42.6	54.0
7	Provo South (48)	49,593	27,663	55.8	50.5	61.0
41	Springville/Spanish Fork (49)	54,228	34,917	64.4	60.8	67.9
16	Utah Co. South (50)	22,548	13,078	58.0	52.1	63.7
47	Wasatch County LHD (52)	16,912	11,038	65.3	61.2	69.2
	Weber-Morgan LHD	172,761	107,164	62.0	60.1	63.9
27	Ben Lomond (5)	40,310	24,871	61.7	57.5	65.7
30	Morgan Co (All)/Weber Co. (East) (6)	29,995	18,594	62.0	57.8	66.0
9	Ogden (Downtown) (7)	26,184	14,676	56.1	50.6	61.3
29	Riverdale (10)	18,568	11,484	61.9	56.1	67.3
48	Roy/Hooper (9)	30,718	20,053	65.3	61.0	69.4
38	South Ogden (8)	26,920	17,178	63.8	58.7	68.6

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>‡</sup>Data are from 2012. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates from the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

Unemployed Population by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2009-2012 Unemployed Adults	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>†</sup>	240,185,952	36,508,265	15.2	15.0	15.4
	State of Utah	1,967,315	201,256	10.2	9.8	10.7
	Bear River LHD	114,924	8,148	7.1	5.9	8.4
27	Brigham City (1)	16,086	1,482	9.2	6.3	13.3
31	Box Elder County (Other) (2)	17,287	1,649	9.5	6.4	14.0
2	Cache Co (Oth)/Rich Co (All) (4)	27,519	1,280	4.7	3.0	7.1
9	Logan (3)	53,455	3,539	6.6	5.0	8.8
	Central Utah LHD	52,303	6,407	12.3	10.2	14.7
43	Juab/Millard/Sanpete Counties (54)	34,778	4,118	11.8	9.4	14.9
47	Sevier/Piute/Wayne Counties (55)	17,651	2,208	12.5	9.3	16.7
	Davis County LHD	209,077	17,834	8.5	7.4	9.9
26	Bountiful (16)	32,734	2,972	9.1	5.7	14.2
37	Clearfield/Hill AFB (11)	44,893	4,781	10.7	8.2	13.7
5	Farmington/Centerville (14)	23,643	1,428	6.0	4.0	9.1
29	Layton (12)	50,686	4,759	9.4	7.0	12.5
19	Syracuse/Kaysville (13)	36,386	2,827	7.8	5.4	11.1
1	Woods Cross/North Salt Lake (15)	20,675	914	4.4	2.6	7.5
	Salt Lake County LHD	757,119	85,554	11.3	10.6	12.0
23	Cottonwood (28)	33,211	2,919	8.8	6.5	11.8
15	Holladay (27)	35,928	2,705	7.5	5.5	10.3
58	Kearns (29) (29.1) <sup>§</sup>	25,972	4,119	15.9	12.7	19.6
59	Magna (20)	17,913	2,929	16.4	12.1	21.8
54	Midvale (32)	22,833	3,176	13.9	9.4	20.0
12	Millcreek (26)	43,883	3,116	7.1	5.4	9.3
53	Murray (31)	25,516	3,526	13.8	10.6	17.9
22	Riverton/Draper (39)	74,334	6,504	8.8	6.8	11.3
13	SLC (Avenues) (18)	18,589	1,327	7.1	4.3	11.6
48	SLC (Downtown) (24)	43,048	5,583	13.0	10.1	16.5
20	SLC (Foothill/U of U) (19)	18,546	1,467	7.9	4.8	12.9
60	SLC (Glendale) (21)	22,235	3,642	16.4	12.0	21.9
50	SLC (Rose Park) (17)	23,310	3,089	13.3	9.5	18.2
44	Sandy Center (36)	38,657	4,631	12.0	9.4	15.2
4	Sandy (NE) (37)	16,992	953	5.6	3.3	9.3
16	Sandy (SE) (38)	21,375	1,627	7.6	5.3	10.9
11	South Jordan (35)	36,470	2,465	6.8	4.7	9.6
63	South Salt Lake (25)	20,259	4,141	20.4	15.4	26.7
39	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	27,559	3,009	10.9	8.2	14.4
56	Taylorsville (West) (30.1) <sup>¶</sup>	27,721	3,942	14.2	8.3	23.3
30	West Jordan (NE) (33.1) (33.2) <sup>¶</sup>	21,746	2,075	9.5	6.9	13.0
45	West Jordan (SE) (34.1)	24,374	2,932	12.0	8.5	16.7
7	West Jordan West, Copperton (34.2)	26,643	1,737	6.5	4.3	9.8
57	West Valley East (23) (23.1) <sup>¶</sup>	37,199	5,866	15.8	12.6	19.6
62	West Valley West (22)	53,441	9,480	17.7	14.6	21.4
	Southeastern Utah LHD	40,317	5,487	13.6	11.6	15.9
55	Carbon/Emery Counties (56)	23,192	3,296	14.2	11.8	17.0
51	Grand/San Juan Counties (57)	17,103	2,268	13.3	10.0	17.5
	Southwest Utah LHD	148,401	16,250	11.0	9.2	13.0
52	Cedar City (60)	29,168	3,914	13.4	9.4	18.8
36	Southwest LHD (Other) (61)	17,288	1,820	10.5	7.0	15.6
28	St. George (58)	56,177	5,174	9.2	6.8	12.4
40	Washington Co. (Other) (59)	45,712	5,065	11.1	8.2	14.8
17	Summit County LHD (51)	27,801	2,135	7.7	6.0	9.7
41	Tooele County LHD (40)	38,707	4,471	11.6	9.5	13.9
35	TriCounty LHD (53)	36,560	3,729	10.2	8.6	12.1
	Utah County LHD	352,433	33,305	9.5	8.4	10.6
25	American Fork/Alpine (42)	33,188	2,944	8.9	5.8	13.4
14	Lehi/Cedar Valley (41)	52,992	3,937	7.4	5.2	10.5
8	Orem East (46)	15,059	994	6.6 <sup>*</sup>	3.3	12.8
33	Orem North (44)	25,424	2,537	10.0	6.8	14.5
24	Orem West (45)	23,220	2,055	8.9	5.1	14.8
46	Pleasant Grove/Lindon (43)	33,977	4,234	12.5	9.0	17.0
3	Provo North/BYU (47)	41,689	2,272	5.5	3.5	8.4
49	Provo South (48)	49,593	6,551	13.2	9.7	17.7
18	Springville/Spanish Fork (49)	54,228	4,186	7.7	5.7	10.3
38	Utah Co. South (50)	22,548	2,435	10.8	7.5	15.4
32	Wasatch County LHD (52)	16,912	1,647	9.7	7.5	12.6
	Weber-Morgan LHD	172,761	16,654	9.6	8.5	10.9
42	Ben Lomond (5)	40,310	4,688	11.6	9.2	14.6
10	Morgan Co (All)/Weber Co. (East) (6)	29,995	2,019	6.7	4.6	9.7
61	Ogden (Downtown) (7)	26,184	4,443	17.0	13.0	21.9
6	Riverdale (10)	18,568	1,183	6.4	4.2	9.6
21	Roy/Hooper (9)	30,718	2,657	8.7	6.4	11.6
34	South Ogden (8)	26,920	2,735	10.2	7.4	13.9

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>\*</sup>Data are from 2012. <sup>††</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates from the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

Homemaker Population by Small Area, Health District, Utah, or U.S, 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2009-2012 Homemakers	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>†</sup>	240,185,952	16,572,831	6.9	6.8	7.0
	State of Utah	1,967,315	209,716	10.7	10.3	11.0
	Bear River LHD	114,924	12,033	10.5	9.3	11.8
23	Brigham City (1)	16,086	1,483	9.2	6.8	12.5
33	Box Elder County (Other) (2)	17,287	1,743	10.1	7.2	13.9
52	Cache Co (Oth)/Rich Co (All) (4)	27,519	3,404	12.4	9.9	15.4
34	Logan (3)	53,455	5,394	10.1	8.3	12.3
	Central Utah LHD	52,303	5,753	11.0	9.5	12.7
39	Juab/Millard/Sanpete Counties (54)	34,778	3,721	10.7	9.0	12.7
38	Sevier/Piute/Wayne Counties (55)	17,651	1,869	10.6	8.0	13.9
	Davis County LHD	209,077	23,981	11.5	10.5	12.5
57	Bountiful (16)	32,734	4,557	13.9	11.4	16.9
24	Clearfield/Hill AFB (11)	44,893	4,162	9.3	7.4	11.6
46	Farmington/Centerville (14)	23,643	2,802	11.9	9.1	15.4
22	Layton (12)	50,686	4,668	9.2	7.5	11.3
61	Syracuse/Kaysville (13)	36,386	5,371	14.8	12.2	17.7
40	Woods Cross/North Salt Lake (15)	20,675	2,283	11.0	8.2	14.7
	Salt Lake County LHD	757,119	69,655	9.2	8.7	9.7
30	Cottonwood (28)	33,211	3,215	9.7	7.7	12.2
12	Holladay (27)	35,928	2,889	8.0	6.4	10.1
10	Kearns (29) (29.1) <sup>§</sup>	25,972	1,976	7.6	5.8	10.0
48	Magna (20)	17,913	2,162	12.1	8.6	16.7
2	Midvale (32)	22,833	1,066	4.7	2.9	7.4
19	Millcreek (26)	43,883	3,870	8.8	6.9	11.2
21	Murray (31)	25,516	2,314	9.1	6.8	12.0
59	Riverton/Draper (39)	74,334	10,637	14.3	12.5	16.3
3	SLC (Avenues) (18)	18,589	948	5.1	3.4	7.6
1	SLC (Downtown) (24)	43,048	1,933	4.5	3.1	6.5
17	SLC (Foothill/U of U) (19)	18,546	1,615	8.7	6.0	12.4
7	SLC (Glendale) (21)	22,235	1,525	6.9	4.5	10.4
13	SLC (Rose Park) (17)	23,310	1,918	8.2	5.3	12.6
29	Sandy Center (36)	38,657	3,665	9.5	7.5	11.9
31	Sandy (NE) (37)	16,992	1,655	9.7	7.2	13.0
55	Sandy (SE) (38)	21,375	2,928	13.7	10.6	17.5
60	South Jordan (35)	36,470	5,317	14.6	12.0	17.6
4	South Salt Lake (25)	20,259	1,155	5.7*	3.0	10.6
9	Taylorsville (East)/Murray (West) (30)**	27,559	2,037	7.4	5.4	10.1
16	Taylorsville (West) (30.1) <sup>§</sup>	27,721	2,412	8.7*	4.2	17.1
8	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,746	1,509	6.9	4.8	10.0
6	West Jordan (SE) (34.1)	24,374	1,665	6.8	4.8	9.7
53	West Jordan West, Copperton (34.2)	26,643	3,389	12.7	9.7	16.5
15	West Valley East (23) (23.1) <sup>§</sup>	37,199	3,169	8.5	6.2	11.7
25	West Valley West (22)	53,441	4,959	9.3	7.4	11.6
	Southeastern Utah LHD	40,317	3,749	9.3	7.9	10.9
35	Carbon/Emery Counties (56)	23,192	2,428	10.5	8.8	12.4
11	Grand/San Juan Counties (57)	17,103	1,343	7.9	5.6	10.9
	Southwest Utah LHD	148,401	14,885	10.0	8.8	11.5
32	Cedar City (60)	29,168	2,902	10.0	7.3	13.4
26	Southwest LHD (Other) (61)	17,288	1,627	9.4	6.6	13.3
36	St. George (58)	56,177	5,904	10.5	8.4	13.1
27	Washington Co. (Other) (59)	45,712	4,311	9.4	7.4	12.0
28	Summit County LHD (51)	27,801	2,636	9.5	7.9	11.3
41	Tooele County LHD (40)	38,707	4,300	11.1	9.5	13.0
49	TriCounty LHD (53)	36,560	4,435	12.1	10.5	14.0
	Utah County LHD	352,433	49,164	14.0	13.0	14.9
63	American Fork/Alpine (42)	33,188	5,927	17.9	14.6	21.6
62	Lehi/Cedar Valley (41)	52,992	8,754	16.5	14.1	19.3
51	Orem East (46)	15,059	1,855	12.3	8.9	16.8
47	Orem North (44)	25,424	3,061	12.0	8.9	16.1
50	Orem West (45)	23,220	2,824	12.2	9.0	16.3
56	Pleasant Grove/Lindon (43)	33,977	4,706	13.9	11.2	17.0
42	Provo North/BYU (47)	41,689	4,648	11.2	8.6	14.3
43	Provo South (48)	49,593	5,609	11.3	8.7	14.6
54	Springville/Spanish Fork (49)	54,228	7,348	13.6	11.6	15.8
58	Utah Co. South (50)	22,548	3,168	14.1	10.9	17.9
37	Wasatch County LHD (52)	16,912	1,791	10.6	8.1	13.8
	Weber-Morgan LHD	172,761	16,637	9.6	8.6	10.7
20	Ben Lomond (5)	40,310	3,600	8.9	7.1	11.3
44	Morgan Co (All)/Weber Co. (East) (6)	29,995	3,443	11.5	9.3	14.1
45	Ogden (Downtown) (7)	26,184	3,061	11.7	8.5	15.8
5	Riverdale (10)	18,568	1,233	6.6	4.6	9.6
14	Roy/Hooper (9)	30,718	2,586	8.4	6.4	11.0
18	South Ogden (8)	26,920	2,366	8.8	6.7	11.5

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>||</sup>Data are from 2012. <sup>|||</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates from the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

Student Population by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2009-2012 Students	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>†</sup>	240,185,952	14,411,157	6.0	5.8	6.1
	State of Utah	1,967,315	116,072	5.9	5.5	6.3
	Bear River LHD	114,924	10,906	9.5	7.7	11.6
10	Brigham City (1)	16,086	499	3.1*	1.2	7.7
12	Box Elder County (Other) (2)	17,287	553	3.2*	1.3	7.5
41	Cache Co (Oth)/Rich Co (All) (4)	27,519	1,896	6.9	4.2	11.1
60	Logan (3)	53,455	8,403	15.7	12.5	19.6
	Central Utah LHD	52,303	2,019	3.9	2.7	5.6
19	Juab/Millard/Sanpete Counties (54)	34,778	1,356	3.9	2.5	6.1
14	Sevier/Piute/Wayne Counties (55)	17,651	614	3.5	1.9	6.3
	Davis County LHD	209,077	12,377	5.9	4.7	7.4
11	Bountiful (16)	32,734	1,015	3.1*	1.7	5.7
25	Clearfield/Hill AFB (11)	44,893	1,939	4.3	2.7	6.9
26	Farmington/Centerville (14)	23,643	1,017	4.3*	1.9	9.6
46	Layton (12)	50,686	3,578	7.1	4.3	11.5
52	Syracuse/Kaysville (13)	36,386	3,013	8.3	5.2	12.9
51	Woods Cross/North Salt Lake (15)	20,675	1,693	8.2	4.5	14.5
	Salt Lake County LHD	757,119	36,115	4.8	4.3	5.4
33	Cottonwood (28)	33,211	1,860	5.6	3.3	9.4
50	Holladay (27)	35,928	2,806	7.8	5.1	11.7
20	Kearns (29) (29.1) <sup>§</sup>	25,972	1,021	3.9	2.2	6.9
**	Magna (20)	17,913	**	**	**	**
13	Midvale (32)	22,833	731	3.2*	1.4	6.9
40	Millcreek (26)	43,883	2,901	6.6	4.8	9.1
16	Murray (31)	25,516	944	3.7*	1.8	7.1
27	Riverton/Draper (39)	74,334	3,211	4.3	2.9	6.3
53	SLC (Avenues) (18)	18,589	1,580	8.5	5.0	14.0
54	SLC (Downtown) (24)	43,048	3,866	9.0	6.5	12.4
58	SLC (Foothill/U of U) (19)	18,546	2,619	14.1	8.9	21.6
28	SLC (Glendale) (21)	22,235	956	4.3*	1.9	9.4
21	SLC (Rose Park) (17)	23,310	909	3.9*	1.8	8.2
30	Sandy Center (36)	38,657	1,879	4.9	2.9	8.0
18	Sandy (NE) (37)	16,992	646	3.8*	1.8	7.9
47	Sandy (SE) (38)	21,375	1,528	7.2	4.0	12.4
23	South Jordan (35)	36,470	1,510	4.1	2.5	6.8
15	South Salt Lake (25)	20,259	729	3.6*	1.4	8.8
1	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	27,559	524	1.9*	0.9	4.0
6	Taylorsville (West) (30.1) <sup>¶</sup>	27,721	748	2.7*	0.7	10.2
37	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,746	1,400	6.4	3.7	11.0
34	West Jordan (SE) (34.1)	24,374	1,365	5.6*	2.9	10.4
17	West Jordan West, Copperton (34.2)	26,643	986	3.7*	1.9	7.2
2	West Valley East (23) (23.1) <sup>§</sup>	37,199	856	2.3*	1.2	4.6
24	West Valley West (22)	53,441	2,234	4.2	2.4	7.1
	Southeastern Utah LHD	40,317	1,085	2.7	1.6	4.6
4	Carbon/Emery Counties (56)	23,192	545	2.4	1.3	4.1
22	Grand/San Juan Counties (57)	17,103	684	4.0*	1.7	9.1
	Southwest Utah LHD	148,401	8,563	5.8	4.4	7.6
49	Cedar City (60)	29,168	2,258	7.7	4.7	12.5
**	Southwest LHD (Other) (61)	17,288	**	**	**	**
44	St. George (58)	56,177	3,916	7.0	4.6	10.5
32	Washington Co. (Other) (59)	45,712	2,418	5.3	3.2	8.6
31	Summit County LHD (51)	27,801	1,437	5.2	3.2	8.1
7	Tooele County LHD (40)	38,707	1,053	2.7	1.8	4.0
5	TriCounty LHD (53)	36,560	870	2.4	1.4	4.0
	Utah County LHD	352,433	32,283	9.2	8.0	10.5
56	American Fork/Alpine (42)	33,188	3,269	9.9	6.4	14.8
38	Lehi/Cedar Valley (41)	52,992	3,402	6.4	3.9	10.3
55	Orem East (46)	15,059	1,355	9.0	4.7	16.4
45	Orem North (44)	25,424	1,782	7.0	3.9	12.2
57	Orem West (45)	23,220	2,803	12.1	7.4	19.0
42	Pleasant Grove/Lindon (43)	33,977	2,338	6.9	4.1	11.3
61	Provo North/BYU (47)	41,689	9,689	23.2	18.0	29.4
59	Provo South (48)	49,593	7,449	15.0	11.4	19.5
35	Springville/Spanish Fork (49)	54,228	3,113	5.7	3.8	8.6
48	Utah Co. South (50)	22,548	1,630	7.2	3.7	13.6
3	Wasatch County LHD (52)	16,912	386	2.3	1.3	4.0
	Weber-Morgan LHD	172,761	8,223	4.8	3.7	6.1
36	Ben Lomond (5)	40,310	2,282	5.7	3.4	9.2
29	Morgan Co (All)/Weber Co. (East) (6)	29,995	1,416	4.7	2.8	7.8
8	Ogden (Downtown) (7)	26,184	707	2.7*	1.2	5.9
43	Riverdale (10)	18,568	1,277	6.9	3.4	13.3
9	Roy/Hooper (9)	30,718	891	2.9*	1.5	5.7
39	South Ogden (8)	26,920	1,712	6.4	3.7	10.7

