

Greater New Haven Community Index 2016

Understanding well-being, economic opportunity, and change in Greater New Haven neighborhoods

MAJOR FUNDERS

DataHaven



Yale NewHaven Health Yale New Haven Hospital

Other Funders

The Greater New Haven Community Index makes extensive use of the 2015 DataHaven Community Wellbeing Survey, which completed in-depth interviews with 16,219 randomly-selected adults in Connecticut last year. In addition to the major funders listed above, supporters of the survey's interviews with 1,810 adults in Greater New Haven as well as related data dissemination activities included the City of New Haven Health Department, United Way of Greater New Haven, Workforce Alliance, NewAlliance Foundation, Yale Medical Group, Connecticut Health Foundation, Connecticut Housing Finance Authority, and the Community Alliance for Research and Engagement at the Yale School of Public Health among others. Please see ctdatahaven.org for a complete list of statewide partners and funders.

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Abraham, Mark and Mary Buchanan. (2016). Greater New Haven Community Index. New Haven, CT: DataHaven. Available at ctdatahaven.org.

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CHAPTER 1

Introduction

Measurements of our economy have power when they capture our attention and propel change. How do we know that they measure the quality of people's lives? For 25 years, DataHaven and its community partners have worked to find alternative methods to provide more accurate and human pictures of our neighborhoods, our neighbors, and our families.

The Gross Domestic Product (GDP) and unemployment rates were initially developed to help society distribute taxes and understand working conditions. These numbers are used today as the most powerful gauges of the current health of our economy. But they also highlight the risks of relying on single measures. GDP growth does not describe differences in economic opportunity between neighborhoods, and can underestimate the effects of long-term joblessness or the potential long-term impacts of industrial change.

For 25 years, DataHaven and its community partners have worked to find alternative methods to provide more accurate and human pictures of our neighborhoods, our neighbors, and our families. We find deep, long-term impacts of the Great Recession on families and children in Greater New Haven and Connecticut — impacts that continue today, even as measures like unemployment rates fall to recent

lows. Data reveal a community with resilient cities and towns where people love to live and where residents are in good health. They also paint a picture of great variability, in which opportunities to achieve an optimal level of health and happiness differ dramatically from one zip code to another. This demands the attention of all who seek to secure our region's long-term prosperity.

DataHaven's 2013 Greater New Haven Community Index introduced a new measure of well-being for our region, incorporating information related to financial security, quality of life, health, and youth opportunity. Community members, academic partners, health care providers, and government officials provided input into the selection of what to include in the Index. Overall, our region scored well relative to other large metropolitan areas, but well-being was not shared equally. Most suburban towns and prosperous neighborhoods within the city of New Haven were well above the national average, faring as well as the highest-ranked metropolitan areas in the nation — but neighborhoods just a few blocks away scored near the bottom of the Index.1

Using unprecedented new sources of data on quality of life in our region, this 2016 report helps us compare our neighborhoods and towns with other areas throughout Connecticut. We also look closely at what has changed or not changed over time. While many individual findings might not be surprising, they provide windows allowing us to focus on how neighbors and neighborhoods are doing. Where do we succeed and where do we fail?

We hope that you dig into the details and find issues that matter to you. We invite you to share these stories with family, friends, and neighbors and discuss what needs to be done. As we move forward, we welcome the wisdom of your advice and encourage your new or continued involvement.

Mark Abraham, Executive Director, DataHaven

About the Document

We do not claim that the Greater New Haven Community Index is comprehensive; it is a work in progress that we intend to add to over time based on input from readers and regional partners. While some of the topics here have been the subject of other studies, we believe that there has never been a program that attempted to synthesize all of them into a single report on the interrelationship of quality of life, health, and economic competitiveness of Greater New Haven and its individual towns and neighborhoods. We

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believe that this single-source approach is effective because it creates an inclusive, approachable product and allows readers and partners to see how the work they do across different sectors contributes to a broader whole.

After gathering feedback from readers of our 2013 Greater New Haven Community Index, we developed this updated report based on an extensive analysis of information gathered directly from local residents in 2015 and 2016. Data collection included focus groups, as well as in-depth, live cell phone and landline interviews with randomly-selected adults (1,810 living in the 13 towns of Greater New Haven and 16,219 living statewide) during the landmark DataHaven Community Wellbeing Survey. The Index also draws upon secondary data produced by dozens of agencies and organizations, including the U.S. Census Bureau, Connecticut state agencies, and the Connecticut Hospital Association. Care was taken to ensure that all persons living in Greater New Haven, regardless of age, gender, race, ethnicity, national origin, or other demographic characteristics, would be represented within these sources of information. All data sources are documented in Chapter 5.

This report is designed to meet Yale-New Haven Hospital's and Milford Hospital's individual IRS requirements in Form 990 Schedule H and Notice 2011-52 that discuss the creation of a **Community** Health Needs Assessment (CHNA), as well as to meet the similar needs of local health departments as part of a national accreditation process. This report's health chapter (Chapter 3) is intended to document key health needs in the communities served by all of the hospitals, while using a unified approach to reach the broadest possible audience. An additional CHNA chapter has been created separately based on the work of the Healthier Greater New Haven Partnership, a multi-agency community-hospital coalition which represents the primary service area of the hospitals. The additional chapter contains details on community needs that were identified within each town and selected adjacent areas, and documents the process used to conduct the community health needs assessments within each area including the production of the main Community Index report. The chapters discuss the Community Health Improvement Plan which is being developed and updated within the region. Like the main report, the chapters have benefited from input from dozens of local public health experts. The additional chapter may be found on the individual hospital or DataHaven website when finalized.

GEOGRAPHY

In this report and the additional CHNA chapter, Greater New Haven is generally defined as 13 towns: the city of New Haven, the Inner Ring suburbs (East Haven, Hamden, West Haven), and the Outer Ring suburbs (Bethany, Branford, Guilford, Madison, Milford, North Branford, North Haven, Orange, Woodbridge). In some cases, data are also presented for specific neighborhoods or groups of neighborhoods within New Haven.

In 2016, DataHaven and partner organizations have also published separate reports that cover the adjacent Lower Naugatuck Valley and Fairfield County regions (see website for details).

Measuring How Communities Shape Well-Being

Using our unprecedented statewide survey plus U.S. Census Bureau data, DataHaven constructed concise indicators to illustrate the connection between communities and individuals. More than 16,000 randomly-selected adults living throughout Connecticut participated in the 2015 DataHaven Community Wellbeing Survey (CWS). The survey's questions on health, happiness, and quality of life help us create an understanding of how people evaluate and experience day-to-day life.

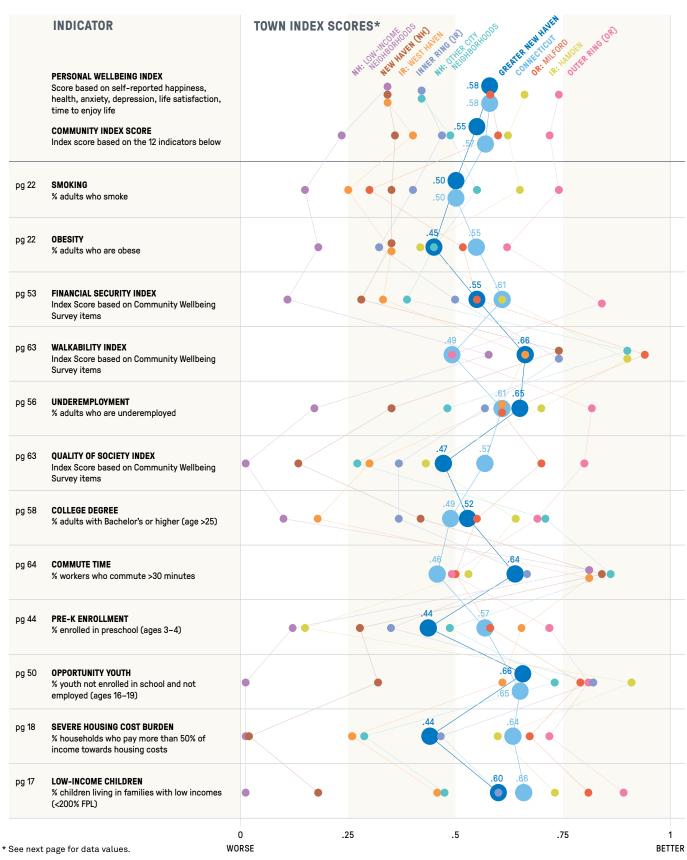
Designed by a panel of local and national experts and drawn from well-known surveys in the United States and United Kingdom, the CWS included a series of questions that are regularly used to evaluate personal well-being:

- How would you rate your overall health?
- How satisfied are you with your life nowadays?
- How happy did you feel yesterday?
- · How anxious did you feel yesterday?
- Overall, to what extent do you have the time you need to do things that you really enjoy?
- During the last month, how often have you been bothered by feeling down, depressed, or hopeless?
- Do you have relatives or friends who you can count on to help you when you need them?

Meanwhile, we developed a broader Community Index that includes Census data plus survey participants' perceptions of what life was like in their communities. These indicators seek to capture

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Personal Wellbeing Index and Community Index



Chapter 1 Introduction

ABOUT THE INDICES

Part of what makes this study unique is that we approach well-being from both the individual and community-wide angles. Community well-being - a neighborhood's shared assets and strengths, and the feeling of trust and cohesiveness between its residents — impacts the personal well-being of residents. Healthy communities are made up of individuals who feel safe and included, have access to opportunities, and are civically engaged.² We used residents' evaluations of their own physical and mental health, happiness, personal relationships, and life satisfaction to create a Personal Wellbeing Index. We also identified 12 key indicators of community well-being, which collectively form our Community Index.

The chart gives a visual overview of index scores by indicator. Higher scores are better, and are based on how each geographic area compares to a wide distribution of neighborhoods throughout Connecticut. The table provides the actual data values for comparison. Page numbers link to additional analysis of each indicator.

Index scores are normalized so that all range from 0 to 1, with 1 representing the preferred (better) outcome. Each town or neighborhood is compared to a large sample of Connecticut zip codes. A town with a score of 1 for an indicator means it performed as well as the top 95th percentile of the zip codes, while a score of 0 indicates the town fits in the bottom 5th percentile for that indicator. Actual values for individual community indicators (described in more detail on the previous page) are shown in the table.

the physical and social environments that people live in — including measures of community-wide health, infrastructure, education, and economics.

Certain indicators in the community index appear personal, but have social components. Obesity is a prime example. To some extent obesity is under an individual's control, but public health research suggests it can spread through social networks and also is influenced by the environment in which one lives."3,4

Greater New Haven's extensive economic. educational, cultural, and health-related assets could translate into a high quality of life for all residents. Yet, levels of well-being are not evenly distributed across communities or neighborhoods, even within the same town. The indices here highlight these differences. We often find correlations between community well-being and personal well-being, with happier, more satisfied residents often living in neighborhoods with stronger indicator scores and less satisfied residents in neighborhoods with weaker scores. Studying both these measures together allows us to better understand the interplay between community strength and individual health and happiness.

The aspiration of this report is that data will reveal the hidden features of our communities and provide a starting point for action of community leaders and policymakers. The indices shown here preview what follows.



Community Index Components Data Values

	PERSONAL WELL- BEING INDEX	COMM- UNITY INDEX	SMO- KING	OBE- SITY	FINANCIAL SECURITY INDEX	WALKA- BILITY INDEX	UNDER Employ- Ment	QUALITY OF SOCIETY INDEX	COLLEGE DEGREE	COM- MUTE TIME	PRE-K Enroll- Ment	OPPOR- TUNITY YOUTH	SEVERE Housing Cost Burden	LOW INCOME CHILDREN
Connecticut	0.58	0.57	15%	26%	0.61	0.49	14%	0.57	37%	34%	64%	6%	18%	30%
Greater New Haven	0.58	0.55	15%	29%	0.55	0.66	13%	0.47	39%	29%	59%	5%	21%	34%
New Haven	0.34	0.36	18%	32%	0.28	0.74	20%	0.13	34%	24%	53%	10%	30%	61%
Low-income neighborhoods	0.34	0.23	22%	37%	0.11	0.58	22%	0.01	17%	25%	47%	14%	35%	75%
Other city neighborhoods	0.42	0.49	14%	29%	0.39	0.90	17%	0.27	48%	24%	61%	4%	24%	42%
Inner Ring	0.42	0.47	17%	33%	0.50	0.74	15%	0.37	31%	29%	56%	3%	21%	34%
Hamden	0.66	0.62	12%	30%	0.61	0.90	12%	0.43	45%	32%	48%	2%	18%	25%
West Haven	0.34	0.40	20%	32%	0.33	0.66	14%	0.30	21%	25%	67%	6%	25%	43%
Outer Ring	0.74	0.72	10%	24%	0.83	0.49	9%	0.80	47%	33%	70%	3%	16%	14%
Milford	0.58	0.60	19%	27%	0.55	0.94	14%	0.70	40%	33%	64%	4%	17%	20%

State Rankings

Connecticut compares well to other states on wellestablished national rankings of community wellbeing and economic opportunity. When created by respected organizations in a valid way, these types of rankings can help bring context to any discussion of regional issues. However, regional or citywide trends can be misleading, because even as a city improves, conditions within its most disadvantaged neighborhoods may be getting worse. Throughout this report, we have drilled down into the statewide and region-wide data by town, neighborhood, and demographic group to assess how specific communities fare on measures of well-being and opportunity. DH



