

Lancaster County Community Health Needs Assessment 2015

Overview of the Lancaster Community

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Table of Contents

Overview and Methods

Data Sources	1
Community Priorities	1

Community Health Needs

Behavioral Risk Factor Survey	2
Residents Affected	4
Health Risks and Disability-Adjusted Life Years	5
Correlates of Obesity and Depression	7
Health Disparities	9
Social Determinates of Health	11
Relative County Health Rankings	12

Appendices

Appendix A: Description of Data Sources	A1
Appendix B: Marginal Frequency Report: Behavioral Risk Factor Survey	B1
Appendix C: Definitions of Selected Terms	C1
Appendix D: Data Tables	D1
Appendix E: Logistic Regression Analyses	E1
Appendix F: Social Determinants Mapping	F1

Tables and Figures

Table 1. Summary of Health Indicators, BRFSS	3
Figure 1. Total Adult Residents Reporting Condition, Lancaster County 2015	4
Table 2. Rates of Major Causes of Death and Disability	5
Figure 2. Behavioral Health Risks, Lancaster County Compared to US/PA Estimates	6
Figure 3. Logistic Regression Results for Current Depression, Lancaster County	8
Figure 4. Health Indicators by Selected Demographic Groups, Lancaster County	10
Figure 5. Social Determinants Analysis of Health for Lancaster County	11
Figure 6. Relative Health Rankings for Lancaster County	12
Table 3. Relative County Ranks on County Health Rankings Outcomes/Factors	13

Overview and Methods

This document provides an overview of findings from a community health needs assessment conducted on behalf of WellSpan Health. The assessment uses information from primary and secondary sources to identify health issues of consequence to the community. Estimates are presented for selected demographic and health indicators, including access to healthcare, health-related behavioral risks, and prevention behaviors and context. Appendix A contains a description of the data sources used for the assessment. Appendix B contains the questions respondents were asked for the northern Lancaster Behavioral Risk Factor Survey. Appendix C provides definitions of selected terms. Appendix D contains all data tables. Appendix E shows the results of multivariate analyses predicting obesity and current depression. Appendix F contains maps that display the locations of health facilities, parks, fast food restaurants, and grocery stores in terms of census indicators related to social determinants of health.

Data Sources

The information presented in this summary comes from one of three sources. The primary source of comparative health information is provided by the Robert Wood Johnson Foundation County Health Rankings. These rankings provide county-level information on health factors and health outcomes. The performance of individual counties are compared to other Pennsylvania counties to provide a relative performance ranking.

The primary source of local, current information comes from a Community Health Needs Assessment (CHNA) survey. The CHNA survey information is based on a behavioral risk factor survey of 729 adult residents of northern Lancaster County. The survey interviewing took place from February 23 through May 5, 2015. The survey sample was designed to be representative of the adult, non-institutionalized population of northern Lancaster County.

The third source of data comes from the Pennsylvania Department of Health, which is accessed via the EPI QMS data retrieval system.

Community Priorities

This CHNA identifies community health needs based on the prevalence of health risks and health disparities. It focuses specifically on health risks that contribute to non-communicable disease that are among the leading causes of death and disability with some emphasis on how these risk factors are unevenly distributed across demographic groups. This approach shows the most significant health risks in Lancaster County relate to obesity, including obesity-related behaviors such as diet and exercise, and mental health in terms of both the number of people affected and the amount of death and disability each creates.

Reviewing the overall data shows that access indicators for northern Lancaster County is generally favorable, with most residents reporting they have health care coverage, a personal physician, and most also reporting they have visited a doctor or dentist in the past year. However, only about half of residents have dental insurance. Still, about one fourth of residents had some economic hardships and around one in fifteen skipped medical treatment due to cost in the past year. Behavioral risk indicators show that few residents exercise regularly and even fewer eat three servings of vegetables every day. They also show that about one in eight residents is a current smoker and that around two in three are overweight or obese. Rates of health conditions such as diabetes, heart conditions, breathing conditions and cancer are not comparatively high, but a plurality of residents have high cholesterol and high blood pressure and one in six has been diagnosed with either an anxiety or depressive disorder. Finally, one in two residents exhibited some depressive symptoms, one in three says their normal activities have been limited by their health, and about one in six has limited health literacy.

In northern Lancaster County, more than 90,000 adults did not consume three vegetables each day, had not exercised 30 minutes or more on five days in the week preceding the survey, and more than 65,000 were overweight or obese.

There are notable health disparities within northern Lancaster County, with age and poverty frequently showing differences between groups. Older residents are more likely to have better access to healthcare and have better rates on most prevention-related indicators. However, they are also more likely to have specific health conditions. Younger residents are more likely to have better rates for behavioral indicators, notably for overweight and obesity as well as physical activity. Poverty is also significantly associated with differential outcomes related to access, health conditions and prevention-related behaviors. Low-income or poor residents are more likely to have poor access to healthcare as well as circulatory conditions,

diabetes, mental health problems and money concerns. Race and ethnicity is also significantly associated with differential outcomes related to access and prevention behaviors.

A deeper look into the predictors of obesity and depression finds there are differences between demographic groups' likelihood of experiencing a state of poor physical and mental health, particularly related to poverty status. Yet, although some groups are significantly more likely to experience these conditions, it is also true that these conditions are found in all demographic and geographic communities.

Finally, although not direct measures of health, specific contextual factors that influence health and well-being appear as significant issues for the county. Lancaster receives its poorest relative county ranking for its physical environment, which includes poor air quality and problems related to housing and transportation.

Behavioral Risk Factor Survey

The Behavioral Health Risk Factor survey allows us to review a variety of health indicators specific to the county. These indicators fall into the broad categories of health care access, behavioral risk, health conditions, prevention behaviors and context. Altogether, these indicators show that poor diet, lack of physical activity, obesity, and mental health concerns affect a majority of residents in Lancaster County.

Access indicators for northern Lancaster County are generally favorable, with most residents reporting they have health care coverage, a personal physician, and most also reporting they have visited a doctor or dentist in the past year. However, only about half of residents have dental insurance (see Table 1). Still, about one fourth of residents had some economic hardships and around one in fifteen skipped medical treatment due to cost in the past year. Behavioral risk indicators show that few residents exercise regularly and even fewer eat three servings of vegetables every day. They also show that about one in eight residents is a current smoker and that

around two in three are overweight or obese.ⁱ Rates of health conditions such as diabetes, heart conditions, breathing conditions and cancer are not comparatively high, but a plurality of residents have high cholesterol and high blood pressure and one in six has been diagnosed with either an anxiety or a depressive disorder. Finally, one in two residents exhibited some depressive symptoms, one in three say their normal activities have been limited by their health, and about one in six has limited health literacy.

Table 1. Summary of Health Indicators, Northern Lancaster County, BFRSS

<i>Access Indicators</i>	2015
Has a personal physician	90%
Has health care coverage	88%
Has dental insurance	52%
Economic hardships (one or more)	24%
Did not receive health care in past year because of cost	6%
<i>Behavioral Risk Indicators</i>	
Participated in physical activities or exercise in past month	76%
Body Mass Index Category (overweight and obese)	66%
Strength training in past month	44%
Exercised 30 minutes on five days in past week	13%
Smoking behavior (regular smoker)	12%
Binge drinking behavior	8%
Consumed three servings of vegetables daily	4%
<i>Conditions</i>	
Has high cholesterol	38%
Has high blood pressure	33%
Has an anxiety disorder	16%
Has a depressive disorder	16%
Has ever had cancer	11%
Respondent is diabetic	10%
Told has heart disease, heart attack, or stroke	10%
Has asthma	7%
Ever had COPD, emphysema, or chronic bronchitis	5%
PHQ-8 current depression indicator-currently depressed	4%
<i>Prevention Behaviors and Context</i>	
Gets needed social and emotional support	93%
Visited dentist in past year	75%
Has ever had blood cholesterol checked	74%
Visited doctor for routine checkup in year	67%
One or more days with depressive symptoms in past two weeks	49%
At least one day physical health was not good in past month	36%
Poor health limited participation in normal activities in past month	35%
At least one day mental health was not good in past month	34%
Limited health literacy	15%
Stressed about paying rent or mortgage	15%

Residents Affected

The estimates produced by the Behavioral Risk Factor survey provide a tool for translating the proportion of citizens with a specific characteristic into an estimate of the number of adult residents with that characteristic. In aggregate terms, diet, exercise, obesity, and mental health issues affect large numbers of northern Lancaster county residents. In this part of Lancaster

County, more than 90,000 adults did not consume three vegetables each day, had not exercised 30 minutes or more on five days in the week preceding the survey, and more than 65,000 were overweight or obese; more than 60,000 had no strength training in the past month, and experienced one or more depressive symptoms in the two weeks preceding the survey (Figure 1).

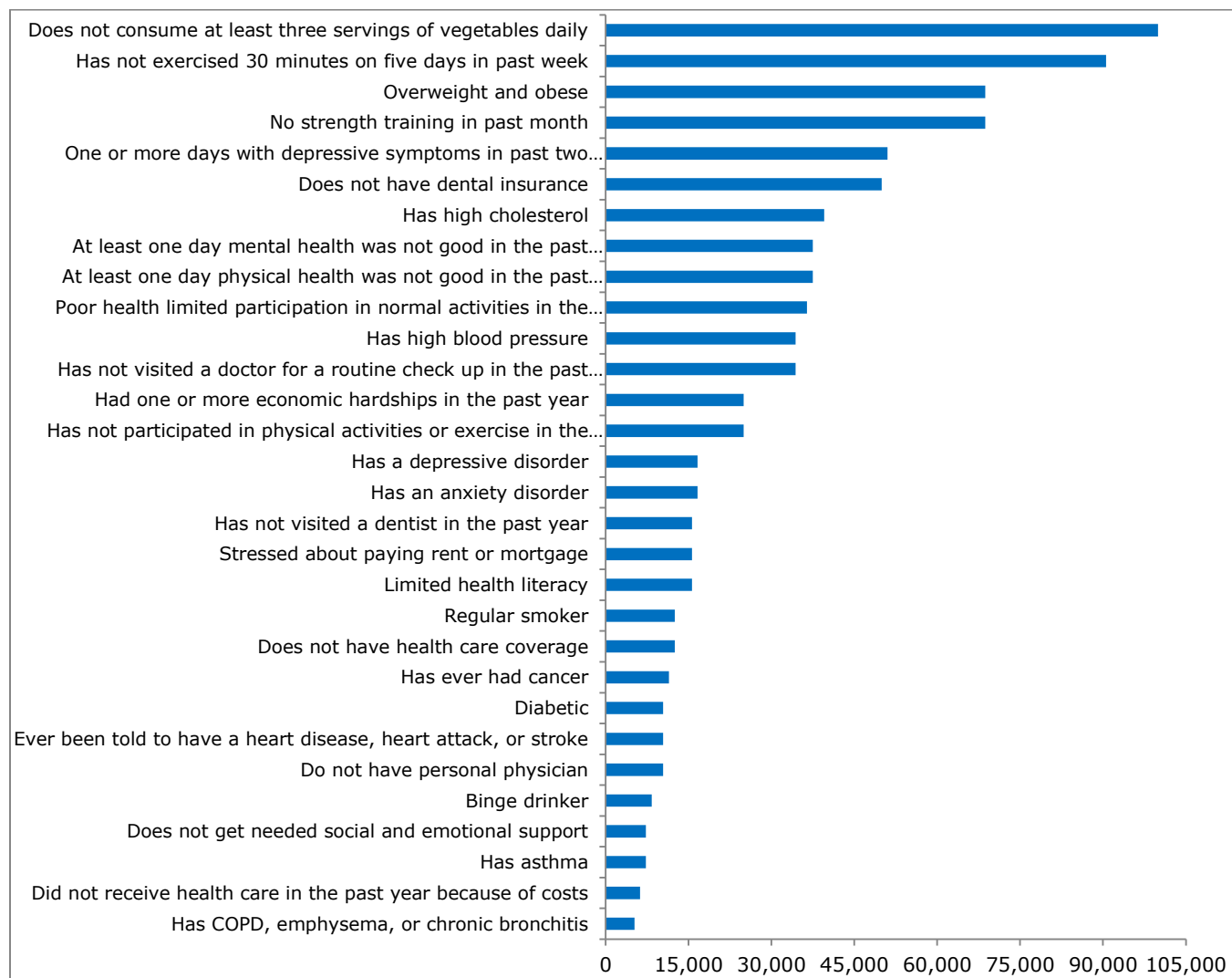


Figure 1. Total Adult Residents Reporting Condition, Northern Lancaster County 2015. The blue bars provide estimates of the adult population in 2015 that reported each behavior, condition, or experience. In northern Lancaster County, more than 90,000 adults did not consume three vegetables each day, had not exercised 30 minutes or more on five days in the week preceding the survey, and more than 65,000 were overweight or obese. The estimated error for these estimates is $\pm 4,581$ adults. (Total number of adult residents in northern Lancaster County: 2015=104,108).

Health Risks and Disability-Adjusted Life Years

Long-term health risk and disability can be quantified by calculating disability-adjusted life years. Disability-adjusted life years (DALYs) calculations provide an estimate of the burden of disease by assessing premature mortality and disability, thus providing an overall view of the most important contributors to health loss. In the

United States, the leading causes of DALYs were all non-communicable diseases: heart disease, COPD, lung cancer, and major depressive disorders.ⁱⁱ The rates of these major causes of death and disability for Lancaster County and Pennsylvania are shown in Table 2.