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>||</sup>Data are from 2012. <sup>\*\*</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. <sup>\*\*\*</sup>The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates from the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

Married Population by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2009-2012 Married Adults	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>†</sup>	240,185,952	120,333,162	50.1	49.9	50.3
	State of Utah	1,967,315	1,196,324	60.8	60.2	61.5
	Bear River LHD	114,924	73,402	63.9	61.2	66.4
37	Brigham City (1)	16,086	10,199	63.4	56.8	69.5
50	Box Elder County (Other) (2)	17,287	11,786	68.2	61.3	74.4
53	Cache Co (Oth)/Rich Co (All) (4)	27,519	18,961	68.9	63.8	73.6
25	Logan (3)	53,455	31,442	58.8	54.7	62.9
	Central Utah LHD	52,303	35,786	68.4	65.3	71.4
49	Juab/Millard/Sanpete Counties (54)	34,778	23,708	68.2	64.2	71.9
46	Sevier/Piute/Wayne Counties (55)	17,651	11,628	65.9	60.6	70.8
	Davis County LHD	209,077	136,172	65.1	63.1	67.1
40	Bountiful (16)	32,734	20,924	63.9	58.7	68.9
30	Clearfield/Hill AFB (11)	44,893	26,855	59.8	55.3	64.2
63	Farmington/Centerville (14)	23,643	17,590	74.4	69.0	79.2
39	Layton (12)	50,686	32,272	63.7	59.1	68.0
56	Syracuse/Kaysville (13)	36,386	25,485	70.0	64.8	74.8
47	Woods Cross/North Salt Lake (15)	20,675	13,761	66.6	60.2	72.4
	Salt Lake County LHD	757,119	431,861	57.0	56.0	58.1
27	Cottonwood (28)	33,211	19,794	59.6	55.1	63.9
18	Holladay (27)	35,928	19,599	54.6	50.2	58.8
16	Kearns (29) (29.1) <sup>§</sup>	25,972	13,843	53.3	48.7	57.8
32	Magna (20)	17,913	10,864	60.7	54.0	66.9
5	Midvale (32)	22,833	10,444	45.7	39.8	51.8
11	Millcreek (26)	43,883	22,802	52.0	48.1	55.8
7	Murray (31)	25,516	12,163	47.7	42.6	52.8
61	Riverton/Draper (39)	74,334	53,862	72.5	69.2	75.5
4	SLC (Avenues) (18)	18,589	8,181	44.0	38.0	50.2
3	SLC (Downtown) (24)	43,048	17,081	39.7	35.4	44.1
26	SLC (Foothill/U of U) (19)	18,546	10,946	59.0	52.1	65.6
1	SLC (Glendale) (21)	22,235	7,411	33.3	27.5	39.7
6	SLC (Rose Park) (17)	23,310	11,082	47.5	41.0	54.2
29	Sandy Center (36)	38,657	23,113	59.8	55.3	64.1
51	Sandy (NE) (37)	16,992	11,701	68.9	62.6	74.5
58	Sandy (SE) (38)	21,375	15,305	71.6	65.6	76.9
62	South Jordan (35)	36,470	26,853	73.6	68.9	77.9
2	South Salt Lake (25)	20,259	7,490	37.0	30.5	43.9
10	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	27,559	13,741	49.9	44.8	54.9
34	Taylorsville (West) (30.1) <sup>¶</sup>	27,721	17,079	61.6	51.1	71.2
28	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,746	12,987	59.7	54.3	65.0
23	West Jordan (SE) (34.1)	24,374	14,276	58.6	52.8	64.1
57	West Jordan West, Copperton (34.2)	26,643	18,703	70.2	64.1	75.7
8	West Valley East (23) (23.1) <sup>§</sup>	37,199	17,815	47.9	42.9	53.0
15	West Valley West (22)	53,441	28,195	52.8	48.7	56.8
	Southeastern Utah LHD	40,317	25,138	62.4	59.2	65.4
41	Carbon/Emery Counties (56)	23,192	14,836	64.0	60.3	67.5
20	Grand/San Juan Counties (57)	17,103	9,949	58.2	52.5	63.7
	Southwest Utah LHD	148,401	95,348	64.3	61.6	66.9
21	Cedar City (60)	29,168	17,034	58.4	52.4	64.2
59	Southwest LHD (Other) (61)	17,288	12,423	71.9	65.6	77.4
31	St. George (58)	56,177	33,897	60.3	55.7	64.8
48	Washington Co. (Other) (59)	45,712	30,993	67.8	63.1	72.2
42	Summit County LHD (51)	27,801	17,959	64.6	60.9	68.1
35	Tooele County LHD (40)	38,707	23,871	61.7	58.3	65.0
45	TriCounty LHD (53)	36,560	23,972	65.6	62.1	68.9
	Utah County LHD	352,433	218,614	62.0	60.3	63.7
33	American Fork/Alpine (42)	33,188	20,218	60.9	55.2	66.4
60	Lehi/Cedar Valley (41)	52,992	38,276	72.2	67.5	76.6
44	Orem East (46)	15,059	9,856	65.5	57.4	72.7
24	Orem North (44)	25,424	14,937	58.8	52.1	65.1
19	Orem West (45)	23,220	13,444	57.9	50.4	65.1
38	Pleasant Grove/Lindon (43)	33,977	21,609	63.6	57.9	69.0
12	Provo North/BYU (47)	41,689	21,749	52.2	46.4	57.9
9	Provo South (48)	49,593	24,415	49.2	44.0	54.5
54	Springville/Spanish Fork (49)	54,228	37,531	69.2	65.1	73.1
55	Utah Co. South (50)	22,548	15,644	69.4	62.9	75.2
43	Wasatch County LHD (52)	16,912	11,040	65.3	60.3	69.9
	Weber-Morgan LHD	172,761	102,275	59.2	57.1	61.2
17	Ben Lomond (5)	40,310	21,961	54.5	50.0	58.9
52	Morgan Co (All)/Weber Co. (East) (6)	29,995	20,655	68.9	64.1	73.3
13	Ogden (Downtown) (7)	26,184	13,686	52.3	46.8	57.7
22	Riverdale (10)	18,568	10,853	58.5	52.4	64.2
36	Roy/Hooper (9)	30,718	19,057	62.0	57.3	66.6
14	South Ogden (8)	26,920	14,098	52.4	46.9	57.8

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>§</sup>Data are from 2012. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates are provided by the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

Retired Population by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2009-2012 Retired	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>‡</sup>	240,185,952	39,870,868	16.6	16.5	16.7
	State of Utah	1,967,315	225,651	11.5	11.2	11.8
	Bear River LHD	114,924	12,492	10.9	9.9	12.0
37	Brigham City (1)	16,086	1,980	12.3	9.8	15.4
44	Box Elder County (Other) (2)	17,287	2,323	13.4	10.6	16.9
28	Cache Co (Oth)/Rich Co (All) (4)	27,519	3,110	11.3	9.4	13.6
14	Logan (3)	53,455	4,715	8.8	7.5	10.4
	Central Utah LHD	52,303	7,385	14.1	12.7	15.6
39	Juab/Millard/Sanpete Counties (54)	34,778	4,358	12.5	11.0	14.3
56	Sevier/Piute/Wayne Counties (55)	17,651	2,942	16.7	14.1	19.6
	Davis County LHD	209,077	23,939	11.5	10.6	12.4
59	Bountiful (16)	32,734	5,709	17.4	14.7	20.5
16	Clearfield/Hill AFB (11)	44,893	4,013	8.9	7.3	10.9
40	Farmington/Centerville (14)	23,643	2,984	12.6	10.1	15.7
26	Layton (12)	50,686	5,444	10.7	9.0	12.7
17	Syracuse/Kaysville (13)	36,386	3,271	9.0	7.3	11.1
22	Woods Cross/North Salt Lake (15)	20,675	2,107	10.2	7.7	13.4
	Salt Lake County LHD	757,119	82,147	10.9	10.4	11.3
58	Cottonwood (28)	33,211	5,706	17.2	14.9	19.8
57	Holladay (27)	35,928	6,137	17.1	14.8	19.6
7	Kearns (29) (29.1) <sup>§</sup>	25,972	1,893	7.3	5.7	9.3
3	Magna (20)	17,913	905	5.1	3.6	7.0
46	Midvale (32)	22,833	3,187	14.0	10.9	17.7
47	Millcreek (26)	43,883	6,183	14.1	12.2	16.2
45	Murray (31)	25,516	3,437	13.5	10.8	16.7
5	Riverton/Draper (39)	74,334	4,676	6.3	5.3	7.5
52	SLC (Avenues) (18)	18,589	2,764	14.9	11.8	18.6
11	SLC (Downtown) (24)	43,048	3,470	8.1	6.5	9.9
51	SLC (Foothill/U of U) (19)	18,546	2,739	14.8	11.8	18.3
20	SLC (Glendale) (21)	22,235	2,055	9.2	6.8	12.5
10	SLC (Rose Park) (17)	23,310	1,867	8.0	5.8	11.0
33	Sandy Center (36)	38,657	4,581	11.9	10.0	14.1
49	Sandy (NE) (37)	16,992	2,496	14.7	11.8	18.2
38	Sandy (SE) (38)	21,375	2,636	12.3	9.9	15.3
9	South Jordan (35)	36,470	2,768	7.6	6.0	9.5
42	South Salt Lake (25)	20,259	2,585	12.8	9.3	17.3
43	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	27,559	3,627	13.2	10.8	16.0
54	Taylorsville (West) (30.1) <sup>¶</sup>	27,721	4,327	15.6	10.2	23.1
18	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,746	1,966	9.0	7.0	11.7
8	West Jordan (SE) (34.1)	24,374	1,777	7.3	5.4	9.8
4	West Jordan West, Copperton (34.2)	26,643	1,583	5.9	4.0	8.8
30	West Valley East (23) (23.1) <sup>§</sup>	37,199	4,230	11.4	9.2	14.0
19	West Valley West (22)	53,441	4,879	9.1	7.6	10.9
	Southeastern Utah LHD	40,317	6,015	14.9	13.3	16.7
55	Carbon/Emery Counties (56)	23,192	3,790	16.3	14.1	18.9
29	Grand/San Juan Counties (57)	17,103	1,933	11.3	9.4	13.5
	Southwest Utah LHD	148,401	28,612	19.3	17.8	20.9
31	Cedar City (60)	29,168	3,319	11.4	9.1	14.1
63	Southwest LHD (Other) (61)	17,288	4,960	28.7	23.8	34.2
62	St. George (58)	56,177	11,999	21.4	18.8	24.2
61	Washington Co. (Other) (59)	45,712	8,402	18.4	15.9	21.2
25	Summit County LHD (51)	27,801	2,977	10.7	9.4	12.2
23	Tooele County LHD (40)	38,707	4,006	10.4	9.2	11.6
24	TriCounty LHD (53)	36,560	3,912	10.7	9.4	12.2
	Utah County LHD	352,433	28,371	8.1	7.5	8.7
12	American Fork/Alpine (42)	33,188	2,781	8.4	6.8	10.4
1	Lehi/Cedar Valley (41)	52,992	2,114	4.0	3.1	5.2
48	Orem East (46)	15,059	2,126	14.1	10.6	18.6
15	Orem North (44)	25,424	2,260	8.9	6.6	11.9
32	Orem West (45)	23,220	2,656	11.4	8.5	15.2
6	Pleasant Grove/Lindon (43)	33,977	2,440	7.2	5.6	9.1
34	Provo North/BYU (47)	41,689	4,969	11.9	9.5	14.9
2	Provo South (48)	49,593	2,316	4.7	3.5	6.2
13	Springville/Spanish Fork (49)	54,228	4,658	8.6	7.2	10.2
21	Utah Co. South (50)	22,548	2,237	9.9	7.6	12.9
36	Wasatch County LHD (52)	16,912	2,051	12.1	10.6	13.9
	Weber-Morgan LHD	172,761	24,083	13.9	13.0	15.0
35	Ben Lomond (5)	40,310	4,869	12.1	10.2	14.3
53	Morgan Co (All)/Weber Co. (East) (6)	29,995	4,523	15.1	12.9	17.6
41	Ogden (Downtown) (7)	26,184	3,307	12.6	10.2	15.5
60	Riverdale (10)	18,568	3,389	18.3	15.0	22.1
50	Roy/Hooper (9)	30,718	4,531	14.8	12.3	17.6
27	South Ogden (8)	26,920	2,926	10.9	8.9	13.2

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>‡</sup>Data are from 2012. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates from the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBS Version 2012.

No High School Degree by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 25+	2009-2012 No HS Degree 25+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>†</sup>	202,938,707	30,846,683	15.2	15.0	15.4
	State of Utah	1,640,328	146,809	9.0	8.5	9.4
	Bear River LHD	89,241	5,212	5.8	4.5	7.5
41	Brigham City (1)	14,071	1,333	9.5	5.6	15.5
18	Box Elder County (Other) (2)	15,207	867	5.7*	3.1	10.2
25	Cache Co (Oth)/Rich Co (All) (4)	23,844	1,645	6.9	4.3	10.8
19	Logan (3)	37,118	2,168	5.8	4.0	8.4
	Central Utah LHD	44,223	5,006	11.3	9.2	13.9
48	Juab/Millard/Sanpete Counties (54)	28,685	3,804	13.3	10.5	16.6
39	Sevier/Piute/Wayne Counties (55)	15,808	1,423	9.0	5.9	13.5
	Davis County LHD	179,411	6,961	3.9	3.0	5.0
2	Bountiful (16)	28,539	571	2.0*	1.0	4.0
23	Clearfield/Hill AFB (11)	37,210	2,307	6.2	4.1	9.2
**	Farmington/Centerville (14)	20,647	**	**	**	**
6	Layton (12)	43,079	1,783	4.1	2.5	6.7
9	Syracuse/Kaysville (13)	31,882	1,467	4.6*	2.3	9.1
8	Woods Cross/North Salt Lake (15)	17,981	809	4.5*	2.1	9.4
	Salt Lake County LHD	649,154	71,991	11.1	10.3	12.0
4	Cottonwood (28)	29,373	1,093	3.7	2.2	6.4
12	Holladay (27)	31,913	1,561	4.9	2.9	8.1
53	Kearns (29) (29.1) <sup>§</sup>	22,081	3,796	17.2	13.2	22.0
50	Magna (20)	15,286	2,265	14.8	10.0	21.4
33	Midvale (32)	19,406	1,552	8.0	4.8	13.1
20	Millcreek (26)	38,255	2,230	5.8	3.7	9.2
30	Murray (31)	21,522	1,612	7.5	4.8	11.5
3	Riverton/Draper (39)	64,731	2,201	3.4	2.3	5.0
**	SLC (Avenues) (18)	15,498	**	**	**	**
26	SLC (Downtown) (24)	34,450	2,422	7.0	4.4	11.0
11	SLC (Foothill/U of U) (19)	14,625	687	4.7*	1.7	12.3
59	SLC (Glendale) (21)	18,373	6,686	36.4	29.1	44.3
58	SLC (Rose Park) (17)	19,544	6,457	33.0	26.0	40.9
24	Sandy Center (36)	33,380	2,063	6.2	3.8	9.9
**	Sandy (NE) (37)	15,023	**	**	**	**
1	Sandy (SE) (38)	18,628	205	1.1*	0.4	3.1
22	South Jordan (35)	31,535	1,930	6.1	3.7	10.0
56	South Salt Lake (25)	16,911	4,065	24.0	17.6	31.9
44	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	23,010	2,787	12.1	8.5	17.0
40	Taylorsville (West) (30.1) <sup>§</sup>	23,708	2,205	9.3*	3.4	23.4
47	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	18,428	2,401	13.0	9.0	18.5
38	West Jordan (SE) (34.1)	20,577	1,833	8.9	5.5	14.1
13	West Jordan West, Copperton (34.2)	22,957	1,136	5.0	2.7	8.9
57	West Valley East (23) (23.1) <sup>§</sup>	30,824	8,914	28.9	23.7	34.8
55	West Valley West (22)	45,020	9,625	21.4	17.5	25.8
	Southeastern Utah LHD	35,112	4,677	13.3	11.0	16.0
46	Carbon/Emery Counties (56)	20,136	2,577	12.8	10.4	15.7
51	Grand/San Juan Counties (57)	14,912	2,246	15.1	10.7	20.8
	Southwest Utah LHD	126,197	8,392	6.7	5.3	8.4
35	Cedar City (60)	21,729	1,897	8.7	5.3	14.1
29	Southwest LHD (Other) (61)	15,627	1,156	7.4	4.5	11.9
31	St. George (58)	47,468	3,603	7.6	5.2	11.1
28	Washington Co. (Other) (59)	40,499	2,904	7.2	4.9	10.3
34	Summit County LHD (51)	24,958	2,009	8.1	5.5	11.7
32	Tooele County LHD (40)	33,921	2,602	7.7	5.6	10.5
49	TriCounty LHD (53)	31,474	4,501	14.3	11.8	17.2
	Utah County LHD	263,624	20,853	7.9	6.9	9.1
27	American Fork/Alpine (42)	28,375	1,995	7.0	4.0	12.1
16	Lehi/Cedar Valley (41)	46,877	2,508	5.4	3.3	8.5
15	Orem East (46)	12,336	654	5.3*	2.4	11.7
43	Orem North (44)	20,390	2,304	11.3	7.2	17.3
14	Orem West (45)	16,098	805	5.0*	2.4	10.3
10	Pleasant Grove/Lindon (43)	28,576	1,300	4.6	2.8	7.4
**	Provo North/BYU (47)	20,204	**	**	**	**
45	Provo South (48)	28,479	3,432	12.1	8.1	17.5
17	Springville/Spanish Fork (49)	46,153	2,566	5.6	3.8	8.1
42	Utah Co. South (50)	19,211	1,917	10.0	6.3	15.5
37	Wasatch County LHD (52)	14,941	1,316	8.8	5.6	13.5
	Weber-Morgan LHD	148,072	13,874	9.4	8.0	11.0
52	Ben Lomond (5)	34,398	5,720	16.6	13.1	20.8
7	Morgan Co (All)/Weber Co. (East) (6)	26,423	1,083	4.1*	2.1	7.7
54	Ogden (Downtown) (7)	21,909	4,233	19.3	14.4	25.4
5	Riverdale (10)	15,808	585	3.7*	1.9	7.1
21	Roy/Hooper (9)	26,431	1,541	5.8	3.7	9.2
36	South Ogden (8)	21,970	1,920	8.7	5.6	13.3