NEIGHBORING STATE RANKINGS FOR COMPARISON

REPORT (YEAR) — PUBLISHER	СТ	MA	RI	NY	NJ
Measure of America (2013–2014) — Social Science Research Council Composite ranking of life expectancy, education and median earnings	1	2	14	8	3
State Equality Index (2015) — Human Rights Campaign Places states in one of four categories based on their LGBT-related legislation and policies (From best to worst: Working Toward Innovative Equality (WTIE), Solidifying Equality (SE), Building Equality (BE), and High Priority to Achieve Basic Equality (HPABE)	1	8	14	8	8
State Integrity Investigation (2015) — The Center for Public Integrity Grading based on the laws and systems states have in place to deter corruption	3	11	5	31	19
Opportunity Index (2015) — Measure of America and Opportunity Nation Composite measure of economic, educational, and civic factors that expand opportunity	3	2	25	15	6
Bloomberg State Innovation Index (2016) — Bloomberg Scored states on R&D intensity, productivity, high-tech density, concentration STEM employment, science and engineering degree holders, and patent activity	5	1	14	17	4
Quality Counts (2016) — Education Week Ranks states on three indices developed by the Education Week Research Center, including factors such as the role education plays in career outcomes, academic performance, and school finances	5	1	13	9	2
America's Health Rankings (2015) — United Health Foundation Study of health behaviors, environmental and social barriers to health, health care and disease risk	6	3	14	13	11
State Energy Efficiency Scorecard (2015) – ACEEE Assessment of policies and programs that promote energy efficiency	6	1	4	9	21
Kids Count (2015) — Annie E. Casey Foundation Composite index of children's economic security, education and health	6	3	31	28	8
New Economy Index (2014) — Information Tech & Innovation Fdn (ITIF) Index of digital economy, economic dynamism and global integration	8	1	19	12	10
State Technology and Science Index (2014) — Milken Institute Study of economic performance in technology and science	9	1	13	11	16
State Long-Term Services and Supports Scorecard (2014) – AARP Measures systems that help older people and adults with disabilities	12	18	38	25	26
State of American Wellbeing (2015) — Gallup Composite score based on happiness, emotional health, economic wellbeing and other topics	18	30	26	40	32
Volunteer Rate Rankings (2014) — Corporation for National & Community Service Ranking based on average volunteer rates	20	33	38	50	45
Assets & Opportunity Scorecard (2016) — Corporation for Enterprise Development Ranking based on 67 outcome measures to assess the financial security and economic opportunity of U.S. households, including categories such as financial assets and income, business and jobs, housing and homeownership, healthcare, and education	23	14	35	32	25
Average ranking among all 50 U.S. states	8	9	20	21	16

CHAPTER 2

A Changing Region

An Introduction to the Chapter

- In Greater New Haven, 42 percent of both African-American children and Latino children live in poor neighborhoods — those where the average family income (AFI) is less than half the state AFI. Just 3 percent of white children live in poor neighborhoods.
- From 2005 to 2014, the number of households that were severely cost-burdened (paying more than half of their total income towards housing costs) rose by 16 percent in New Haven County.



Population and Growth

In 2014, Greater New Haven had a total population of 465,200. New Haven, the most populous and densest of the 13 towns, is the region's major city. Hamden, East Haven, and West Haven surround the city and are considered to be "inner ring" suburbs; some parts of the Inner Ring have population and density characteristics that are similar to city neighborhoods. The other towns form the region's "Outer Ring."⁵

Since 1990, the region's population increased by 7 percent, at a rate slower than Connecticut's population overall (up 9 percent). Every town in the region grew in population; Hamden grew the most, adding more than 9,100 people and Madison grew the fastest, at a population growth rate of 18 percent. As a whole, the Outer Ring towns grew faster than the city or Inner Ring from 1990 to 2014.⁶

Recently, however, the city and Inner Ring have experienced growth; New Haven gained 6,900 people — more than any other town in the region — from 2000–14.7 Over this period, New Haven, Hamden, and West Haven grew at faster rates than the regional level, while many of the Outer Ring towns had near-zero or negative population growth.

Age Groups and Aging

In Greater New Haven between 1990 and 2014, the number of young adults (ages 18–34) decreased by 11 percent, or 13,850 people, and the population of children (ages 0–17) grew by just 1,000. Meanwhile, the older age groups increased in size; the population of middle-aged adults (ages 35–64) grew the fastest, at a rate of 22 percent (+33,600 people).

Fewer young people and more aging adults have made the total region population older in general, trends that mirror the statewide changes. The growth in older adults is due to Baby Boomers, who began turning 65 in 2011, and is occurring nationally and internationally. This trend had the largest impact on Outer Ring suburbs, which have seen a significant increase in median age since 1990; for example, the median age in Branford rose from 41 in 2000 to 48 today.

From 1990 to 2014, the city of New Haven experienced population loss in every age group except for middle-aged adults. However, its median age (31) is still much younger than that of other towns, and in recent years the city has witnessed an increase in the number of young adults and preschool-age children living there. The Inner Ring also had decreasing populations of young and older adults, but the numbers of children and middle-aged adults grew. The Outer Ring towns, on average, had increasing numbers of children, middle-aged adults, and older adults; however, the number of young adults living there decreased.⁹

Over the next decade, older adults (ages 65 and over) are projected to be the only group to increase significantly in size. From 2014 to 2025, the older adult population will grow by 43 percent, or 30,100.¹⁰ This trend will have a major impact on all towns within the region. (FIG 2.2)

Racial/Ethnic Groups and Increasing Diversity

In 2014, 35 percent of Greater New Haven residents identified as racial or ethnic minorities compared to 21 percent in 1990. Over this period, the minority population increased by 73,200 individuals, up 80

Population and Growth in Greater New Haven

POPULATION IN GREATER NEW HAVEN AND TOWNS, 1990-2014

	TOTAL POPULATION 1990	TOTAL POPULATION 2014	PERCENT CHANGE 1990–2014	DENSITY, 2014 Pop. Per square Mile	MEDIAN AGE 2000	MEDIAN AGE 2014	MEDIAN CHANGE
United States	248,709,873	314,107,084	26%	91	35	37	+2
Connecticut	3,287,116	3,592,053	9%	742	37	40	+3
Greater New Haven	436,552	465,227	7%	1,528			
Bethany	4,608	5,546	20%	262	41	45	+4
Branford	27,603	28,066	2%	1,286	41	48	+7
East Haven	26,144	29,139	11%	2,369	39	43	+4
Guilford	19,848	22,405	13%	475	42	48	+6
Hamden	52,434	61,605	17%	1,887	38	38	l +0
Madison	15,485	18,284	18%	506	41	47	+6
Milford	49,938	53,039	6%	2,391	39	44	+5
New Haven	130,474	130,553	0%	6,989	29	31	+2
North Branford	12,996	14,387	11%	581	39	46	+7
North Haven	22,247	23,997	8%	1,151	42	46	+4
Orange	12,830	13,947	9%	812	43	45	+2
West Haven	54,021	55,290	2%	5,143	36	36	l +0
Woodbridge	7,924	8,969	13%	477	43	47	+4

The Changing Age Structure of Greater New Haven

POPULATION AND CHANGE BY AGE GROUP, 1990-2025



Race and Ethnicity in Greater New Haven

POPULATION BY RACE/ETHNICITY AND AGE, 2010



64% / 196,817,552 PEOPLE 12% / 37,685,848 PEOPLE 16% / 50,477,594 PEOPLE 8% / 23,764,544 PEOPLE



71% / 2,546,262 PEOPLE 9% / 335,119 PEOPLE 13% / 479,087 PEOPLE 6% / 213,629 PEOPLE



^{*} Percentages may not add up to 100 percent due to rounding.

percent. Meanwhile, the size of the self-identified white population decreased by 44,500 people (down 13 percent).¹¹ Racial and ethnic diversity is highest among the youngest Greater New Haven residents, a trend suggesting that the diversity of the region's population will continue to increase in the future.¹²

In this report, we will refer to racial or ethnic minorities, or people of color, as people who do not identify as non-Hispanic white. This group includes people who do not identify racially as white, as well as all people who identify ethnically as Hispanic, regardless of their race. For a variety of reasons related to historical and current policies, race and ethnicity are closely linked to differences in

residential settlement patterns, access to economic opportunity, and other social factors.

A majority of Greater New Haven residents are white non-Hispanic (65 percent); 15 percent identify as Black or African American, 7 percent as some other race but not ethnically Hispanic, and 13 percent as Hispanic. New Haven is the most racially and ethnically diverse town in the region, with 68 percent of the total population, or 88,500 individuals, identifying as people of color. Thirty-seven percent of Inner Ring residents and 11 percent of the Outer Ring are people of color.¹³

The "majority minority" racial/ethnic composition of the city's population, in contrast to

the predominantly white suburbs, indicates that regional diversity is not indicative of diversity at the community-level; similar to many other U.S. metropolitan areas, neighborhoods tend to be either mostly people of color or mostly white people. The relatively high levels of neighborhood-level racial residential segregation are linked to high economic segregation as well (see Income Inequality section on page 15).14

Residential divisions by race and income are particularly apparent among children. Among the population ages 0–17 in Greater New Haven, 44 percent of all African-Americans and 54 percent

MIGRATION TO GREATER NEW HAVEN

In 2014, Greater New Haven had a residential mobility rate of 13 percent, (60,300 people) with that share of the total population moving to a new home during the year. Five percent of all residents moved to the area from outside New Haven County. Out of those who moved, 6 percent, or nearly 3,400 people, relocated to Greater New Haven from a foreign country. Residential mobility rates are higher among city residents and renters.¹⁹

Analysis of tax records suggests that in 2014, New Haven County had net out-migration, with more people leaving the county than moving to it from somewhere else. The largest numbers of in-migrating New Haven County residents lived previously in Fairfield County, Hartford County, or New York City. Fairfield County and New York City had net "in-migration populations" to New Haven County — meaning that there were more people who moved from those locations to New Haven County, than New Haven County residents who moved to those locations. ²⁰ Florida and Hartford County were the most popular destinations for former New Haven County residents who moved away; both areas had more residents moving there from New Haven County, than vice versa.

of all Latinos live in "poor" neighborhoods, where the average family income (AFI) is less than half the state AFI. Twenty-four percent of white and 24 percent of Asian children live in poor neighborhoods. The average white student in New Haven County attends a primary school (grades K–8) with a poverty rate of 28 percent, compared to rates of 72 percent and 71 percent for the average African-American and Hispanic student, respectively.¹⁵

Immigration in Greater New Haven

From 1990 to 2014, the number of foreign-born people living in Greater New Haven increased by 27,200, nearly doubling in size and reflecting a recent uptick in immigration nationwide. In 2014, 12 percent of the county-wide population, or 56,100 individuals, were immigrants. More than one-third of the region's immigrants reside in New Haven, where 16 percent of all residents are foreign-born people. Hamden, Milford, and West Haven also had large immigrant communities: each greater than 5,000 people and representing more than 1 in every 10 residents.

Immigrants bring to Greater New Haven the cultural perspectives of their more than 120 home countries from every region around the world.¹⁸ The largest communities of immigrants residing in the region, by country of birth, are Mexican, Chinese, Indian, Jamaican, and Italian.

In general, immigrants increase the economic resilience of the region: four-fifths of immigrants are of working age, and a majority of working-age



Characteristics of Immigrants in Greater New Haven

FOREIGN-BORN RESIDENTS OF GREATER NEW HAVEN, 2014

	TOTAL POPULATION	PERCENT FOREIGN-BORN	TOTAL FOREIGN- BORN POPULATION	NATURALIZED CITIZENS	AGE 18-64	ENTERED US 2000-14	BA OR HIGHER ED	1990–2014 CHANGE Population Foreign-Born
United States	314,107,084	13%	41,056,885	46%	80%	38%	28%	108%
Connecticut	3,592,053	14%	490,460	48%	79%	40%	33%	76%
Greater New Haven	465,227	12%	56,105	44%	80%	45%	43%	94%
New Haven	130,553	16%	20,569	27%	85%	60%	44%	94%
Inner Ring	146,034	13%	19,270	45%	82%	43%	36%	103%
East Haven	29,139	9%	2,687	60%	73%	31%	27%	121%
Hamden	61,605	13%	8,062	48%	80%	44%	51%	115%
West Haven	55,290	15%	8,521	38%	86%	45%	24%	88%
Outer Ring	188,640	9%	16,266	63%	72%	29%	50%	84%
Milford	53,039	10%	5,099	51%	75%	36%	50%	110%

immigrants (71 percent statewide) are employed and pay taxes.²¹ In Greater New Haven, immigrants are more likely to hold bachelor's degrees (43 percent) than residents born in the U.S. (38 percent).