Table 2. Rates of Major Causes of Death and Disability

	Lancaster	Pennsylvania
Heart Disease	6%	7%
COPD	7%	7%
Lung Cancer	< 1%	< 1%
Depressive Disorder	19%	18%

Source: 2011 – 2013 BRFSS and 2012 lung cancer incidence both accessed from EPI-QMS

The disability-adjusted life years estimates might encourage a focus on these conditions, but such efforts would emphasize treatment and not causes; focusing on these conditions alone would do little to reduce lives lost and disability within a community. Instead, a public health focus on reducing DALY's encourages the prevention of disease instead of its treatment. Even though the specific conditions affect a small segment of the population, the risk factors that account for the most disease burden in the United States are dietary risks, smoking, and high BMI. Each contributes to cancer, cardiovascular and circulatory disorders, chronic respiratory diseases, and diabetes.ⁱⁱⁱ

Chronic, non-communicable diseases pose a tremendous health burden throughout the world and within Lancaster County.^{iv} The estimates for the county for smoking, drinking, diabetes, hypertension, high cholesterol, physical activity, nutrition and weight are similar to other Pennsylvania counties, but even though these health conditions and behaviors are not out of line with other counties in the state, many residents are exposed to significant long-term risk because of them (Figure 2).

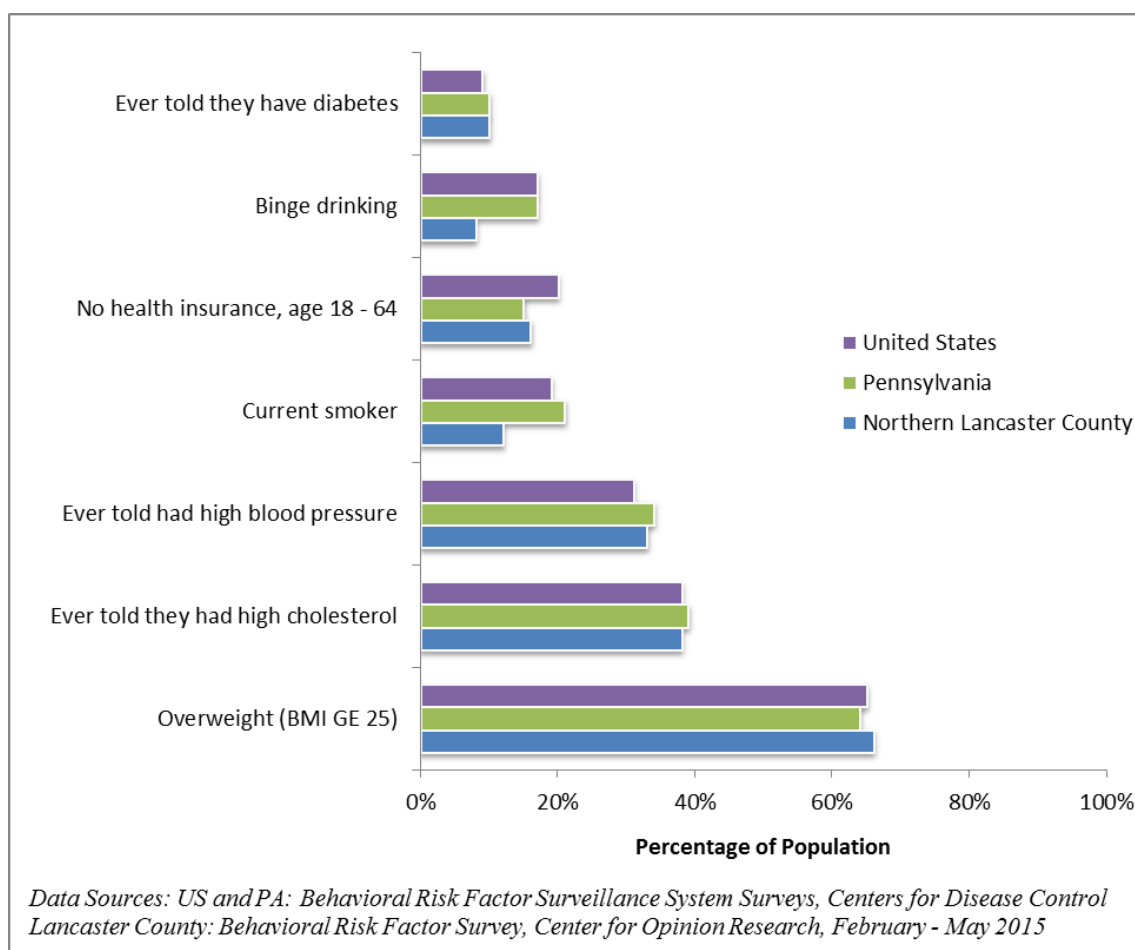


Figure 2. Behavioral Health Risks, Northern Lancaster County 2015 Compared to US and PA Estimates. This figure compares the prevalence of health risks in Lancaster County compared to the United States and Pennsylvania. Although the county has rates similar to the state and nation, the rates for smoking, health insurance access, and obesity do not meet health targets set by the Centers for Disease Control.

Correlates of Obesity and Depression

Local indicator data highlights both obesity and mental well-being as important indicators of community health. Is it possible to learn something from those experiencing these conditions that can help inform community health planning? What substantive information does the survey provide about individuals that suffer from these problems that can guide our thinking about future strategies for addressing these problems?

Nearly one in three residents of northern Lancaster County is obese (29%). The likelihood of being obese differs a great deal depending on the number of health conditions someone has, other things being equal. Being diabetic, having asthma, and being depressed each increases the likelihood that a respondent is obese, accounting for demographic characteristics. Unfortunately, the model itself does a relatively poor job of predicting who is obese

from the observed data (see Appendix E for a more detailed explanation of this analysis).

Nearly half (49%) of northern Lancaster County residents have had at least some depressive symptoms in the two weeks prior to the survey.^v If we measure “current depression” we find that about 4% of adults were suffering from depression at the time of the survey. The likelihood of being currently depressed changes with variables such as poverty status.

Figure 3 displays the relationships between diabetes, asthma, and depression on obesity, accounting for other variables. This figure shows there are sizable differences in the likelihood of being obese and that people with chronic health conditions are particularly at-risk. Unfortunately, the model does a relatively poor job of predicting who is obese from the observed data (see Appendix E for more details about this analysis).

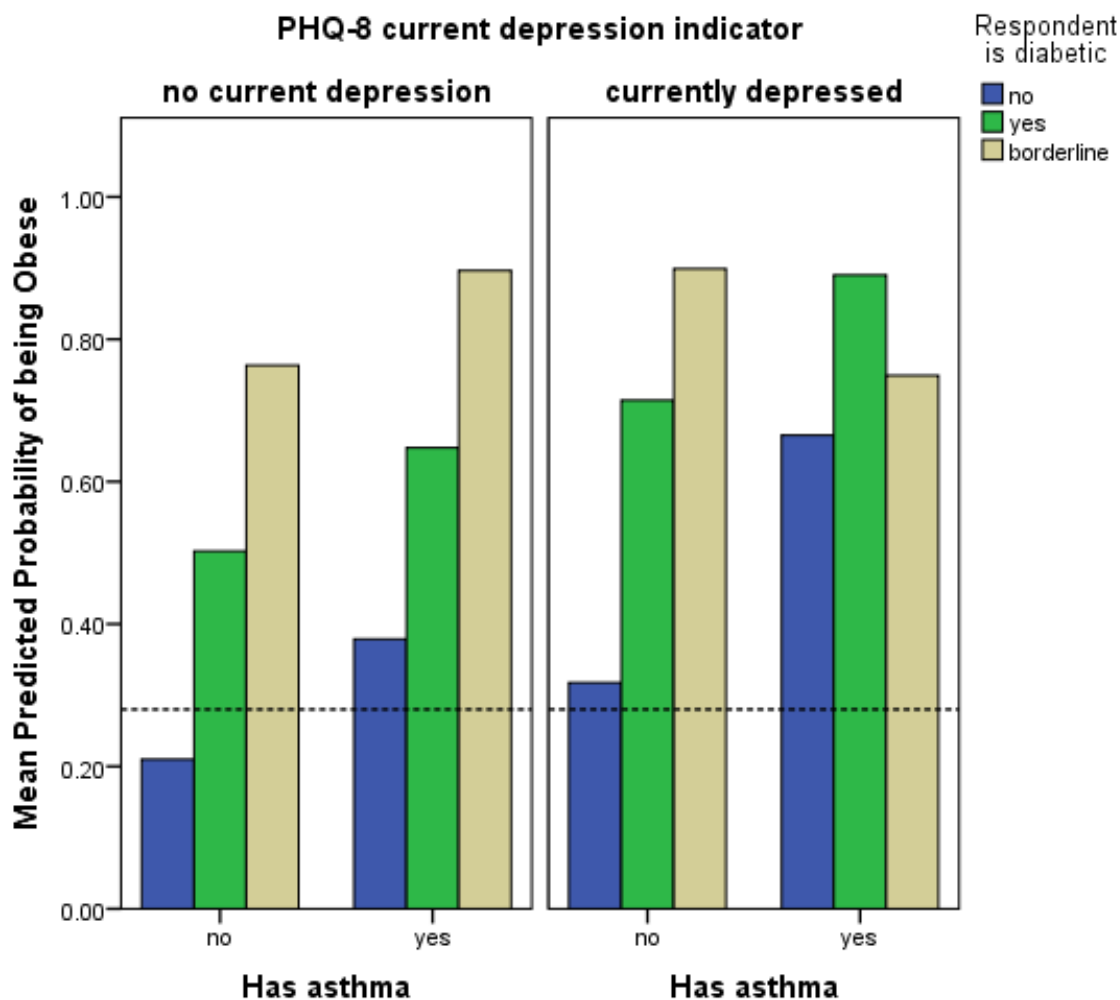


Figure 3. Logistic Regression Results for Current Depression, Northern Lancaster County, Pennsylvania, 2015. This figure shows the mean predicted probability of being obese as measured by current depression, asthma, and diabetes.

This analysis of depression and obesity reveals two important findings worth noting. First, there are differences between various health conditions and their likelihood of predisposing an individual to being obese – specifically, being depressed, having asthma, and having diabetes.

Second, although some comorbidity occurs between certain health conditions and obesity, it is also true that these conditions are found in all individuals, a contention supported by the large amount of unexplained variation in these models.

Health Disparities

The CHNA identifies the presence of numerous health disparities, i.e., gaps in access, conditions, or behaviors that are larger for some demographic groups than for others. The area's health disparities, generally speaking, show clear patterns. First, poverty is significantly associated with differential outcomes related to access, conditions, and prevention behaviors. Second, age is significantly associated with differential outcomes related to all indicator groups. Race and ethnicity is also significantly associated with differential outcomes related to access and prevention behaviors.

Figure 4 displays the relationships that exist between each survey indicator and demographic information such as poverty status, race and ethnicity, gender, and age (Appendix D provides cross tabulations that show the estimate of each indicator within each subgroup). The color coding identifies whether there is a significant relationship between each indicator and each demographic subgroup and how strong those differences are; the darkest coloring indicates the strongest associations.^{vi}

Results of Significance Testing for Selected Variables Northern Lancaster County Community Health Assessment Survey				
	Poverty	Demographic Groups		
		Race/Eth	Gender	Age
Access Indicators				
Has health care coverage				
Has a personal physician				
Did not receive health care in past year because of cost				
Has dental insurance				
Economic hardships				
Behavioral Indicators				
Participated in physical activities or exercise in past month				
Exercised 30 minutes on five days in past week				
Strength training in past month				
Smoking behavior				
Body Mass Index Category (overweight and obese)				
Binge drinking behavior				
Consumed three servings of vegetables daily				
Conditions				
Respondent is diabetic				
Told has heart disease, heart attack, or stroke				
Has COPD, emphysema, or chronic bronchitis				
Has high cholesterol				
Has high blood pressure				
Has asthma				
Has ever had cancer				
Has an anxiety disorder				
Has a depressive disorder				
PHQ-8 current depression indicator-currently depressed				
Prevention Behaviors				
At least one day physical health was not good in past month				
At least one day mental health was not good in past month				
Poor health limited participation in normal activities in past month				
Visited doctor for routine checkup in past year				
Health Literacy Score				
Visited dentist in past year				
Has ever had blood cholesterol checked				
Gets needed social and emotional support				
Days with depressive symptoms				
Stressed about paying rent or mortgage				
No significant difference	p. > .05			
Significantly different, weak association	p. < .05, sresid < 3			
Significantly different, moderate association	p. < .05, sresid > 3			
Significantly different, strong association	p. < .05, sresid > 4			

Figure 4. Health Indicators by Selected Demographic Groups, Northern Lancaster County, 2015.

This figure displays the relationships between each survey indicator and poverty status, race and ethnicity, gender, and age. The color coding identifies whether there is a significant relationship between each indicator and each demographic subgroup and how strong those differences are; the darkest coloring indicates the strongest associations.

Health disparity analysis identifies those demographic characteristics that are more often associated with poor health behaviors and conditions. Because these demographic disparities are often geographically concentrated, public health researchers have begun to focus on the characteristics of place and geography through social determinants analysis as a way to more effectively target public health interventions. Social determinants analysis attempts to geographically describe the physical environments where people live and work that can contribute to health outcomes and risks.^{vii} Social determinants research highlighting the importance of poverty, residential segregation, stigma and discrimination, incarceration, and educational attainment on health outcomes provides a deeper understanding of the complex social and structural determinants of health and pinpoints additional opportunities for enhancing prevention and control efforts.^{viii}

Social determinants analysis was conducted for each block group in Lancaster County. The scoring for the social determinants mapping is based on five factors: poverty, educational attainment, occupied housing units, employment, and race and ethnicity. Higher scores indicate that a block group has stronger social characteristics.^{ix} Lancaster has 3 block groups that score an A (1%), 150 block groups that score a B (46%), 134 block groups that score a C (41%), 24 block groups that score a D (7%), and 15 block groups that score an F (5% of the 326 block groups in the county). These maps show that many areas within the county have social and economic characteristics that increase the risk of poor health, although northern Lancaster County has fewer at-risk blocks than other parts of the county (Figure 5). Appendix F provides additional maps that show the locations of health infrastructure in the county.