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>§</sup>Data are from 2012. <sup>\*\*</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. <sup>\*\*</sup>The count, rank, or rate has been suppressed because the observed number of events is <5 or the estimate is unreliable. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates from the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

High School Graduates by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 25+	2009-2012 HS Degree	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>‡</sup>	202,938,707	58,852,225	29.0	28.8	29.2
	State of Utah	1,640,328	387,117	23.6	23.1	24.1
	Bear River LHD	89,241	21,935	24.6	22.5	26.8
33	Brigham City (1)	14,071	3,561	25.3	20.3	31.1
52	Box Elder County (Other) (2)	15,207	4,717	31.0	25.8	36.8
38	Cache Co (Oth)/Rich Co (All) (4)	23,844	6,197	26.0	22.2	30.2
22	Logan (3)	37,118	7,505	20.2	17.2	23.6
	Central Utah LHD	44,223	12,405	28.1	25.8	30.5
44	Juab/Millard/Sanpete Counties (54)	28,685	7,848	27.4	24.5	30.4
51	Sevier/Piute/Wayne Counties (55)	15,808	4,848	30.7	26.6	35.1
	Davis County LHD	179,411	40,906	22.8	21.3	24.4
24	Bountiful (16)	28,539	6,239	21.9	18.2	26.0
50	Clearfield/Hill AFB (11)	37,210	11,297	30.4	26.6	34.5
11	Farmington/Centerville (14)	20,647	3,072	14.9	11.7	18.7
26	Layton (12)	43,079	9,766	22.7	19.7	26.0
20	Syracuse/Kaysville (13)	31,882	6,300	19.8	16.3	23.7
25	Woods Cross/North Salt Lake (15)	17,981	3,976	22.1	17.8	27.2
	Salt Lake County LHD	649,154	146,384	22.6	21.7	23.4
14	Cottonwood (28)	29,373	5,093	17.3	14.5	20.6
10	Holladay (27)	31,913	4,436	13.9	11.4	16.9
62	Kearns (29) (29.1) <sup>§</sup>	22,081	7,916	35.9	31.7	40.2
61	Magna (20)	15,286	5,449	35.7	29.8	41.9
48	Midvale (32)	19,406	5,595	28.8	23.7	34.6
6	Millcreek (26)	38,255	4,686	12.3	10.0	14.9
32	Murray (31)	21,522	5,275	24.5	20.3	29.3
19	Riverton/Draper (39)	64,731	11,975	18.5	16.3	20.9
3	SLC (Avenues) (18)	15,498	1,637	10.6	7.1	15.4
9	SLC (Downtown) (24)	34,450	4,740	13.8	10.9	17.3
1	SLC (Foothill/U of U) (19)	14,625	1,132	7.7	5.1	11.7
41	SLC (Glendale) (21)	18,373	4,801	26.1	20.6	32.5
36	SLC (Rose Park) (17)	19,544	5,042	25.8	20.5	31.9
37	Sandy Center (36)	33,380	8,652	25.9	22.3	29.9
5	Sandy (NE) (37)	15,023	1,836	12.2	9.3	16.0
7	Sandy (SE) (38)	18,628	2,356	12.7	9.8	16.2
16	South Jordan (35)	31,535	5,506	17.5	14.6	20.7
35	South Salt Lake (25)	16,911	4,346	25.7	20.0	32.3
46	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	23,010	6,348	27.6	23.3	32.3
43	Taylorsville (West) (30.1) <sup>¶</sup>	23,708	6,389	27.0	18.7	37.2
30	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	18,428	4,454	24.2	20.2	28.7
56	West Jordan (SE) (34.1)	20,577	6,426	31.2	26.3	36.6
47	West Jordan West, Copperton (34.2)	22,957	6,396	27.9	22.8	33.5
40	West Valley East (23) (23.1) <sup>§</sup>	30,824	8,042	26.1	22.0	30.7
58	West Valley West (22)	45,020	14,915	33.1	29.6	36.9
	Southeastern Utah LHD	35,112	10,323	29.4	26.8	32.1
55	Carbon/Emery Counties (56)	20,136	6,288	31.2	28.1	34.6
42	Grand/San Juan Counties (57)	14,912	3,961	26.6	22.5	31.0
	Southwest Utah LHD	126,197	34,578	27.4	25.3	29.6
31	Cedar City (60)	21,729	5,267	24.2	19.8	29.4
63	Southwest LHD (Other) (61)	15,627	5,663	36.2	30.7	42.2
29	St. George (58)	47,468	11,468	24.2	20.9	27.7
49	Washington Co. (Other) (59)	40,499	11,785	29.1	25.4	33.1
17	Summit County LHD (51)	24,958	4,450	17.8	15.4	20.5
53	Tooele County LHD (40)	33,921	10,536	31.1	28.4	33.9
60	TriCounty LHD (53)	31,474	11,145	35.4	32.7	38.2
	Utah County LHD	263,624	48,349	18.3	17.2	19.6
12	American Fork/Alpine (42)	28,375	4,319	15.2	12.2	18.9
18	Lehi/Cedar Valley (41)	46,877	8,663	18.5	15.7	21.7
8	Orem East (46)	12,336	1,630	13.2	9.5	18.2
15	Orem North (44)	20,390	3,540	17.4	13.1	22.6
2	Orem West (45)	16,098	1,489	9.3	6.4	13.1
13	Pleasant Grove/Lindon (43)	28,576	4,504	15.8	12.7	19.4
4	Provo North/BYU (47)	20,204	2,289	11.3	8.1	15.6
21	Provo South (48)	28,479	5,744	20.2	16.0	25.1
23	Springville/Spanish Fork (49)	46,153	9,909	21.5	18.7	24.5
45	Utah Co. South (50)	19,211	5,275	27.5	22.8	32.7
28	Wasatch County LHD (52)	14,941	3,592	24.0	20.4	28.1
	Weber-Morgan LHD	148,072	43,740	29.5	27.8	31.3
59	Ben Lomond (5)	34,398	11,854	34.5	30.6	38.5
34	Morgan Co (All)/Weber Co. (East) (6)	26,423	6,791	25.7	22.1	29.6
57	Ogden (Downtown) (7)	21,909	7,164	32.7	27.9	37.9
39	Riverdale (10)	15,808	4,116	26.0	21.5	31.2
54	Roy/Hooper (9)	26,431	8,228	31.1	27.2	35.4
27	South Ogden (8)	21,970	5,174	23.6	19.1	28.7

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>||</sup>Data are from 2012. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates from the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBS Version 2012.

Some College Education by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 25+	2009-2012 Some College	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>†</sup>	202,938,707	61,490,428	30.3	30.1	30.5
	State of Utah	1,640,328	624,637	38.1	37.5	38.7
	Bear River LHD	89,241	33,653	37.7	35.3	40.1
27	Brigham City (1)	14,071	5,355	38.1	32.3	44.2
59	Box Elder County (Other) (2)	15,207	6,644	43.7	37.7	49.8
28	Cache Co (Oth)/Rich Co (All) (4)	23,844	9,082	38.1	33.7	42.6
13	Logan (3)	37,118	12,731	34.3	30.6	38.2
	Central Utah LHD	44,223	18,339	41.5	38.8	44.2
41	Juab/Millard/Sanpete Counties (54)	28,685	11,508	40.1	36.8	43.6
55	Sevier/Piute/Wayne Counties (55)	15,808	6,669	42.2	37.7	46.8
	Davis County LHD	179,411	69,899	39.0	37.1	40.8
29	Bountiful (16)	28,539	10,879	38.1	33.7	42.7
56	Clearfield/Hill AFB (11)	37,210	15,837	42.6	38.3	47.0
45	Farmington/Centerville (14)	20,647	8,362	40.5	35.3	45.9
37	Layton (12)	43,079	16,887	39.2	35.5	43.0
18	Syracuse/Kaysville (13)	31,882	11,254	35.3	31.3	39.6
35	Woods Cross/North Salt Lake (15)	17,981	7,031	39.1	33.6	44.9
	Salt Lake County LHD	649,154	238,629	36.8	35.8	37.8
23	Cottonwood (28)	29,373	10,812	36.8	32.8	41.0
11	Holladay (27)	31,913	10,876	34.1	30.2	38.2
16	Kearns (29) (29.1) <sup>§</sup>	22,081	7,673	34.8	30.7	39.1
46	Magna (20)	15,286	6,261	41.0	34.7	47.5
19	Midvale (32)	19,406	6,866	35.4	29.7	41.5
12	Millcreek (26)	38,255	13,102	34.3	30.7	38.0
53	Murray (31)	21,522	9,059	42.1	36.9	47.5
50	Riverton/Draper (39)	64,731	26,818	41.4	38.4	44.6
3	SLC (Avenues) (18)	15,498	4,084	26.4	20.4	33.4
15	SLC (Downtown) (24)	34,450	11,940	34.7	29.9	39.7
1	SLC (Foothill/U of U) (19)	14,625	3,631	24.8	19.5	31.0
2	SLC (Glendale) (21)	18,373	4,597	25.0	18.8	32.5
4	SLC (Rose Park) (17)	19,544	5,386	27.6	21.9	34.1
40	Sandy Center (36)	33,380	13,355	40.0	35.9	44.2
14	Sandy (NE) (37)	15,023	5,187	34.5	29.3	40.2
42	Sandy (SE) (38)	18,628	7,485	40.2	34.9	45.8
47	South Jordan (35)	31,535	12,951	41.1	36.9	45.4
10	South Salt Lake (25)	16,911	5,740	33.9	27.2	41.4
21	Taylorsville (East)/Murray (West) (30) <sup>†</sup>	23,010	8,263	35.9	31.2	40.9
63	Taylorsville (West) (30.1) <sup>†</sup>	23,708	10,894	46.0	35.6	56.7
34	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	18,428	7,145	38.8	33.8	44.0
38	West Jordan (SE) (34.1)	20,577	8,194	39.8	34.6	45.3
58	West Jordan West, Copperton (34.2)	22,957	9,881	43.0	37.4	48.9
17	West Valley East (23) (23.1) <sup>§</sup>	30,824	10,764	34.9	30.1	40.0
9	West Valley West (22)	45,020	15,190	33.7	30.1	37.6
	Southeastern Utah LHD	35,112	13,581	38.7	35.9	41.6
44	Carbon/Emery Counties (56)	20,136	8,137	40.4	37.1	43.8
20	Grand/San Juan Counties (57)	14,912	5,319	35.7	30.7	40.9
	Southwest Utah LHD	126,197	51,463	40.8	38.4	43.3
33	Cedar City (60)	21,729	8,381	38.6	33.1	44.4
36	Southwest LHD (Other) (61)	15,627	6,121	39.2	33.3	45.4
43	St. George (58)	47,468	19,130	40.3	36.3	44.5
48	Washington Co. (Other) (59)	40,499	16,669	41.2	36.9	45.6
6	Summit County LHD (51)	24,958	7,258	29.1	26.0	32.3
49	Tooele County LHD (40)	33,921	14,043	41.4	38.3	44.5
22	TriCounty LHD (53)	31,474	11,576	36.8	33.9	39.7
	Utah County LHD	263,624	105,581	40.1	38.5	41.7
32	American Fork/Alpine (42)	28,375	10,913	38.5	33.7	43.5
51	Lehi/Cedar Valley (41)	46,877	19,566	41.7	37.7	45.9
26	Orem East (46)	12,336	4,690	38.0	31.0	45.5
39	Orem North (44)	20,390	8,129	39.9	33.9	46.1
62	Orem West (45)	16,098	7,271	45.2	38.5	52.1
57	Pleasant Grove/Lindon (43)	28,576	12,299	43.0	38.1	48.2
25	Provo North/BYU (47)	20,204	7,667	38.0	32.3	44.0
31	Provo South (48)	28,479	10,933	38.4	32.8	44.3
54	Springville/Spanish Fork (49)	46,153	19,453	42.2	38.6	45.8
52	Utah Co. South (50)	19,211	8,059	42.0	36.5	47.6
24	Wasatch County LHD (52)	14,941	5,531	37.0	32.7	41.5
	Weber-Morgan LHD	148,072	54,520	36.8	34.9	38.8
7	Ben Lomond (5)	34,398	10,904	31.7	27.9	35.8
30	Morgan Co (All)/Weber Co. (East) (6)	26,423	10,125	38.3	34.3	42.6
5	Ogden (Downtown) (7)	21,909	6,062	27.7	23.2	32.6
61	Riverdale (10)	15,808	7,060	44.7	39.0	50.5
60	Roy/Hooper (9)	26,431	11,577	43.8	39.3	48.5
8	South Ogden (8)	21,970	7,298	33.2	28.3	38.6

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>||</sup>Data are from 2012. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates from the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

College Graduates by Small Area, Health District, Utah, or U.S, 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 25+	2009-2012 College Graduates	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>‡</sup>	202,938,707	51,749,370	25.5	25.4	25.7
	State of Utah	1,640,328	481,764	29.4	28.9	29.9
	Bear River LHD	89,241	28,450	31.9	29.8	34.0
29	Brigham City (1)	14,071	3,822	27.2	22.6	32.3
16	Box Elder County (Other) (2)	15,207	2,985	19.6	15.5	24.6
34	Cache Co (Oth)/Rich Co (All) (4)	23,844	6,917	29.0	25.4	32.9
49	Logan (3)	37,118	14,714	39.6	36.0	43.4
	Central Utah LHD	44,223	8,469	19.2	17.3	21.1
15	Juab/Millard/Sanpete Counties (54)	28,685	5,522	19.3	17.0	21.8
13	Sevier/Piute/Wayne Counties (55)	15,808	2,866	18.1	15.3	21.3
	Davis County LHD	179,411	61,664	34.4	32.7	36.1
47	Bountiful (16)	28,539	10,845	38.0	33.9	42.3
21	Clearfield/Hill AFB (11)	37,210	7,769	20.9	17.9	24.2
54	Farmington/Centerville (14)	20,647	9,101	44.1	39.0	49.2
40	Layton (12)	43,079	14,643	34.0	30.7	37.5
50	Syracuse/Kaysville (13)	31,882	12,852	40.3	36.3	44.5
41	Woods Cross/North Salt Lake (15)	17,981	6,162	34.3	29.2	39.7
	Salt Lake County LHD	649,154	192,085	29.6	28.8	30.4
52	Cottonwood (28)	29,373	12,375	42.1	38.2	46.2
58	Holladay (27)	31,913	15,037	47.1	43.1	51.2
4	Kearns (29) (29.1) <sup>§</sup>	22,081	2,696	12.2	9.9	14.9
1	Magna (20)	15,286	1,310	8.6	6.2	11.8
30	Midvale (32)	19,406	5,391	27.8	22.9	33.3
60	Millcreek (26)	38,255	18,236	47.7	43.9	51.5
28	Murray (31)	21,522	5,576	25.9	21.9	30.4
46	Riverton/Draper (39)	64,731	23,737	36.7	33.9	39.5
62	SLC (Avenues) (18)	15,498	9,302	60.0	53.0	66.7
55	SLC (Downtown) (24)	34,450	15,347	44.6	39.9	49.3
63	SLC (Foothill/U of U) (19)	14,625	9,180	62.8	56.1	69.0
5	SLC (Glendale) (21)	18,373	2,287	12.5	9.2	16.7
7	SLC (Rose Park) (17)	19,544	2,656	13.6	10.2	17.9
31	Sandy Center (36)	33,380	9,313	27.9	24.5	31.5
61	Sandy (NE) (37)	15,023	7,496	49.9	44.4	55.4
57	Sandy (SE) (38)	18,628	8,578	46.1	41.0	51.2
44	South Jordan (35)	31,535	11,148	35.4	31.6	39.3
9	South Salt Lake (25)	16,911	2,758	16.3	12.1	21.7
26	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	23,010	5,610	24.4	20.5	28.8
12	Taylorsville (West) (30.1) <sup>¶</sup>	23,708	4,211	17.8	11.6	26.2
24	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	18,428	4,428	24.0	20.2	28.4
18	West Jordan (SE) (34.1)	20,577	4,122	20.0	16.6	24.0
25	West Jordan West, Copperton (34.2)	22,957	5,546	24.2	20.1	28.7
2	West Valley East (23) (23.1) <sup>§</sup>	30,824	3,107	10.1	7.9	12.8
3	West Valley West (22)	45,020	5,290	11.8	9.9	14.0
	Southeastern Utah LHD	35,112	6,531	18.6	16.7	20.7
8	Carbon/Emery Counties (56)	20,136	3,135	15.6	13.6	17.8
23	Grand/San Juan Counties (57)	14,912	3,388	22.7	19.1	26.8
	Southwest Utah LHD	126,197	31,751	25.2	23.3	27.2
33	Cedar City (60)	21,729	6,184	28.5	23.9	33.5
10	Southwest LHD (Other) (61)	15,627	2,686	17.2	13.4	21.8
32	St. George (58)	47,468	13,267	28.0	24.7	31.4
22	Washington Co. (Other) (59)	40,499	9,145	22.6	19.4	26.1
56	Summit County LHD (51)	24,958	11,241	45.0	41.7	48.4
17	Tooele County LHD (40)	33,921	6,740	19.9	17.8	22.1
6	TriCounty LHD (53)	31,474	4,252	13.5	12.0	15.2
	Utah County LHD	263,624	88,841	33.7	32.3	35.1
48	American Fork/Alpine (42)	28,375	11,149	39.3	34.8	43.9
42	Lehi/Cedar Valley (41)	46,877	16,140	34.4	31.0	38.1
53	Orem East (46)	12,336	5,359	43.4	36.6	50.5
38	Orem North (44)	20,390	6,417	31.5	26.4	37.0
51	Orem West (45)	16,098	6,533	40.6	34.3	47.2
45	Pleasant Grove/Lindon (43)	28,576	10,476	36.7	32.3	41.2
59	Provo North/BYU (47)	20,204	9,609	47.6	41.8	53.4
35	Provo South (48)	28,479	8,370	29.4	24.8	34.4
37	Springville/Spanish Fork (49)	46,153	14,229	30.8	27.8	34.0
20	Utah Co. South (50)	19,211	3,961	20.6	16.9	24.9
36	Wasatch County LHD (52)	14,941	4,502	30.1	26.6	33.9
	Weber-Morgan LHD	148,072	35,952	24.3	22.8	25.8
11	Ben Lomond (5)	34,398	5,920	17.2	14.5	20.3
39	Morgan Co (All)/Weber Co. (East) (6)	26,423	8,429	31.9	28.3	35.7
19	Ogden (Downtown) (7)	21,909	4,448	20.3	16.7	24.5
27	Riverdale (10)	15,808	4,041	25.6	21.3	30.4
14	Roy/Hooper (9)	26,431	5,085	19.2	16.2	22.7
43	South Ogden (8)	21,970	7,580	34.5	30.0	39.3