In total, 44 percent of immigrants living in Greater New Haven are naturalized U.S. citizens. Of the region's 31,535 non-citizen residents, more than half are legal U.S. residents, while an estimated 14,500 are undocumented immigrants.²² Forty-five percent of foreign-born residents of the region entered the U.S. recently, at some time since 2000.²³

Within Greater New Haven, differences exist between groups of immigrants. New Haven foreignborn residents are more likely to have recently arrived in the U.S or to be of working age, and less likely to be naturalized citizens — compared to their counterparts in suburban towns.²⁴ Immigrants who live in New Haven are more likely to be either highly educated or not to have graduated high school, compared to immigrants residing in other towns.²⁵

Refer to Understanding the Impact of Immigration in Greater New Haven (2015) for more information on this topic.²⁶



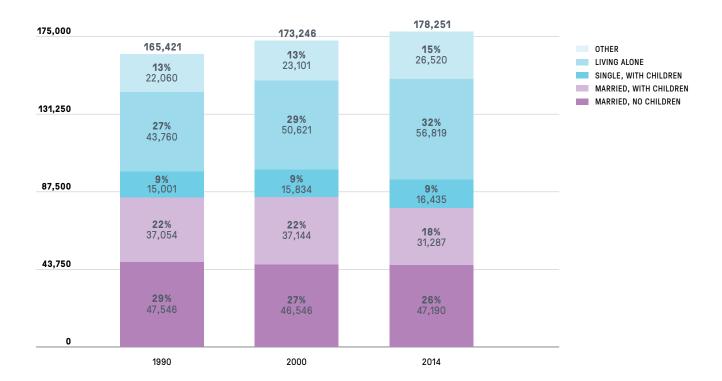
Households and the Homes Where They Live

Of the 178,250 households in Greater New Haven, more are single adults living alone, non-related adults living together, or single adults with children, compared to past decades. From 1990 to 2014 the numbers of "traditional households" — married couples and married couples with children — decreased.²⁷ This trend is occurring across the nation and is projected to continue. The changes are due to people marrying and having children later in life, higher divorce rates, and more and longer-living older adults (statewide, 40 percent of adults living alone are 65 years or older).²⁸

A majority of existing houses in the region (58 percent) are single-family homes, though multifamily apartments or condominiums are more concentrated in the city of New Haven and parts of neighboring suburbs.²⁹ Multi-family units are more likely to be rental or affordable units, attracting

The Changing Household Structure of Greater New Haven

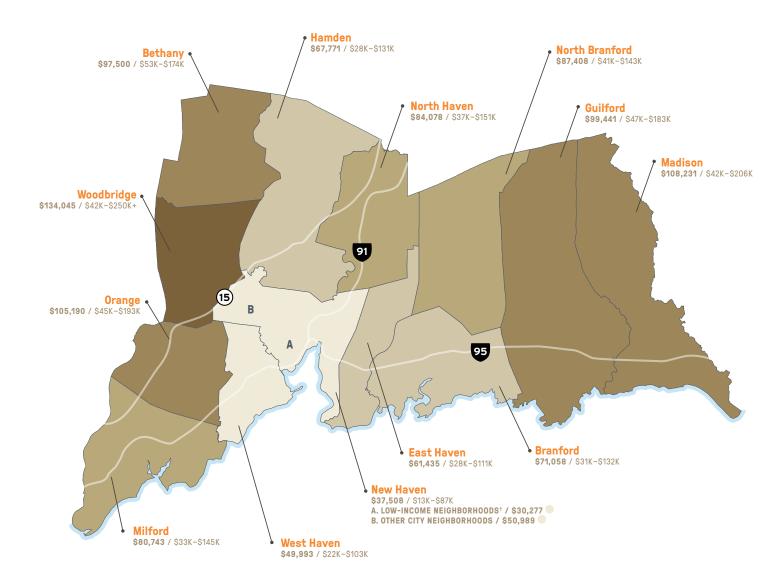
HOUSEHOLDS IN GREATER NEW HAVEN, 1990-2014



Income and Income Inequality in Greater New Haven

MEDIAN, BOTTOM, AND TOP HOUSEHOLD INCOMES IN GREATER NEW HAVEN TOWNS, 2014





^{* &}quot;Median Income" for Greater New Haven is the weighted average of the median income of 13 towns. Bottom 20% and Top 20% Income are for New Haven County.

^{† &}quot;Median Income" for the Low-Income Neighborhoods and Other City Neighborhoods are the weighted average of the median income of all Census Tracts in those areas.

young workers, single adults, or households that otherwise do not want, or cannot afford, to own their home.

The increase in "non-traditional" households and those households' preference for smaller units in urban settings have helped to shift regional housing demand towards multi-family units in cities.30 Fifty-eight percent of homes built in Greater New Haven from 2010 to 2014 were multi-family, compared to 26 percent built from 2000 to 2004.31 The city of New Haven captured 38 percent of the region's total housing construction from 2010 to 2014, versus to just 11 percent from 2000 to 2004.

County-wide, the homeownership rate is 61 percent: this represents an overall increase in homeownership since 2000 but is still below a peak of 65 percent in 2009.32 Homeownership is significantly lower in the city (30 percent) compared to Outer Ring suburbs (81 percent).33

Income Inequality in Greater New Haven

Households in Greater New Haven have a median income of \$65,618 — around \$12,000 higher than the nation and about \$4,000 below the state.34 However, income is not evenly distributed between the region's households. In New Haven County, the top 20 percent of households earned at least \$124,250, about 5.25 times more than what the bottom 20 percent earned. Inequality is highest in the city, where the top 20 percent of households earn 6.5 times more than the bottom 20 percent of households.

According to the Brookings Institution, income inequality in Greater New Haven is higher than in all but a few regions nationwide.35 The gap between rich and poor in the region is also widening faster than in all but a few other areas in the U.S.

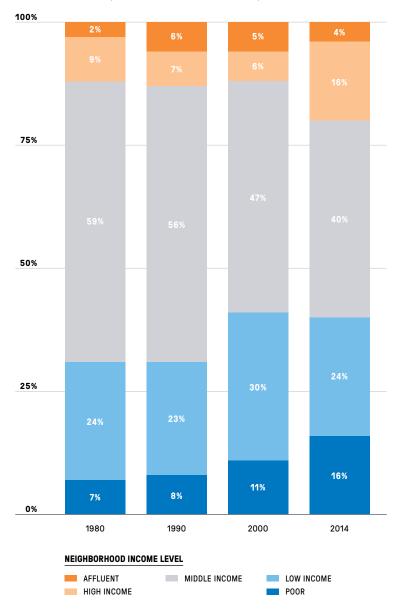
Neighborhood-income segregation occurs when people with extreme incomes — who are very rich or very poor — mostly live in neighborhoods where other residents have similar levels of income. In Greater New Haven, the poverty rate is 3 percent in "affluent" neighborhoods, where the average family income (AFI) is \$208,000, 1.75 times the statewide average, compared to a 33 percent poverty rate in "poor" neighborhoods, where the AFI is \$45,250, less than half the statewide average.36

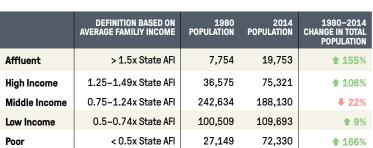
The county population living in these extreme-income neighborhoods has steadily increased, at the expense of "middle-income" neighborhoods — those with AFI between 75 and 125 percent of the statewide average. Forty percent of Greater New Haven residents lived



Growing Neighborhood Income Inequality in **Greater New Haven**

DISTRIBUTION OF POPULATION BY NEIGHBORHOOD INCOME LEVEL, GREATER NEW HAVEN, 1980-2014





in middle-income neighborhoods in 2014, down from 59 percent in 1980. Just 35 percent of the region's children lived in these middle-income neighborhoods in 2014.37

Income segregation results in unequal access to community resources. Through taxes, charitable giving, and other spending, high-earning households help communities support resources such as wellfunded schools, parks, and other infrastructure. In general, residents of poor neighborhoods themselves have low incomes and are less able to support their communities financially.38



The Low-Income Population in Greater New Haven

LOW-INCOME POPULATION BY AGE GROUP, GREATER NEW HAVEN, 2000-2014

	POPULATION, POVERTY INCOME KNOWN*	POPULATION, LOW-INCOME	POPULATION, LOW-INCOME RATE	AGE 0-17, POVERTY INCOME KNOWN	AGE 0-17, LOW-INCOME	AGE 0-17, LOW-INCOME RATE	AGE 0-5, POVERTY INCOME KNOWN	AGE 0-5, LOW-INCOME	AGE 0-5, LOW-INCOME RATE
United States	306,226,394	105,773,407	35%	72,637,885	32,116,429	44%	23,709,036	11,329,330	48%
Connecticut	3,481,115	823,045	24%	785,691	233,352	30%	232,654	78,316	34%
Greater New Haven	446,790	119,925	27%	96,672	32,902	34%	28,739	10,521	37%
New Haven	121,638	59,203	49%	28,384	17,427	61%	9,755	5,857	60%
Inner Ring	137,863	36,179	26%	29,026	9,840	34%	9,347	3,297	35%
East Haven	28,872	7,027	24%	5,659	1,863	33%	1,631	572	35%
Hamden	56,596	12,239	22%	11,588	2,913	25%	3,891	1,034	27%
West Haven	52,395	16,913	32%	11,779	5,064	43%	3,825	1,691	44%
Outer Ring	187,289	24,543	13 %	39,262	5,635	14%	9,637	1,367	14%
Milford	52,701	8,517	16%	10,439	2,085	20%	3,212	651	20%

^{*} The US Census Bureau can identify poverty status — or if people live above or below the poverty threshold — for people who are not: inmates in institutions; in college dorms; or under age 15 and not related by birth, marriage, or adoption to a reference person. The same definition applies for other "poverty income known" populations.

Living in Economic Hardship

In 2014, 13 percent of the total Greater New Haven population lived in poverty, meaning they were in households with annual incomes below the federal poverty line (or FPL, equivalent to \$15,730 per year for a family of two, \$23,850 for a family of four). Twenty-seven percent of residents were lowincome, living in households with annual incomes of less than two times the FPL (low-income status includes people living in poverty).³⁹

The low-income rate in Greater New Haven overall is slightly above the state average, but certain neighborhoods have much higher rates than the county or state average. Children are significantly more likely to live in low-income households than the population as a whole; the low-income rate is 34 percent among the population ages 0–17 in Greater New Haven (and it is even higher, at 37 percent, among the population ages 0–5).

The low-income threshold used in this report identifies individuals and households who are likely to be living in severe economic hardship;

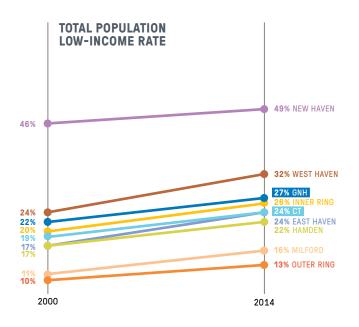
however, this income-based definition does not perfectly capture financial stress. On the 2015 DataHaven Community Wellbeing Survey, 33 percent of all adults living in the region, including many with household incomes above the low-income threshold, said they were just getting by financially or finding it difficult to manage.⁴¹

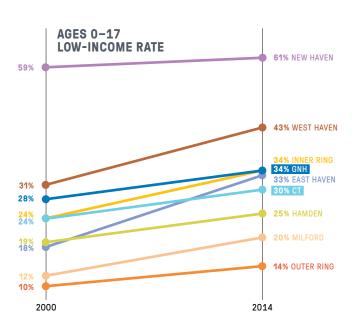
For many of these adults, the costs of certain basic needs constitute an unaffordable share of their household budget. For example, in New Haven County in 2012, a typical family of four needed \$66,088 to cover all living costs, according to the United Way. Based on this cost of living estimate, 45 percent of New Haven County households earned less than what they needed to pay for food, housing, transportation, childcare, healthcare, and other necessary expenses. 42 Inability to pay for these necessities can create harmful outcomes on individual physical and economic well-being, such as food insecurity (see page 28), lack of child care (see page 40), limited access to cars or reliable transportation (see page 52), or housing cost-burden.



The Growing Low-Income Population in Greater New Haven

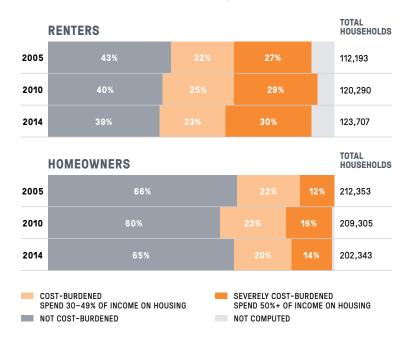
LOW-INCOME POPULATION IN GREATER NEW HAVEN, 2000-2014





Housing Cost Burden in Greater New Haven

HOUSEHOLDS PAYING MORE THAN 30 PERCENT OF INCOME ON HOUSING COSTS, 2005-14*



 Percentages do not add up to 100% because households for whom cost-burden is not computed are not included

Characteristics of Greater New Haven Households

HOUSEHOLDS BY HOMEOWNERSHIP AND SEVERE COST-BURDEN RATES, 2014

	HOUSEHOLDS	HOMEOWNERS	HOME OWNERSHIP RATE	SEVERELY COST BURDENED	SEVERE COST BURDEN RATE
United States	116,211,092	74,787,460	64%	18,552,117	16%
Connecticut	1,356,206	913,043	67%	239,454	18%
Greater New Haven	178,251	108,625	61%	38,085	21%
New Haven	49,945	14,722	29%	14,735	30%
Inner Ring	55,052	34,454	63%	11,620	21%
East Haven	11,215	7,989	71%	2,218	20%
Hamden	23,374	15,312	66%	4,301	18%
West Haven	20,463	11,153	55%	5,101	25%
Outer Ring	73,254	59,449	81%	11,730	16%
Milford	21,199	16,379	77%	3,621	17%

Housing Affordability

Seven percent of Greater New Haven adults reported not having enough money for housing or shelter, indicating that they faced housing insecurity.43 Many more residents in the region — 44 percent — are housing-cost burdened, spending more than the federally-recommended 30 percent of total income on housing costs. Twenty-one percent were severely cost-burdened, putting more than half of their budget towards mortgage and ownership costs or rent.44 The housing costburden rate is slightly higher in the New Haven area than statewide, in part due to higher housing costs: at minimum, a single adult pays \$926 per month in housing costs in New Haven County, compared to the \$786 state average. 45 Housing cost-burden is even more prevalent in some New Haven neighborhoods: 35 percent of households in the city's low-income neighborhoods pay more than 50 percent of income on housing. The problem is also more serious among renters compared to homeowners.46 Further, the rates of housing cost burden have increased dramatically over the past few decades, as household incomes have grown slower than the average cost to rent or own a home in the region.⁴⁷ From 2000 to 2014, the number of households in the region that were severely costburdened increased by 68 percent.48

While housing cost-burden does not always result in housing insecurity, it does limit money available for other basic necessities, leaving households to choose which bills to pay. ⁴⁹ For example, a national survey found that of the 21 percent of Americans who reported struggling to pay their rent or mortgage this year, 57 percent said they made cuts to their spending on groceries. ⁵⁰

CHAPTER 3

A Healthy Region

Greater New Haven overall is healthy when compared to national benchmarks of health and well-being. The typical Greater New Haven resident reports levels of overall health and well-being that are better than those of the typical US resident. Similarly, death rates—compared either in terms of all-cause mortality or premature deaths—are significantly lower than national averages.

In Greater New Haven, indicators that measure some the social determinants of health, such as access to health insurance, economically-secure families, safe neighborhoods, and school systems with higher graduation rates, are mostly better than national averages. The Federal Government's Healthy People 2020 initiative includes some of these social determinants among their "Leading Health Indicators" because of their ability to predict and contribute to the health of area residents. ⁵¹

The high health status of Greater New Haven overall can be traced back to its historical economic advantages, infrastructure, and social policies, as well as to the health of the places its people arrived from throughout recent decades. Health may also be a predictor of the region's future success, as healthy communities are more likely to retain productive businesses and individuals. ⁵²

Differences by Place, Race, and Age

The high health status of the population as a whole hides vast differences in measures of health and well-being. Towns and neighborhoods vary greatly according to age, race, and economic status. These factors greatly affect the burden and types of health conditions that are of concern in each community.