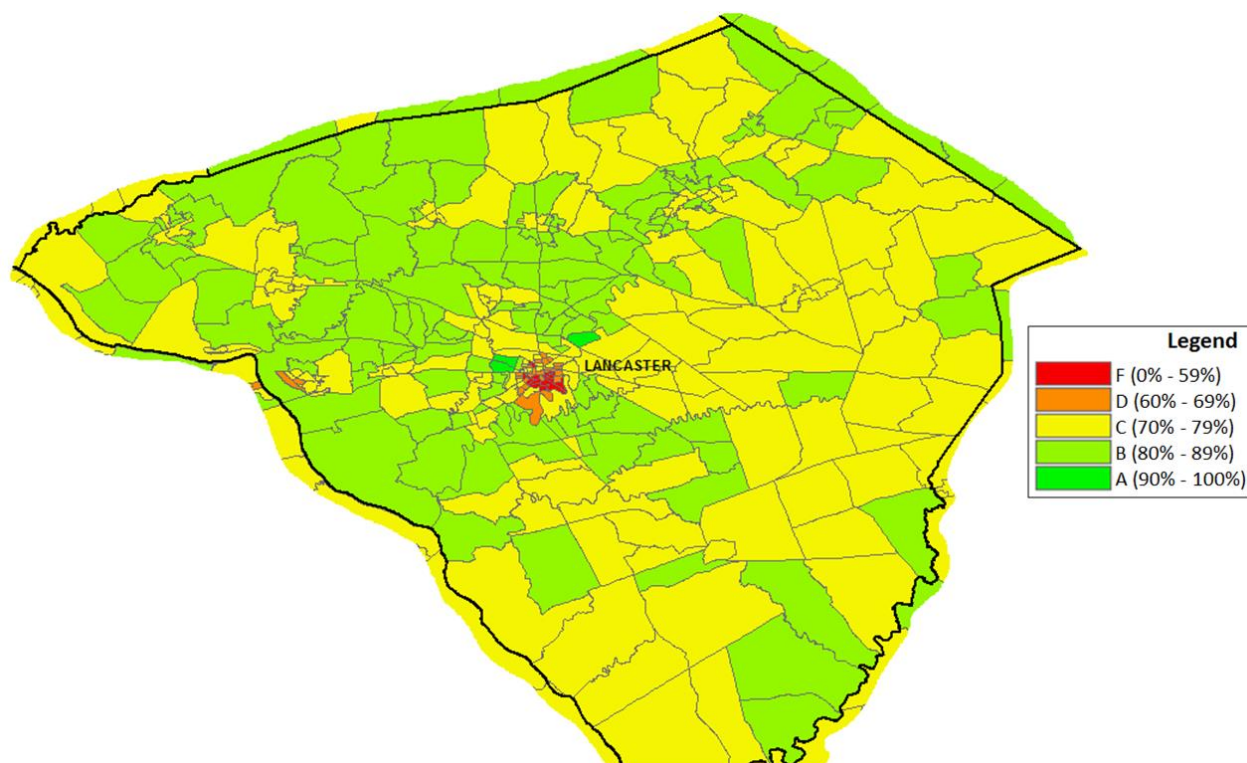


Figure 5. Social Determinants Analysis of Health for Lancaster County. *This figure displays the social determinants scores for each census tract in Lancaster County. Higher scores indicate that a census tract has stronger social characteristics. Lancaster has three block groups that score an A. Lancaster has 24 block groups that rate a D and 15 that rate an F. Calculations by the Center for Opinion Research based on American Community Survey data.*

Relative Health Rankings

Lancaster County ranks 8 out of 67 counties in health outcomes and 9 out of 67 counties in health factors, according to county health rankings data.^x Compared to other counties in the state, Lancaster shows high rates of uninsured individuals, severe housing problems, and particulate matter which

indicates poor air quality (Figure 6). Lancaster does relatively well on having low rates of physical inactivity, preventable hospital stays, smoking, unemployment, and children in single parent households.

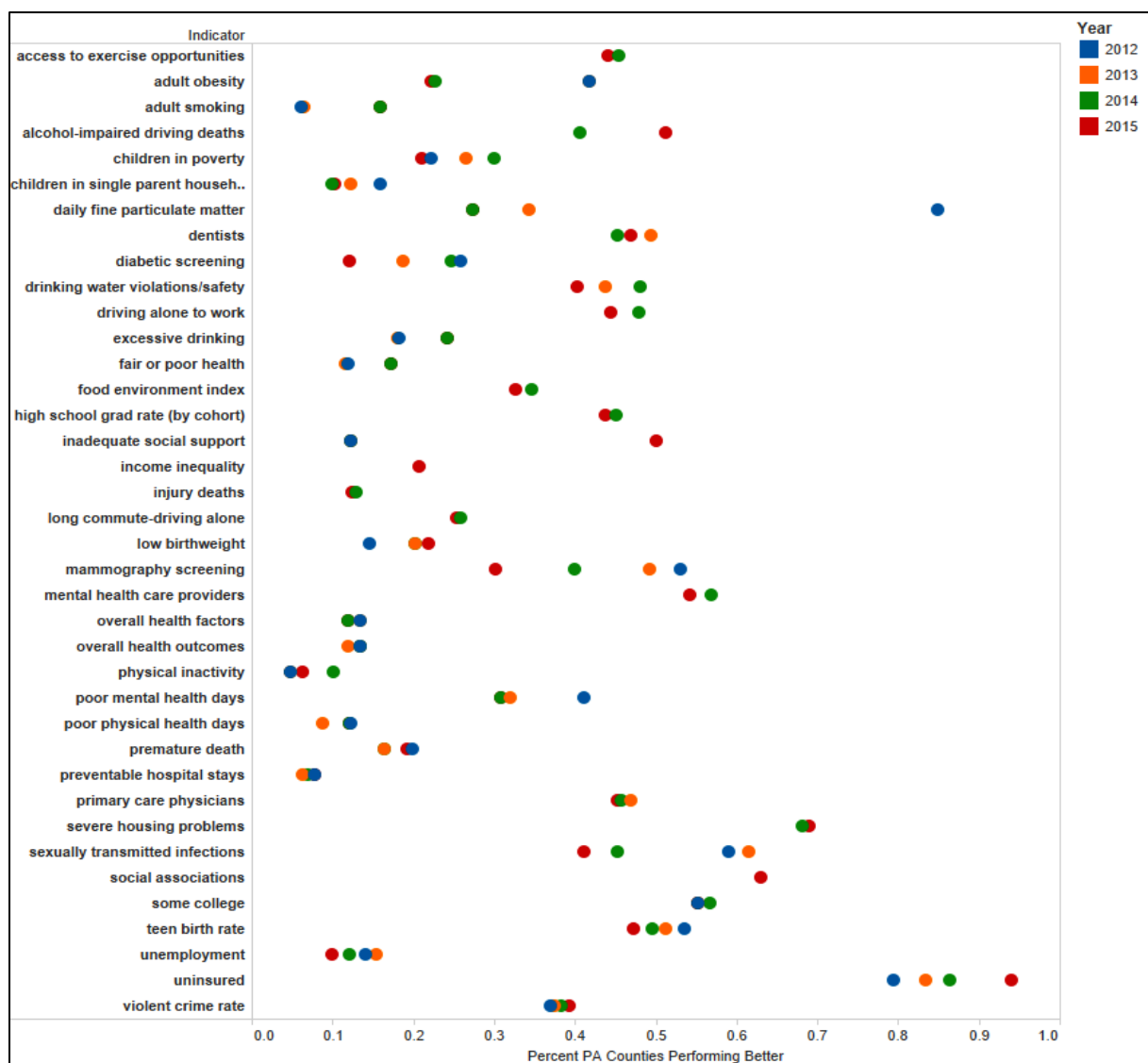


Figure 6. Relative Health Rankings, Lancaster County, 2015. This figure displays the relative ranking of Lancaster County to other Pennsylvania counties on individual health indicators. Lower scores closer to the left hand axis indicate stronger relative performance, in that fewer counties perform better on that indicator. Different colors represent different years. Not all indicators have data for all years. Calculations by the Center for Opinion Research based on Robert Wood Johnson Foundation County Health Rankings data.

The relative performance of Lancaster County on the grouped indicators reveals the indicator groups that need the greatest improvement (Table 3). Lancaster receives its poorest relative rankings for the physical environment, which includes poor air quality and problems related to housing and

transportation (see Appendix A, Table A-2). Clinical care is the second lowest performing set of factors for the county. Table 3 displays the health outcomes and factors for Lancaster County as well as the same ranks for the top performing counties in Pennsylvania.

Table 3. Relative County Ranks on County Health Rankings Outcomes and Factors

County	Length of Life	Quality of Life	Health Behaviors	Clinical Care	Social & Economic Factors	Physical Environment
Lancaster	8	9	9	17	8	22
<i>Top Performing PA Counties</i>						
Centre	2	7	1	12	4	23
Montgomery	4	10	4	2	1	62
Union	1	2	24	3	17	6

Endnotes

ⁱThe survey found that 63% of those with a BMI in the overweight category wrongly believe their weight is “about average.” Most of those in the normal (86%) and obese (85%) BMI groups correctly classified their weight.

ⁱⁱ Low back pain appears in the top five leading causes of DALYs in the US, but is not included in this section because the CHNA did not include any questions specifically about low back pain.

ⁱⁱⁱ Institute for Health Metrics and Evaluation. *GBD Profile: United States*. Retrieved from <http://www.healthmetricsandevaluation.org> on April 28, 2015.

^{iv} Draft Political Declaration of the High-level Meeting on the prevention and control of non-communicable diseases, United Nations, 7 September 2011.

^v Depression calculations were made using the PHQ-8 scale. Kroenke, K., T. Strine, R. Spitzer, J. Williams, J. Berry, A. Mokdad. (2008). The PHQ-8 as a measure of current depression in the general population. *J. Affect. Disorders*, doi:10.1016/j.jad.2008.06.026.

^{vi} These patterns represent bivariate relationships within the data and do not account for simultaneous effects of multiple variables as the previous analysis of obesity and depression do.

^{vii} <http://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-health>

^{viii} Dean, H., Williams, K., Fenton, K. (2013). From Theory to Action: Applying Social Determinants of Health to Public Health Practice. *Public Health Reports, Supplement 3* (128): 1 – 4.

^{ix} The social determinants used for this initial effort includes data related to social position and material circumstances. Other social determinants such as social cohesion, psychosocial factors, health systems, policy, and norms and values are not considered here.

^x Robert Wood Johnson Foundation. (2015). *2015 County Health Rankings Pennsylvania Data – v1_0.xls [Data file]*. Retrieved from <http://www.countyhealthrankings.org/app/pennsylvania/2015/overview>.

Description of Data Sources

The primary source of local, current data about Lancaster County comes from a Community Health Needs Assessment (CHNA) survey. The CHNA survey information is based on a behavioral risk factor survey of 729 adult residents of Lancaster County. The survey interviewing took place from February 23 through May 5, 2015. The survey sample was designed to be representative of the adult, non-institutionalized population of Lancaster County. Survey results were weighted (gender, education, race and age) using an iterative weighting algorithm to reflect the known distribution of those characteristics as reported by the American Community Survey for Lancaster County (see Table A-1).

The sample error is +/- 4.4 percentage points for northern Lancaster County when the design effects from weighting are considered. In addition to sampling error, this survey is also subject to other sources of non-sampling error. Generally speaking, two sources of error concern researchers most. Non-response bias is created when selected participants either choose not to participate in the survey or are unavailable for interviewing. Response errors are the product of the question and answer process. Surveys that rely on self-reported behaviors and attitudes are susceptible to biases related to the way respondents process and respond to survey questions.

Table A-1. Unweighted and Weighted Sample Estimates, Weighting Variables and Selected Health Indicators

Group	Parameter	Unweighted Estimate	Weighted Estimate
Weighting Variables			
Male	48.6	37.2	48.6
Female	51.4	62.8	51.4
HS or less	57.5	51.7	57.5
some college	20.1	21.5	20.1
College or more	22.3	26.8	22.4
White	93.4	96.5	93.4
Other	6.6	3.5	6.6
18 – 34	26.7	14.5	26.7
35 – 54	35.4	27.3	35.4
55 or older	37.9	58.1	37.9
Health Indicators			
Smoker	20%	10	11.6
Obese	28%	29.6	28.7
Binge Drink	15%	6.7	8.3
Diabetes	9%	12.1	10.1
Asthma (current)	11%	7	6.7
Annual Doc		72.7	66.7
Physical health not good 1+ day in past month	32%	30.7	35.7
Poverty		4.4	7.8
Cell Only		17.8	23.1

Note: age, gender, race estimates are from US Census Bureau, 2009-2013 5-Yr ACS; health indicators are for Lancaster County only and come from the state's EPI-QMS system for years 2011 - 2013.

The primary source of comparative health information is provided by the Robert Wood Johnson Foundation County Health Rankings. These rankings provide county-level information on health factors and health outcomes. Table A-2 provides a list of the measures used by the County Health Rankings.

The third source of data comes from the Bureau of Health Statistics and Research, Pennsylvania Department of Health, and is accessed through its Epidemiological Query and Mapping System (EpiQMS). The trend data that appears in Appendix D is based on the data available through this web portal and includes the Commonwealth of Pennsylvania's behavioral risk factor surveillance system

(BRFSS) survey and other health statistics. The BRFSS data displayed in the Pennsylvania EpiQMS system that was used to compile the trend data, starting in 2002, includes data gathered by Pennsylvania collecting samples of behavioral risk information for Local Health Partnerships at the county level. Due to the inclusion of these sample data, analysis of Pennsylvania BRFSS data presented by others may differ in sample sizes and have slightly different percent estimates and confidence bounds. Other health statistics gathered from the site were analyzed by Center for Opinion Research staff. The Department of Health specifically disclaims responsibility for any analyses, interpretations, or conclusions.