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>||</sup>Data are from 2012. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates from the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

Female College Graduates Ages 25+ by Small Area, Health District, Utah, or U.S, 2008-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2008-2012 Female Population 25+	2008-2012 Female College Graduates 25+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	105,941,114	29,830,232	28.2	27.3	29.0
	State of Utah	794,400	214,095	27.0	26.1	27.8
	Bear River LHD	43,565	12,130	27.8	27.0	28.7
21	Brigham City (1)	7,366	1,420	19.3	18.5	20.1
12	Box Elder County (Other) (2)	7,180	1,175	16.4	15.6	17.1
30	Cache Co (Oth)/Rich Co (All) (4)	11,955	3,084	25.8	24.9	26.7
53	Logan (3)	17,049	6,436	37.8	36.8	38.7
	Central Utah LHD	21,393	3,415	16.0	15.2	16.7
11	Juab/Millard/Sanpete Counties (54)	13,615	2,200	16.2	15.4	16.9
10	Sevier/Piute/Wayne Counties (55)	7,770	1,221	15.7	15.0	16.4
	Davis County LHD	88,079	25,051	28.4	27.6	29.3
48	Bountiful (16)	14,760	4,976	33.7	32.8	34.6
20	Clearfield/Hill AFB (11)	17,869	3,294	18.4	17.7	19.2
49	Farmington/Centerville (14)	10,255	3,584	34.9	34.0	35.9
32	Layton (12)	21,524	5,623	26.1	25.3	27.0
45	Syracuse/Kaysville (13)	15,459	4,899	31.7	30.8	32.6
43	Woods Cross/North Salt Lake (15)	8,296	2,525	30.4	29.5	31.3
	Salt Lake County LHD	313,730	91,901	29.3	28.4	30.2
55	Cottonwood (28)	14,571	5,678	39.0	38.0	39.9
58	Holladay (27)	16,468	7,620	46.3	45.3	47.2
7	Kearns (29) (29.1) <sup>§</sup>	19,355	2,745	14.2	13.5	14.9
1	Magna (20)	7,705	914	11.9	11.2	12.5
25	Midvale (32)	9,509	2,055	21.6	20.8	22.4
57	Millcreek (26)	19,998	8,904	44.5	43.6	45.5
36	Murray (31)	11,007	3,013	27.4	26.5	28.2
41	Riverton/Draper (39)	29,322	8,664	29.5	28.7	30.4
61	SLC (Avenues) (18)	7,553	4,426	58.6	57.6	59.6
60	SLC (Downtown) (24)	16,285	8,038	49.4	48.4	50.3
62	SLC (Foothill/U of U) (19)	7,618	4,977	65.3	64.4	66.3
8	SLC (Glendale) (21)	7,801	1,160	14.9	14.2	15.6
6	SLC (Rose Park) (17)	8,684	1,190	13.7	13.0	14.4
37	Sandy Center (36)	16,770	4,602	27.4	26.6	28.3
52	Sandy (NE) (37)	7,912	2,929	37.0	36.1	38.0
54	Sandy (SE) (38)	9,303	3,552	38.2	37.2	39.1
47	South Jordan (35)	14,417	4,791	33.2	32.3	34.2
34	South Salt Lake (25)	7,512	1,986	26.4	25.6	27.3
24	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	12,486	2,687	21.5	20.7	22.3
--	Taylorsville (West) (30.1) <sup>¶</sup>	--	--	--	--	--
28	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	11,408	2,653	23.3	22.4	24.1
26	West Jordan (SE) (34.1)	9,904	2,194	22.2	21.3	23.0
27	West Jordan West, Copperton (34.2)	10,987	2,506	22.8	22.0	23.6
5	West Valley East (23) (23.1) <sup>§</sup>	15,426	2,080	13.5	12.8	14.2
3	West Valley West (22)	22,289	2,828	12.7	12.0	13.3
	Southeastern Utah LHD	17,368	2,805	16.2	15.4	16.9
2	Carbon/Emery Counties (56)	10,146	1,248	12.3	11.7	12.9
18	Grand/San Juan Counties (57)	9,165	1,683	18.4	17.6	19.1
	Southwest Utah LHD	61,447	13,193	21.5	20.7	22.3
29	Cedar City (60)	10,212	2,592	25.4	24.5	26.2
19	Southwest LHD (Other) (61)	7,985	1,471	18.4	17.7	19.2
23	St. George (58)	23,745	5,057	21.3	20.5	22.1
22	Washington Co. (Other) (59)	19,533	4,077	20.9	20.1	21.7
59	Summit County LHD (51)	11,781	5,498	46.7	45.7	47.6
17	Tooele County LHD (40)	16,365	2,998	18.3	17.6	19.1
9	TriCounty LHD (53)	14,882	2,248	15.1	14.4	15.8
	Utah County LHD	126,559	38,480	30.4	29.5	31.3
51	American Fork/Alpine (42)	13,400	4,805	35.9	34.9	36.8
39	Lehi/Cedar Valley (41)	20,376	5,937	29.1	28.2	30.0
50	Orem East (46)	6,225	2,184	35.1	34.1	36.0
33	Orem North (44)	10,022	2,624	26.2	25.3	27.0
42	Orem West (45)	7,656	2,329	30.4	29.5	31.3
44	Pleasant Grove/Lindon (43)	13,604	4,208	30.9	30.0	31.8
56	Provo North/BYU (47)	9,950	4,389	44.1	43.1	45.1
46	Provo South (48)	13,522	4,311	31.9	31.0	32.8
31	Springville/Spanish Fork (49)	22,007	5,717	26.0	25.1	26.8
15	Utah Co. South (50)	9,110	1,652	18.1	17.4	18.9
38	Wasatch County LHD (52)	6,919	1,992	28.8	27.9	29.7
	Weber-Morgan LHD	72,312	14,384	19.9	19.1	20.7
4	Ben Lomond (5)	16,339	2,112	12.9	12.3	13.6
40	Morgan Co (All)/Weber Co. (East) (6)	13,273	3,878	29.2	28.3	30.1
14	Ogden (Downtown) (7)	10,015	1,770	17.7	16.9	18.4
16	Riverdale (10)	7,902	1,434	18.2	17.4	18.9
13	Roy/Hooper (9)	13,462	2,349	17.4	16.7	18.2
35	South Ogden (8)	11,237	2,991	26.6	25.8	27.5

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>‡</sup>Data is not yet available for ACS 2008-2012. Source: U.S. Census Bureau, 2008-2012 American Community Survey B15002

Single Mother Population by Small Area, Health District, Utah, or U.S., 2008-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2008-2012 Households with Children	2008-2012 Single Mothers with Children	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	34,484,648	8,462,168	24.5	23.7	25.4
	State of Utah	346,817	50,181	14.5	13.8	15.2
	Bear River LHD	21,392	2,747	12.8	12.2	13.5
36	Brigham City (1)	3,204	501	15.6	14.9	16.3
21	Box Elder County (Other) (2)	3,632	431	11.9	11.2	12.5
11	Cache Co (Oth)/Rich Co (All) (4)	5,862	524	8.9	8.4	9.5
31	Logan (3)	8,679	1,291	14.9	14.2	15.6
	Central Utah LHD	8,788	1,269	14.4	13.8	15.1
30	Juab/Millard/Sanpete Counties (54)	5,779	848	14.7	14.0	15.4
25	Sevier/Piute/Wayne Counties (55)	3,033	413	13.6	12.9	14.3
	Davis County LHD	42,632	5,443	12.8	12.1	13.4
29	Bountiful (16)	5,552	808	14.6	13.9	15.2
39	Clearfield/Hill AFB (11)	9,565	1,582	16.5	15.8	17.3
4	Farmington/Centerville (14)	4,365	313	7.2	6.7	7.7
46	Layton (12)	10,222	1,800	17.6	16.9	18.4
6	Syracuse/Kaysville (13)	8,482	629	7.4	6.9	7.9
10	Woods Cross/North Salt Lake (15)	4,263	374	8.8	8.2	9.3
	Salt Lake County LHD	122,934	20,873	17.0	16.2	17.7
22	Cottonwood (28)	4,041	506	12.5	11.9	13.2
42	Holladay (27)	4,667	800	17.1	16.4	17.9
40	Kearns (29) (29.1) <sup>§</sup>	8,225	1,377	16.7	16.0	17.5
52	Magna (20)	3,716	796	21.4	20.6	22.2
58	Midvale (32)	3,299	890	27.0	26.1	27.8
32	Millcreek (26)	6,156	925	15.0	14.3	15.7
57	Murray (31)	3,262	836	25.6	24.8	26.5
15	Riverton/Draper (39)	15,949	1,547	9.7	9.1	10.3
47	SLC (Avenues) (18)	1,699	306	18.0	17.3	18.8
55	SLC (Downtown) (24)	4,234	975	23.0	22.2	23.9
23	SLC (Foothill/U of U) (19)	2,566	325	12.7	12.0	13.3
61	SLC (Glendale) (21)	3,356	1,014	30.2	29.3	31.1
45	SLC (Rose Park) (17)	3,928	685	17.4	16.7	18.2
50	Sandy Center (36)	6,589	1,214	18.4	17.7	19.2
8	Sandy (NE) (37)	2,404	200	8.3	7.8	8.9
2	Sandy (SE) (38)	3,521	203	5.8	5.3	6.2
1	South Jordan (35)	6,531	368	5.6	5.2	6.1
62	South Salt Lake (25)	2,828	946	33.5	32.5	34.4
60	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	4,443	1,244	28.0	27.1	28.9
--	Taylorsville (West) (30.1) <sup>¶</sup>	--	--	--	--	--
51	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	4,560	923	20.2	19.5	21.0
26	West Jordan (SE) (34.1)	4,788	665	13.9	13.2	14.6
19	West Jordan West, Copperton (34.2)	6,589	746	11.3	10.7	11.9
59	West Valley East (23) (23.1) <sup>§</sup>	5,974	1,667	27.9	27.0	28.8
44	West Valley West (22)	9,885	1,723	17.4	16.7	18.2
	Southeastern Utah LHD	6,028	1,068	17.7	17.0	18.5
37	Carbon/Emery Counties (56)	3,574	572	16.0	15.3	16.7
54	Grand/San Juan Counties (57)	2,887	663	23.0	22.1	23.8
	Southwest Utah LHD	22,990	3,446	15.0	14.3	15.7
20	Cedar City (60)	5,164	589	11.4	10.8	12.0
28	Southwest LHD (Other) (61)	2,561	369	14.4	13.7	15.1
34	St. George (58)	8,123	1,269	15.6	14.9	16.3
43	Washington Co. (Other) (59)	7,118	1,223	17.2	16.4	17.9
18	Summit County LHD (51)	5,102	555	10.9	10.3	11.5
41	Tooele County LHD (40)	8,130	1,383	17.0	16.3	17.7
35	TriCounty LHD (53)	7,565	1,182	15.6	14.9	16.3
	Utah County LHD	67,777	6,362	9.4	8.8	10.0
5	American Fork/Alpine (42)	7,139	513	7.2	6.7	7.7
3	Lehi/Cedar Valley (41)	14,366	957	6.7	6.2	7.2
13	Orem East (46)	2,232	205	9.2	8.6	9.8
33	Orem North (44)	5,197	811	15.6	14.9	16.3
27	Orem West (45)	3,416	482	14.1	13.4	14.8
7	Pleasant Grove/Lindon (43)	7,528	597	7.9	7.4	8.5
17	Provo North/BYU (47)	3,249	341	10.5	9.9	11.1
24	Provo South (48)	7,048	930	13.2	12.5	13.9
9	Springville/Spanish Fork (49)	12,195	1,023	8.4	7.8	8.9
16	Utah Co. South (50)	5,090	495	9.7	9.1	10.3
14	Wasatch County LHD (52)	3,310	320	9.7	9.1	10.2
	Weber-Morgan LHD	30,169	5,533	18.3	17.6	19.1
53	Ben Lomond (5)	7,055	1,512	21.4	20.6	22.2
12	Morgan Co (All)/Weber Co. (East) (6)	5,408	487	9.0	8.4	9.6
56	Ogden (Downtown) (7)	4,494	1,137	25.3	24.4	26.2
49	Riverdale (10)	3,006	551	18.3	17.6	19.1
38	Roy/Hooper (9)	6,113	1,003	16.4	15.7	17.1
48	South Ogden (8)	4,276	780	18.2	17.5	19.0

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>‡</sup>Data is not yet available for ACS 2008-2012. Source: U.S. Census Bureau, 2008-2012 American Community Survey R11003.

Population Living Below 200% of Poverty by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2009-2012 200% Below Poverty	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>†</sup>	240,185,952	--	--	--	--
	State of Utah	1,967,315	690,134	35.1	34.4	35.8
	Bear River LHD	114,924	42,246	36.8	34.0	39.6
24	Brigham City (1)	16,086	5,107	31.8	25.7	38.5
47	Box Elder County (Other) (2)	17,287	7,084	41.0	34.0	48.3
40	Cache Co (Oth)/Rich Co (All) (4)	27,519	10,501	38.2	32.9	43.7
39	Logan (3)	53,455	20,179	37.8	33.4	42.3
	Central Utah LHD	52,303	23,453	44.8	41.7	48.0
50	Juab/Millard/Sanpete Counties (54)	34,778	15,195	43.7	39.7	47.8
56	Sevier/Piute/Wayne Counties (55)	17,651	8,718	49.4	44.1	54.8
	Davis County LHD	209,077	54,820	26.2	24.1	28.4
16	Bountiful (16)	32,734	8,426	25.7	20.1	32.3
33	Clearfield/Hill AFB (11)	44,893	16,108	35.9	31.0	41.1
4	Farmington/Centerville (14)	23,643	4,632	19.6	14.6	25.9
22	Layton (12)	50,686	14,866	29.3	25.0	34.0
5	Syracuse/Kaysville (13)	36,386	7,263	20.0	16.1	24.4
3	Woods Cross/North Salt Lake (15)	20,675	4,015	19.4	14.4	25.7
	Salt Lake County LHD	757,119	258,935	34.2	33.0	35.4
13	Cottonwood (28)	33,211	7,934	23.9	19.7	28.7
15	Holladay (27)	35,928	8,759	24.4	20.4	28.9
54	Kearns (29) (29.1) <sup>§</sup>	25,972	12,550	48.3	43.2	53.5
52	Magna (20)	17,913	8,455	47.2	40.0	54.6
28	Midvale (32)	22,833	7,980	35.0	28.3	42.2
11	Millcreek (26)	43,883	10,405	23.7	19.8	28.1
42	Murray (31)	25,516	9,768	38.3	32.5	44.4
8	Riverton/Draper (39)	74,334	15,781	21.2	18.2	24.6
9	SLC (Avenues) (18)	18,589	4,082	22.0	16.2	29.0
34	SLC (Downtown) (24)	43,048	15,588	36.2	31.1	41.7
2	SLC (Foothill/U of U) (19)	18,546	3,370	18.2	12.7	25.3
63	SLC (Glendale) (21)	22,235	13,463	60.6	51.9	68.6
61	SLC (Rose Park) (17)	23,310	12,963	55.6	47.7	63.3
35	Sandy Center (36)	38,657	14,249	36.9	32.1	41.8
10	Sandy (NE) (37)	16,992	3,845	22.6	17.1	29.4
1	Sandy (SE) (38)	21,375	3,155	14.8	10.3	20.6
6	South Jordan (35)	36,470	7,418	20.3	16.0	25.5
62	South Salt Lake (25)	20,259	11,600	57.3	49.1	65.1
38	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	27,559	10,368	37.6	31.8	43.8
14	Taylorsville (West) (30.1) <sup>§</sup>	27,721	6,742	24.3	13.8	39.2
23	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,746	6,846	31.5	25.8	37.8
31	West Jordan (SE) (34.1)	24,374	8,667	35.6	29.3	42.4
17	West Jordan West, Copperton (34.2)	26,643	7,087	26.6	21.0	33.1
59	West Valley East (23) (23.1) <sup>§</sup>	37,199	20,292	54.6	48.6	60.4
57	West Valley West (22)	53,441	26,950	50.4	45.8	55.0
	Southeastern Utah LHD	40,317	16,877	41.9	38.6	45.3
36	Carbon/Emery Counties (56)	23,192	8,560	36.9	33.2	40.8
58	Grand/San Juan Counties (57)	17,103	8,784	51.4	45.4	57.3
	Southwest Utah LHD	148,401	63,575	42.8	39.9	45.8
49	Cedar City (60)	29,168	12,227	41.9	35.5	48.6
55	Southwest LHD (Other) (61)	17,288	8,421	48.7	41.6	55.9
43	St. George (58)	56,177	21,735	38.7	33.9	43.7
53	Washington Co. (Other) (59)	45,712	21,919	48.0	42.6	53.3
7	Summit County LHD (51)	27,801	5,847	21.0	17.9	24.5
27	Tooele County LHD (40)	38,707	13,462	34.8	31.4	38.3
30	TriCounty LHD (53)	36,560	12,829	35.1	31.6	38.8
	Utah County LHD	352,433	137,731	39.1	37.1	41.1
41	American Fork/Alpine (42)	33,188	12,688	38.2	32.1	44.8
26	Lehi/Cedar Valley (41)	52,992	17,736	33.5	28.4	39.0
20	Orem East (46)	15,059	4,167	27.7	20.3	36.5
37	Orem North (44)	25,424	9,514	37.4	30.6	44.8
46	Orem West (45)	23,220	9,502	40.9	33.1	49.2
29	Pleasant Grove/Lindon (43)	33,977	11,919	35.1	29.2	41.4
45	Provo North/BYU (47)	41,689	16,342	39.2	32.5	46.3
60	Provo South (48)	49,593	27,484	55.4	49.3	61.4
25	Springville/Spanish Fork (49)	54,228	18,101	33.4	29.0	38.0
51	Utah Co. South (50)	22,548	10,045	44.6	38.0	51.3
21	Wasatch County LHD (52)	16,912	4,876	28.8	24.8	33.3
	Weber-Morgan LHD	172,761	55,698	32.2	30.0	34.6
44	Ben Lomond (5)	40,310	15,757	39.1	34.1	44.3
12	Morgan Co (All)/Weber Co. (East) (6)	29,995	7,139	23.8	19.2	29.1
48	Ogden (Downtown) (7)	26,184	10,961	41.9	35.6	48.4
18	Riverdale (10)	18,568	5,004	27.0	21.1	33.7
19	Roy/Hooper (9)	30,718	8,349	27.2	22.5	32.5
32	South Ogden (8)	26,920	9,635	35.8	29.6	42.5

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>U.S. rates not available. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>||</sup>Data are from 2012. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates from the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBS Version 2012.