Areas which are older have a greater burden of age-related illnesses, such as cancer. Issues such as dementia will grow as a concern in all towns as the population of older seniors rises, within both cities and suburban areas (see Chapter 2).

Throughout Greater New Haven, economically-distressed neighborhoods see the effects of their residents having lower socio-economic status as well as being significantly younger in average age. These factors result in a concentrated burden of conditions such as adverse birth outcomes, childhood asthma, lead poisoning, violence, and sexually transmitted diseases. In addition, it appears that chronic diseases—especially heart disease, diabetes, and kidney disease—begin to impact populations living in distressed neighborhoods at a younger age.

Health inequities are a particular concern within communities of color, as well as other communities that have faced longstanding barriers to achieving a high health status. Barriers to achieving a high health status often overlay specific places, and are linked to the differential policies and practices that impact racially-segregated neighborhoods currently and throughout every century of American history. This document focuses on broadly reporting disparities by place, and in doing so, it reveals the differences in health status between zip codes where people of color are currently concentrated and zip codes that are almost-exclusively white.

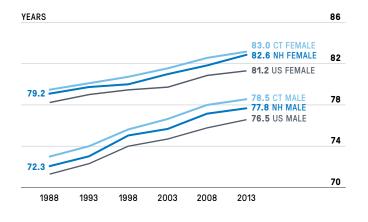
The Community Health Needs Assessment process (see Chapter 1 and conclusion of this chapter) creates a platform for residents and multisector leaders to provide input on and understand how the distribution of the region's assets can create barriers that prevent some groups from achieving an optimal health status.

Chapter 3 A Healthy Region 21

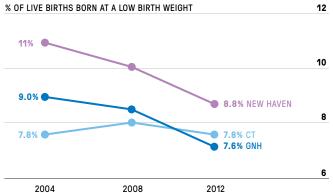
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Greater New Haven Health Trends

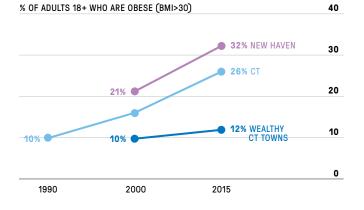
LIFE EXPECTANCY IN NEW HAVEN COUNTY (NH) EXCEEDS THE US AVERAGE



RATES OF LOW BIRTH WEIGHT HAVE BEEN DECLINING

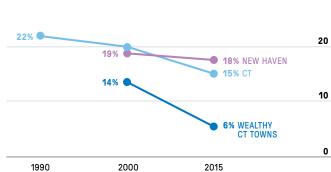


THE DISPARITY IN ADULT OBESITY RATES IS GROWING



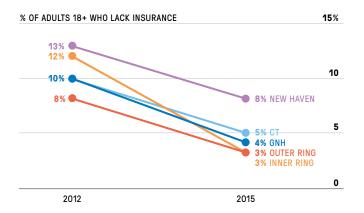
ADULT SMOKING RATES ARE DECLINING

% OF ADULTS 18+ WHO ARE CURRENT CIGARETTE SMOKERS

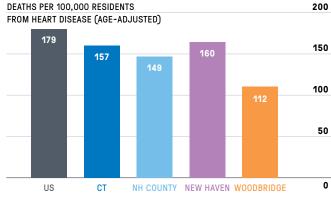


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HEALTH INSURANCE COVERAGE HAS IMPROVED DRAMATICALLY



MORTALITY RATES FROM HEART DISEASE ARE MUCH LOWER IN WEALTHY TOWNS



Well-Being and Chronic Disease Risk Factors

2015 COMMUNITY WELLBEING SURVEY, PERCENT OF GREATER NEW HAVEN ADULTS AGE 18+

	SELF-RATED HEALTH GOOD/EXCELLENT	ANXIETY	DEPRESSION	DIABETES	OBESITY	FOOD Insecurity	SMOKING	ASTHMA	NO HEALTH INSURANCE	DENTIST VISIT IN PAST YEAR
Connecticut	63	11	9	9	26	12	15	13	4.9	77
Greater New Haven	63	11	8	9	29	14	15	13	4.5	75
New Haven	58	15	12	11	32	22	18	17	8.3	69
Inner Ring	58	9	9	13	33	17	17	12	3.1	72
Hamden	61	10	8	13	30	11	12	6	2.9	78
West Haven	53	11	12	11	32	24	20	14	3.1	67
Outer Ring	72	10	6	5	24	7	10	11	2.8	81
Milford	65	13	8	7	27	13	19	14	4.6	76





Self-Rated Health and Well-being

Self-rated health is a uniquely strong predictor of future health outcomes, such as premature mortality and health care costs. ⁵³ Because of this, it is widely used to assess the overall health of an entire population. Self-rated health, as well as anxiety, depression, and personal well-being more broadly, varies widely within the region (see also Personal Well-being Index in Chapter 1). Concerns that tend to lessen self-related health—such as premature chronic diseases—can directly impact how people evaluate their life satisfaction and experience happiness in their day-to-day lives. ⁵⁵

Infant Health

Because of its relationship to complex issues such as maternal health care access, smoking, nutrition, and stress, infant health and birth outcomes are considered to be key indicators of overall community-wide health. Birth outcome indicators in Greater New Haven are fairly similar to statewide rates, but large disparities are evident by town. From 2008 to 2013 each year, on average, 8.2 percent of all babies born in the area had a low birth weight (weighing less than 5.5 pounds (2,500 grams)). Over the same period, 1.5 percent of all babies born had very low birth weights (less than 3.3 pounds or 1,500 grams). Low birth weight increases the risk



BIRTH OUTCOMES, 2008-2013

	TOTAL BIRTHS ANNUALIZED	FETAL AND INFANT DEATHS ANNUALIZED	IMR (INFANT DEATHS PER 1,000 LIVE BIRTHS)	FIMR (FETAL AND INFANT DEATHS PER 1,000 LIVE BIRTHS)	PERCENT LOW BIRTH WEIGHT	PERCENT VERY LOW BIRTH WEIGHT
Connecticut	38,007	401	5.3	10.5	7.9%	1.5%
Greater New Haven	4,965	58	5.9	11.7	8.2%	1.5%
New Haven	1,995	27	6.7	13.4	9.5%	2.0%
Inner Ring	1,586	18	5.8	11.6	8.2%	1.5%
East Haven	276	3	6.1	12.1	8.3%	1.0%
Hamden	628	7	5.6	11.1	7.9%	1.4%
West Haven	682	8	5.9	11.7	8.5%	1.7%
Outer Ring	1,385	13	4.7	9.4	6.5%	0.9%
Milford	461	3	2.9	5.8	7.1%	1.2%

of more serious health concerns, such as fetal and infant mortality or long-term health conditions. On average, the rate of infant mortality was 5.9 per 1,000 live births in the region, and the rate of fetal plus infant mortality was 11.7 per 1,000 live births.

Chapter 3 A Healthy Region

MORTALITY RATES AND PREMATURE DEATH

Knowing what people die of is important to understanding the health of a population. Leading causes of death are the causes that result in the greatest number of deaths in a community. The crude mortality rate is the number of deaths adjusted for the population size. But it is also useful to consider the

extent to which these causes result in premature death, typically done by measuring the total number of life years lost before age 75 (years of potential life lost to 75, or YPLL). In areas where YPLL is significantly higher, this reflects that the burden of deaths on young people is higher, and that there is a substantial loss of human potential.

The community-wide conditions and health behaviors that are linked to premature death are often considered preventable. For example, it is likely that preventing young people from smoking cigarettes would reduce lung cancer deaths, and policy changes that limited crash severity or reduced the amount of vehicle miles driven annually would have a direct relationship to the number of young adults killed in motor vehicle crashes.

Data on deaths indicate that chronic diseases are a major concern in towns throughout the region. Cancer and heart disease, and conditions such as stroke and diabetes, are leading causes of death and premature death. Injuries—consisting of suicides, homicides, and accidents, including drug overdoses—are also major concerns to the region. Many injuries are associated with the availability of drugs and firearms, and often impact much younger residents.

Additionally, fetal and infant deaths result in a great loss of human potential, ranking among the leading causes of years of potential life lost. This loss is felt most acutely by the African-American population in Greater New Haven, as it is in the nation overall. ⁵⁵ Infant mortality has complex roots, and may relate to other burdens of illness in the population such as financial stress, trauma, chronic disease, and environments that lead to low birth weight.

Although people are living longer lives than they were in recent decades, objective measures like premature death and mortality rates provide an incomplete picture of chronic diseases, mental health, infectious diseases, and other issues that relate to day-to-day quality of life. Many adults are living with disabilities, chronic diseases, or mental health concerns that can begin at an early age. Mental health and addiction impact the general well-being of individuals and communities, and may be underlying causes of many of the other health needs identified here.

Leading Causes of Death

AGE-ADJUSTED MORTALITY RATES AND TRENDS, 2008-2012

		TOTAL DEATHS 2008-2012	DEATHS PER YEAR	2008-2012 CRUDE MORTALITY RATE	AGE-ADJUSTED MORTALITY RATE (AAMR) PER 100,000	TREND FROM 2003-2007 TO	HIGHER OR LOWER RATE
All Causes	Connecticut	144,577	2008-2012	(DEATHS PER 100,000) 809	660	2008-2012	THAN CT?
All Odd363	New Haven County	37,380	7,476	867	681	↑ Improving	Higher
	New Haven	4,190	838	646	779	↑ Improving	Higher
	Inner Ring	4,200		040	,,,	a improving	g.i.o.
	East Haven	1.577	315	1,078	698	↑ Improving	Higher
	Hamden	2,935	587	963	655	a improving	g.io.
	West Haven	2,289	458	824	740		Higher
	Outer Ring	,					3
	Milford	2,438	488	924	667	↑ Improving	
Heart	Connecticut	35,765	7,153	200	157	- mpromg	
Disease	New Haven County	8,517	1,703	198	149	★ Improving	Lower
	New Haven	848	170	131	160	↑ Improving	
	Inner Ring						
	East Haven	344	69	235	143	★ Improving	Likely Lower
	Hamden	605	121	199	129		Lower
	West Haven	497	99	179	156		
	Outer Ring						
	Milford	571	114	217	151		
Cancer	Connecticut	33,775	6,755	189	160		
	New Haven County	8,929	1,786	207	171	★ Improving	Higher
	New Haven	978	196	151	189	♣ Worsening	Higher
	Inner Ring						
	East Haven	407	81	278	196		Higher
	Hamden	617	123	202	157		
	West Haven	586	117	211	195		Higher
	Outer Ring						
	Milford	639	128	242	179		Higher
All Injuries	Connecticut	9,037	1,807	51	4 7		
	New Haven County	2,378	476	55	■50	♣ Worsening	Higher
	New Haven	376	75	58	■59		Higher
	Inner Ring						
	East Haven	86	17	59			
	Hamden	165	33	54	4 4		
	West Haven	140	28	50	48		
	Outer Ring						
	Milford	125	25	47	4 2		

^{*} Trends or differences in rates are only noted if they are considered to be statistically significant.

WEST HAVEN

MILFORD

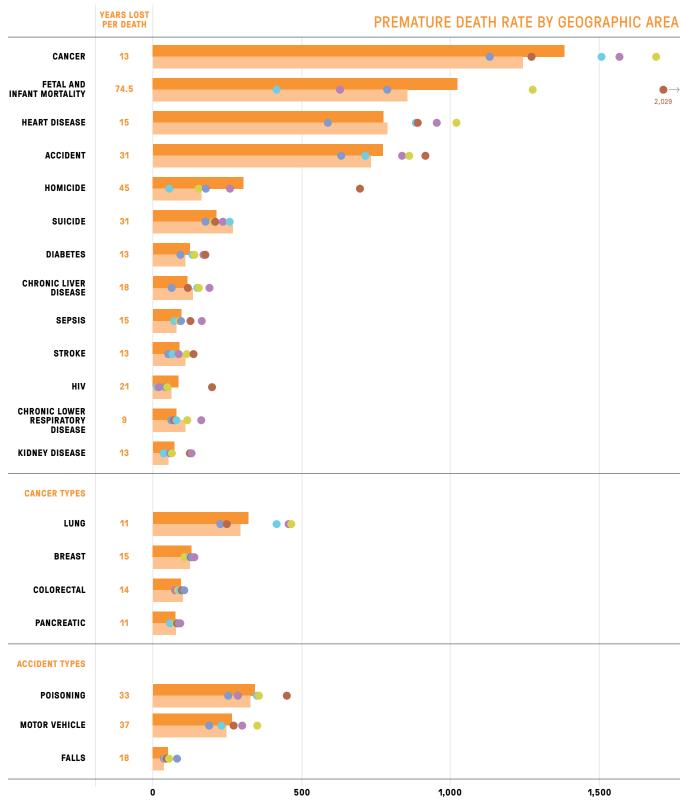
Causes of Premature Death

GNH NEW HAVEN

CT EAST HAVEN

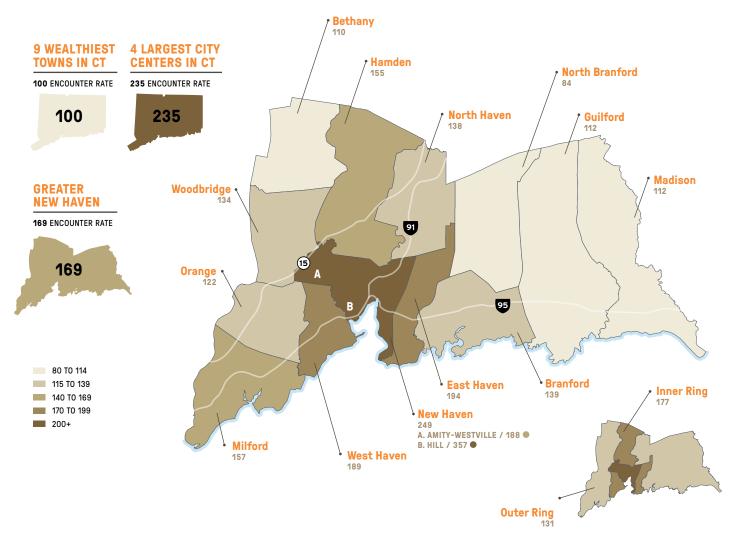
HAMDEN

YEARS OF POTENTIAL LIFE LOST PRIOR TO AGE 75, 2008-2012



Heart Disease, Hospital Inpatient Encounters

AGE-ADJUSTED ANNUALIZED ENCOUNTER RATE PER 10,000 RESIDENTS, 2012-2014



	HEART DISE	HEART DISEASE AND LUNG CANCER INPATIENT ENCOUNTER RATES PER 10,000 RESIDENTS									
	HEART D	ISEASE		LUNG C	ANCER						
	ALL AGES, AGE-ADJUSTED*	AGES 45-64	AGES 65-74	ALL AGES, AGE-ADJUSTED	AGES 45-64	AGES 65-74					
Greater New Haven	169	138	454	15	13	74					
New Haven	249	298	756	17	16	86					
Inner Ring	177	145	506	17	14	88					
East Haven	194	139	522	19	13	112					
Hamden	155	120	442	12	9	65					
West Haven	189	174	569	19	21	97					
Outer Ring	131	68	309	12	11	61					
Milford	157	99	403	15	16	78					
9 Wealthiest CT Towns	100	32	216	8	4	36					
4 Largest CT Urban Core Towns	235	266	730	16	18	70					

^{*} See map above

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Early Chronic Diseases

Preventing the early onset of chronic diseases such as cancer, heart disease, and diabetes, in the areas where it occurs most, could bring major social and economic benefits to the region. In the previous few pages, data on mortality and premature death rates reveal very large disparities in well-being within the region.