Northern Lancaster Sample Information

Zip	Zip Name	Area
17501	Akron	Ephrata Area
17505	Bird in Hand	Ephrata Area
17506	Blue Ball	Ephrata Area
17507	Bowmansville	Ephrata Area
17508	Brownstown	Ephrata Area
17517	Denver	Ephrata Area
17519	East Earl	Ephrata Area
17522	Ephrata	Ephrata Area
17528	Goodville	Ephrata Area
17533	Hopeland	Ephrata Area
17540	Leola	Ephrata Area
17543	Lititz	Ephrata Area
17555	Narvon	Ephrata Area
17557	New Holland	Ephrata Area
17567	Reamstown	Ephrata Area
17569	Reinholds	Ephrata Area
17578	Stevens	Ephrata Area
17580	Talmage	Ephrata Area
17581	Terre Hill	Ephrata Area
19501	Adamstown	Ephrata Area

Table A-2.

Health Outcomes										
Focus Area	Measure	Description	US Overall	PA Overall	PA Top Performers	Adams County	York County	Lancaster County	Lebanon County	Berks County
Health Outcomes Rank						17	19	8	11	20
Length of life (50%)	Premature death	Years of potential life lost before age 75 per 100,000 population (age-adjusted)	6811	6926	3765	5779	6036	5700	5764	6297
Quality of life (50%)	Poor or fair health	Percentage of adults reporting fair or poor health (age-adjusted)	12	14	8	13	13	11	12	12
	Poor physical health days	Average # of physically unhealthy days reported in past 30 days (age-adjusted)	3.7	3.5	2.5	4.2	3.3	2.9	3.2	3.3
	Poor mental health days	Average # of mentally unhealthy days reported in past 30 days (age-adjusted)	3.5	3.6	2.5	3.2	3.4	3.2	3.1	3.5
	Low birthweight	Percentage of live births with low birthweight (< 2500 grams)	8.1	8.3	4.9	7.5	8.0	6.8	7.5	7.7

Health Behaviors										
Focus Area	Measure		US Overall	PA Overall	PA Top Performers	Adams County	York County	Lancaster County	Lebanon County	Berks County
Health Behaviors Rank						31	32	9	16	25
Tobacco use (10%)	Adult smoking	Percentage of adults who are current smokers	18	20	12	21	20	16	18	18
Diet and exercise (10%)	Adult obesity	Percentage of adults that report a BMI of 30 or more	28	29	23	31	32	29	32	30
	Food environment index	Index of factors that contribute to a healthy food environment [0 (worst)-10 (best)]	7.6	7.7	8.6	8.6	8.1	8.1	8.4	8.2
	Physical inactivity	Percentage of adults aged 20 and over reporting no leisure-time physical activity	30	24	17	25	22	21	23	25
	Access to exercise opportunities	Percentage of population with adequate access to locations for physical activity	77	85	100	61	78	75	86	89
Alcohol and drug use (5%)	Excessive drinking	Percentage of adults reporting binge or heavy drinking	15	17	8	17	16	15	13	16
	Alcohol-impaired driving deaths	Percentage of driving deaths with alcohol involvement	32	34	15	44	40	35	27	39
Sexual activity (5%)	Sexually transmitted infections	Number of newly diagnosed chlamydia cases per 100,000 population	458	431	77	192	352	224	250	404
	Teen births	Teen birth rate per 1,000 female population, ages 15-19	31	28	6	26	33	26	34	35

Clinical Care										
Focus Area	Measure		US Overall	PA Overall	PA Top Performers	Adams County	York County	Lancaster County	Lebanon County	Berks County
Clinical Care Rank						23	9	17	13	20
Access to care (10%)	Uninsured	Percentage of population under age 65 without health insurance	18	12	8	12	11	15	12	13
	Primary care physicians	Ratio of population to primary care physicians	1,355:1	1249:1	224:1	1750:1	1390:1	1341:1	1691:1	1543:1
	Dentists	Ratio of population to dentists	1,663:1	1600:1	1085:1	3173:1	2051:1	2029:1	2258:1	1969:1
	Mental health providers	Ratio of population to mental health providers	753:1	623:1	261:1	1493:1	1155:1	934:1	470:1	913:1
Quality of care (10%)	Preventable hospital stays	# of hospital stays for ambulatory-care sensitive conditions per 1,000 Medicare enrollees	65	63	23	55	48	46	47	56
	Diabetic monitoring	% of diabetic Medicare enrollees ages 65-75 that receive HbA1c monitoring	84	86	93	88	90	90	89	89
	Mammography screening	% of female Medicare enrollees ages 67-69 that receive mammography screening	63.0	63.4	77.5	63.7	66.7	67.5	66.2	64.2

Social and Economic Environment										
Focus Area	Measure		US Overall	PA Overall	PA Top Performers	Adams County	York County	Lancaster County	Lebanon County	Berks County
Social & Economic Factors Rank						9	20	8	10	49
Education (10%)	High school graduation	Percentage of ninth-grade cohort that graduates in four years	80	85	95	91	88	89	86	84
	Some college	Percentage of adults ages 25-44 years with some post-secondary education	63	62	77.3	51	56	53	51	54
Employment (10%)	Unemployment	Percentage of population ages 16 and older unemployed but seeking work	8	7	5.5	6	7	6	6	7
Income (10%)	Children in poverty	Percentage of children under age 18 in poverty	23	19	8	15	17	15	16	21
	Income inequality	Ratio of household income at the 80th percentile to income at the 20th percentile		4.7	3.4	3.8	3.9	3.9	3.8	4.3
Family and social support (5%)	Children in single-parent households	Percentage of children that live in a household headed by single parent	21	33	18	28	31	22	30	35
	Social associations	Number of membership associations per 10,000 population	33.0	12.3	30.4	11.3	12.6	13.9	15.5	12.4
Community safety (5%)	Violent crime	Number of reported violent crime offenses per 100,000 population	387	357	83	147	254	177	193	323
	Injury deaths	Number of deaths due to injury per 100,000 population	59	66	39	63	61	54	54	63

Physical Environment (10%)										
Focus Area	Measure		US Overall	PA Overall	PA Top Performers	Adams County	York County	Lancaster County	Lebanon County	Berks County
Physical Environment Rank						44	36	22	20	34
Air and water quality (5%)	Air pollution - particulate matter	Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5)	11.1	12.9	11.5	12.8	12.6	12.4	12.5	12.1
	Drinking water violations	Percentage of population potentially exposed to water exceeding a violation limit during the past year	8	8	0	2	1	4	1	8
Housing and transit (5%)	Severe housing problems	Percentage of households with at least 1 of 4 housing problems: overcrowding, high housing costs, or lack of kitchen or plumbing facilities	19	15	6	14	13	15	13	15
	Driving alone to work	Percentage of the workforce that drives alone to work	76	77	50	82	85	79	82	80
	Long commute - driving alone	Among workers who commute in their car alone, the percentage that commute more than 30 minutes	34	34	16	38	35	26	32	30

Source: Robert Wood Johnson Foundation, (2015). 2015 County Health Rankings Pennsylvania Data. Retrieved from <http://www.countyhealthrankings.org/app/pennsylvania/2015/overview>.

Marginal Frequency Report: Behavioral Risk Factor Survey

Health Status

S1_1. Would you say that in general your health is...

Excellent,	18%
Very good,	38%
Good,	32%
Fair, or	9%
Poor?	3%

Health Days – Health Related Quality of Life

S2_1. Now thinking about your physical health, which includes physical illness and injury, for how many days during the past 30 days was your physical health NOT good?

None	64%
1 or more days	36%

S2_2. Now thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the past 30 days was your mental health NOT good?

None	66%
1 or more days	34%

S2_3. During the past 30 days, for about how many days did poor physical or mental health keep you from doing your usual activities, such as self-care, work, or recreation?

	n=383
None	65%
1 or more days	35%

Health Care Access

S3_1. Do you have any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicare?

Yes	88%
No	12%
Don't know	1%

S3_1A. [If do not have any health insurance] Do you plan to sign up for health insurance through the health insurance exchange, or through your employer?

	n=87
Yes	31%
No	66%
Don't Know	3%

S3_1b. Why not?

	n=58
Stay healthy, do not get sick	11%
Opportunity for other health coverage in the future	5%
Cost: More affordable to pay out of pocket, pay as you go	5%
Not offered by current employer	2%
Other	75%
Do not know	6%

**Totals may exceed 100% because multiple responses were accepted*

S3_2A. Do you have one person you think of as your personal doctor or health care provider?

Yes, only one	85%
Yes, more than one	5%
No person as personal doctor	9%
Do not know	1%

S3_3. Was there a time in the past 12 months when you needed to see a doctor but could not because of cost?

Yes	6%
No	94%

T3. Has a lack of transportation kept you from getting to a doctor's office or to any other health care appointment during the PAST YEAR?

Yes	2%
No	98%

S3_4. About how long has it been since you last visited a doctor for a routine checkup? A routine checkup is a general physical exam, not an exam for a specific injury, illness, or condition.

Within past year (anytime less than 12 months ago)	67%
Within past 2 years (1 year ago but less than 2 years ago)	15%
Within past 5 years (2 years ago but less than 5 years ago)	5%
5 or more years ago	10%
Never	2%
Don't know	2%

S3_5. How often do you have someone help you read materials you receive from your doctor or hospital...

Always,	3%
Often,	3%
Sometimes,	6%
Occasionally, or	11%
Never?	77%
NEVER visited provider/Do not know	1%

S3_6. How confident are you filling out medical forms by yourself...

	n=726
Extremely confident,	48%
Quite a bit,	30%
Somewhat,	15%
A little bit, or	4%
Not at all confident?	2%
Do not know	1%

S3_7. How confident do you feel when leaving the doctor's office that you understand what the doctor has told you...

	n=726
Extremely confident,	58%
Quite a bit,	33%
Somewhat,	8%
A little bit, or	1%
Not at all confident?	1%
Do not know	1%

S3_8. How confident do you feel when leaving the doctor's office that you can follow the doctor's instructions...

	n=726
Extremely confident,	66%
Quite a bit,	26%
Somewhat,	6%
A little bit, or	1%
Not at all confident?	0%
Do not know	1%

S3_9. How often do you have problems learning about your medical condition because of difficulty understanding written information...

	n=726
Always,	2%
Often,	2%
Sometimes,	10%
Occasionally, or	16%
Never?	67%
Not applicable	2%

Exercise

S5_1. During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise?

Yes	76%
No	24%

S5_2. When you took part in this physical activity for how many MINUTES did you usually keep at it?

	n=546
Mean	49.6
S.D.	50.5

S5_3. During the PAST MONTH, how many TIMES PER WEEK did you take part in these physical activities?

	n=542
Mean	3.8
S.D.	3.4

S5_4. During the PAST MONTH, how many times PER WEEK did you do physical activities to STRENGTHEN your muscles? Do NOT count aerobic activities like walking, running, or bicycling. Count activities using your own body weight, like yoga, sit-ups or push-ups and those using weight machines, free weights, or elastic bands.

Mean	1.7
S.D.	3.2

T1. How often do you walk or bicycle to work...

Every day,	3%
Most days,	1%
Some days, or	4%
Never?	69%
Not currently employed	23%

T2. What is the main barrier that keeps you from walking or biking to work?

	n=501
Distance	62%
Work from home	6%
Not currently employed, retired	4%
Physically unable, disabled	4%
Time	3%
Drive for work, job requirements	3%
Safety	2%
Have a vehicle	2%
Walkability, bikability of route: highways, etc.	2%
Choose not to	2%
Lack of energy, laziness	1%
Have materials that need to be transported to/for work	1%
Weather	1%
Do not have a bike, Do not like riding a bike	1%
Have a company car	1%
Age	1%
No reason, nothing	6%
Other	1%

Diabetes

S12_19. Are you MALE or FEMALE?

Male	49%
Female	51%

S6_1A. Have you ever been told by a doctor that you have diabetes?

Yes	10%
No	87%
No, pre-diabetes or borderline diabetes	3%

S6_1B. If "Yes" and respondent is female, ask: Was this only when you were pregnant?

	n=42
Yes	29%
No	72%

S6_2. About how many times in the PAST 12 MONTHS have you seen a doctor, nurse, or other health professional for your diabetes?

	n=73
None	12%
1-3	41%
4-6	44%
7-10	2%
11 or more	1%

Oral Health

S7_1. How long has it been since you last visited a dentist or a dental clinic for any reason? Include visits to dental specialists, such as orthodontists.

Within the past year	75%
More than one year	25%

S7_2cod. What is the MAIN reason you have NOT visited the dentist in the last year?

	n=183
No need to go, teeth are fine	24%
No insurance	15%
Cost, cannot afford it	14%
Dentures, false teeth, all teeth removed	12%
No time, cannot get time off of work	10%
Does not like the dentist, bad past experience	10%
No dentist, unsure who to use for dental care	5%
Forgot to go, forgot to reschedule	1%
No reason	1%
Other	5%
Do not know	3%

S7_3. How many of your permanent teeth have been removed because of tooth decay or gum disease? Include teeth lost to infection, but do NOT include teeth lost for other reasons, such as injury or orthodontics. NOTE: If wisdom teeth are removed because of tooth decay or gum disease, they should be included in the count for lost teeth.