Children in Poverty Ages 0-17 by Small Area, Health District, Utah, or U.S, 2008-2012

State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2008-2012 Population Ages 0-17	2008-2012 Children In Poverty Ages 0-17	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S.	72,869,122	15,188,844	20.8	20.0	21.6
	State of Utah	855,990	119,578	14.0	13.3	14.6
	Bear River LHD	52,195	7,279	13.9	13.3	14.6
15	Brigham City (1)	7,638	665	8.7	8.2	9.3
27	Box Elder County (Other) (2)	9,011	978	10.9	10.2	11.5
23	Cache Co (Oth)/Rich Co (All) (4)	15,175	1,554	10.2	9.6	10.8
47	Logan (3)	20,315	4,026	19.8	19.0	20.6
	Central Utah LHD	23,538	4,111	17.5	16.7	18.2
40	Juab/Millard/Sanpete Counties (54)	15,858	2,621	16.5	15.8	17.3
46	Sevier/Piute/Wayne Counties (55)	7,684	1,482	19.3	18.5	20.1
	Davis County LHD	104,055	9,537	9.2	8.6	9.7
13	Bountiful (16)	13,121	1,021	7.8	7.3	8.3
37	Clearfield/Hill AFB (11)	23,307	3,610	15.5	14.8	16.2
2	Farmington/Centerville (14)	10,796	404	3.7	3.4	4.1
25	Layton (12)	23,629	2,561	10.8	10.2	11.4
6	Syracuse/Kaysville (13)	22,706	1,318	5.8	5.3	6.3
7	Woods Cross/North Salt Lake (15)	9,817	648	6.6	6.1	7.1
	Salt Lake County LHD	295,545	45,749	15.5	14.8	16.2
1	Cottonwood (28)	8,950	326	3.6	3.3	4.0
22	Holladay (27)	10,511	1,054	10.0	9.4	10.6
39	Kearns (29) (29.1) <sup>§</sup>	21,092	3,420	16.2	15.5	16.9
38	Magna (20)	9,338	1,497	16.0	15.3	16.8
54	Midvale (32)	6,801	1,679	24.7	23.8	25.5
18	Millcreek (26)	13,266	1,265	9.5	9.0	10.1
55	Murray (31)	6,631	1,685	25.4	24.6	26.3
9	Riverton/Draper (39)	41,955	2,808	6.7	6.2	7.2
21	SLC (Avenues) (18)	3,148	315	10.0	9.4	10.6
36	SLC (Downtown) (24)	7,801	1,201	15.4	14.7	16.1
31	SLC (Foothill/U of U) (19)	5,494	711	12.9	12.3	13.6
61	SLC (Glendale) (21)	9,199	3,528	38.4	37.4	39.3
58	SLC (Rose Park) (17)	9,730	2,797	28.7	27.9	29.6
35	Sandy Center (36)	14,624	2,247	15.4	14.7	16.1
14	Sandy (NE) (37)	5,909	488	8.3	7.7	8.8
4	Sandy (SE) (38)	8,705	405	4.7	4.2	5.1
3	South Jordan (35)	17,760	693	3.9	3.5	4.3
62	South Salt Lake (25)	6,084	2,589	42.6	41.6	43.5
52	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	10,524	2,438	23.2	22.3	24.0
--	Taylorsville (West) (30.1) <sup>¶</sup>	--	--	--	--	--
29	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	10,960	1,351	12.3	11.7	13.0
32	West Jordan (SE) (34.1)	11,314	1,573	13.9	13.2	14.6
11	West Jordan West, Copperton (34.2)	16,450	1,219	7.4	6.9	7.9
59	West Valley East (23) (23.1) <sup>§</sup>	14,705	4,451	30.3	29.4	31.2
53	West Valley West (22)	25,167	6,017	23.9	23.1	24.7
	Southeastern Utah LHD	15,826	3,249	20.5	19.7	21.3
33	Carbon/Emery Counties (56)	8,981	1,252	13.9	13.3	14.6
60	Grand/San Juan Counties (57)	8,743	2,663	30.5	29.6	31.4
	Southwest Utah LHD	59,849	12,088	20.2	19.4	21.0
50	Cedar City (60)	12,161	2,781	22.9	22.0	23.7
41	Southwest LHD (Other) (61)	6,460	1,084	16.8	16.0	17.5
44	St. George (58)	20,254	3,603	17.8	17.0	18.5
49	Washington Co. (Other) (59)	20,963	4,620	22.0	21.2	22.9
19	Summit County LHD (51)	10,023	962	9.6	9.0	10.2
16	Tooele County LHD (40)	20,875	1,948	9.3	8.8	9.9
30	TriCounty LHD (53)	17,018	2,144	12.6	11.9	13.2
	Utah County LHD	178,178	21,079	11.8	11.2	12.5
10	American Fork/Alpine (42)	21,065	1,560	7.4	6.9	7.9
8	Lehi/Cedar Valley (41)	39,497	2,622	6.6	6.2	7.1
34	Orem East (46)	6,325	953	15.1	14.4	15.8
51	Orem North (44)	12,210	2,812	23.0	22.2	23.9
42	Orem West (45)	8,290	1,432	17.3	16.5	18.0
26	Pleasant Grove/Lindon (43)	20,344	2,208	10.9	10.2	11.5
45	Provo North/BYU (47)	8,478	1,618	19.1	18.3	19.9
56	Provo South (48)	15,527	3,998	25.7	24.9	26.6
12	Springville/Spanish Fork (49)	31,915	2,366	7.4	6.9	7.9
24	Utah Co. South (50)	13,893	1,502	10.8	10.2	11.4
20	Wasatch County LHD (52)	7,957	792	10.0	9.4	10.5
	Weber-Morgan LHD	70,931	10,640	15.0	14.3	15.7
43	Ben Lomond (5)	16,462	2,871	17.4	16.7	18.2
5	Morgan Co (All)/Weber Co. (East) (6)	13,192	665	5.0	4.6	5.5
57	Ogden (Downtown) (7)	10,702	2,864	26.8	25.9	27.6
28	Riverdale (10)	7,008	768	11.0	10.3	11.6
17	Roy/Hooper (9)	14,197	1,338	9.4	8.9	10.0
48	South Ogden (8)	10,049	2,109	21.0	20.2	21.8

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>‡</sup>Data is not yet available for ACS 2008-2012. Source: U.S. Census Bureau, 2008-2012 American Community Survey R17001

Income < \$25,000 by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2009-2012 Income < \$25,000	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>‡</sup>	240,185,952	77,099,691	32.1	31.9	32.4
	State of Utah	1,967,315	467,434	23.8	23.2	24.4
	Bear River LHD	114,924	27,019	23.5	21.3	25.9
27	Brigham City (1)	16,086	3,249	20.2	15.6	25.7
28	Box Elder County (Other) (2)	17,287	3,509	20.3	15.3	26.4
26	Cache Co (Oth)/Rich Co (All) (4)	27,519	5,498	20.0	16.0	24.7
47	Logan (3)	53,455	16,020	30.0	26.3	34.0
	Central Utah LHD	52,303	16,266	31.1	28.2	34.1
48	Juab/Millard/Sanpete Counties (54)	34,778	10,513	30.2	26.7	34.1
55	Sevier/Piute/Wayne Counties (55)	17,651	6,097	34.5	29.7	39.7
	Davis County LHD	209,077	33,369	16.0	14.4	17.7
13	Bountiful (16)	32,734	5,162	15.8	11.4	21.3
36	Clearfield/Hill AFB (11)	44,893	11,093	24.7	20.8	29.1
1	Farmington/Centerville (14)	23,643	2,090	8.8	6.1	12.6
17	Layton (12)	50,686	8,642	17.1	13.8	20.8
5	Syracuse/Kaysville (13)	36,386	4,177	11.5	8.6	15.1
7	Woods Cross/North Salt Lake (15)	20,675	2,495	12.1	8.6	16.8
	Salt Lake County LHD	757,119	182,314	24.1	23.1	25.1
14	Cottonwood (28)	33,211	5,244	15.8	12.7	19.4
24	Holladay (27)	35,928	6,963	19.4	16.0	23.3
51	Kearns (29) (29.1) <sup>§</sup>	25,972	8,124	31.3	27.0	35.9
38	Magna (20)	17,913	4,648	26.0	20.3	32.5
37	Midvale (32)	22,833	5,875	25.7	20.4	31.9
25	Millcreek (26)	43,883	8,619	19.6	16.6	23.1
41	Murray (31)	25,516	7,040	27.6	23.0	32.7
3	Riverton/Draper (39)	74,334	7,270	9.8	7.9	12.0
32	SLC (Avenues) (18)	18,589	4,287	23.1	17.5	29.7
54	SLC (Downtown) (24)	43,048	14,499	33.7	29.2	38.5
12	SLC (Foothill/U of U) (19)	18,546	2,834	15.3	10.7	21.3
61	SLC (Glendale) (21)	22,235	11,186	50.3	42.6	58.0
59	SLC (Rose Park) (17)	23,310	10,270	44.1	37.0	51.4
34	Sandy Center (36)	38,657	9,200	23.8	19.9	28.2
8	Sandy (NE) (37)	16,992	2,132	12.6	8.7	17.9
4	Sandy (SE) (38)	21,375	2,432	11.4	7.8	16.3
2	South Jordan (35)	36,470	3,457	9.5	7.0	12.8
62	South Salt Lake (25)	20,259	10,269	50.7	43.2	58.2
46	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	27,559	8,196	29.7	24.8	35.3
22	Taylorsville (West) (30.1) <sup>¶</sup>	27,721	5,339	19.3	11.3	30.9
16	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,746	3,679	16.9	12.9	22.0
33	West Jordan (SE) (34.1)	24,374	5,628	23.1	18.2	28.9
6	West Jordan West, Copperton (34.2)	26,643	3,152	11.8	8.6	16.1
60	West Valley East (23) (23.1) <sup>§</sup>	37,199	17,223	46.3	40.7	52.0
57	West Valley West (22)	53,441	19,196	35.9	31.7	40.4
	Southeastern Utah LHD	40,317	12,240	30.4	27.5	33.4
45	Carbon/Emery Counties (56)	23,192	6,872	29.6	26.3	33.2
56	Grand/San Juan Counties (57)	17,103	5,928	34.7	29.3	40.5
	Southwest Utah LHD	148,401	44,446	30.0	27.6	32.5
53	Cedar City (60)	29,168	9,693	33.2	27.9	39.0
49	Southwest LHD (Other) (61)	17,288	5,309	30.7	25.0	37.1
50	St. George (58)	56,177	17,331	30.9	26.9	35.1
44	Washington Co. (Other) (59)	45,712	13,366	29.2	24.9	34.0
11	Summit County LHD (51)	27,801	4,184	15.1	12.3	18.3
23	Tooele County LHD (40)	38,707	7,486	19.3	16.7	22.3
31	TriCounty LHD (53)	36,560	8,380	22.9	20.0	26.2
	Utah County LHD	352,433	89,377	25.4	23.8	27.0
21	American Fork/Alpine (42)	33,188	6,100	18.4	14.1	23.6
10	Lehi/Cedar Valley (41)	52,992	7,716	14.6	11.6	18.1
30	Orem East (46)	15,059	3,105	20.6	14.6	28.4
40	Orem North (44)	25,424	6,915	27.2	21.8	33.4
42	Orem West (45)	23,220	6,567	28.3	22.0	35.6
19	Pleasant Grove/Lindon (43)	33,977	6,031	17.8	13.8	22.5
52	Provo North/BYU (47)	41,689	13,749	33.0	27.4	39.1
63	Provo South (48)	49,593	25,382	51.2	45.8	56.6
29	Springville/Spanish Fork (49)	54,228	11,133	20.5	17.2	24.3
35	Utah Co. South (50)	22,548	5,461	24.2	19.4	29.8
15	Wasatch County LHD (52)	16,912	2,821	16.7	13.6	20.3
	Weber-Morgan LHD	172,761	39,891	23.1	21.2	25.1
43	Ben Lomond (5)	40,310	11,476	28.5	24.5	32.8
9	Morgan Co (All)/Weber Co. (East) (6)	29,995	4,130	13.8	10.3	18.2
58	Ogden (Downtown) (7)	26,184	10,068	38.5	32.7	44.5
20	Riverdale (10)	18,568	3,309	17.8	13.5	23.1
18	Roy/Hooper (9)	30,718	5,253	17.1	13.6	21.4
39	South Ogden (8)	26,920	7,091	26.3	21.2	32.3

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>||</sup>Data are from 2012. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates are provided by the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

Income \$25,000-\$49,999 by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2009-2012 Income \$25,000-\$49,999	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>‡</sup>	240,185,952	60,526,860	25.2	25.0	25.4
	State of Utah	1,967,315	537,274	27.3	26.7	27.9
	Bear River LHD	114,924	36,557	31.8	29.4	34.3
32	Brigham City (1)	16,086	4,580	28.5	23.0	34.7
60	Box Elder County (Other) (2)	17,287	6,011	34.8	29.0	41.1
55	Cache Co (Oth)/Rich Co (All) (4)	27,519	8,941	32.5	28.0	37.3
45	Logan (3)	53,455	16,256	30.4	26.7	34.4
	Central Utah LHD	52,303	17,072	32.6	30.0	35.4
54	Juab/Millard/Sanpete Counties (54)	34,778	11,209	32.2	28.9	35.8
57	Sevier/Piute/Wayne Counties (55)	17,651	5,902	33.4	29.0	38.2
	Davis County LHD	209,077	48,025	23.0	21.4	24.6
14	Bountiful (16)	32,734	7,895	24.1	20.2	28.5
36	Clearfield/Hill AFB (11)	44,893	13,055	29.1	25.3	33.2
5	Farmington/Centerville (14)	23,643	4,542	19.2	15.0	24.2
12	Layton (12)	50,686	12,023	23.7	20.5	27.2
4	Syracuse/Kaysville (13)	36,386	6,218	17.1	14.1	20.5
7	Woods Cross/North Salt Lake (15)	20,675	4,197	20.3	15.8	25.6
	Salt Lake County LHD	757,119	201,469	26.6	25.7	27.6
10	Cottonwood (28)	33,211	7,363	22.2	18.5	26.3
22	Holladay (27)	35,928	9,140	25.4	21.8	29.5
58	Kearns (29) (29.1) <sup>§</sup>	25,972	8,830	34.0	29.7	38.5
61	Magna (20)	17,913	6,823	38.1	31.8	44.8
62	Midvale (32)	22,833	9,076	39.8	33.4	46.4
24	Millcreek (26)	43,883	11,563	26.4	22.9	30.1
35	Murray (31)	25,516	7,407	29.0	24.3	34.3
6	Riverton/Draper (39)	74,334	14,436	19.4	16.9	22.2
21	SLC (Avenues) (18)	18,589	4,722	25.4	19.6	32.2
26	SLC (Downtown) (24)	43,048	11,434	26.6	22.6	31.0
8	SLC (Foothill/U of U) (19)	18,546	3,787	20.4	15.0	27.1
29	SLC (Glendale) (21)	22,235	6,097	27.4	21.3	34.6
50	SLC (Rose Park) (17)	23,310	7,406	31.8	25.4	38.9
39	Sandy Center (36)	38,657	11,373	29.4	25.5	33.7
3	Sandy (NE) (37)	16,992	2,787	16.4	12.3	21.5
1	Sandy (SE) (38)	21,375	2,916	13.6	10.2	18.1
2	South Jordan (35)	36,470	5,708	15.7	12.4	19.5
38	South Salt Lake (25)	20,259	5,960	29.4	23.1	36.7
37	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	27,559	8,078	29.3	24.7	34.4
49	Taylorsville (West) (30.1) <sup>¶</sup>	27,721	8,679	31.3	22.0	42.5
41	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,746	6,500	29.9	25.1	35.2
23	West Jordan (SE) (34.1)	24,374	6,364	26.1	21.5	31.4
25	West Jordan West, Copperton (34.2)	26,643	7,036	26.4	21.4	32.1
51	West Valley East (23) (23.1) <sup>§</sup>	37,199	11,826	31.8	27.0	37.0
40	West Valley West (22)	53,441	15,925	29.8	26.2	33.7
	Southeastern Utah LHD	40,317	11,760	29.2	26.3	32.2
18	Carbon/Emery Counties (56)	23,192	5,819	25.1	22.1	28.4
59	Grand/San Juan Counties (57)	17,103	5,883	34.4	29.1	40.2
	Southwest Utah LHD	148,401	47,414	32.0	29.6	34.4
44	Cedar City (60)	29,168	8,870	30.4	25.0	36.4
63	Southwest LHD (Other) (61)	17,288	7,311	42.3	36.1	48.8
34	St. George (58)	56,177	16,201	28.8	25.1	32.9
53	Washington Co. (Other) (59)	45,712	14,591	31.9	27.8	36.4
9	Summit County LHD (51)	27,801	6,136	22.1	18.9	25.6
43	Tooele County LHD (40)	38,707	11,647	30.1	27.0	33.4
28	TriCounty LHD (53)	36,560	9,769	26.7	23.7	30.0
	Utah County LHD	352,433	91,527	26.0	24.5	27.5
27	American Fork/Alpine (42)	33,188	8,818	26.6	21.9	31.8
13	Lehi/Cedar Valley (41)	52,992	12,702	24.0	20.4	28.0
16	Orem East (46)	15,059	3,729	24.8	18.5	32.2
33	Orem North (44)	25,424	7,294	28.7	23.3	34.8
31	Orem West (45)	23,220	6,541	28.2	22.1	35.2
17	Pleasant Grove/Lindon (43)	33,977	8,504	25.0	20.7	30.0
15	Provo North/BYU (47)	41,689	10,268	24.6	20.0	29.9
20	Provo South (48)	49,593	12,572	25.4	21.1	30.2
19	Springville/Spanish Fork (49)	54,228	13,709	25.3	22.1	28.7
42	Utah Co. South (50)	22,548	6,771	30.0	25.1	35.5
52	Wasatch County LHD (52)	16,912	5,397	31.9	27.1	37.2
	Weber-Morgan LHD	172,761	50,446	29.2	27.3	31.2
46	Ben Lomond (5)	40,310	12,331	30.6	26.4	35.1
11	Morgan Co (All)/Weber Co. (East) (6)	29,995	6,938	23.1	19.5	27.2
30	Ogden (Downtown) (7)	26,184	7,227	27.6	22.8	32.9
56	Riverdale (10)	18,568	6,170	33.2	27.5	39.5
48	Roy/Hooper (9)	30,718	9,578	31.2	27.0	35.8
47	South Ogden (8)	26,920	8,343	31.0	26.1	36.4

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>‡</sup>Data are from 2012. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates are provided by the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