Because mortality data only tell us about people who die, they do not allow a complete picture of the true quality of life impacts of common chronic diseases. By allowing public health officials to look at the conditions that people of all ages experience by neighborhood and other characteristics, our analyses of the DataHaven Community Wellbeing Survey combined with hospital records creates a clearer picture. Only a few of our analyses can be included within this document; others are available through our website or will inform further work. Results show that in some parts of the region, adults are much more likely to be hospitalized for severe conditions such as heart disease and lung cancer at an early age. For example, in the nine wealthiest towns in Connecticut, the annual rate of hospitalization for heart disease among middle-age adults age 45-64 was 32 per 10,000 residents from 2012 to 2014, whereas in the state's four largest urban core towns (Bridgeport, New Haven, Hartford, Waterbury), it was 266 per 10,000 residents. Middleage adults in many urban neighborhoods were more likely to be admitted to the hospital for this condition than were seniors age 65-74 in wealthy communities. Adults impacted by early chronic disease often live with a need for special medical treatment or experience lower overall levels of well-being, regardless of whether or not they may be at a particularly higher risk of premature death. Results from the Community Wellbeing Survey also reveal large health disparities by income, wealth, neighborhood, and race/ethnicity in the rates of high blood pressure, smoking, poor nutrition, and poor mental health, which are risk factors for chronic diseases.

The prevention of early chronic disease is an area where cross-sector leaders from public and private sectors can play a larger role. For example, in focus groups, healthy food is deemed more accessible in wealthier towns. Even in these towns, some residents report the need to travel a significant distance to buy healthy food, which may be an issue if they lack access to transportation. Access to unhealthy foods and substances can be restricted through public policies that impact the cost or availability of such items. Addressing other community concerns, such as stress, employment, education, and community safety, may also help people across the lifespan maintain an optimal health status.

Nutrition, Obesity, and Diabetes

The American Medical Association recognizes obesity as a chronic disease. Being obese can contribute to other health conditions such as cancer, depression, diabetes, heart disease, high blood pressure, stroke, and other conditions that can reduce life expectancy and quality of life.

In 2015, the rate of obesity in Greater New Haven (29 percent) was below the national average (35 percent), and similar to the statewide rate of 26 percent and the Federal Government's Healthy People 2020 objective of 30.5 percent. These rates are calculated based on self-reported height and weight. Within the region, substantial differences exist by income group, age, and town of residence.

Across the nation and within Connecticut, obesity rates have increased dramatically. In Connecticut, rates have increased from 16 percent in 2000 to 26 percent in 2015. Precise historical data by town is not available for the Greater New Haven region, but all available sources suggest that most towns in Connecticut have been following the same trend.56 In the state's wealthiest towns, however, obesity rates are significantly lower than they are elsewhere: only about 1 in 10 adults are obese. These towns also have very low rates of poverty and food insecurity. The fact that obesity rates in the wealthiest neighborhoods appear to have remained fairly stable over the past decade suggests that economic and neighborhood factors are important to obesity prevention.

Obesity, physical inactivity, advanced age, and poor diet are risk factors for Type 2 diabetes, a chronic condition that often leads to other severe long-term health problems. In 2015, the prevalence of diabetes in Greater New Haven (9 percent) was similar to rates in the state (9 percent) and nation (9.7 percent).⁵⁷ The dramatic geographic disparities in the rates of hospital visits for diabetes-related illnesses, particularly when comparing younger adults across towns, is a proxy for the impact that this disease has on quality of life in communities with lower income levels.

Food insecurity and a lack of physical activity are associated with the risk of overweight and obesity. Psychological stress, the habits of overeating when food is available, and the inability to consume higher-quality foods that cost more money or take more time to prepare, are associated with food insecurity. ⁵⁸ In Greater New Haven in 2015, 14 percent of adults said that they did not have enough money to buy food at some point in the last



2015 COMMUNITY WELLBEING SURVEY, PERCENT OF GREATER NEW HAVEN ADULTS AGE 18+

		% FOOD INSECURE	% OBESE	% WITH DIABETES
Race/	Caucasian/White	11	27	8
Ethnicity	African American/Black	25	48	16
	Hispanic/Latino	24	30	10
Age	18-34	16	28	0
Group	35–49	18	31	8
	50-64	14	31	13
	65+	5	28	22
Income	Under \$30,000	36	38	17
	\$30,000-\$100,000	11	32	8
	Over \$100,000	1	25	4

BFTTFR

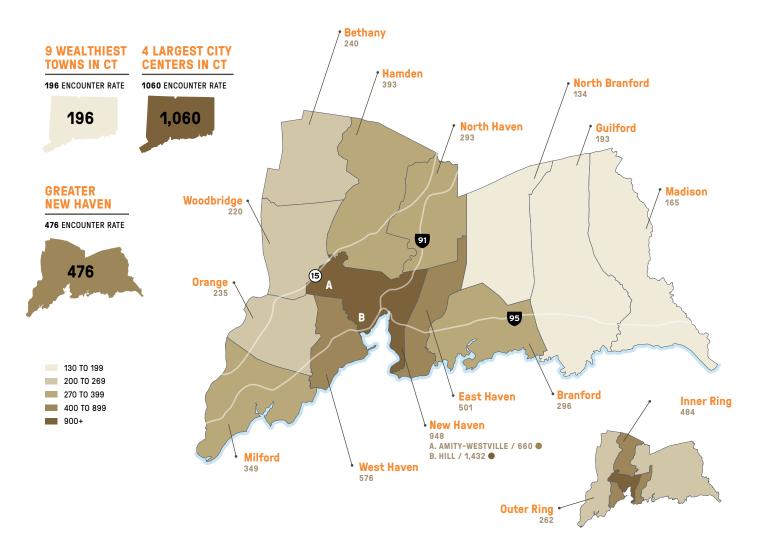
year. This figure was 11 percent among residents who identified as white, compared to 25 percent among residents who identified as black or Latino. Research shows that people who live in safe and walkable communities are more likely to be active. While many neighborhoods have assets that can increase physical activity, concerns about physical safety and the quality of recreational facilities are major concerns in central city neighborhoods in Greater New Haven (see Chapter 4 for more information on walkability).

 $[\]ensuremath{^{\star}}$ See page 22 for rates by region and town.

Chapter 3 A Healthy Region 29

Diabetes, All Hospital Encounters

AGE-ADJUSTED ANNUALIZED ENCOUNTER RATE PER 10,000 RESIDENTS, 2012-2014



	DIABETES: ALL HOSPITAL ENCOUNTER RATES PER 10,000 RESIDENTS									
	ALL AGES, AGE-ADJUSTED*	AGES 20-44	AGES 45-64	AGES 65-74	AGES 75-84	DIABETES-RELATED AMPUTATION	UNCONTROLLED DIABETES			
Greater New Haven	476	173	709	1,376	1,615	1.6	8			
New Haven	948	282	1,725	2,539	2,646	3.2	17			
Inner Ring	484	146	723	1,529	1,725	1.8	9			
East Haven	501	123	727	1,589	2,009	1.8	10			
Hamden	393	114	562	1,338	1,400	1.6	7			
West Haven	576	192	890	1,710	1,953	2.1	10			
Outer Ring	262	76	282	847	1,197	0.8	4			
Milford	349	77	428	1,114	1,527	1.0	6			
9 Wealthiest CT Towns	196	45	172	672	1,070	■0.3	3			
4 Largest CT Urban Core Towns	1,060	365	1,859	2,993	2,942	2.5	26			

^{*} See map above

Injury and Violence

Injury is among the leading causes of death, particularly among younger adults. Injuries include both unintentional injuries such as falls, crashes, and accidental drug overdose, as well suicide and homicide.

In most of the region, mortality rates from injury are similar to or in many cases significantly lower than state and national averages. However, several issues are of concern to the region. Rates of death from accidental poisoning or suicide from opioid drug use are rising and are discussed to some degree in the Substance Abuse section of this report. Accidental falls impact many older adults each year, and register as a concern as this population grows quickly; many living environments could be modified to help prevent falls. While most falls are non-fatal, for every death due to falls there are many cases of permanent disability, hospitalization, or missed work. Fatal motor vehicle crash rates. while low by national standards, remain one of the major causes of premature death and a major concern, particularly within communities where several teenage drivers have been killed or where there have been calls to improve access for pedestrians, cyclists, and transit users in recent years.

Community violence, which relates to violent crime and domestic abuse as well as higher rates of premature deaths from homicide in some city center neighborhoods, is an issue that stood out as a concern due to the extent of health disparities seen by town, neighborhood, gender, and age. In addition to its role in injury, safety is an issue that can have large impacts on the physical and mental health of residents as well as their ability to enjoy parks, public spaces, sidewalks, and streets within their neighborhoods. Although reported crime rates in most towns are low and there is a widespread perception people live within safe and supportive communities, residents in some neighborhoods frequently express that safety is the most important issue that impacts their health and quality of life.

Primary data collected in some of the poorest neighborhoods of Greater New Haven have shown that residents sometimes feel unsafe in their neighborhoods. There is a broader lack of recreational access in these areas, especially where substance abuse and violence are seen to dominate parks and other public spaces. Empowering communities to revamp these public spaces and other assets, through public programs and events, can reinforce their purpose and encourage positive uses.

Our analysis of hospital records on homicide and purposeful injuries (including assaults and



AGE-ADJUSTED MORTALITY RATES (AAMR) PER 100,000 RESIDENTS BY INJURY CAUSE, 2008-2012

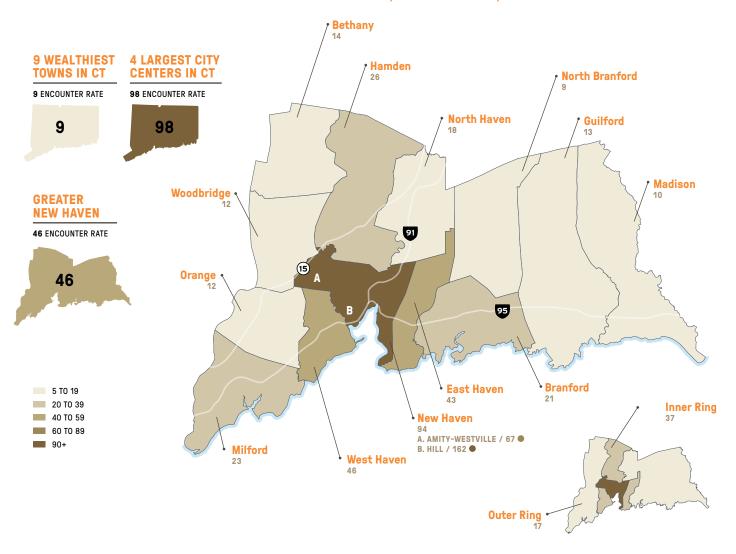
	ALL ACCIDENTS	MOTOR VEHICLE CRASHES	ACCIDENTAL POISONING	FALLS	HOMICIDE	SUICIDE
Connecticut	33	7	10	8	4	9
New Haven County	36	8	12	8	5	8
New Haven	39	7	16	7	11	6
Inner Ring						
East Haven	35				9	
Hamden	34	7	8	11		6
West Haven	38	11	11	7		5
Outer Ring						
Milford	31	7	10	9		9

attempted homicide), as well as various data reported by police departments about their policing activities, also confirm that there are large disparities in safety within the region. Because of the nuances in how this data should be interpreted across towns, neighborhoods, and city blocks, we have chosen not to present them in great detail here. However, a map and table of hospital encounter rates due to homicide and purposeful injuries illustrates that age-adjusted per capita hospital encounter rates for residents living within the state's four largest urban core towns (Bridgeport, New Haven, Hartford, and Waterbury) were more than 10 times higher than the age-adjusted rates for residents living within the state's 9 wealthiest towns. Within these towns, the disparities are even larger by neighborhood; for example, the age-adjusted rate for a hospital encounter for homicide or purposeful injury in the Hill neighborhood (zip code 06519) is more than twice the rate in the Amity-Westville area (zip code 06515). Young adults age 20-44 are more likely to visit the hospital for these types of injuries than other age groups. Additionally, men are generally significantly more likely than women to report being the victim of a violent attack or crime or require hospitalization for one, according to hospital encounter records, as well as to self-reported data on victimization collected from the DataHaven Community Wellbeing Survey of 16,219 randomlyselected adults throughout Connecticut.