None	58%
1 to 5	22%
6 or more but not all	12%
All	6%
Don't know	1%

S7_4. How long has it been since you had your teeth cleaned by a dentist or dental hygienist?

	n=682
Within the past year (anytime less than 12 months ago)	73%
Within the past 2 years (1 year ago but less than 2 years ago)	11%
Within the past 5 years (2 years ago but less than 5 years ago)	7%
5 or more years ago	6%
Never	1%
Don't know	2%

S7_5. Do you have any kind of insurance coverage that pays for some or all of your routine dental care?

Yes	52%
No	46%
Do Not Know	2%

Cardiovascular Disease Prevalence

S8_1. Has a doctor, nurse, or other health professional EVER told you that you had...

	Yes	No
A heart attack, also called a myocardial infarction?	4%	96%
Angina or coronary heart disease?	5%	94%
A stroke?	3%	97%
Chronic obstructive pulmonary disease, emphysema, or chronic bronchitis?	5%	95%

S8_5. Blood cholesterol is a fatty substance found in the blood. Have you EVER had your blood CHOLESTEROL checked?

Yes	74%
No	22%
Do Not Know	4%

S8_6. Has a doctor, nurse, or other health professional EVER told you that your blood CHOLESTEROL is high?

	n=566
Yes	38%
No	61%
Do Not Know	1%

S8_7. Has a doctor, nurse, or other health professional EVER told you that you had HIGH blood PRESSURE?

Yes	33%
No	66%

S8_12. Has a doctor or other health professional EVER advised you to TAKE MEDICATION to help lower or control your high blood pressure?

	n=245
Yes	83%
No	16%
Don't know	1%

Asthma

S9_1. Has a doctor, nurse, or other health professional EVER told you that you had... ASTHMA?

Yes	12%
No	88%

S9_2. Do you still have asthma?

	n=84
Yes	58%
No	41%
Don't know	2%

Tobacco Use

S11_1. Have you smoked at least 100 cigarettes in your entire life?

Yes	36%
No	63%

S11_2. Do you now smoke cigarettes every day, some days, or not at all?

	n=265
Every day	23%
Some days	9%
Not at all	68%

S11_3. During the past 12 months, have you stopped smoking for one day or longer because you were trying to quit smoking?

	n=84
Yes	51%
No	49%

S11_5. Do you currently use chewing tobacco, snuff, or snus every day, some days, or not at all? [NOTE: Snus (Swedish for snuff) is a moist smokeless tobacco, usually sold in small pouches that are placed under the lip against the gum].

Every day	1%
Some days	3%
Not at all	97%

Demographics

reAGE. What is your AGE?

Under 35	27%
35-54	35%
Over 55	38%

HISP. Are you Hispanic or Latino, or NOT?

Yes	2%
No	98%

reRACE. Racial group

White	93%
Nonwhite	7%

S12_6. What is your CURRENT marital status, are you married, divorced, widowed, or separated?

Married,	66%
Divorced,	7%
Widowed,	7%
Separated,	2%
Never married	17%
A member of an unmarried couple	2%

NumC. How many children LESS than 18 years of age live in your household?

None	63%
1-2	24%
3-4	11%
5 or more	3%

Care Givers

CG1. Some people play the role of caregiver as part of their daily lives, which means they are responsible for meeting the physical and psychological needs of others. Do you act as a caregiver for another ADULT, such as a spouse, sibling, aunt, uncle, parent, or grandparent?

Yes	17%
No	83%

CG1A. Do you care for someone regularly, on a daily basis?

	n=121
Yes	57%
No	42%
Don't know	2%

reEDUC. What is the HIGHEST grade or year of school you completed?

HS or less	58%
Some college	20%
College degree	22%

S12_9. Are you currently...

Employed for wages,	52%
Self-employed,	9%
Out of work for MORE than one year	1%
Out of work for LESS than one year	2%
A Homemaker,	9%
A Student,	3%
Retired, or	20%
Unable to work?	4%

INCOME. Is your annual household income from all sources above or below \$25,000?

Under \$10,000	3%
\$10-\$15,000	5%
\$15-20,000	6%
\$20-25,000	4%
\$25 - 35,000	12%
\$35 - 50,000	17%
\$50 - 75,000	20%
Over \$75,000	27%
Don't know	7%

BMIcat. Body Mass Index Score (**Note: BMI Score calculated using respondent height and weight*)

Underweight	3%
Normal	32%
Overweight	37%
Obese	29%

S12_15. Do you now consider yourself to be...

Overweight,	40%
Underweight, or	4%
About average?	55%

Alcohol Consumption

S13_1. During the past 30 days, have you had at least one drink of any alcoholic beverage such as beer, wine, a malt beverage or liquor?

Yes	43%
No	56%

S13_2a. During the past 30 days, how many DAYS per WEEK OR per MONTH did you have at least one drink of any alcoholic beverage?

	n=316
No drinks in past 30 days	1%
Per WEEK response	53%
Per MONTH response	46%
Don't know	1%

S13_2b. Days per week response

	n=167
1	31%
2-3	40%
4-5	16%
6 or more	13%

S13_2c. Days per month response

	n=145
1-3	73%
4-6	10%
7-9	6%
10-15	4%
16-20	3%
21-25	2%
26 or more days	2%

S13_3. One drink is equivalent to a 12-ounce beer, a 5-ounce glass of wine, or a drink with one shot of liquor. During the past 30 days, on the days when you drank, about how many drinks did you drink on the average?
NOTE: A 40 ounce beer would count as 3 drinks, or a cocktail drink with 2 shots would count as 2 drinks.

	n=315
1-3	91%
4-6	6%
7-9	2%
10-15	0%
16 or more drinks	1%

S13_4. . Considering all types of alcoholic beverages, how many times during the past 30 days did you have FIVE (men) / FOUR (women) or more drinks on an occasion?

No binge drinking	92%
Binge drinker	8%

S13_5. During the past 30 days, what is the largest number of drinks you had on any occasion?

	n=315
1-3	76%
4-6	19%
7-9	1%
10-15	1%
16 or more drinks	1%
Don't know	2%

Substance Abuse

IntSA1. Did any of the following happen to you during the past 12 months? During the past 12 months, did you...

	Yes	No
Use illegal drugs one or more times?	1%	99%
Have a child under 18 who used drugs or had a drinking problem?	1%	99%
Use painkillers NOT prescribed for you (such as: OxyContin, Vicodin)?	1%	99%
Use stimulants NOT prescribed for you (such as: Adderall, Ritalin)?	0%	100%
Use tranquilizers NOT prescribed for you (such as: Xanax, Valium, Ativan, Klonopin)?	0%	100%
Take someone else's medicines for any reason?	1%	99%

Immunization

S14_1. Now I will ask you questions about seasonal flu. A flu shot is an influenza vaccine injected into your arm. During the past 12 months, have you had a seasonal flu shot?

Yes 47%
No 53%

S14_6cod. What is the MAIN reason you have NOT received a flu vaccination for this current flu season?

n=386

No reason, does not want to, just did not	24%
No need, not necessary, not high risk	20%
Not effective, does not believe in it	13%
Healthy, never or rarely gets the flu or sick	12%
Side effects, causes the flu, makes you sick	9%
Too busy, no time	5%
Afraid, does not like needles, shots, or doctors	3%
Allergic	2%
Cost, no insurance	2%
Lack of availability, doctor does not have it	1%
Other	6%
Do not know	4%

**Next two sections (Falls, Aging) asked only of respondents aged 45 years or older
n=439*

S15_1. The next questions ask about recent falls. By a fall, we mean when a person unintentionally comes to rest on the ground or another lower level. In the past 3 months, how many times have you fallen?

None 81%
1-2 16%
3-4 2%
5 or more times 1%

S15_2a. How many of these falls caused an injury? By an injury, we mean the fall caused you to limit your regular activities for at least a day or to go see a doctor.

n=82

None (or 1 fall & no injury)	77%
1	17%
2	3%
3 or more times	2%

Aging

IntA1. Do you have difficulty with any of the following? Please respond with: No difficulty, some difficulty, a lot of difficulty, or unable to do this. First, do you have difficulty...

	No difficulty	Some difficulty	A lot of difficulty	Unable to do this	DK
With self-care, such as washing all over or dressing?	97%	3%	0%	0%	0%
Raising a 2 liter bottle of water or soda from waist to eye level?	97%	3%	0%	0%	0%
Using your hands and fingers, such as picking up small objects, for example, a button or pencil, or opening or closing containers or bottles?	89%	9%	2%	0%	0%
Walking or climbing steps?	80%	15%	4%	1%	0%
Doing errands alone such as visiting a doctor's office or shopping?	92%	5%	1%	1%	1%

A2. Do you have someone who helps you take care of the daily activities that are difficult for you?

n=119
Yes 42%
No 58%

A3. During the past 12 months, do you think you were treated poorly or discriminated against because of your age?

Yes 3%
No 97%

End of Life

EL1. Have you, personally, had experience with palliative care, end-of-life care, or hospice care either for yourself or a family member?

Yes 28%
No 72%

IntEL2 Do you have any of the following legal documents that are used in end-of-life situations? Do you have...

	Yes	No	DK
A living will?	37%	62%	1%
An advanced directive related to health care treatment?	24%	70%	6%
A power of attorney?	37%	62%	1%
A health care proxy?	20%	70%	10%

Cancer Screening

S20_6. Have you EVER been told by a doctor, nurse, or other health professional that you had CANCER?

Yes 11%
No 89%

S20_7. How many different types of cancer have you had?

n=79
None 1%
1 type 80%
2 types 17%
3 or more types 3%

S20_8cod. What type of cancer was it?

n=78
Skin (Not melanoma) 26%
Breast 15%
Prostate 12%
Melanoma 6%
Lymphoma (Non-Hodgkin's) 5%
Cervical (cervix) 4%
Thyroid 4%
Colon (intestine) includes large intestine 3%
Lung 3%
Endometrial (uterus) 2%
Renal (kidney) 2%
Bladder 2%
Lymphoma (Hodgkin's disease) 2%
Ovarian (ovary) 2%
Bone 2%
Liver 1%
Head and neck 1%
Other 5%
Do not know 2%

HIV/AIDS

S21_1. Except for tests you may have had as part of blood donations, have you ever been tested for HIV?

	n=558
Yes	30%
No	67%
Don't Know	3%

S21_1A. Did your HIV testing take place during the past 12 months?

	n=170
Yes	22%
No	77%
Don't Know	1%

S21_1B. Have you ever been tested for Hepatitis C?

Yes	22%
No	67%
Don't Know	12%

Emotional Support and Life Satisfaction

S22_1. The next two questions are about emotional support and your satisfaction with life. How often do you get the social and emotional support you need...

Always,	51%
Usually,	32%
Sometimes,	10%
Rarely, or	2%
Never?	4%
Don't know	1%

S22_2. In general, how satisfied are you with your life...

Very satisfied,	51%
Satisfied,	45%
Dissatisfied, or	4%
Very dissatisfied?	1%

Anxiety and Depression

IntM17. Now, I am going to ask you some questions about your mood. When answering these questions, please think about how many days each of the following has occurred in the past 2 weeks. Over the last 2 weeks, how many days have you...

Days with depressive symptoms:

None	51%
One or more	49%

M17_9. Has a doctor or other healthcare provider EVER told you that you have an ANXIETY disorder (including acute stress disorder, anxiety, generalized anxiety disorder, obsessive-compulsive disorder, panic disorder, phobia, posttraumatic stress disorder, or social anxiety disorder)?

Yes	16%
No	84%

M17_10. Has a doctor or other healthcare provider EVER told you that you have a DEPRESSIVE disorder (including depression, major depression, dysthymia, or minor depression)?

Yes	16%
No	84%

Social Context

M19_1. Now, I am going to ask you about several factors that can affect a person's health. Do you own or rent your home?

Own	75%
Rent	18%
Other arrangement	7%

M19_2. How often in the past 12 months would you say you were worried or stressed about having enough money to pay your (rent/mortgage)? Would you say you were worried or stressed...

	n=672
Always,	3%
Usually,	2%
Sometimes,	9%
Rarely, OR	16%
Never?	64%
Not applicable	6%

IntM19_9. Now I'm going to ask you about various events that happen to people. I'm interested in those that happened to you at any point during the last 12 months, that is since [fill one year ago's date]. Did any of the following hardships happen to you in the last 12 months?

	Yes	No
M19_9a. Did you fall behind in paying your rent or mortgage?	3%	97%
M19_9b. Were you evicted from your apartment or house?	0%	100%
M19_9c. Did you have any UTILITIES, such as water, heat, or electricity, shut off because you couldn't afford the bill?	1%	99%
M19_9e. Were you unable to purchase needed FOOD because you couldn't afford it?	3%	97%
M19_9f. Were you unable to get needed MEDICAL CARE because you couldn't afford it?	5%	95%
M19_9g. Did you lack health insurance coverage?	10%	90%
M19_9h. For financial reasons, did you have to temporarily live with others or in a shelter or on the street?	2%	98%
M19_9i. Were you let go or permanently laid off from your job?	3%	97%
M19_9j. Did you experience a reduction in pay for any reason?	8%	91%
M19_9k. Were you unemployed and looking for work for as long as a month?	5%	95%

M19_9h2cod1. Where did you live?

	n=15
Family home	66%
Friends home	13%
Other	34%

**Totals may exceed 100% because multiple responses were accepted*

Fruits and Vegetables

IntQ18. These next questions are about the foods you usually eat or drink. During the PAST WEEK, how often did you eat or drink each one, for example, twice a WEEK, three times a WEEK, and so forth. We are only interested in the foods YOU ate. Please include all foods you ate both at home and away from home. During the PAST WEEK, how often did you...