Income \$50,000-\$74,999 by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2009-2012 Income \$50,000-\$74,999	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>‡</sup>	240,185,952	36,027,893	15.0	14.9	15.2
	State of Utah	1,967,315	369,658	18.8	18.3	19.3
	Bear River LHD	114,924	23,847	20.8	18.8	22.9
63	Brigham City (1)	16,086	4,398	27.3	21.5	34.0
47	Box Elder County (Other) (2)	17,287	3,651	21.1	16.4	26.9
50	Cache Co (Oth)/Rich Co (All) (4)	27,519	5,999	21.8	18.2	25.9
22	Logan (3)	53,455	9,002	16.8	14.2	19.9
	Central Utah LHD	52,303	9,671	18.5	16.4	20.7
32	Juab/Millard/Sanpete Counties (54)	34,778	6,566	18.9	16.3	21.7
19	Sevier/Piute/Wayne Counties (55)	17,651	2,888	16.4	13.3	20.0
	Davis County LHD	209,077	42,924	20.5	19.0	22.2
37	Bountiful (16)	32,734	6,282	19.2	15.8	23.2
42	Clearfield/Hill AFB (11)	44,893	9,145	20.4	16.9	24.3
43	Farmington/Centerville (14)	23,643	4,826	20.4	16.4	25.2
52	Layton (12)	50,686	11,171	22.0	18.8	25.6
41	Syracuse/Kaysville (13)	36,386	7,204	19.8	16.4	23.7
56	Woods Cross/North Salt Lake (15)	20,675	4,846	23.4	18.4	29.4
	Salt Lake County LHD	757,119	129,543	17.1	16.4	17.9
23	Cottonwood (28)	33,211	5,746	17.3	14.3	20.8
17	Holladay (27)	35,928	5,734	16.0	13.1	19.3
15	Kearns (29) (29.1) <sup>§</sup>	25,972	4,096	15.8	12.8	19.3
59	Magna (20)	17,913	4,387	24.5	19.5	30.3
18	Midvale (32)	22,833	3,644	16.0	12.3	20.5
13	Millcreek (26)	43,883	6,600	15.0	12.6	17.9
33	Murray (31)	25,516	4,817	18.9	14.9	23.6
29	Riverton/Draper (39)	74,334	13,306	17.9	15.7	20.3
1	SLC (Avenues) (18)	18,589	2,015	10.8	7.5	15.5
14	SLC (Downtown) (24)	43,048	6,621	15.4	12.2	19.3
2	SLC (Foothill/U of U) (19)	18,546	2,090	11.3	8.1	15.5
3	SLC (Glendale) (21)	22,235	2,581	11.6	7.2	18.1
11	SLC (Rose Park) (17)	23,310	3,261	14.0	9.9	19.4
24	Sandy Center (36)	38,657	6,688	17.3	14.6	20.4
27	Sandy (NE) (37)	16,992	2,977	17.5	13.4	22.6
10	Sandy (SE) (38)	21,375	2,978	13.9	10.5	18.3
25	South Jordan (35)	36,470	6,309	17.3	14.4	20.7
4	South Salt Lake (25)	20,259	2,354	11.6	7.8	17.0
26	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	27,559	4,784	17.4	13.8	21.7
48	Taylorsville (West) (30.1) <sup>¶</sup>	27,721	5,918	21.4	13.9	31.3
57	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,746	5,254	24.2	20.0	28.9
34	West Jordan (SE) (34.1)	24,374	4,629	19.0	15.0	23.8
62	West Jordan West, Copperton (34.2)	26,643	6,818	25.6	21.0	30.8
9	West Valley East (23) (23.1) <sup>§</sup>	37,199	5,137	13.8	10.8	17.5
28	West Valley West (22)	53,441	9,464	17.7	15.0	20.8
	Southeastern Utah LHD	40,317	8,334	20.7	18.3	23.2
49	Carbon/Emery Counties (56)	23,192	5,009	21.6	18.8	24.7
30	Grand/San Juan Counties (57)	17,103	3,101	18.1	14.5	22.5
	Southwest Utah LHD	148,401	28,448	19.2	17.2	21.3
36	Cedar City (60)	29,168	5,580	19.1	15.1	23.9
16	Southwest LHD (Other) (61)	17,288	2,749	15.9	11.9	21.0
39	St. George (58)	56,177	10,893	19.4	16.3	22.9
38	Washington Co. (Other) (59)	45,712	8,841	19.3	15.9	23.4
21	Summit County LHD (51)	27,801	4,673	16.8	14.1	19.9
46	Tooele County LHD (40)	38,707	8,132	21.0	18.6	23.7
35	TriCounty LHD (53)	36,560	6,957	19.0	16.8	21.5
	Utah County LHD	352,433	69,288	19.7	18.4	21.0
8	American Fork/Alpine (42)	33,188	4,563	13.8	10.7	17.5
61	Lehi/Cedar Valley (41)	52,992	13,439	25.4	21.7	29.4
31	Orem East (46)	15,059	2,822	18.7	13.6	25.3
40	Orem North (44)	25,424	4,955	19.5	14.4	25.8
51	Orem West (45)	23,220	5,088	21.9	16.2	29.0
45	Pleasant Grove/Lindon (43)	33,977	7,139	21.0	16.9	25.8
7	Provo North/BYU (47)	41,689	5,728	13.7	10.3	18.0
5	Provo South (48)	49,593	5,867	11.8	9.0	15.3
55	Springville/Spanish Fork (49)	54,228	12,673	23.4	20.3	26.7
58	Utah Co. South (50)	22,548	5,506	24.4	19.6	30.0
20	Wasatch County LHD (52)	16,912	2,828	16.7	13.9	20.0
	Weber-Morgan LHD	172,761	34,397	19.9	18.3	21.6
54	Ben Lomond (5)	40,310	9,013	22.4	18.9	26.3
53	Morgan Co (All)/Weber Co. (East) (6)	29,995	6,647	22.2	18.6	26.2
12	Ogden (Downtown) (7)	26,184	3,695	14.1	11.0	17.9
44	Riverdale (10)	18,568	3,825	20.6	16.5	25.4
60	Roy/Hooper (9)	30,718	7,778	25.3	21.3	29.8
6	South Ogden (8)	26,920	3,411	12.7	9.5	16.7

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>§</sup>Data are from 2012. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates are provided by the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

Income \$75,000+ by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>1</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2009-2012 Income \$75,000+	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>2</sup>	240,185,952	66,291,323	27.6	27.4	27.8
	State of Utah	1,967,315	593,145	30.2	29.6	30.7
	Bear River LHD	114,924	27,501	23.9	21.8	26.2
25	Brigham City (1)	16,086	3,859	24.0	18.8	30.1
24	Box Elder County (Other) (2)	17,287	4,116	23.8	18.6	29.9
29	Cache Co (Oth)/Rich Co (All) (4)	27,519	7,081	25.7	21.9	30.0
21	Logan (3)	53,455	12,172	22.8	19.5	26.4
	Central Utah LHD	52,303	9,299	17.8	15.7	20.1
14	Juab/Millard/Sanpete Counties (54)	34,778	6,490	18.7	16.0	21.7
9	Sevier/Piute/Wayne Counties (55)	17,651	2,764	15.7	12.6	19.3
	Davis County LHD	209,077	84,739	40.5	38.6	42.5
51	Bountiful (16)	32,734	13,395	40.9	36.0	46.1
30	Clearfield/Hill AFB (11)	44,893	11,596	25.8	22.3	29.8
57	Farmington/Centerville (14)	23,643	12,183	51.5	46.0	57.0
47	Layton (12)	50,686	18,850	37.2	33.5	41.0
58	Syracuse/Kaysville (13)	36,386	18,786	51.6	47.1	56.1
54	Woods Cross/North Salt Lake (15)	20,675	9,134	44.2	38.2	50.3
	Salt Lake County LHD	757,119	243,792	32.2	31.3	33.2
55	Cottonwood (28)	33,211	14,859	44.7	40.3	49.3
49	Holladay (27)	35,928	14,091	39.2	34.9	43.7
15	Kearns (29) (29.1) <sup>3</sup>	25,972	4,922	19.0	15.6	22.9
6	Magna (20)	17,913	2,055	11.5	8.2	15.9
12	Midvale (32)	22,833	4,238	18.6	14.2	23.9
48	Millcreek (26)	43,883	17,101	39.0	35.2	42.9
27	Murray (31)	25,516	6,254	24.5	20.2	29.4
59	Riverton/Draper (39)	74,334	39,330	52.9	49.8	56.0
50	SLC (Avenues) (18)	18,589	7,566	40.7	34.4	47.3
26	SLC (Downtown) (24)	43,048	10,499	24.4	20.7	28.5
60	SLC (Foothill/U of U) (19)	18,546	9,835	53.0	46.3	59.6
4	SLC (Glendale) (21)	22,235	2,368	10.7	6.7	16.6
3	SLC (Rose Park) (17)	23,310	2,373	10.2	6.7	15.2
36	Sandy Center (36)	38,657	11,396	29.5	25.7	33.5
61	Sandy (NE) (37)	16,992	9,094	53.5	47.5	59.5
63	Sandy (SE) (38)	21,375	13,047	61.0	55.2	66.6
62	South Jordan (35)	36,470	20,996	57.6	53.1	62.0
2	South Salt Lake (25)	20,259	1,675	8.3	4.9	13.6
22	Taylorsville (East)/Murray (West) (30) <sup>4</sup>	27,559	6,498	23.6	19.4	28.4
32	Taylorsville (West) (30.1) <sup>5</sup>	27,721	7,781	28.1	19.6	38.5
35	West Jordan (NE) (33.1) (33.2) <sup>6</sup>	21,746	6,313	29.0	24.4	34.2
41	West Jordan (SE) (34.1)	24,374	7,753	31.8	27.0	37.1
45	West Jordan West, Copperton (34.2)	26,643	9,634	36.2	31.0	41.7
1	West Valley East (23) (23.1) <sup>7</sup>	37,199	3,009	8.1	5.6	11.6
10	West Valley West (22)	53,441	8,855	16.6	14.0	19.5
	Southeastern Utah LHD	40,317	7,983	19.8	17.6	22.2
23	Carbon/Emery Counties (56)	23,192	5,492	23.7	20.7	26.9
8	Grand/San Juan Counties (57)	17,103	2,191	12.8	10.3	15.9
	Southwest Utah LHD	148,401	28,092	18.9	17.1	21.0
11	Cedar City (60)	29,168	5,023	17.2	13.6	21.7
5	Southwest LHD (Other) (61)	17,288	1,917	11.1	7.7	15.8
18	St. George (58)	56,177	11,752	20.9	17.7	24.5
16	Washington Co. (Other) (59)	45,712	8,918	19.5	16.2	23.4
56	Summit County LHD (51)	27,801	12,808	46.1	42.5	49.6
37	Tooele County LHD (40)	38,707	11,438	29.6	26.6	32.7
40	TriCounty LHD (53)	36,560	11,458	31.3	28.5	34.3
	Utah County LHD	352,433	102,206	29.0	27.6	30.5
53	American Fork/Alpine (42)	33,188	13,707	41.3	36.2	46.6
44	Lehi/Cedar Valley (41)	52,992	19,141	36.1	32.2	40.3
43	Orem East (46)	15,059	5,403	35.9	28.9	43.5
28	Orem North (44)	25,424	6,259	24.6	19.1	31.1
20	Orem West (45)	23,220	5,025	21.6	16.7	27.5
46	Pleasant Grove/Lindon (43)	33,977	12,303	36.2	31.4	41.3
34	Provo North/BYU (47)	41,689	11,944	28.7	23.7	34.2
7	Provo South (48)	49,593	5,773	11.6	8.8	15.3
39	Springville/Spanish Fork (49)	54,228	16,713	30.8	27.4	34.5
19	Utah Co. South (50)	22,548	4,809	21.3	17.1	26.3
42	Wasatch County LHD (52)	16,912	5,867	34.7	30.4	39.3
	Weber-Morgan LHD	172,761	48,028	27.8	26.0	29.7
13	Ben Lomond (5)	40,310	7,490	18.6	15.5	22.1
52	Morgan Co (All)/Weber Co. (East) (6)	29,995	12,283	41.0	36.6	45.5
17	Ogden (Downtown) (7)	26,184	5,195	19.8	15.7	24.7
33	Riverdale (10)	18,568	5,264	28.4	23.3	34.1
31	Roy/Hooper (9)	30,718	8,110	26.4	22.3	30.9
38	South Ogden (8)	26,920	8,076	30.0	25.3	35.1

<sup>1</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>2</sup>2011-2012 data were used to calculate U.S. rates. <sup>3</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>4</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>5</sup>Data are from 2012. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates are provided by the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

Uninsured Population by Small Area, Health District, Utah, or U.S., 2009-2012						
State Rank <sup>†</sup>	Small Area, Health District, Utah, or U.S.	2012 Population 18+	2009-2012 Uninsured	Crude Rate	95% Confidence Interval	
					Lower	Upper
	U.S. <sup>‡</sup>	240,185,952	43,954,029	18.3	18.1	18.5
	State of Utah	1,967,315	359,035	18.3	17.7	18.8
	Bear River LHD	114,924	17,124	14.9	13.1	17.0
26	Brigham City (1)	16,086	2,556	15.9	11.7	21.2
21	Box Elder County (Other) (2)	17,287	2,631	15.2	11.0	20.7
18	Cache Co (Oth)/Rich Co (All) (4)	27,519	3,877	14.1	10.8	18.3
31	Logan (3)	53,455	9,050	16.9	13.9	20.4
	Central Utah LHD	52,303	11,099	21.2	18.7	24.0
42	Juab/Millard/Sanpete Counties (54)	34,778	7,220	20.8	17.7	24.2
50	Sevier/Piute/Wayne Counties (55)	17,651	4,111	23.3	18.9	28.4
	Davis County LHD	209,077	25,152	12.0	10.6	13.7
8	Bountiful (16)	32,734	3,728	11.4	7.8	16.4
29	Clearfield/Hill AFB (11)	44,893	7,403	16.5	13.0	20.7
1	Farmington/Centerville (14)	23,643	1,591	6.7	4.3	10.3
13	Layton (12)	50,686	6,680	13.2	10.3	16.7
10	Syracuse/Kaysville (13)	36,386	4,435	12.2	8.8	16.7
6	Woods Cross/North Salt Lake (15)	20,675	2,022	9.8	6.7	14.1
	Salt Lake County LHD	757,119	149,910	19.8	18.9	20.7
23	Cottonwood (28)	33,211	5,184	15.6	12.2	19.7
7	Holladay (27)	35,928	4,042	11.3	8.4	14.9
56	Kearns (29) (29.1) <sup>§</sup>	25,972	6,849	26.4	22.4	30.7
54	Magna (20)	17,913	4,346	24.3	18.6	31.0
59	Midvale (32)	22,833	6,160	27.0	21.2	33.6
17	Millcreek (26)	43,883	6,047	13.8	11.1	17.0
34	Murray (31)	25,516	4,613	18.1	14.1	22.9
14	Riverton/Draper (39)	74,334	9,820	13.2	10.9	15.9
12	SLC (Avenues) (18)	18,589	2,316	12.5	8.1	18.6
52	SLC (Downtown) (24)	43,048	10,095	23.5	19.3	28.2
2	SLC (Foothill/U of U) (19)	18,546	1,409	7.6 <sup>*</sup>	4.3	13.1
63	SLC (Glendale) (21)	22,235	8,816	39.7	32.9	46.9
61	SLC (Rose Park) (17)	23,310	8,117	34.8	28.6	41.6
35	Sandy Center (36)	38,657	7,140	18.5	14.9	22.7
3	Sandy (NE) (37)	16,992	1,383	8.1	5.2	12.4
5	Sandy (SE) (38)	21,375	2,035	9.5	6.6	13.6
4	South Jordan (35)	36,470	2,980	8.2	5.8	11.3
60	South Salt Lake (25)	20,259	6,856	33.8	27.0	41.4
53	Taylorsville (East)/Murray (West) (30) <sup>¶</sup>	27,559	6,672	24.2	19.8	29.3
28	Taylorsville (West) (30.1) <sup>¶</sup>	27,721	4,480	16.2	9.1	27.2
44	West Jordan (NE) (33.1) (33.2) <sup>§</sup>	21,746	4,617	21.2	16.7	26.6
45	West Jordan (SE) (34.1)	24,374	5,211	21.4	16.7	26.9
20	West Jordan West, Copperton (34.2)	26,643	3,954	14.8	11.0	19.8
62	West Valley East (23) (23.1) <sup>§</sup>	37,199	13,384	36.0	31.0	41.3
58	West Valley West (22)	53,441	14,349	26.9	23.1	31.0
	Southeastern Utah LHD	40,317	6,943	17.2	14.8	19.9
19	Carbon/Emery Counties (56)	23,192	3,354	14.5	11.8	17.6
55	Grand/San Juan Counties (57)	17,103	4,168	24.4	19.7	29.7
	Southwest Utah LHD	148,401	31,105	21.0	18.8	23.4
46	Cedar City (60)	29,168	6,306	21.6	16.9	27.2
27	Southwest LHD (Other) (61)	17,288	2,754	15.9	11.8	21.2
49	St. George (58)	56,177	13,072	23.3	19.4	27.7
51	Washington Co. (Other) (59)	45,712	10,660	23.3	19.5	27.6
32	Summit County LHD (51)	27,801	4,790	17.2	14.2	20.8
22	Tooele County LHD (40)	38,707	5,972	15.4	13.0	18.3
39	TriCounty LHD (53)	36,560	7,144	19.5	16.7	22.7
	Utah County LHD	352,433	67,914	19.3	17.9	20.7
24	American Fork/Alpine (42)	33,188	5,204	15.7	11.7	20.7
33	Lehi/Cedar Valley (41)	52,992	9,199	17.4	14.1	21.2
38	Orem East (46)	15,059	2,896	19.2	13.0	27.6
36	Orem North (44)	25,424	4,716	18.6	14.0	24.2
40	Orem West (45)	23,220	4,570	19.7	14.7	25.9
15	Pleasant Grove/Lindon (43)	33,977	4,502	13.3	9.7	17.8
16	Provo North/BYU (47)	41,689	5,682	13.6	9.9	18.5
57	Provo South (48)	49,593	13,246	26.7	22.2	31.8
37	Springville/Spanish Fork (49)	54,228	10,352	19.1	15.9	22.8
43	Utah Co. South (50)	22,548	4,731	21.0	16.3	26.5
41	Wasatch County LHD (52)	16,912	3,376	20.0	16.2	24.4
	Weber-Morgan LHD	172,761	28,782	16.7	15.0	18.4
25	Ben Lomond (5)	40,310	6,361	15.8	12.8	19.3
11	Morgan Co (All)/Weber Co. (East) (6)	29,995	3,725	12.4	9.1	16.7
48	Ogden (Downtown) (7)	26,184	6,080	23.2	18.6	28.7
9	Riverdale (10)	18,568	2,200	11.9	8.6	16.1
30	Roy/Hooper (9)	30,718	5,133	16.7	13.0	21.2
47	South Ogden (8)	26,920	6,108	22.7	18.0	28.2

<sup>†</sup>State rank is by 63 small areas for unsuppressed data; 1 is always the lowest rate in the state and 63 is always the highest rate in the state. <sup>‡</sup>2011-2012 data were used to calculate U.S. rates. <sup>§</sup>In 2012, the Kearns, West Jordan Northeast, and West Valley East small areas were redefined (Appendix A). <sup>¶</sup>In 2012, the Taylorsville Utah Small Area was renamed Taylorsville (East)/Murray (West) and the Taylorsville (West) Utah Small Area was created (Appendix A). <sup>§</sup>Data are from 2012. <sup>¶</sup>Insufficient number of cases to meet UDOH standards for data reliability, interpret with caution. Source: 2009-2012 Behavioral Risk Factor Surveillance System, population estimates from the National Center for Health Statistics through a collaborative agreement with the U.S. Census Bureau, IBIS Version 2012.