Chapter 3 A Healthy Region 31

Homicide and Purposeful Injury, All Hospital Encounters

AGE-ADJUSTED ANNUALIZED ENCOUNTER RATE PER 10,000 RESIDENTS, 2012-2014

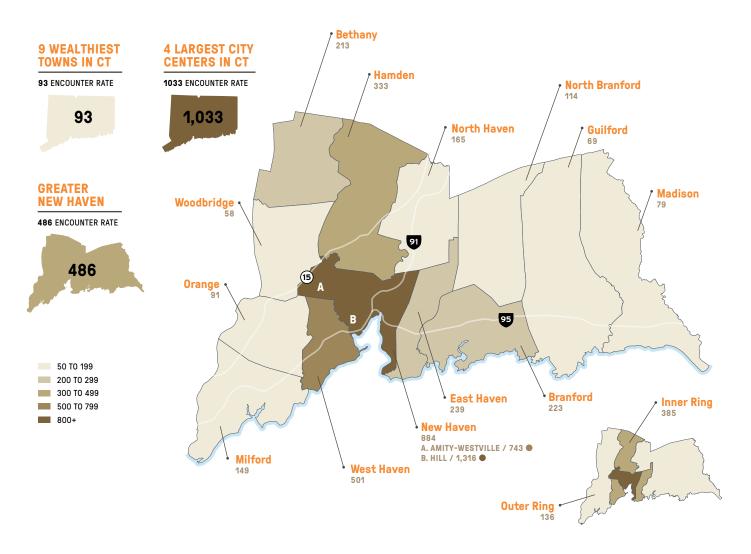


	HOMICIDE AND PURPOSEFUL INJURY, ALL HOSPITAL ENCOUNTER RATES PER 10,000 RESIDENTS										
	ALL AGES, AGE-ADJUSTED*	AGES 0-19	AGES 20-44	AGES 45-64	AGES 20-44 MALE	AGES 20-44 FEMALE	HIGH-SEVERITY CONDITIONS				
Greater New Haven	46	34	85	34	104	66	4.9				
New Haven	94	66	145	102	178	112	10.8				
Inner Ring	37	27	67	29	80	55	4.2				
East Haven	43	35	80	30	86	73	3.6				
Hamden	26	21	46	18	58	36	3.1				
West Haven	46	30	83	39	99	68	5.7				
Outer Ring	17	13	34	10	42	25	1.2				
Milford	23	18	40	19	49	31	1.2				
9 Wealthiest CT Towns	9	6	19	4	27	12	0.5				
4 Largest CT Urban Core Towns	98	66	172	87	211	135	9.0				

^{*} See map above

Childhood Asthma, All Hospital Encounters

AGE-SPECIFIC ANNUALIZED ENCOUNTER RATE PER 10,000 RESIDENTS AGE 0-4, 2012-2014



Chapter 3 A Healthy Region 33

Asthma

Asthma can cause a considerable burden on health and quality of life. The prevalence of asthma among all adults in Greater New Haven (13 percent) is similar to that found statewide (13 percent) and nationally (14 percent).

Asthma often develops in early childhood. By limiting a child's ability to play, learn, and sleep, asthma can also have a substantial impact on child development and educational achievement. Proper health care is important as it can reduce these impacts and also prevent asthma attacks.

From 2012 to 2014, there was a stark difference in the number of visits to an emergency room for asthma among New Haven, the Inner Ring and the Outer Ring, particularly among children age 0-4. The higher number of severe attacks requiring hospital visits is likely caused by factors such as barriers to primary care, poorer medical management of asthma, and exposure to environmental triggers.

Visits to the emergency room for asthma are considered largely avoidable if the disease is well controlled. Avoiding triggers may be more difficult in urban settings, however, where there is greater exposure to transportation-related emissions and allergens.⁵⁹

Other Health Issues

Though this chapter focuses on health issues that were most frequently prioritized in community conversations throughout the region, many other issues are of great interest to area communities. These have been documented within the Healthy

Connecticut 2020 State Health Assessment and the additional CHNA chapter referenced in Chapter 1 of this document.

Among these issues, childhood lead poisoning continues to be a serious pediatric health problem in the region; no amount of lead in the bloodstream is considered safe. The number of children in the city of New Haven under age six with elevated blood lead, using a historical standard of 10 micrograms per deciliter (10 µg/dL), dropped from 277 (6.2 percent) to 91 (2.0 percent) between 2004 and 2013—similar to the statewide downward trend, but levels in the city were still far above 2013 levels in the Inner Ring (25 children, 0.9 percent) and Outer Ring (5 children, 0.2 percent). The current, stricter standard of 5 µg/dL, shows that 9 percent of children in the city of New Haven had elevated blood lead in 2013, compared to 2.6 percent in the Inner Ring and 0.7 percent in the Outer Ring. Lead exposure is generally higher in neighborhoods where many homes were built before 1950 and contain lead-based paint.

Additionally, while the reduction and prevention of infectious disease over recent decades remains one of the greatest public health achievements, infectious disease continues to be an important cause of sickness and premature death. The Selected Infectious Diseases table shows the number of cases of certain infectious disease occurring in the region in recent years. Disparities within the region illustrate the importance of reproductive health, monitoring and care for at-risk populations.⁶⁰

Selected Infectious Diseases

NUMBER OF CASES (N) AND RATES PER 100,000 RESIDENTS

	F	CIDENCE PER YEAR 7-2011)	GON	ORRHEA 2014	CHLAM	YDIA 2014		IRONIC & ED) 2014	DIAGNOS	IIV: NEW Es 2014	LIVING	WITH HIV 2014	(CONF	DISEASE IRMED & LE) 2015
	N	RATE	N	RATE	N	RATE	N	RATE	N	RATE	N	RATE	N	RATE
Connecticut	94	3	2,223	62	13,134	366	2,407	67	291	8	10,727	299	2,553	71
Greater New Haven	15	3	357	77	2,210	476	337	73	56	12	2,102	453	253	55
New Haven	8	6	250	191	1,400	1,071	173	133	34	26	1,452	1,119	16	12
Inner Ring	5	4	82	56	546	375	87	60	18	12	471	323	40	27
Outer Ring	2	1	25	13	264	140	77	41	4	2	179	95	197	105



Mental health and physical health are closely connected. Poor mental health can become a disability that has significant impacts on employment, maintenance of physical health, behavioral health, and overall well-being, ultimately imposing major financial costs to individuals and society as a whole. Self-reported health and wellbeing in Greater New Haven are similar to statewide averages (see Figure 3.2 as well as Chapter 1), though there are large differences by household income level, education level, previous exposure to trauma, and other factors that we are unable to explore here in detail.

Due to the social and mental health costs that they create, substance abuse and tobacco are of major concern to the region. Tobacco use, in particular, is considered to be of particular importance because of the high costs and premature mortality that it creates, as well the available evidence that interventions (such as delaying the age of first use) can make a difference in reducing these social burdens. Exposure to cigarette smoke is a major risk factor for chronic obstructive pulmonary disease (COPD), heart disease, and lung cancer, which are leading causes of death as well as a source of large disparities in the mortality and hospital encounter rates across Greater New Haven, as shown elsewhere in this chapter.

Adults in Greater New Haven are about as likely to smoke cigarettes (15 percent) as are adults living in Connecticut (15 percent). Smoking rates vary by household income level in Greater New Haven; 29 percent of adults earning less than \$30,000 per year are current smokers, compared to 6 percent of adults earning \$100,000 per year or more. The proportion of smokers who say they have attempted to quit in the past year is 58 percent, a rate that is not statistically different from the statewide average.⁶¹

In addition, many residents use e-cigarettes, including some who are also current cigarette smokers. About one out of five adults reports that they have tried e-cigarettes at some point in their life, and half of these adults report using them regularly. Compared to adults age 35 or over, young adults are twice as likely to have tried or to be currently using e-cigarettes. ⁶²



HOSPITAL INPATIENT ENCOUNTER RATES PER 10,000 RESIDENTS PER YEAR, 2012-2014

	ALL AGES, AGE-ADJUSTED	AGES 45-64	AGES 65-74	AGES 75-84
Greater New Haven	121	126	419	668
New Haven	175	258	596	761
Inner Ring	134	142	494	725
East Haven	167	162	627	968
Hamden	91	84	349	494
West Haven	163	192	574	854
Outer Ring	91	62	308	601
Milford	125	93	424	816
9 Wealthiest CT Towns	54	20	167	381
4 Largest CT Urban Core Towns	142	188	508	663

In 2015, 7 percent of Greater New Haven adults, including 12 percent of adults age 18-34, reported that they felt that they needed to cut down on their drinking or drug use at some point in the past year. Additionally, surveys show that about a quarter of Connecticut high school students are offered, sold, or given illegal drugs, particularly marijuana, on school property each year. Data on hospital encounters for substance abuse, which include hospital visits for a variety of reasons not related to tobacco or alcohol, also show that young adults and residents of urban neighborhoods are particularly impacted.

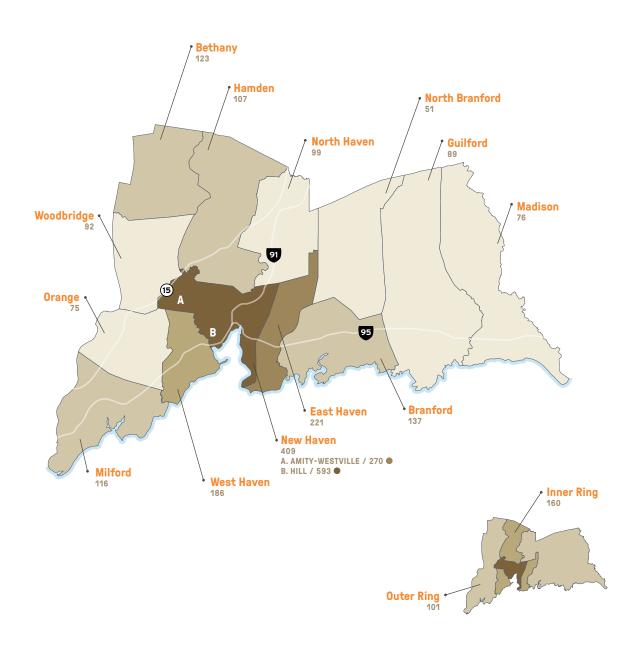
Drug overdose has become a leading cause of premature death, and continues to be a rising concern in the region. In recent years, there has been an increase in the number of deaths attributable to the use of heroin as well as other narcotics such as fentanyl. The total number of drug overdose deaths in Connecticut rose from 357 in 2012 to 723 in 2015. Heroin and other opioid substances are generally encountered in about 90 percent of these drug overdose deaths. All age groups are impacted, and many deaths are linked to the abuse of prescription drugs or use of pain relievers for non-medical purposes. Given the limitations of existing data, further analysis and policy development related to this emerging issue is needed.64

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Substance Abuse, All Hospital Encounters

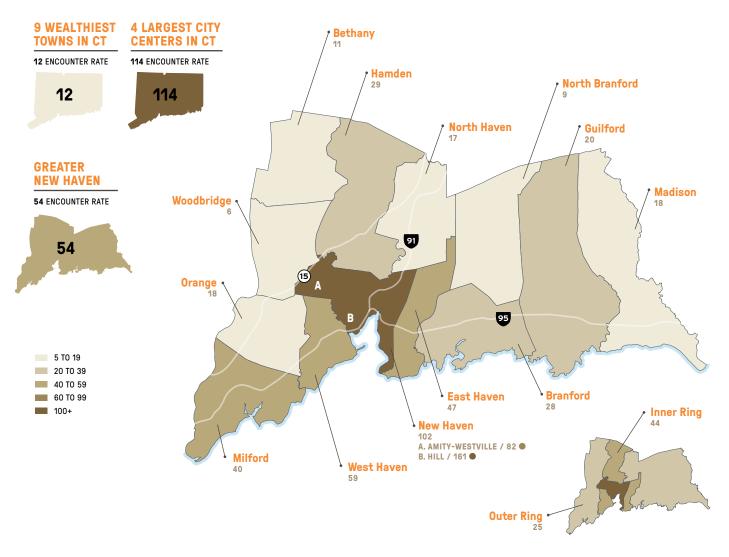
AGE-ADJUSTED ANNUALIZED ENCOUNTER RATE PER 10,000 RESIDENTS, 2012-2014





Preventable Dental Conditions, Hospital ED Encounters

AGE-ADJUSTED ANNUALIZED ENCOUNTER RATE PER 10,000 RESIDENTS, 2012-2014



	PREVENTABLE DENTAL CONDITIONS, HOSP	PREVENTABLE DENTAL CONDITIONS, HOSPITAL EMERGENCY DEPARTMENT ENCOUNTER RATES PER 10,000 RESIDENTS						
	ALL AGES, AGE-ADJUSTED*	AGES 0-19	AGES 20-44	AGES 45-64	AGES 65-74	AGES 75-84		
Greater New Haven	54	31	99	43	19	12		
New Haven	102	60	162	112	40	20		
Inner Ring	44	27	79	35	17	12		
East Haven	47	25	92	34	20	11		
Hamden	29	18	51	24	10	15		
West Haven	59	38	103	49	21	9		
Outer Ring	25	10	49	19	12	10		
Milford	40	14	76	37	15	16		
9 Wealthiest CT Towns	12	6	20	10	8	8		
4 Largest CT Urban Core Towns	114	53	213	105	35	21		

^{*} See map above

Chapter 3 A Healthy Region 37



Access to Care

In conversations with area residents throughout Greater New Haven, the ability to access quality, affordable, and convenient medical care often emerges as a major concern. In 2015, 43 percent of adults in Greater New Haven earning \$30,000 or less, and 28 percent earning between \$30,000 and \$100,000 per year, reported that they postponed or did not get the health care they needed in the past year. Additionally, about 1 in 10 adults said they could not get prescription medicines they needed in the past year because they could not afford it. The 2015 DataHaven Community Wellbeing Survey identifies some of the reasons why many adults may not be getting the medical care that they thought they needed. Cost is a barrier to obtaining care that impacts residents of nearly all income levels, particularly low-income adults, echoing findings from more detailed recent national studies.65 Whether or not adults are covered by health insurance, there are frequently other barriers

Health Care Access

2015 COMMUNITY WELLBEING SURVEY, PERCENT OF GREATER NEW HAVEN ADULTS AGE 18+

		NO HEALTH Insurance	DENTIST VISIT IN PAST YEAR	COULD NOT AFFORD PRESCRIPTION MEDICINES DURING PAST YEAR	DID NOT GET OR POSTPONED MEDICAL CARE DURING PAST YEAR
Race/	Caucasian/White	3	77	7	27
Ethnicity	African American/Black	4	70	11	28
	Hispanic/Latino	16	71	13	33
Age	18-34	7	74	5	32
Group	35-49	5	78	10	31
	50-64	4	76	11	29
	65+	1	74	5	16
Income	Under \$30,000	12	59	12	43
	\$30,000- \$100,000	2	75	9	28
	Over \$100,000	1	90	4	16

^{*} For insurance and dentist visits, see page 22 for rates by region and town.



to obtaining care, including an inability to find time to get to the doctor's office (sometimes due to caregiving responsibilities or the need to hold multiple jobs), the fact that their health plan does not cover the cost of a procedure that they believe is needed, a lack of transportation access, or a belief that routine medical care or check-ups are not required. 66

For a significant number of adults, a lack of health insurance is a major barrier to receiving medical care. In 2015, adults in Greater New Haven were as likely as adults in Connecticut not to have health insurance—1 out of every 20 adults ages 18 and over do not have health insurance. The largest differences in health insurance access are observed by age, income level, and immigration status. The proportion of adults with a medical home (a coordinated, ongoing source of primary medical care) varies along similar lines. Additionally, about one in five residents who didn't get or postponed care in the past year report that the health insurance that they do have was not accepted.