	None	1-2 times	3-4 times	5-7 times	More than once per day	Never eat/ drink item/DK
Drink fruit juices such as orange, grapefruit, or tomato?	30%	22%	18%	26%	2%	2%
Eat fruit, not counting juice?	8%	13%	21%	47%	10%	1%
Eat green salad?	16%	34%	25%	23%	2%	0%
Eat potatoes not including French fries, fried potatoes, or potato chips?	19%	44%	27%	9%	1%	0%
Eat carrots?	32%	36%	20%	10%	1%	1%

Q18_6. Not counting carrots, potatoes, or salad, how many SERVINGS of VEGETABLES did you eat during the PAST WEEK? (Example: A serving of vegetables at both lunch and dinner would be two servings.)

None	4%
1-2	8%
3-4	19%
5-7	36%
8 or more servings	31%
Do not know	2%

Fast Food

FF1. How many days in the past WEEK did you prepare your evening meal at home?

None	6%
1-2 days	9%
3-4 days	15%
5-6 days	29%
Every day	41%

IntFF2. How many days in the past week did you purchase or receive food from the following sources:

	None	1-2 days	3-5 days	6-7 days
A senior center or food pantry?	99%	1%	0%	0%
A Wal-Mart, Target, or other big box store?	69%	27%	2%	1%
A convenience store, or corner store?	71%	21%	7%	0%
A farmer's market?	73%	24%	3%	1%
A grocery store such as Giant, Weis, Food Lion?	19%	64%	14%	3%
A fast food or chain restaurant?	51%	41%	7%	1%

NUMA. Including yourself, how many adults 18 years of age or OLDER CURRENTLY live in this household?

1	16%
2	56%
3-4	25%
5 or more	3%

Definitions of Selected Terms

Age-adjusted Rate: Age-adjustment is the process by which differences in the age composition of two or more populations are removed, to allow comparisons between these populations in the frequency with which an age-related health event occurs.¹

ALA Grades: The American Lung Association grades counties in which the EPA has placed the necessary monitoring equipment and creates weighted annual averages for both high ozone days and high particle pollution days.

Binge Drinker: Males having five or more drinks on one occasion or females having four or more drinks on one occasion.¹

Body Mass Index (BMI): Number calculated from a person's weight and height. BMI provides a reliable indicator of body fatness for most people and is used to screen for weight categories that may lead to health problems.²

Confidence Intervals: Interval determining the variability of a rate, ratio or percent.¹

Current smoker: During COR interviewing, respondents who said they had smoked more than 100 cigarettes in their life were asked about the frequency of their current smoking habits. If the respondent confirmed to smoking occasionally or every day, they were labeled as smokers.

Days with depressive symptoms: During COR interviewing, respondents were asked a series of questions relating to their mood over the past month. These questions each received values that were then compiled to create a composite score for days with depressive symptoms.

Economic hardships: During COR interviewing, respondents were asked a series of questions relating to economic hardships experienced within the past year, such as falling behind on rent payments or being unable to pay for food, utilities, gasoline or medical care. These questions each received values that were then compiled to create a composite score for economic hardships experienced in the past year.

Gets needed social and emotional support: During COR interviewing, respondents were asked how often they received the social and emotional support they need. If respondents answered "Always", "Usually" or "Sometimes", they were marked as getting needed social and emotional support. If they answered "Rarely" or "Never", they were marked as not getting needed support.

Healthy literacy: During COR interviewing, respondents were asked a series of questions relating to their own confidence in understanding medical information, which was used to create a composite score that determined the threshold of health literacy.

Healthy People 2020: Healthy People provides science-based, 10-year national objectives for improving the health of all Americans.³

Definitions have been directly obtained from the following sources:

¹ "EpiQMS Help." Epidemiologic Query and Mapping System, Pennsylvania Department of Health, <http://app2.health.state.pa.us/epiqms/EpiQMSHelp/DGEpiQMSHELP.htm>.

² "Body Mass Index." Healthy Weight, Assessing Your Weight, Centers for Disease Control and Prevention, <http://www.cdc.gov/healthyweight/assessing/bmi/>.

³ Healthy People 2020, <http://www.healthypeople.gov>.

Low birth Weight: Birth weight of less than 2,500 grams.⁴

Obese: Has a BMI over 30.¹

Overweight: Has a BMI between 25 and 30.¹

Physical activity: During COR interviewing, respondents were marked as engaging in physical activity if the respondent said to have exercised at least 30 minutes on five days of the past week.

Poverty Status of Household: During COR interviewing, respondents were asked to indicate their income level, as well as the number of people in their household. Three categories of poverty status (in poverty, low-income and other) were created based on the 2011 US Department of Health and Human Services (HHS) Poverty Guidelines. The category "In Poverty" was created based on these guidelines. Respondents were marked as "Low-income" if their income level fell within 100% and 200% of the HSS guidelines.⁵

Rate: A rate is a measure of the frequency of an event per population unit. The use of rates, rather than raw numbers, is important for comparison among populations, since the number of events depends, in part, on the size of the population.¹

Statistical significance: The difference between two independent rates is statistically significant if the confidence intervals for two independent rates do not overlap.¹

Stressed about paying for food: During COR interviewing, respondents were asked how often in the past 12 months they were stressed about having enough money to buy nutritious meals. If they answered "Always", "Usually" or "Sometimes", as opposed to "Rarely" or "Never", they were marked as being stressed about paying for food.

Stressed about paying for rent or mortgage: During COR interviewing, respondents were asked how often in the past 12 months they were stressed about having enough money to pay their rent or mortgage. If they answered "Always", "Usually" or "Sometimes", as opposed to "Rarely" or "Never", they were marked as being stressed about paying rent or mortgage.

Unemployed persons : Persons aged 16 years and older who had no employment during the reference week, were available for work, except for temporary illness, and had made specific efforts to find employment sometime during the 4-week period ending with the reference week. Persons who were waiting to be recalled to a job from which they had been laid off need not have been looking for work to be classified as unemployed.⁴

Unemployment rate: The unemployment rate represents the number unemployed as a percent of the labor force.⁴

Vegetable Consumption: During COR interviewing, respondents were asked how many servings of vegetables they had eaten during the past week, to determine whether they consumed three or more servings of vegetables per day on average during that week.

⁴ "Economic Indicators." Definitions, UNICEF, http://www.unicef.org/infobycountry/stats_popup7.html.

⁵ "2011 HHS Poverty guidelines." United States Department of Health and Human Services. <http://aspe.hhs.gov/poverty/11poverty.shtml>.

Appendix D: Health Indicators for Lancaster County and Pennsylvania, by Year
Table of Contents

Center For Opinion Research Behavioral Risk Factor Survey 2015

2. Age Crosstabs

- [2a. Lancaster CHA Survey, Access Measures by Age of Respondent](#)
- [2b. Lancaster CHA Survey, Behavior Measures by Age of Respondent](#)
- [2c. Lancaster CHA Survey, Health Conditions by Age of Respondent](#)
- [2d. Lancaster CHA Survey, Prevention Indicators by Age of Respondent](#)

4. Poverty Crosstabs

- [4a. Lancaster CHA Survey, Access Measures by Poverty Status of Household](#)
- [4b. Lancaster CHA Survey, Behavior Measures by Poverty Status of Household](#)
- [4c. Lancaster CHA Survey, Health Conditions by Poverty Status of Household](#)
- [4d. Lancaster CHA Survey, Prevention Indicators by Poverty Status of Household](#)

5. Race Crosstabs

- [5a. Lancaster CHA Survey, Access Measures by Race and Ethnicity of Respondent](#)
- [5b. Lancaster CHA Survey, Behavior Measures by Race and Ethnicity of Respondent](#)
- [5c. Lancaster CHA Survey, Health Conditions by Race and Ethnicity of Respondent](#)
- [5d. Lancaster CHA Survey, Prevention Indicators by Race and Ethnicity of Respondent](#)

7. Sex Crosstabs

- [7a. Lancaster CHA Survey, Access Measures by Sex of Respondent](#)
- [7b. Lancaster CHA Survey, Behavior Measures by Sex of Respondent](#)
- [7c. Lancaster CHA Survey, Health Conditions by Sex of Respondent](#)
- [7d. Lancaster CHA Survey, Prevention Indicators by Sex of Respondent](#)

Behavioral Risk Factors—Pennsylvania Department of Health Statistics

9. Behavioral Risk Factors

- [9a. Percentage of All Adults Overweight or Obese by Region and Year](#)
- [9b. Percentage of Adults with Poor Physical or Mental Health that Prevented Usual Activities 1 or More days in the Past Month by Region or Year](#)
- [9c. Percent of Adults Ever Told that They Had a Heart Attack, Heart Disease, or a Stroke by Region and Year](#)
- [9d. Percent of Adults Who Had no Leisure Time Physical Activity in the Past Month by Region and Year](#)
- [9e. Percent of Adults Who Needed To See a Doctor but Could Not Because of Cost in the Past 12 Months by Region and Year](#)
- [9f. Percent of Adults Who Have Ever Been Told They Had Diabetes by Region and Year](#)
- [9g. Percent of Adults Who Currently Have Asthma by Region and Year](#)
- [9h. Percent of Adults Who Have Ever Been Told They Have Asthma by Region and Year](#)
- [9i. Percent of Adults Who are Binge Drinkers \(Males Having 5+ Drinks on One Occasion, Females Having 4+ Drinks on One Occasion\) by Region and Year](#)
- [9j. Percent of Adults Who Are Current Smokers by Region and Year](#)
- [9k. Percent of Adults Who do not Have a Personal Health Care Provider by Region and Year](#)
- [9l. Percent of Persons Age 9-64 With No Health Insurance by Region and Year](#)
- [9m. Percent of Adults Whose Physical Health Was Not Good 1 or More Days in the Past Month by Region and Year](#)
- [9n. Percent of Adults Who Rarely or Never Get the Social and Emotional Support They Need by Region and Year](#)
- [9o. Percent of Adults Who Visited a Doctor For a Routine Checkup Within the Past 2 Years by Region and Year](#)
- [9p. Percent of Adults Whose Mental Health Was Not Good 1 or More Days in the Past Month by Region and Year](#)

Demographics

10. Demographic Information

- [10a. Percentages for Occupation of Available Housing and Home Ownership by County and Year](#)
- [10b. Percent of Occupation Fields by County and Year](#)
- [10c. Population Change by County and Year](#)
- [10d. Percentage of Poverty by County and Year](#)
- [10e. Percentage of Families Receiving Food Stamps by County and Year](#)
- [10f. Percent of Education Level for Adults Age 25 and Older by County and Year](#)
- [10g. Percent of Gender, Race, and Ethnicity by County and Year](#)
- [10h. Percent of Population by Age, Gender, County, and Year](#)
- [10i. Percentage of Commuting Methods for Adults Age 16 and Older by County and Year](#)

Air Quality Index

11. AQI Median and percent of Good AQI Days

- [11a. Median AQI Levels by Location and Year](#)
- [11b. Percentage of Days with Good AQI by Location and Year](#)

Logistic Regression Analyses

The logistic regression model for obesity was statistically significant, $\chi^2(23) = 74.054$, $p < .001$. The model explained 17% (Nagelkerke R^2) of the variance in obesity and correctly classified 76% of cases. The largest effects were found for having diabetes, asthma, and

PHQ-8 depression scale symptom category (Table E-1). Model sensitivity (the percent of cases that are obese that were accurately predicted) was 23% and model specificity (the percent of cases that were not obese that were accurately predicted) was 96%.

Table E-1. Logistic Regression Analysis for Adults who are Obese

	Variables in the Equation		
	B	Std. Error	Sig.
Poverty, low-income, and other households			0.992
In poverty	0.055	0.479	0.908
Low-income	0.02	0.265	0.940
Race and Ethnicity			0.497
Non-Hispanic White	-0.604	0.656	0.357
Non-Hispanic Black	0.018	0.974	0.985
Non-Hispanic Other	-0.157	0.777	0.840
Male	-0.21	0.207	0.311
Age Range			0.147
Under 35 years old	-0.549	0.3	0.067
35-54 years old	-0.081	0.246	0.741
Educational Attainment			0.836
High school or less	-0.012	0.268	0.966
Some college	-0.158	0.312	0.613
Health Literacy	0.295	0.284	0.299
Married	0.146	0.227	0.521
Economic Hardships			0.206
One economic hardship	-0.311	0.373	0.405
Two or more economic hardships	-0.744	0.443	0.093
Gets needed social and emotional support	-0.259	0.383	0.498
Exercised 30 minutes on five days in past week	-0.049	0.316	0.876
Respondent is diabetic	1.16	0.249	0.000
Told has heart disease, heart attack, or stroke	0.025	0.377	0.947
Has asthma	0.871	0.363	0.016
PHQ-8 Depression Scale Symptom Category			0.020
No symptoms	1.138	1.605	0.478
Mild symptoms	1.917	1.609	0.234
Moderate symptoms	1.909	1.659	0.250
Moderately severe symptoms	2.071	1.699	0.223
Constant	-1.299	1.715	0.449
*Nagelkerke R Square = 0.169			
*Percentage correct = 76.3			
*-2 Log likelihood = 626.118			

The logistic regression model for depression was statistically significant, $\chi^2(19) = 54.409$, $p < .001$. The model explained 27% (Nagelkerke R^2) of the variance in depression and correctly classified 95% of cases. The largest effects were found for

poverty status and having economic hardships (Table E-2). Model sensitivity (the percent of cases that are depressed that were accurately predicted) was 8% and model specificity was 100%.