# Appendix E: Methodology

## Appendix E: Methodology

The 17 indicators in this report come from a variety of data sources. Prescription Opioid Deaths were created from the Utah Violence Death Reporting System. Current Adult Cigarette Smokers, Adult Secondhand Smoke Exposure, Obese Adults, Physically Active Adults, Female Breast Cancer Screening, Colon Cancer Screening, Pre-diabetic Adults, Adults Controlling High Blood Pressure, Diabetic Adults Receiving Diabetes Education, and Adults Limited by Arthritis come from the Utah Behavioral Risk Factor Surveillance System (BRFSS) survey data. Suicide, Cancer Deaths, Cardiovascular Disease Deaths, Fall Hospitalizations, Infants Receiving First Trimester Prenatal Care, and Asthma Emergency Department Visits were created from data obtained through queries of the IBIS-PH (Indicator-Based Information System for Public Health) web-based data query system.

Because the BRFSS is a survey with its own methodological complexities, an entire section is devoted to its description. The demographics section in this report contains demographic characteristics of the 63 Utah Small Areas. Demographic data come from the U.S. Census Bureau and BRFSS data obtained through the IBIS-PH query system.

The following is a list of data sources used in this report and the indicators that were created from them:

Utah Emergency Encounter Database, Bureau of Emergency Medical Services, Utah Department of Health (accessed through IBIS-PH)

- Asthma Emergency Department Visits (2010-2011)

Utah Inpatient Hospital Discharge Data, Office of Health Care Statistics, Utah Department of Health (accessed through IBIS-PH)

- Fall Hospitalizations Ages 65+ (2010-2011)

Utah Death Certificate Database, Office of Vital Records and Statistics, Utah Department of Health (accessed through IBIS-PH)

- Suicides Ages 10+ (2011-2012)
- Cancer Deaths (2011-2012)
- Cardiovascular Disease Deaths (2011-2012)

Utah Birth Certificate Database, Office of Vital Records and Statistics, Utah Department of Health (accessed through IBIS-PH)

- Infants Receiving First Trimester Prenatal Care (2011-2012)

Utah Behavioral Risk Factor Surveillance System (BRFSS)

- Current Adult Cigarette Smokers (2011-2012)
- Adult Secondhand Smoke Exposure (2011-2012)
- Obese Adults (2011-2012)
- Physically Active Adults (2011-2012)
- Female Breast Cancer Screenings Ages 40+ (2010-2012)
- Colon Cancer Screenings Ages 50+ (2010, 2012)
- Pre-diabetic Adults (2009-2012)
- Adults Controlling High Blood Pressure (2011-2012)
- Diabetic Adults Receiving Diabetes Education (2009-2012)
- Adults Limited by Arthritis (2009-2011)

Utah Violent Death Reporting System, Violence and Injury Prevention Program, Utah Department of Health

- Prescription Opioid Deaths Ages 18+ (2009-2012)

### ***Indicator Based Information System for Public Health (IBIS-PH) (<http://ibis.health.utah.gov>)***

Ten of the seventeen indicators in this report were created from data acquired via the IBIS-PH web-based data system. IBIS-PH houses a collection of Utah data sets (e.g. population estimates, deaths, health surveys, emergency events) and allows for queries considering a variety of demographic variables. One of the benefits of using IBIS-PH to obtain data is that the system allows for many data queries to be readily performed at the small area level. The purpose of IBIS-PH is to provide information to support evidence-based decision making, plan and improve service delivery, evaluate health care systems, and inform policy decisions in Utah.

Data from the Utah Emergency Encounter Database<sup>29</sup> (for indicators measuring Emergency Department visits), the Utah Inpatient Hospital Discharge Data<sup>30</sup> (for indicators measuring hospitalizations), the Utah Birth Certificate Database (for indicators measuring births), and the Utah Death Certificate Database<sup>31</sup> (for indicators measuring fatalities) were all accessed for this report from IBIS-PH. Indicators included in-state chronic diseases, injuries, births, and deaths of Utah residents only. The individual's location of residence rather than the location where the injury took place is the determinant of the Utah Small Area.

Some cases may lack the ZIP code information necessary to assign them to the appropriate Utah Small Area, yet still have enough information to assign them to the appropriate health district. As a result, on the individual indicator bar graphs, it is sometimes the case that the total number of incidents in a particular Utah Small Area may be fewer than the number of cases in the local health district.

### ***ICD-9 & ICD-10 Codes***

ICD-CM stands for "International Classification of Diseases Clinical Modification." It is a coding system maintained by the World Health Organization and the U.S. National Center for Health Statistics (NCHS) which is used to classify causes of death on death certificates and diagnoses, injury causes, and medical procedures for hospital and emergency department (ED) visits. These codes are updated every decade or so to account for advances in medical technology. Currently, the U.S. is changing over from the 9th revision (ICD-9-CM) to the 10th revision (ICD-10-CM). For all data years in this report, the standard is to use the ICD-10-CM coding system to code deaths and the ICD-9-CM coding system to code nonfatal incidents.

ICD-10-CM differs from ICD-9-CM in a number of respects: 1) ICD-10-CM is far more detailed than ICD-9-CM, with nearly 8,000 categories compared to 4,000 categories; 2) ICD-10-CM uses 3-7 digit alphanumeric codes compared with 3-5 digit numeric codes in ICD-9-CM; 3) three additional chapters have been added and some chapters rearranged; 4) cause-of-death titles have been changed and conditions have been regrouped; 5) some coding rules have been changed; and 6) ICD-10-CM is larger and more detailed with more specific injury information.

Data used to create the Suicide and Fall Hospitalization indicators in this report are consistent with the standard injury case definitions. Hospitalization data were coded using ICD-9 injury codes and case definitions are consistent with the Consensus Recommendations for Using Hospital Discharge Data for Injury Surveillance (2003) developed by the State and Territorial Injury Program Directors Association (STIPDA) Injury Surveillance Workgroup. The IBIS-PH query system is set up so that the data can be readily queried based upon standard injury case definitions or individual ICD-9/ICD-10 codes.

## Appendix E: Methodology

Hospitalization data in the IBIS-PH system are based only on the first diagnosis code recoded in the original data. Mortality data are coded using ICD-10 injury codes and case definitions are consistent with the External Cause of Injury Mortality Matrix for ICD-10 found on the National Center for Health Care Statistics (NCHS) website at [http://www.cdc.gov/nchs/data/ice/icd10\\_transcode.pdf](http://www.cdc.gov/nchs/data/ice/icd10_transcode.pdf). Mortality data in the IBIS-PH query system are based only on the underlying cause of death and do not take into account immediate causes.

For each indicator below, all possible ICD codes that may be represented in the data in this report are listed.

Where the data source does not reference the ICD, no codes are listed, but the BRFSS definition is listed.

### **Suicides Ages 10+ (2011-2012)**

ICD-10 Codes: X60-X84, Y87.0, U03

Indicator Definition: Number of resident deaths resulting from the intentional use of force against oneself per 100,000 population ages 10+.

Data Source: Utah Death Certificate Database, Office of Vital Records and Statistics, Utah Department of Health

### **Cancer Deaths (2011-2012)**

ICD-10 Codes: C00-C97

Indicator Definition: Number of resident deaths resulting from all cancers per 100,000 population.

Data Source: Utah Death Certificate Database, Office of Vital Records and Statistics, Utah Department of Health

### **Cardiovascular Disease Deaths (2011-2012)**

ICD-10 Codes: I00-I09, I11, I13, I20-I51

Indicator Definition: Number of resident deaths resulting from heart disease per 100,000 population. Heart disease is a general term that describes many different diseases including coronary heart disease, rheumatic heart disease, hypertension, heart failure, and other heart conditions.

Data Source: Utah Death Certificate Database, Office of Vital Records and Statistics, Utah Department of Health

### **Fall Hospitalizations Ages 65+ (2010-2011)**

ICD-9 Codes: E880-E886, E888, E957, E968.1, E987

Indicator Definition: Number of hospitalizations among Utah residents resulting from a fall per 10,000 population ages 65+. This includes persons who may have died as a result of their injuries. Unintentional, self-inflicted, undetermined, and assault-related fall injuries are also included. A fall was defined as an incident where a person came to rest on the ground or another lower level that resulted with the person entering a hospital for diagnosis and treatment.

Data Source: Utah Inpatient Hospital Discharge Data, Office of Health Care Statistics, Utah Department of Health

### **Infants Receiving First Trimester Prenatal Care (2011-2012)**

Indicator Definition: Number of infants born to pregnant women receiving prenatal care in the first trimester as a percentage of the total number of live births.

Data Source: Utah Birth Certificate Database, Office of Vital Records and Statistics, Utah Department of Health

### **Asthma Emergency Department Visits (2010-2011)**

ICD-9 Codes: 493

Indicator Definition: Number of resident emergency department visits with asthma as the principle diagnosis per 10,000 population.

Data Source: Emergency Department Encounter Database, Bureau of Emergency Medical Services, Utah Department of Health

### ***Utah Behavioral Risk Factor Surveillance System (BRFSS)***

Ten of the indicators in this report come from BRFSS data. The BRFSS is a telephone survey that measures chronic disease, injury, and related health risk behaviors among adults ages 18 and older. It is coordinated by the U.S. Centers for Disease Control and Prevention (CDC) and administered at the state level in all 50 states as well as in several U.S. territories. The BRFSS questionnaire is modified each year by the CDC in collaboration with participating states and territories.

The following indicators were developed by BRFSS questions:

- Current Adult Cigarette Smokers (2011-2012)
- Adult Secondhand Smoke Exposure (2011-2012)
- Obese Adults (2011-2012)
- Physically Active Adults (2011-2012)
- Female Breast Cancer Screenings Ages 40+ (2010-2012)
- Colon Cancer Screenings Ages 50+ (2010, 2012)
- Pre-diabetic Adults (2009-2012)
- Adults Controlling High Blood Pressure (2011-2012)
- Diabetic Adults Receiving Diabetes Education (2009-2012)
- Adults Limited By Arthritis (2009-2011)

# Appendix E: Methodology

## *BRFSS Sampling Design*

In the years 2002-2008, the Utah BRFSS telephone sample was disproportionately stratified by Utah's 12 health districts and by phone type (listed and unlisted landline telephone numbers). Rural health districts with a comparatively lower population were sampled at a higher rate than urban health districts with larger populations. This over-sampling of lower population districts allowed for the collection of enough observations to produce reliable estimates within each district.

Beginning in 2009, the BRFSS data included both landline and cell phone respondents, which results in three phone strata. Further enhancements included a new weighting methodology called iterative proportional fitting, or raking. This methodology utilizes additional demographic information (such as education, race, and marital status) in the weighting procedure. Both of these methodology changes were implemented to account for an increased number of U.S. households without landline phones and an under-representation of certain demographic groups that were not well-represented in the sample. More details about these changes can be found at [http://health.utah.gov/oph/publications/brfss/Raking/Raking impact 2011.pdf](http://health.utah.gov/oph/publications/brfss/Raking/Raking%20impact%202011.pdf).

The monthly number of telephone numbers sampled from each health district is routinely tallied to ensure a target number of completed interviews each month in each district. Rural health districts were over-sampled to obtain at least 500 interviews in three years per health district. To facilitate analysis of the Utah BRFSS data by Utah Small Area, a state-added question was included to collect the respondent's ZIP code. Once a residence was successfully contacted, individual respondents were randomly selected from all adults ages 18 and older living in the household. The selected adult, if willing, was then interviewed in accordance with the BRFSS protocol.

## *Data Collection*

Interviews were conducted monthly from the Utah Department of Health (UDOH) Survey Center by professional interviewers employed by the UDOH. The Survey Center uses a computer-assisted telephone interviewing (CATI) system to record respondent answers to the survey directly to a computerized database. The system is programmed to help ensure accurate data entry. The interviews were conducted during daytime and evening hours on weekdays and during daytime hours on Saturday to ensure that selected respondents had ample opportunity to complete the survey. Fifteen attempts were made to reach a phone number at different times of the day and on the weekend. Selected respondents were given the opportunity to schedule a time to be called in order to complete the interview. Interviews are routinely monitored to ensure adherence to strict BRFSS protocol. Monitoring is done electronically so that both the interviewer and respondent can be heard, and the computer screen can be observed to make sure responses are entered correctly without the interviewer being aware that he or she is being monitored. The overall response rate during the period was about 66%.

## *Data Analysis*

### **Sampling error**

The BRFSS data were gathered from a sample of the Utah adult population. Sampling error refers to random variation that occurs because only a subset of the entire population is sampled and used to estimate the finding for the entire population. It is often called "margin of error" in popular use.

### **Non-sampling error**

Sources of non-sampling error include idiosyncratic interpretation of survey questions by respondents, variations in interviewer technique, household and item non-response to questions, and coding errors. Respondents may have the tendency to underreport behaviors that are undesirable, unhealthy, or illegal (e.g., drinking and driving). They may overreport desirable behaviors.

The accuracy of self-reported information is also affected by the ability of respondents to fully recall past behaviors or health screening results. Unit non-response is when the person chosen for the sample refuses to complete the survey. Non-response rates in the BRFSS have increased in recent years. Conversely, overall response rates for the BRFSS have decreased over time. The Utah BRFSS Council of American Survey Research Organizations (CASRO) response rate was 64.6% in 2010. In 2011, the BRFSS switched to calculating American Association for Public Opinion (AAPOR) response rates rather than CASRO rates and the sampling methodology included both landline and cellular telephones. In 2011, the AAPOR response rate was 52.2%.

### **Weighting**

Design weights were constructed to account for differences in the probability of selection (e.g., the number of adults, phones in a household). Iterative proportional fitting (raking) further adjusted the design weights to account for additional demographic information (age by sex, race, education, marital status, home ownership, sex by race, age by race, phone type, health district, age by health district, sex by health district, and race by health district). This new methodology reduced bias and improved estimates.

### **Rate estimates**

Respondents who answered “Don’t know/Not sure” or refused to answer were excluded from the calculation of rate estimates. The SAS® statistical package with SAS-Callable SUDAAN® computer software was used to compute rate estimates (both crude and age-adjusted) and associated 95% confidence intervals using sample weights provided by the CDC. SUDAAN software takes into account the complex BRFSS sample design in calculating unbiased standard errors for the confidence interval calculations.

# Appendix F: Goals and Objectives

# Appendix F: Goals and Objectives

## Strategic Goal Areas, Goals, and Objectives

The goals and objectives in this section are aligned to integrate with current public health programs that focus on chronic diseases, prevention, education, and service delivery.

This section is divided into two parts: overarching infrastructure strategies and strategic goal areas.

### *Overarching Infrastructure Strategies*

There are three overarching infrastructure strategies that are critical to the effective implementation of the goals and objectives listed in this plan. Specific strategies to implement each overarching infrastructure item are found below under, “We will achieve this by:”.

1. Building strong, effective partnerships and coalitions allows for everyone’s voice to be heard during the implementation of this plan. The partnerships and coalitions are the venue by which work will be conducted as this plan is implemented.
2. Addressing health equity across the whole state will ensure that members of high priority populations (e.g., ethnic minority, low income, low education, low socioeconomic-status, senior citizens, children, etc.) are considered during planning and implementation of this plan.
3. Training of partners in current practices in health promotion, chronic disease prevention and management, and injury prevention is crucial to ensure that the best interventions/activities are chosen to accomplish the goals set forth in this plan.

### *Strategic Goal Areas*

Five strategic goals were identified as critical to address chronic disease and injury in Utah (environmental approaches that promote health, health care systems, community clinical linkages, health communications, and data and evaluation). For each of these strategic goals, a vision is offered and specific, measureable goals and short term and intermediate objectives are stated in this section; long term objectives are found in the Priority Public Health Outcomes section.

- Short term objectives are those that address changes in processes.
- Intermediate objectives are those that address changes in the physical and social environment, policy, and systems.
- Long term objectives are those that address changes in health status, e.g., reduced mortality from chronic disease and injury or reduced tobacco use and secondhand smoke exposure.

### *Overarching Infrastructure Strategies*

Vision: State and local partners have the leadership and capacity to address chronic disease, injury, and health promotion. This necessitates collaborative partnerships and coalitions, and a coordinated approach to health equity and professional training.

## ***1. Collaborative Partnerships and Coalitions***

- Strong statewide and local coalitions/partners collaborate with each other and with public health agencies.
- Utah public health departments and partners are engaged and work together.
- The statewide leadership team, Utah Leaders for Health, is used as a key resource for identifying priorities for preventing and managing chronic diseases and injury and promoting health.
- Partners are satisfied with communication across partner organizations.

### ***The partners will achieve this by:***

- Engaging public health departments in the development of statewide planning activities.
- Developing an online contracting process for the state to work with partners.
- Facilitating collaboration and alignment across coalitions and partnerships.
- Developing coordinated approaches to recruit, mobilize, and sustain partners.
- Sharing data and other resources with partners and providing education.
- Facilitating the identification and dissemination of practices (e.g., guidelines, evidence based-practices, etc.) to optimize coalition and partnership efforts.
- Collaborating with partners and coalitions to create and disseminate health messages.

## ***2. Address Health Equity***

- Reduce health inequities associated with chronic disease and injury priorities.

### ***The partners will achieve this by:***

- Reviewing current interventions for opportunities to reduce health inequities.
- Educating partners and policymakers about social determinants of health and health inequities and strategies for addressing those inequities.
- Convening stakeholders (e.g., state and local governments, community partners, and existing coalitions addressing health disparities) to share statewide efforts that address health inequities.

## ***3. Trainings***

- Streamline partner trainings and expand offerings to reflect current practices in health promotion, chronic disease prevention and management, and injury prevention.

### ***The partners will achieve this by:***

- Reviewing current partner trainings to identify overlap and gaps.
- Training partners in current public health trends/measurement systems (e.g., policy analysis, economic impact/cost) and cultural competency.
- Coordinating opportunities that provide continuing education (e.g., Continuing Education Units [CEUs] and Continuing Medical Education [CMEs]).
- Work with academic partners to share public health best practices, policies, and guidelines.

# Appendix F: Goals and Objectives

## Strategic Goal Area 1: Environmental Approaches that Promote Health

*Vision: Create healthful and safe environments where Utahns can thrive.*

### Goal 1: Partners collaborate to support the creation of healthful and safe environments and systems for Utahns.

#### *Short Term Objectives*

- 1.1 By June 30, 2015, publish a statewide agenda addressing systems and environmental change to impact health promotion, chronic disease prevention and management, and injury prevention.
- 1.2 By June 30, 2015, create a process to collect, track, and analyze policies related to systems and environmental changes (e.g., local, state, schools, community, worksites).