The proportion of adults in Greater New Haven who report using the emergency room as a source of medical care is similar to the statewide average. Five percent of adults in Connecticut used the emergency room three or more times in the past year. Adults with low household incomes are substantially more likely than other adults to have used the emergency room on more than one occasion in the past year. Adults may use the emergency room for severe conditions, but also to seek more routine medical treatment if they are unable to access an alternative source of care, such as a primary care provider or clinic.

Access to Oral Health

Visiting the dentist is a key factor in maintaining good oral health and is linked to other health outcomes. Connecticut has the highest percentage of any state in the United States of adults who self-report visiting a dental health professional. ⁶⁷ In 2015, the rate of dental visits among adults in Greater New Haven as a whole was not statistically different from the statewide rate (see Figure 3.2). The percent of adults who visited a dentist in the past year varies widely by income level and neighborhood. Disparities in the rate of emergency room encounters for dental conditions, among both children and adults, indicate that there are major barriers to accessing preventive dental care in lowincome neighborhoods.

Conclusion: Towards a Healthier Greater New Haven

In the Greater New Haven region, health is important. Local governments prioritize it and are regularly working on public health initiatives. Interest groups abound, with municipalities, foundations and local coalitions collaborating in order to improving the region's health. Across eight focus groups, residents revealed that concerns about the health landscape of their region are at the forefront of everyone's minds. People want themselves and their families to be able to lead healthy lives.

Health disparities are a common theme, emerging in discussions about physical and mental health, as well as access to high quality and affordable care. In a metropolitan area like Greater New Haven, socioeconomic conditions span the entire range from the wealthiest households in outer shoreline towns with access to all the resources required to maintain one's health, to the families living below the poverty line, often in economicallydistressed neighborhoods, where prioritizing health may feel like an unrealistic luxury. Insurance is just one of an abundance of financial obstacles to finding high-quality healthcare in distressed neighborhoods. Yet these are the areas where it is most important to invest in preventative health care and other infrastructure, as under-resourced or unsafe neighborhoods can create obstacles to healthy behaviors.

Other issues transcend socioeconomic and geographic boundaries. Uninsured adults, immigrants, and senior citizens find themselves in need of specialized services that they cannot easily access. Mental health issues are widespread, but reliable access to treatment is not as plentiful. Communities themselves are not always cohesive, lacking the public spaces, transportation infrastructure, and events that can draw together and unify residents.

How can these issues be addressed? These problems require a two-pronged approach: a combination of targeted policies to address the issues and creating a healthier environment to support and sustain these solutions. After all, where we live plays a formative role in determining how we live. 68

Take chronic disease, for example. Conditions like heart disease, lung disease, obesity, and diabetes, are prevalent in Greater New Haven, and most concerning is their incidence among

younger individuals. These issues often arise due to inadequate medical care and unhealthy behaviors. In focus groups, access to healthcare was deemed a major barrier to achieving good health. One issue that emerged was the concentration of specialized medical services in city centers, which inconvenienced patients outside of the downtown region who lacked reliable transportation. This strain could be relieved by increasing access to specialists and clinics throughout the region, in addition to coordinated transportation to the clinics.

There also needs to be improvement of the health care system for neighborhoods that are historically under-resourced and disproportionately plagued by chronic disease. Often citing insufficient insurance as a deterrent to seeking medical attention, people with limited incomes find themselves struggling to navigate a convoluted system. Expansion of community health centers and other services targeted toward low-income individuals can satisfy this need, and including more specialists and mental health professionals under state insurance coverage could alleviate a great deal of stress.

More so than just growing the medical landscape, reinforcing access to healthy behaviors can prevent health conditions from arising in the first place. Eating healthy, quitting smoking, getting adequate physical activity, reducing substance use and abuse—these lifestyle changes are associated with decreased obesity, improved heart and lung health, and overall increased life expectancy.⁶⁹ But these are behaviors that are often out of reach, particularly for low-income individuals. In a focus group, residents commented on the abundance of farmer's markets in the area, but noted that they were often more expensive and more difficult to access, or limited to the summer months. Community members called for increased options for healthy, affordable, and accessible food, whether through community gardens, new farmer's markets in areas with highest need, or efforts organized by local governments.

Other habits, such as smoking and drug use, can also be products of the environment. In community conversations, residents expressed their views that a lack of recreational activities for teens can leave them exposed to violence and substance abuse. One focus group participant noted that community parks were full of people with "bad intentions," and many people mentioned that parks were in poor condition and unsafe. Neighborhood violence generally kept people indoors and fearful for their children's

safety. This environment needs to be changed. If neighborhoods, parks, and community centers are kept cleaner and safer, they create an opportunity for individuals to fully utilize their outdoor spaces, which can be beneficial for their health. Offering recreational options for youth, from preschool for the youngest children to afterschool activities for teenagers, and easily accessible substance abuse counseling can redirect at-risk youth to the alternate activities and professional support they may need.

As part of the Community Health Needs
Assessment (CHNA) process, an additional chapter
has been developed by the Healthier Greater
New Haven Partnership. The chapter describes
identified health needs in more detail, documents
the process that was used to conduct the CHNA,
and discusses planning efforts by collaborative
partners throughout the region. You may find this
chapter, titled "2016 Greater New Haven Region
Community Health Assessment and Implementation
Strategies," on the Yale New Haven Hospital or
DataHaven websites. It is designed to complement
the information in this report.

Health initiatives in Greater New Haven are on the right track. The first steps have been taken: people are having conversations about health. The CHNA process helps identify the issues that are important to people throughout the region, and the potential opportunities to improve health within their communities. The next step is to address these issues by coordinating policy changes to improve health, evaluating health-related expenditures at the regional level, advocating for built and social environments in which individuals can improve and maintain their health, and tracking progress as the CHNA is periodically updated. With this combined approach, solutions can be sustainable and foster lasting changes to the health status of Greater New Haven. DH

For further detail about the information in this chapter, as well as additional data specific to individual towns, please see the additional CHNA chapter referenced in Chapter 1.

CHAPTER 4

A Region of Opportunity

An Introduction to the Chapter

- The region's 1,630 subsidized infant/toddler slots in childcare centers (including 180 free slots) could serve at most only 31 percent of the 5,260 infants and toddlers living in low-income households in Greater New Haven.
- Six years after high school graduation, 47 percent of all Greater New Haven Class of 2008 students had earned a post-secondary degree – but enrollments and completions vary widely by town, race, gender, and economic status.
- Young adults, as well as people who are unemployed or underemployed, are much less likely to have access to a car when compared to other groups.
- Since 2000, the health care, education, administration, and accommodation and food service industries in New Haven County have added about 26,000 jobs.
- Greater New Haven libraries have \$39 on average to spend per person per year, compared to \$53 statewide. Woodbridge library has a per-person operating income of \$93 dollars per person per year, while West Haven and East Haven libraries both have \$30 per person.
- In Greater New Haven, 4 out of 5 adults report trusting neighbors, having neighbors who could work together, and having confidence in police – all measures of community cohesion.



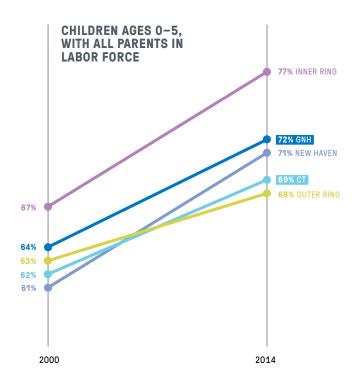
Why Early Care and Education Are Important

Investing in high-quality early care and education benefits young children, their parents, and the communities in which they live. Young children who participate in well-resourced and regulated early care and education programs are less likely to be retained in school or to require special education services, and more likely to graduate from high school. They are also less likely to become involved in the criminal justice or welfare systems and more likely to be productively employed. Parents with access to affordable, reliable child care are less likely to miss work and more likely to retain steady employment. These parents and their children ultimately are able to contribute more, and cost less, to their communities.

Demographics of Children and Families

In 2014, there were 97,465 children (ages 0–17) in Greater New Haven, 24,000 of whom were young children, under the age of 5.⁷¹ Thirty-seven percent





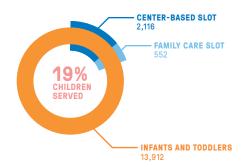
of the region's young children live in low-income households, though this share is higher in certain towns and neighborhoods. Overall young children are more likely to be from low-income households compared to the total population (27 percent of the total population are low-income, see page 17).72 Low-income status indicates serious economic hardship — living in a household that earns less than \$47,700 for a family of four or 200% of the Federal Poverty Line.73 Despite the fact that the total number of young children in the region has been decreasing (down 19 percent since 1990), the past decade witnessed a 10 percent rise in the number of young children (up 960 children) living in lowincome families in the region. This number grew the most in the Inner Ring suburbs (up 940) and Milford (up 270).

The number of single-parent families in Greater New Haven grew by 10 percent from 1990 to 2014; over the same period, the number of married couples with children at home decreased (down 16 percent). Single-parent families are more likely to be economically-disadvantaged: in Greater New Haven, single-parent families are 5 times more likely to live in poverty than married couple families living with children.

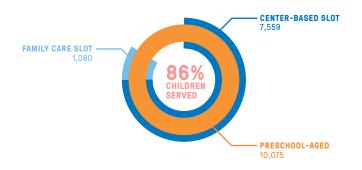
In Greater New Haven, the share of children ages 0–5 from families where all parents worked or were looking for work grew, from 64 percent in 2000 to 72 percent in 2014. This increase may reflect the growing number of single-parent families as well as societal shifts, as more women, including mothers, join the workforce compared to past decades. It also marks an increased need for childcare, since most working parents cannot care for their children while on the job. (FIG 4.1)

Availability of Childcare and Education in Greater New Haven, 2014

REGULATED CARE AND EDUCATION SLOTS FOR INFANTS AND TODDLERS



REGULATED CARE AND EDUCATION SLOTS FOR PRESCHOOL-AGED CHILDREN



Access to Early Care and Education

There are many early care and education options for young children. Parents, family members, friends, or nannies look after some children at home. Centerbased programs are managed by public or private schools, nursery schools, community groups, or municipalities. Family child cares are operated from a child care professional's house.

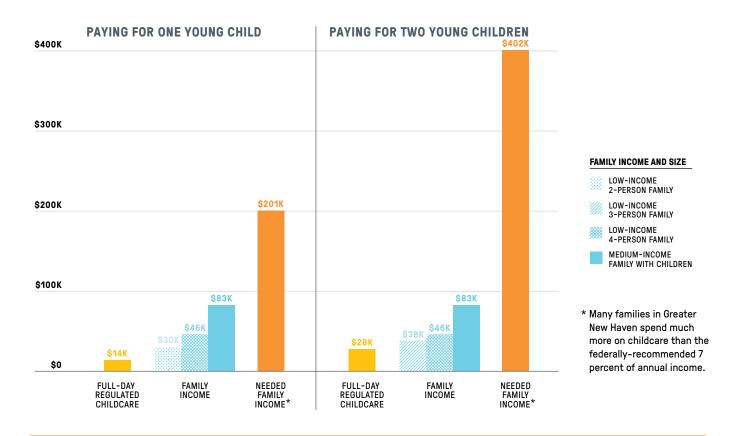
All family child care and center-based providers are "regulated," which includes licensed and license-exempt programs. Connecticut mandates the vast majority of family child care and center-based programs to be "licensed," meeting state-established minimum health and safety standards; a few center-based programs — such as those in public schools — are license-exempt.78 To receive state subsidies for such programs as School Readiness or Smart Start, child care centers must also be accredited by the National Association for the Education of Young Children, which requires meeting an additional set of quality standards.79 Programs that receive federal dollars, such as Head Start, must meet federal quality standards.

In 2014, there were 11,300 slots at regulated early care and education programs in Greater New Haven. Fourteen percent were in family child care homes; the rest were at centers, public schools, or nursery schools. Of these slots, 8,640 were reserved for preschool-aged children, and the rest were for infants and toddlers.

There is a serious shortage of early care and education options for infants and toddlers: there are only enough regulated infant/toddler

Affordability of Childcare for Families

COSTS OF REGULATED, FULL-DAY CHILDCARE AND FAMILY INCOMES IN GREATER NEW HAVEN, 2012



slots in Greater New Haven to serve one in every five children ages 0–2.80 Providers supply nearly sufficient early care and education options for preschool-aged children: there are enough regulated slots for most (86 percent) of the 3- and-4-year-olds in the region, including enough slots in center-based programs for 75 percent of preschoolers.