Table E-2. Logistic Regression Analysis for Adults who are Depressed

	Variables in the Equation		
	B	Std. Error	Sig.
Poverty, low-income, and other households			0.002
In poverty	2.256	0.685	0.001
Low-income	1.459	0.503	0.004
Race and Ethnicity			0.366
Non-Hispanic White	-1.465	0.831	0.078
Non-Hispanic Black	-19.147	12394.36	0.999
Non-Hispanic Other	-1.095	1.125	0.330
Male	-0.901	0.478	0.059
Age Range			0.056
Under 35 years old	-0.018	0.748	0.981
35-54 years old	1.077	0.575	0.061
Educational Attainment			0.900
High school or less	0.293	0.716	0.683
Some college	0.346	0.781	0.658
Health Literacy	0.744	0.536	0.165
Married	0.044	0.466	0.924
Economic Hardships			0.100
One economic hardship	-0.963	0.541	0.075
Two or more economic hardships	-1.456	0.745	0.051
Gets needed social and emotional support	0.018	0.777	0.981
Exercised 30 minutes on five days in past week	0.632	0.623	0.310
Respondent is diabetic	0.443	0.455	0.330
Told has heart disease, heart attack, or stroke	1.052	0.707	0.137
Has asthma	0.55	0.601	0.360
Constant	-2.428	1.416	0.086

*Nagelkerke R Square = 0.265

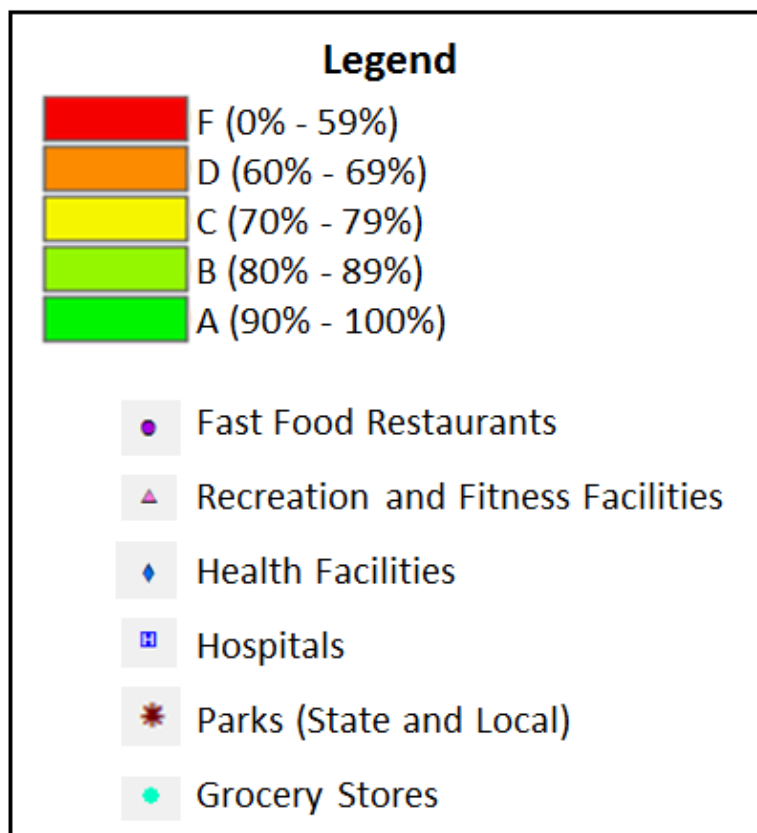
*Percentage correct = 95.3

*-2 Log likelihood = 183.242

Social Determinants Mapping

Social determinants analysis attempts to geographically describe the physical environments where people live and work that can contribute to health outcomes and risks. Social determinants research highlighting the importance of poverty, residential segregation, stigma and discrimination, incarceration, and educational attainment on health outcomes provides a deeper understanding of the complex social and structural determinants of health and pinpoints additional opportunities for enhancing prevention and control efforts.

This CHNA for the first time includes social determinants analysis for each block group in Lancaster County. The scoring for the social determinants mapping is based on five factors: poverty, educational attainment, occupied housing units, employment, and race and ethnicity. Higher scores indicate that a block group has stronger social characteristics. Lancaster has 3 block groups that score an A (1%), 150 block groups that score a B (46%), 134 block groups that score a C (41%), 24 block groups that score a D (7%), and 15 block groups that score an F (5% of the 326 block groups in the county). These maps show that many areas within the county have social and economic characteristics that increase the risk of poor health.



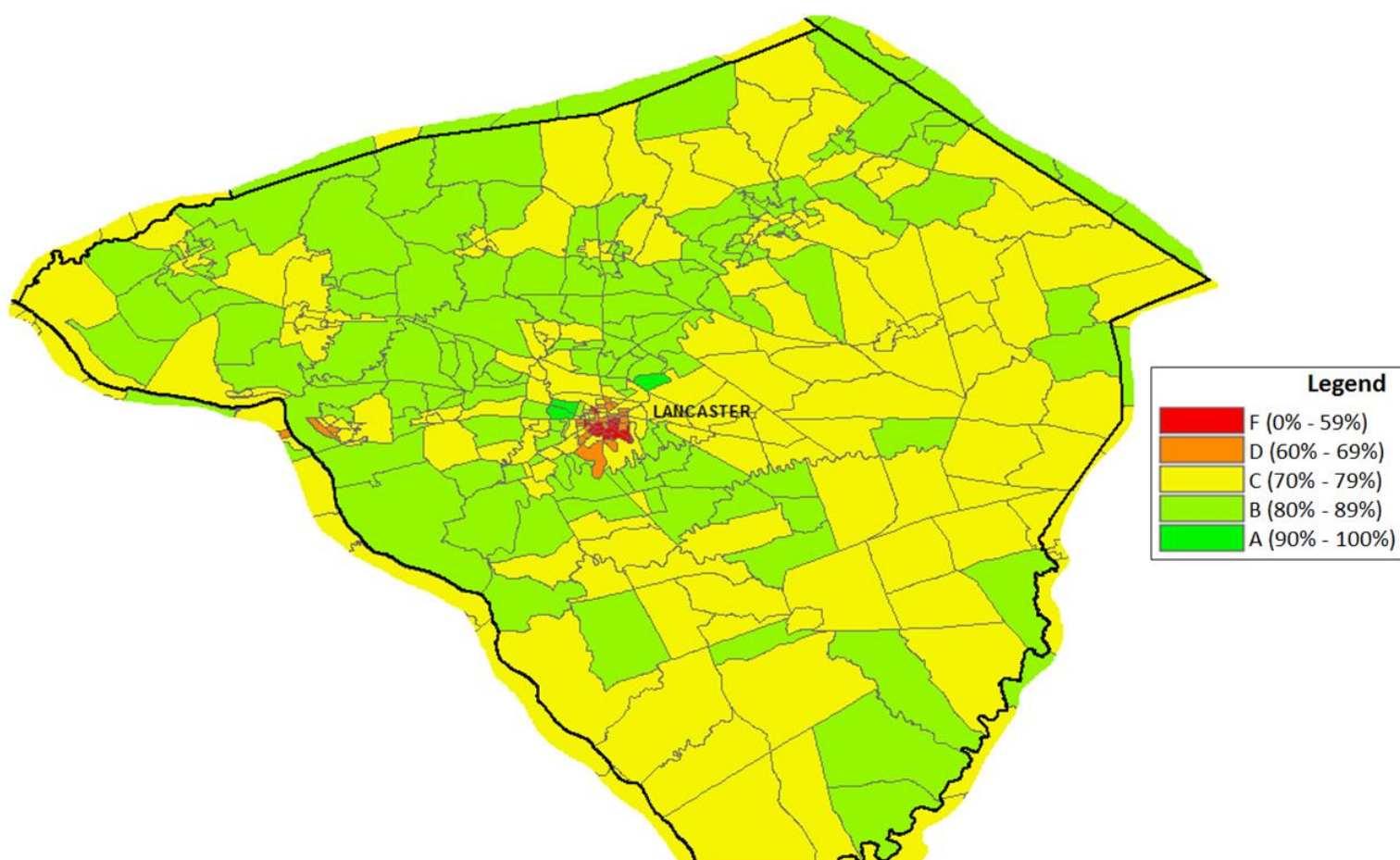


Figure 1. Social Determinants Analysis of Health for Lancaster County. *This figure displays the social determinants scores for each census tract in Lancaster County. Higher scores indicate that a census tract has stronger social characteristics. Lancaster has three block groups that score an A. Lancaster has 24 block groups that rate a D and 15 that rate an F. Calculations by the Center for Opinion Research based on American Community Survey data.*

Fast Food Restaurants

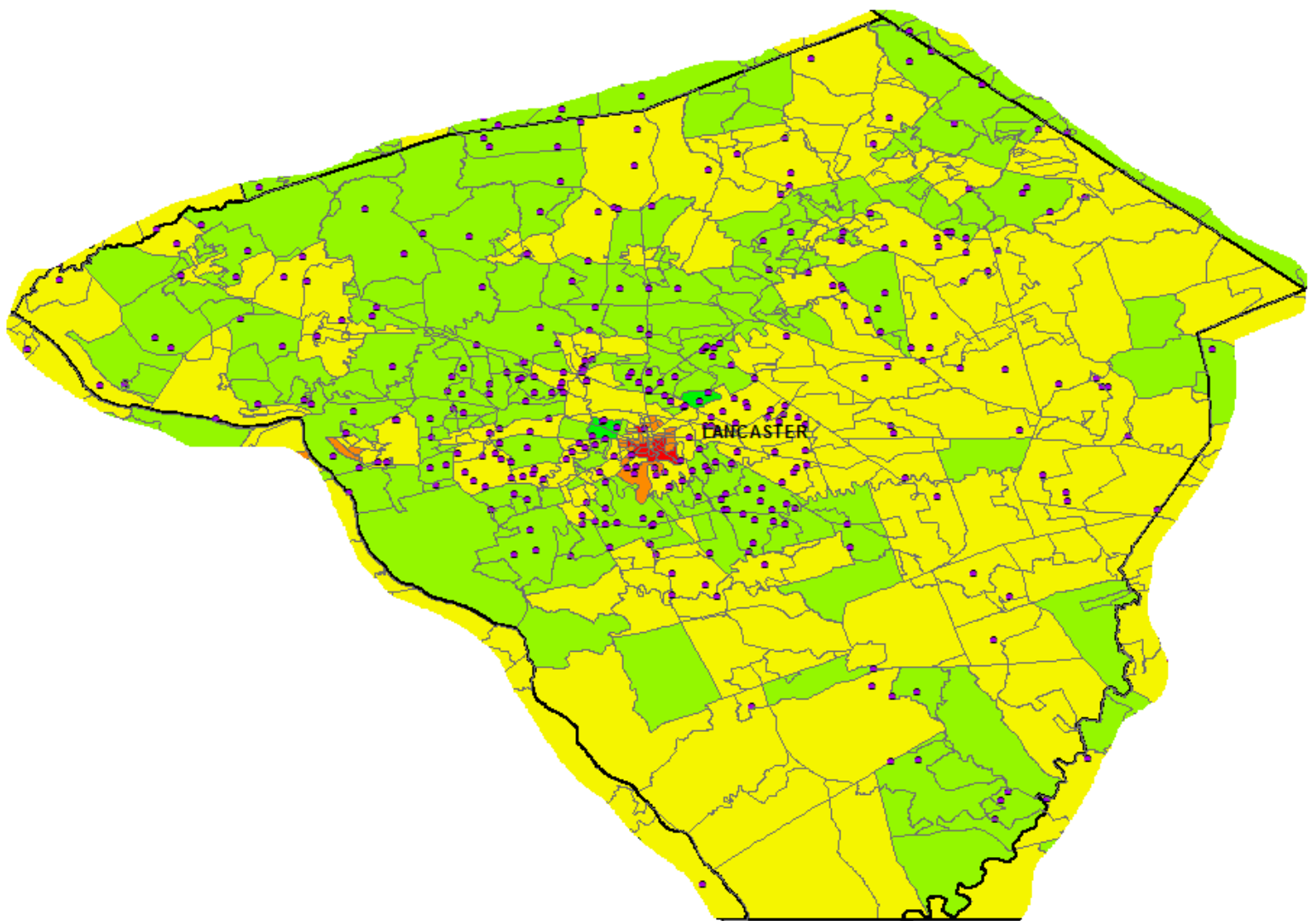


Figure 2. Fast food restaurants in Lancaster County, PA.