#### *Intermediate Term Objectives*

- 1.3 By June 30, 2017, engage partners in implementation of the statewide agenda (see Objective 1.1).
- 1.4 By June 30, 2017, measure the effect of implementing the statewide agenda (see Objective 1.1).

### Goal 2: Support families to create a healthful and safe home environment.

#### *Short Term Objectives*

- 2.1 By June 30, 2014, work with property managers/owners to adopt smoke-free policies in multiple-unit housing.
- 2.2 By June 30, 2014, create a process to educate families to eat healthful meals together.
- 2.3 By June 30, 2014, coordinate efforts to create healthful and safe home environments (e.g., efforts to eliminate asthma triggers, secondhand smoke, radon gas, infant sleep-related deaths, falls).
- 2.4 By June 30, 2014, coordinate efforts to support healthful and safe transportation for families (e.g., smoke-free vehicles, seat belt use, no texting and driving, safe routes to schools, safe public transit, use of public transit or bicycles for short trips).
- 2.5 By June 30, 2014, create a process to address fall prevention and prescription drug safety in the aging population.

#### *Intermediate Term Objectives*

- 2.6 By June 30, 2017, increase the number of Utah multiple-unit housing properties with smoke-free policies by 120 properties.
- 2.7 By June 30, 2017, establish a baseline and annually measure the number of families who eat healthful meals.
- 2.8 By June 30, 2017, decrease environmental home asthma triggers by 10%.
- 2.9 By June 30, 2017, decrease emergency department visits due to injury by 10%.

### **Goal 3: Support schools, and child care providers to create healthful and safe environments for children and staff.**

#### ***Short Term Objectives***

- 3.1 By June 30, 2014, collaborate with child care providers, schools, school partners (such as local pediatricians, Parent-Teacher Associations [PTA], school district wellness councils), and school superintendents to review school-based surveillance data and make recommendations for improving health- and safety-related school policies.
- 3.2 By June 30, 2014, educate and train school district personnel, PTA members, and Utah State Office of Education (USOE) staff regarding new regulations, best practices, and validated interventions to maintain a healthful and safe environment (e.g., healthful food, physical activity, Safe Routes to School, Recess Guidance for Schools, Asthma Action Plan, mental health issues, and student injury reporting).
- 3.3 By June 30, 2014, identify a pilot school district where five to eight components of the Centers for Disease Control and Prevention's (CDC) Coordinated School Health model can be implemented.
- 3.4 By June 30, 2015, identify a system to track school absences due to asthma, diabetes, and injuries that occurred at school.
- 3.5 By June 30, 2014, implement a healthy child care initiative (e.g., TOP Star program or other CDC Early Care and Education programs such as: SPARK; Healthier Child and Adult Care Food Program award; Let's Move!; I am Moving, I am Learning), and Asthma Child Care Training statewide.

#### ***Intermediate Term Objectives***

- 3.6 By June 30, 2016, annually track school absences due to asthma, diabetes, and injuries sustained at school.
- 3.7 By June 30, 2017, measure the environment, policy, and social changes that have occurred in Utah schools.
- 3.8 By June 30, 2017, 100% of local health districts are implementing a healthy child care initiative.
- 3.9 By June 30, 2017, the number of asthma-missed school days has decreased by 10%.
- 3.10 By June 30, 2017, 50% of schools will utilize Asthma Action Plans.

# Appendix F: Goals and Objectives

## **Goal 4: Support healthful and safe communities by working with policy makers.**

### ***Short Term Objectives***

- 4.1 By June 30, 2014, educate and train local and county policy makers on healthful and safe community guidelines (e.g., healthful eating, active living, tobacco-free environments, improved air quality, sun safety, street connectivity, and access to potable drinking water).
- 4.2 By June 30, 2014, work with city planners to influence retail environments to promote healthful behaviors (e.g., prescription drug “take back” programs, menu labeling for fast food restaurants, restricting tobacco product sales near schools, installation of bike racks).
- 4.3 By June 30, 2014, work with the Utah Department of Transportation (UDOT), cities, and municipalities to enhance the safety, access, and perceived safety of communities to improve walkability, bikeability and public transit (e.g., implementing the Utah Bicycle and Pedestrian Master Plan Design Guide, Neighborhood Watch).
- 4.4 By June 30, 2014, work with local governments and businesses to increase availability of and access to safe, affordable, or free recreation opportunities for physical activity.
- 4.5 By June 30, 2014, work with the Utah Department of Agriculture and the Utah State University Extension program to increase availability of fresh fruits and vegetables in communities especially in areas of highest need.
- 4.6 By June 30, 2014, educate persons with asthma and their caregivers about the UDOH Air Quality Index Symptom Tracking System to manage chronic diseases such as asthma.
- 4.7 By June 30, 2014, advocate for local community groups and coalitions to be engaged when state and local initiatives impacting health are reviewed.
- 4.8 By June 30, 2014, key state and local public health policies are documented in Catalyst®.

### ***Intermediate Term Objectives***

- 4.9 By June 30, 2017, use policy data from Catalyst® to identify gaps, needs, and priorities to update policy agendas.
- 4.10 By June 30, 2017, 20 cities or municipalities have implemented policies that support active transportation.
- 4.11 By June 30, 2017, work with local health districts to publish a local guide on free recreation opportunities and sources for fresh fruits and vegetables (e.g., farmers markets, co-op shares, retail stores).
- 4.12 By June 30, 2017, 10 local/county governments have adopted healthful and/or safe community guidelines (e.g., Healthy Communities, injury prevention coalitions).
- 4.13 By June 30, 2017, 50% of Utah counties have community coalitions focused on health and safety.
- 4.14 By June 30, 2017, 10% of people with asthma and caregivers are aware of the UDOH Air Quality Index Symptom Tracking System.

## **Goal 5: Support worksites to create a healthful and safe environment.**

### ***Short Term Objectives***

- 5.1 By June 30, 2014, implement a process to educate employers about the Affordable Care Act, including identification of new coverage for prevention of chronic diseases, health promotion, mental health parity, and worksite wellness (e.g., breastfeeding, physical activity, healthy eating, tobacco cessation, mental health, utilization of Employee Assistance Program services).
- 5.2 By June 30, 2014, develop a process to assess mental health resources available for employees at worksites.

### ***Intermediate Term Objectives***

- 5.3 By June 30, 2017, educate/train 100 employers about the Affordable Care Act.
- 5.4 By June 30, 2017, increase the number of worksites that encourage employees to use evidence-based clinical preventive services by 25%.
- 5.5 By June 30, 2017, increase the number of worksites with tobacco-free policies by 50 worksites.
- 5.6 By June 30, 2017, increase the number of worksites supporting opportunities for employees to be physically active by 25% (e.g. walking trails including marking and mapping local sidewalks, bike racks, on-site fitness rooms that include family access, showers for cyclists/walkers, flex-time policies, stairwell use, partnering with local fitness facilities, corporate public transit pass programs).
- 5.7 By June 30, 2017, 25% of worksites support opportunities for employees to eat healthfully (e.g., healthy choices are identified in the cafeteria and vending machines, a refrigerator is available for packed lunches, and fresh fruits and vegetables are available at the worksite).
- 5.8 By June 30, 2017, increase the number of worksites with policies supporting breastfeeding in the workplace by 25 percent.

# Appendix F: Goals and Objectives

## Strategic Goal Area 2: Health Care Systems

*Vision: Health care practices to prevent and manage chronic diseases and injuries are available to all Utahns.*

**Goal 1: There is a systematic approach to support health systems and professionals in achieving quality of care outcomes and health equity for the prevention, detection, and treatment of asthma, hypertension, hyperlipidemia, diabetes, cancer, obesity, arthritis, injury, and tobacco use.**

### *Short Term Objectives*

- 1.1 By June 30, 2014, develop shared goals and priorities with health care partners (e.g., Medicaid, Association for Utah Community Health, HealthInsight, Intermountain Healthcare, and University of Utah, Health Plan Partnership) regarding quality of care outcomes and improving health equity.
- 1.2 By June 30, 2015, create a pilot with multiple health systems and public health to improve care coordination.
- 1.3 By June 30, 2015, create a process to make recommendations for health care systems to use electronic health records for chronic disease prevention and management and injury prevention.
- 1.4 By June 30, 2015, create a process to support health care systems the meaningful use of electronic records.
- 1.5 By June 30, 2015, create a process for coordinating and promoting trainings for providers about current guidelines and referrals for chronic disease prevention and management and injury prevention.
- 1.6 By June 30, 2015, educate health care systems and providers on the use of community health workers to help patients access health care services and community of resources.
- 1.7 By June 30, 2015, identify opportunities to link health care systems to community health workers (e.g. information in electronic health records, searchable website).
- 1.8 By June 30, 2015, identify screening tools for mental health which health care providers can utilize.

### *Intermediate Term Objectives*

- 1.9 By June 30, 2017, increase the reach of the implemented national health care system innovation, and other identified measures by 10%.
- 1.10 By June 30, 2017, increase the number of health systems that use team-based care to prevent and manage chronic diseases by 10%.
- 1.11 By June 30, 2017, increase the percentage of health system partners submitting chronic disease and injury outcome data by 10%.
- 1.12 By June 30, 2017, increase the number of health systems using electronic health records to treat and prevent chronic diseases by 10%.
- 1.13 By June 30, 2017, track referrals and reimbursement for evidence-based programs in communities and identified priority areas/populations.
- 1.14 By June 30, 2017, implement the system identified above to link health care systems to community health workers.
- 1.15 By June 30, 2017, increase the percentage of health care providers who are trained in the use of mental health screening tools by 10%.

## Strategic Goal Area 3: Community Clinical Linkages

*Vision: There is a link between health care and community organizations to deliver evidence-based programs to prevent chronic diseases and injuries and improve management of chronic diseases, especially in high priority populations.*

**Goal 1: State, local, and community organizations provide evidence-based programs (e.g., Diabetes Self-management Education [DSME], Chronic Disease-self Management Programs [CDSMP], Green and Healthy Homes, and Question, Persuade, and Refer [QPR] suicide risk screening) in local communities.**

### *Short Term Objectives*

- 1.1 By June 30, 2014, identify gaps in and opportunities for internal and external partners to improve community clinical linkages in the general and high priority populations.
- 1.2 By June 30, 2014, create a process to educate health care providers and health care extenders on evidence-based programs available in their communities and how they can help their patients.
- 1.3 By June 30, 2014, create a process to support the effective and efficient use of evidence-based Chronic Disease Self-management Programs (e.g., Living Well with Chronic Conditions, New Leaf: Choices for Healthy Living, and Question, Persuade and Refer).
- 1.4 By June 30, 2015, create a process to educate health care system administrators and providers about community programs and the benefits of using their services. Create a listing of community programs/resources.
- 1.5 By June 30, 2014, create a process to measure access, referrals, patient satisfaction and reimbursement for evidence-based programs in communities and identify priority areas/populations.

### *Intermediate Term Objectives*

- 1.6 By June 30, 2017, increase the number of Utahns who participate in and complete evidence-based programs in the community by 10%.
- 1.7 By June 30, 2017, increase the number of chronic disease identification and management trainings provided to health care extender associations from 0 to 3 trainings.
- 1.8 By June 30, 2017, increase the number of evidence-based chronic disease self-management workshops to 720 workshops and injury prevention programs to 50 programs.
- 1.9 By June 30, 2017, measure the reach of evidence-based programs in general and high priority populations.
- 1.10 By June 30, 2017, track access, patient satisfaction, and reimbursement for evidence-based programs in communities and identified priority areas/populations.

# Appendix F: Goals and Objectives

**Goal 2: Create and maintain partnerships that link health care, public health, health clinics, community health workers, health extenders, and community organizations and build capacity to provide evidence-based programs in local communities.**

## *Short Term Objectives*

- 2.1 By June 30, 2014, collaborate with partners to create a process to identify and address training needs for community health workers and health care extenders in Utah.
- 2.2 By June 30, 2015, work with partners to establish a statewide community health worker association.
- 2.3 By June 30, 2015, identify possible funding sources to compensate community health workers.
- 2.4 By June 30, 2015, create a process to educate health care providers about community health workers and health extenders, and the benefits of using their services.
- 2.5 By June 30, 2015, a current coalition (or new coalition) will meet routinely to discuss how to effectively link clinicians with community resources and how to use community health workers (community health worker coalition).

## *Intermediate objectives*

- 2.6 By June 30, 2016, increase the proportion of identified training needs that are addressed through the Utah Community Health Worker Association.
- 2.7 By June 30, 2017, increase the number of trained community health workers who are working in the state by 10%.
- 2.8 By June 30, 2017, establish training standards for the community health workers association.
- 2.9 By June 30, 2017, collect and distribute statewide examples describing how health care providers and community health workers are working together.
- 2.10 By June 30, 2017, the community health worker coalition routinely reports to both health care providers and community health workers about the work of the coalition.

## Strategic Goal Area 4: Health Communications

*Vision: Utahns know about health screening recommendations, health promotion, chronic disease prevention and management, and injury prevention.*

**Goal 1: There is a systematic approach to educating the public about the prevention, early detection, and management of chronic diseases and injury.**

### ***Short Term Objectives***

- 1.1 By June 30, 2014, create a process to increase the capacity for social marketing and health communications.
- 1.2 By June 30, 2014, create a tool to capture and share stories of health promotion in Utah.
- 1.3 By June 30, 2014, create coordinated messaging to increase public awareness about the US Preventive Services Task Force recommended screenings available through the Affordable Care Act.
- 1.4 By June 30, 2014, create a process to utilize the Health Resource Center at the Utah Department of Health to track and evaluate health information and/or campaigns.
- 1.5 By June 30, 2014, create a process to develop and assess/evaluate multi-purpose media campaigns.
- 1.6 By June 30, 2014, develop and implement a statewide communications plan that effectively uses social marketing and health communication strategies to effect behavior change.
- 1.7 By June 30, 2014, create coordinated messaging to raise awareness of the importance of chronic disease, health promotion, and injury among policy makers.
- 1.8 By June 30, 2014, in partnership with the BHP Data and Evaluation Workgroup, develop a process to market coordinated data reports to targeted audiences.

### ***Intermediate Term Objectives***

- 1.9 By June 30, 2017, 60% of the public is aware of services available to manage chronic diseases and injury prevention (e.g., chronic disease self-management classes, the Tobacco Quit Line and violence and injury hotlines).
- 1.10 By June 30, 2017, 10% of the public is aware of recommended screenings available through the Affordable Care Act.
- 1.11 By June 30, 2017, health messages for policy makers are aligned with current policy agendas for partners/coalitions to promote the prevention, early detection, and management of chronic diseases and injury.

# Appendix F: Goals and Objectives

## Strategic Goal Area 5: Data and Evaluation

*Vision: Coordinated surveillance and evaluation activities are routinely conducted; results are published and used to optimize local and statewide public health activities.*

**Goal 1: The Bureau of Health Promotion (BHP) within the Utah Department of Health (UDOH) collaborates with partners to systematically conduct surveillance and evaluate local and statewide programs/interventions and promote the use of data for intervention planning.**

### *Short Term Objectives*

- 1.1 By June 30, 2014, a process is developed to support the Office of Public Health Assessment (OPHA), including development of data sets, updating of the Indicator-Based Information System for Public Health (IBIS-PH) indicators, and collaborating to improve the usability of IBIS-PH.
- 1.2 By June 30, 2014, a process is developed to work with OPHA to educate partners on using and interpreting IBIS data.
- 1.3 By June 30, 2014, a process is established to share social determinants of health data, including Adverse Childhood Experiences, with relevant organizations (e.g., housing authority, food bank, and advocacy groups).
- 1.4 By June 30, 2014, data from the BHP Surveillance Plan are used to inform surveillance priorities and to coordinate state-added questions on health surveys (i.e., BRFSS, YRBS, PNA, and Profiles surveys).
- 1.5 By June 30, 2015, a clinical data set that reflects the Plan priorities is established.
- 1.6 By June 30, 2014, develop a process to market strategic releases of coordinated data reports to targeted audiences, in partnership with the BHP Health Communications Workgroup.

### *Intermediate Term Objectives*

- 1.7 By June 30, 2017, chronic disease and injury prevention data are routinely accessed and used by partners for planning of coordinated interventions.

**Goal 2: Document progress of the Statewide Comprehensive Chronic Disease and Health Promotion State Plan objectives and use evaluation results to update the Plan.**

### *Short Term Objectives*

- 2.1 By June 30, 2014, evaluation results are routinely used to refine and adapt the State Plan to engage partners in implementation, to ensure that the interventions are culturally and linguistically appropriate for target populations, and to justify resource allocation.
- 2.2 By June 30, 2014, a process is developed to systematically report progress on the implementation of the State Plan to stakeholders and decision makers.
- 2.3 By June 30, 2014, develop and implement a process to provide data, expertise, and technical assistance to BHP and partners to support implementation of the State Plan.

### *Intermediate Term Objectives*

- 2.4 By June 30, 2015, progress on the State Plan is systematically reported to stakeholders and decision-makers.
- 2.5 By June 30, 2016, the State Plan is updated to reflect evaluation results and changes in inputs and activities.

## Measuring Progress

Progress will be measured through implementation of Strategic Goal Area 5: Data and Evaluation. This goal area will document process and outcome evaluation that will be used to assess activities and interventions initiated as a result of this plan.

## Evaluation

Evaluation is generally categorized into process or outcome evaluation. The purpose of process evaluation is to measure change in the level of effort or activity; the purpose of outcome evaluation is to measure changes that have occurred, accomplishments that have been achieved, and needs that have been met. Within the context of this plan, process evaluation will be used to evaluate current and future processes and organizations. Programs and interventions will be evaluated using either or both processes and outcome evaluation, depending on what is appropriate.

An evaluation plan for the implementation of this Utah Chronic Disease Prevention and Health Promotion Plan is contained in a separate document. The primary targets for outcome evaluation are listed below.

## State Plan Intervention Outcomes

Increased state, community, worksite, school, and early care education environments that promote and reinforce healthy behaviors and practices across the lifespan.

Improved quality, effective delivery, and use of clinical and other preventive services to promote health and prevent chronic disease and injury.

Increased community-clinical linkages to support prevention, self-management, and control of chronic disease and injury.

## Continuous Process Improvement

As the current plan is implemented, there will be time points when process evaluations will be conducted to identify potential areas for improvement. These evaluations could focus on partner relations, intervention processes and outcomes, and other topics that become relevant to the implementation of this plan. Information from these evaluations will be used to continuously improve the implementation of this plan.

## Communicating Results

The communication plan, found in Appendix 2, details how evaluation, surveillance, and epidemiology data will be shared with partners and the general population of Utah. Additionally, there is a section describing how this plan will be shared with partners and the general population.

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