Recreation and Fitness Facilities

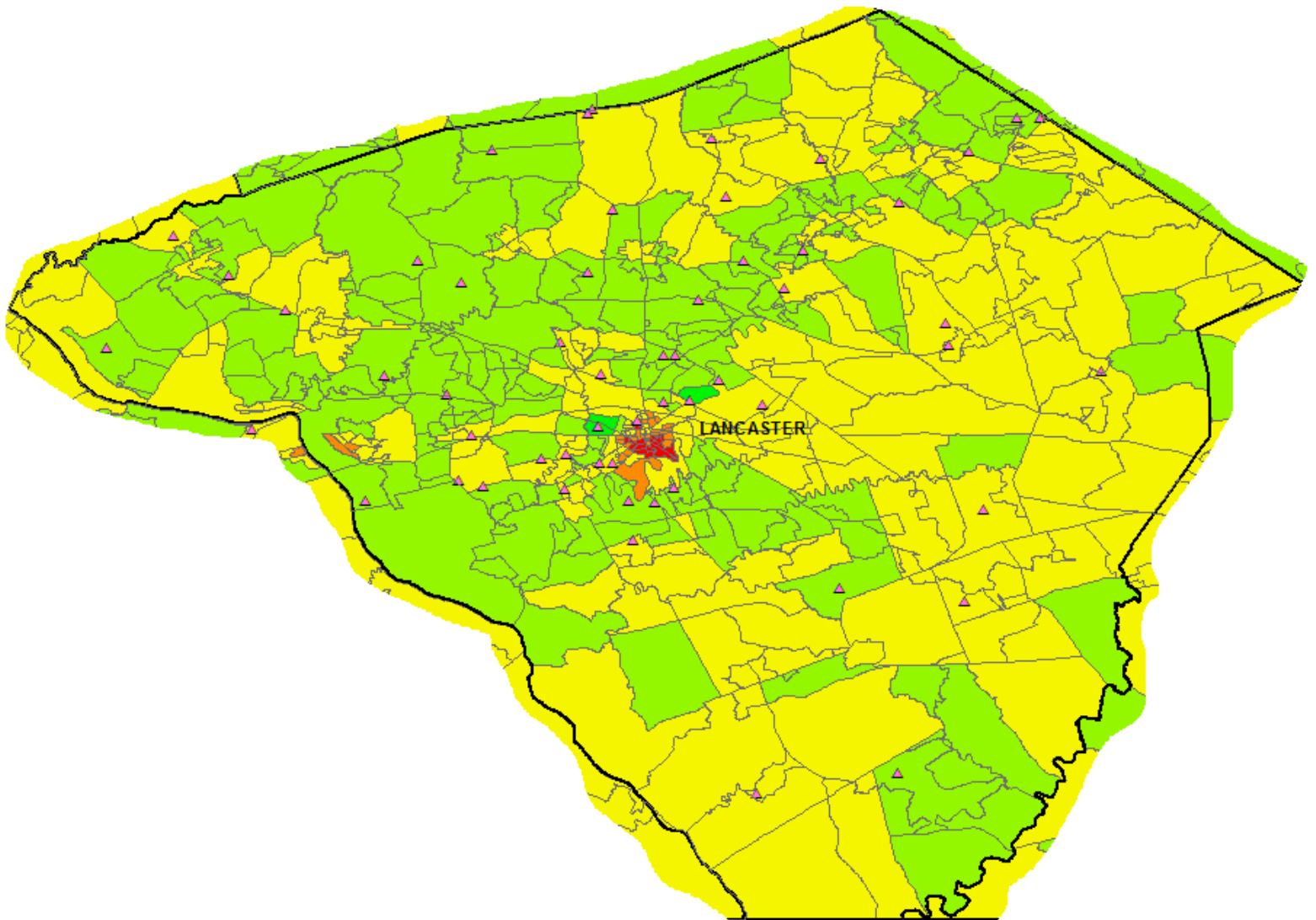


Figure 3. Recreation and Fitness Facilities in Lancaster County, PA.

Health Facilities

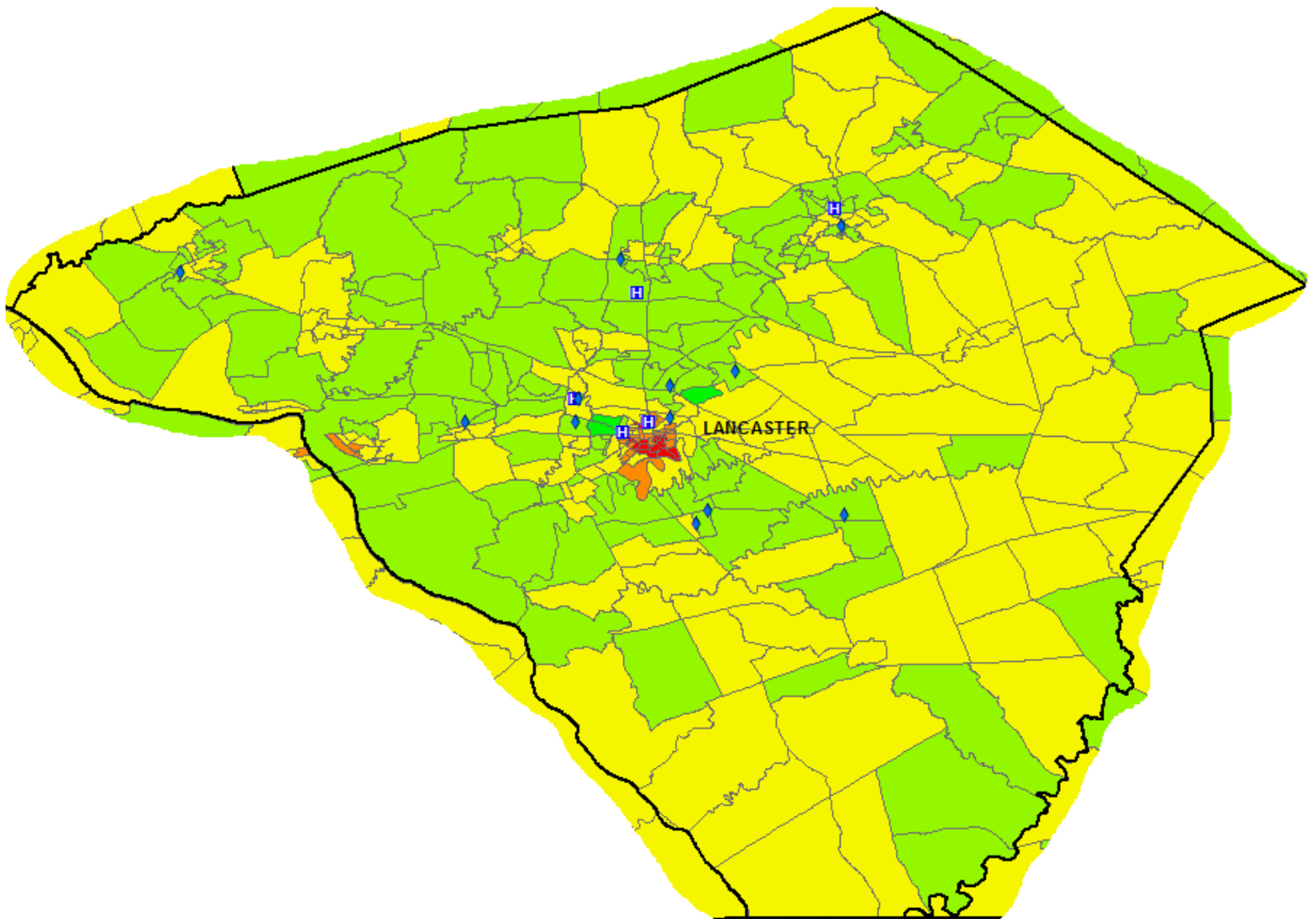


Figure 4. Health Facilities in Lancaster County, PA.

Grocery Stores

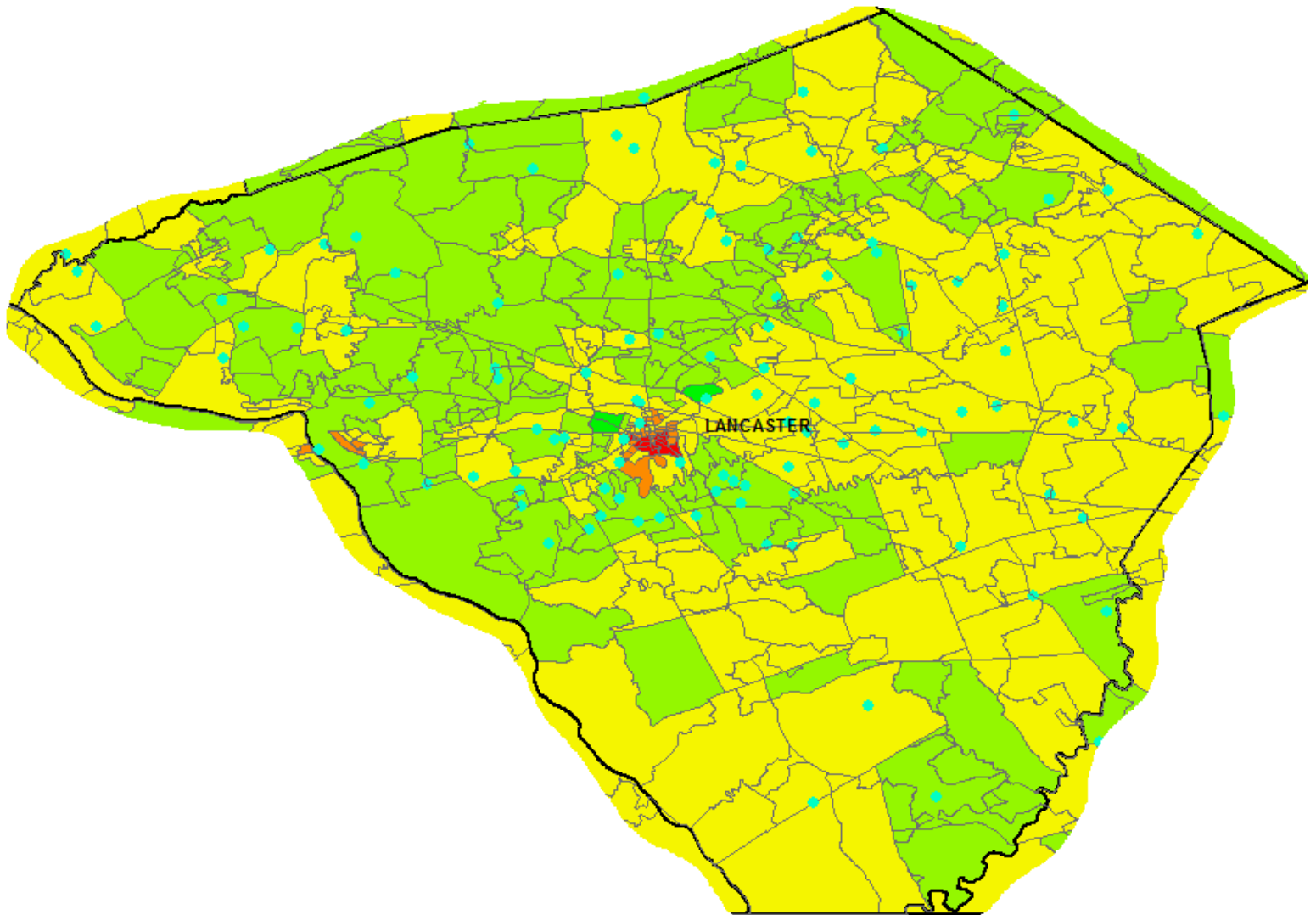


Figure 5. Grocery Stores in Lancaster County, PA.

Parks (State and Local)

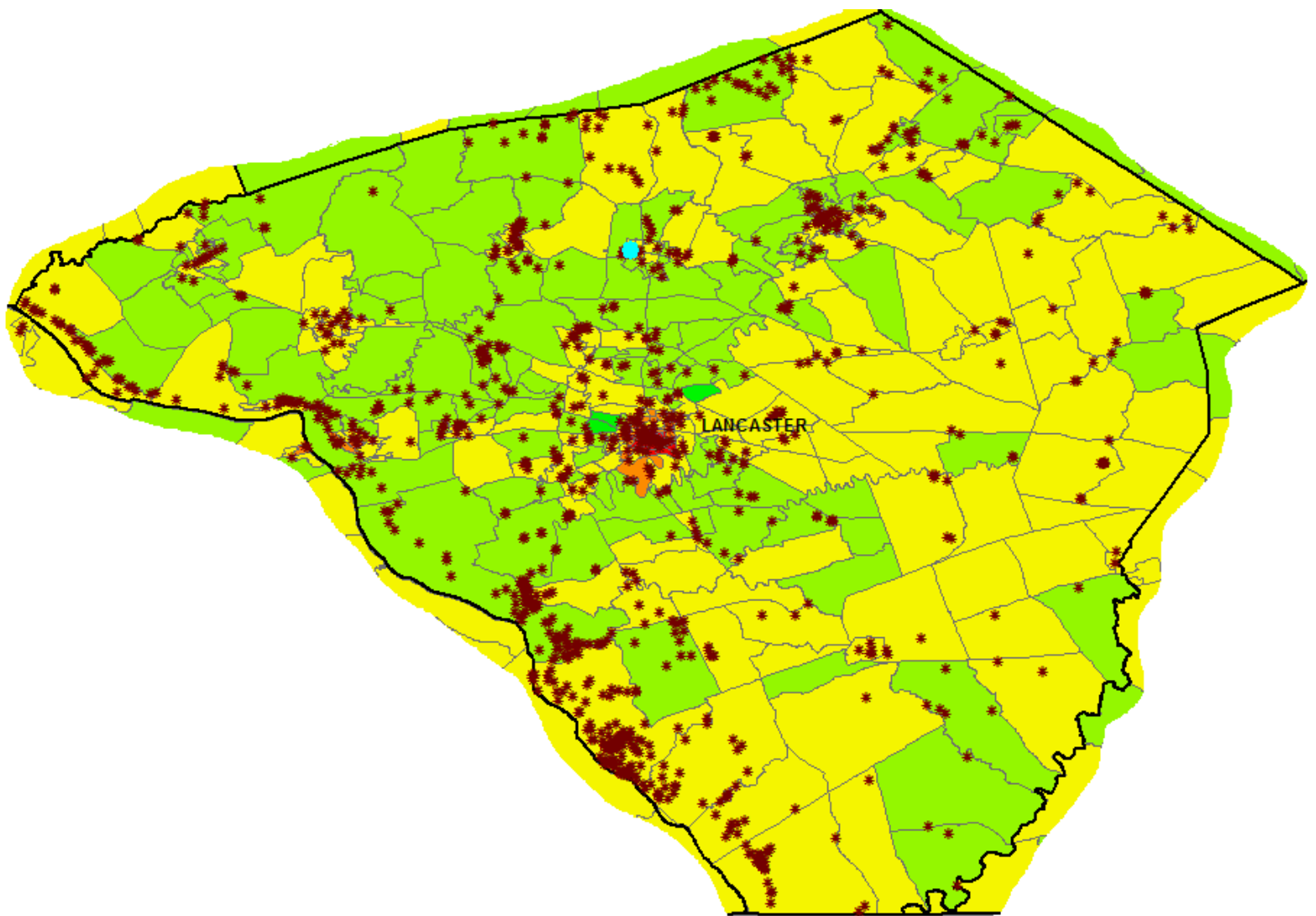


Figure 6. State and Local Parks in Lancaster County, PA.