However, the actual enrollment rate of 3- and 4-year-olds at center-based preschools is only 59 percent, suggesting that factors other than availability — such as a program's cost, location, or hours of operation — influence enrollment in child care and education as well.⁸¹

Early Care and Education Cost

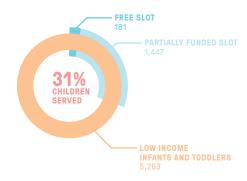
In 2012, costs for full-day, full-year regulated early care and education programs in Greater New Haven averaged between \$9,200 and \$14,100 per year per child.⁸² Programs in centers and for infants and toddlers were more expensive than those in family

child care homes or for preschool-aged children. Costs for early care and education are rising the state average increased by 14 percent from 2007 to 2012.83

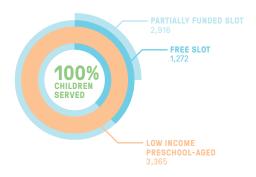
The federal government recommends that families spend at most 7 percent of income on child care. B4 However, in 2012, the average cost of care for one child, before subsidies, amounted to between 11 and 17 percent of median incomes of Greater New Haven families with children. Some families spend even more of their income on childcare: for example, a New Haven family earning that town's median family income would spend 43 percent of their annual budget on child care for an infant. A low-income, single-parent household (earning less than 200% FPL) would spend nearly half its budget on care for an infant or toddler.

Availability of Childcare and Education Subsidies in Greater New Haven, 2014

SUBSIDIZED SLOTS AND VOUCHERS FOR INFANTS AND TODDLERS



SUBSIDIZED SLOTS AND VOUCHERS FOR PRESCHOOL-AGED CHILDREN



THE CHALLENGE OF FUNDING INFANT AND TODDLER CHILDCARE

Early care and education for infants and toddlers receive significantly less funding than do preschool programs. At the same time, the costs of caring for the youngest children are significantly higher, due mainly to a higher mandated staff to children ratio.⁹³ Between October 2010 and October 2013, the number of infants and toddlers statewide who received some form of subsidy for early care and education fell by 5 percent, while, during that same time period, the number of preschoolers statewide who received some form of subsidy for early care and education rose by 5 percent.⁹⁴

The government's increased investment in preschoolers may also have unintended, negative effects on the supply and price of infant-toddler care. Anecdotal evidence suggests that when the government offers free or subsidized preschool in settings that serve only preschoolers, programs that serve a range of ages may lose some preschoolers. Without that revenue stream, they may be unable to afford to offer infant/toddler care, or will only be able to offer it at higher rates.

Subsidies for Costs of Early Child Care and Education

There are not enough government subsidies to assist all families in Greater New Haven who cannot afford early care and education. In 2014, the government funded or provided vouchers for a total of 5,820 slots in the region, making them free or partially subsidized for eligible families: 1,630 for infants and toddlers, 4,190 for preschoolaged children.⁸⁸

Funding is extremely limited for families with infants and toddlers: the 1,630 subsidized infant/ toddler slots could serve at most only 31 percent of the 5,260 infants and toddlers living in low-income households in Greater New Haven. Only 180 of these slots, or 11 percent, are free; the rest require a parent contribution.⁸⁹

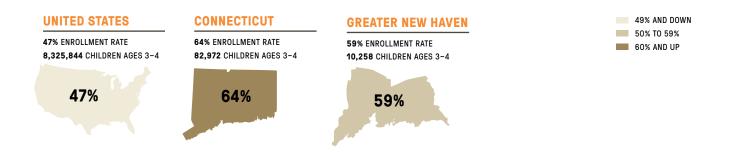
Meanwhile, the 4,190 subsidized slots and vouchers for preschool-aged children theoretically could serve all of the 3,365 children ages 3–4 from low-income households (earning less than 200% FPL) in Greater New Haven. 90 Thirty percent (1,270) of these slots are free; the rest require families to pay some costs. 91 In reality, not all preschool-aged children from low-income families are funded, since families must apply for subsidies first, before receiving them. The comparison is not perfect because some children use more than one form of subsidy, costs may be prohibitive even after considering an available subsidy, and families earning above the low-income threshold can also qualify for some of these subsidies. 92

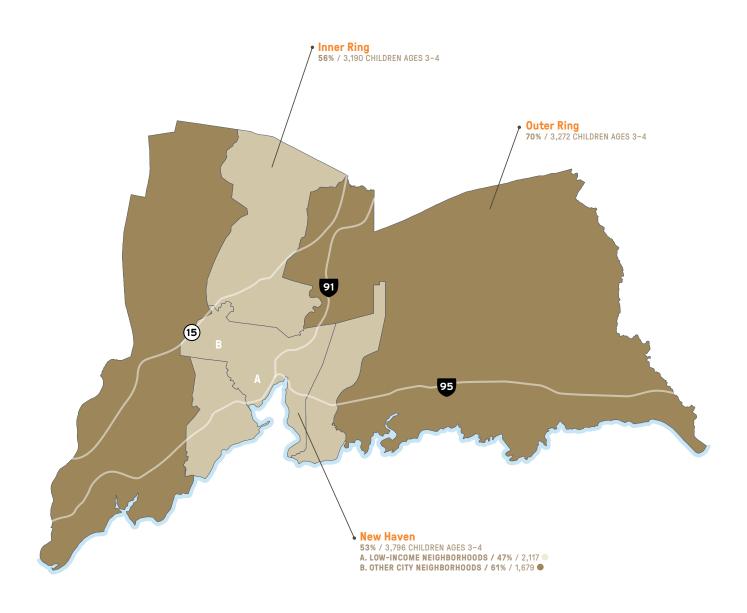
Preschool Enrollment

Statewide Census data suggest that a family's ability to pay impacts preschool enrollment: in 2014, 3-and-4-year olds from low-income families (earning less than 200% FPL) were less likely to enroll in center-based preschools (54 percent) when compared to children from higher-income families earning more than twice the federal poverty line (67 percent).⁹⁵ In this same year enrollment rates of 3-and-4-year-olds were considerably higher in the Outer Ring towns overall (70 percent) compared to in the Inner Ring (56 percent) or New Haven (53 percent).⁹⁶

Preschool Enrollment in Greater New Haven, 2014

CHILDREN AGES 3-4, ENROLLED IN CENTER-BASED PRESCHOOL







Importance of Education

Education is key for determining positive outcomes for individuals and communities. People with high school diplomas or college degrees have more employment options and higher potential earnings, on average, than people who do not finish high school. 97 In turn, individuals with good financial stability support the local economy through tax contributions and consumer purchases. Also, people with more years of education are more likely to be civically engaged and to be in good health. 98

Demographics of K-12 Students

During the 2014–15 school year, there were 61,900 students in grades K–12, at 14 public school districts in Greater New Haven (not including students at charter schools).⁹⁹ Eleven percent of all K–12-aged children attended private schools.¹⁰⁰

Fifty percent of Greater New Haven public school students are white, and 50 percent are children of color: 21 percent African-American, 22 percent Hispanic, and 7 percent some other race. A higher share of young children identify as minorities, compared to older children (see page 12) — indicating that the student body will increase in racial and ethnic diversity as older students age

out of the student body. New Haven public schools mostly enroll children of color — 85 percent are children of color — compared to students at Outer Ring school districts, where 82 percent are white.¹⁰¹

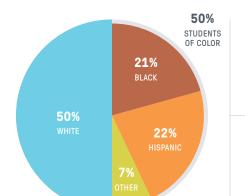
A student who takes special education classes, who qualifies for free or reduced-price meals (FRPM) at school based on low family income (below 185% the federal poverty line), or who is an English Language Learner (ELL) is considered to be high-needs.¹⁰² Of students in preschool through twelfth grade at Greater New Haven public schools, 13 percent are special education, 38 percent are FRPM-eligible, and 8 percent are ELL; some students have more than one high-needs status.¹⁰³ These rates are similar to statewide averages.

In New Haven, over 60 percent of students have at least one high-needs status, while less than a quarter of students at Outer Ring school districts are high-needs.¹⁰⁴

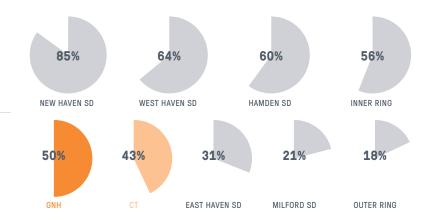
Students are considered to be transient if they change schools at least once within a school year, but counts of this population kept by Greater New Haven schools are unreliable. Census data show that nine percent of all school-aged children (ages 5–17, attending private or public schools) living in the region move homes each year (although this overestimates the rate of transiency at public schools, since not all children who move must change schools). This rate ranges from 16 percent in New Haven, to 7 percent in the Outer Ring towns.¹⁰⁵



GREATER NEW HAVEN PUBLIC SCHOOL STUDENTS, K-12



STUDENTS OF COLOR, BY DISTRICT



High-Needs Students

GREATER NEW HAVEN PUBLIC SCHOOL STUDENTS BY HIGH-NEEDS STATUS, PREK-12, 2014-15*

	TOTAL STUDENTS	SPECIAL Education	SPEC ED PERCENTAGE	ENGLISH Language Learner	ELL PERCENTAGE	FREE AND REDUCED-PRICE MEAL ELIGIBLE	FRPM ELIGIBLE PERCENTAGE
Connecticut	546,347	72,773	13%	34,919	6%	205,921	38%
Greater New Haven	61,912	7,953	13%	4,856	8%	23,641	38%
New Haven SD	21,711	2,708	12%	3,080	14%	12,743	59%
Inner Ring	14,631	2,200	15%	1,276	9%	7,299	50%
East Haven SD	3,011	390	13%	225	7%	1,503	50%
Hamden SD	5,680	879	15%	272	5%	2,375	42%
West Haven SD	5,940	931	16%	779	13%	3,421	58%
Outer Ring	25,570	3,045	12%	500	2%	3,599	14%
Milford SD	6,278	766	12%	153	2%	1,350	22%

^{*} Some students belong to more than one high-needs group.

Skill-Building and Academic Achievement

Early school success is highly linked to later achievement. Reading and math ability in kindergarten are predictors of proficient skills in more advanced subjects. ¹⁰⁶ A study by the Annie E. Casey Foundation found that about 16 percent of children who are not reading proficiently by the end of third grade do not graduate from high school on time, a rate 4 times greater than that for proficient readers. ¹⁰⁷ Achievement in middle school is even more highly correlated with high school graduation. One study found a 30-percentage point difference in graduation rates between students who had completed algebra by the 8th grade and those who had not. ¹⁰⁸ Math skills in eighth grade also indicate preparedness for technical classes in high school. ¹⁰⁹

According to the Connecticut State Department of Education, Greater New Haven public school students overall perform slightly below statewide averages on standardized tests (the Smarter Balance Assessment Consortium, or SBAC). In 2015, 47 percent of third graders in the region demonstrated proficient skill by passing the reading test, 38 percent of fourth graders passed the math test, and 32 percent of eighth graders passed the math test. Greater New Haven pass rates were about 6 percentage points lower than corresponding statewide rates. Achievement differed by school district: for example, the third grade reading pass rate was 78 percent at Guilford School District, 3 times the pass rate at New Haven schools.¹¹⁰

Attendance and Academic Achievement

In Connecticut, a student is considered "truant" if he has more than four unexcused absences in any one month or more than ten in one school year, while he is considered "chronically absent" if he misses more than 10 percent of school days for any reason.¹¹¹ Absenteeism, whether excused or unexcused, has significant effects on academic achievement. Children who are chronically absent in both kindergarten and first grade are much less likely to read proficiently by the end of third grade. One Baltimore study found that sixth-graders who are chronically absent are two and a half times less likely to graduate from high-school than their non-chronically absent peers.¹¹²

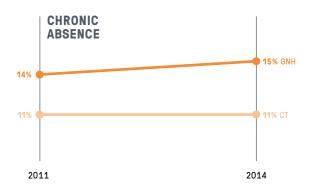
During the 2013–14 school year, Greater New Haven students had higher rates of chronic absence (15 percent of all students) than the state as a whole (11 percent). Among the region's students, high schoolers are approximately twice as likely to be chronically absent than students in grades K–8 — a pattern that holds true at most school districts in the region. Chronic absence rates range from 2 percent for all Madison public school students, to more than 25 percent among New Haven students.¹¹³

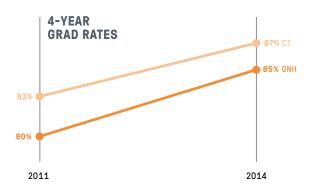
Like students who are absent, students who are suspended lose valuable class time. For students who are otherwise attending school and passing their courses, a single suspension in ninth grade is significantly correlated with later chronic absence and academic failure.¹¹⁴ Being suspended once

Academic Achievement in Greater New Haven Schools

STUDENTS SCORING "PROFICIENT" ON STANDARDIZED TESTS (SBAC), 2015, AND 4-YEAR GRAD RATE, 2014

	3RD GRADE READING	4TH GRADE MATH	8TH GRADE MATH	4-YEAR GRAD RATE
United States		39%	32%	82%
Connecticut	54%	44%	37%	87%
Greater New Haven	47%	38%	32%	85%
New Haven SD	24%	11%	15%	76%
Inner Ring	50%	36%	23%	82%
East Haven SD	47%	35%	16%	81%
Hamden SD	58%	43%	27%	89%
West Haven SD	45%	29%	22%	74%
Outer Ring	66%	61%	48%	93%
Milford SD	54%	49%	38%	92%





in ninth grade doubles a student's likelihood of dropping out.

Suspension rates at Greater New Haven schools are below the state average. During the 2012–13 school year, regional schools had an overall rate of 60 out-of-school suspensions (OSS) per 1,000 students, compared to 75 per 1,000 students statewide. However, district and state-level data reveal dramatically higher OSS suspension rates for students at poorer school districts and for non-white students. For example, the OSS suspension rate in New Haven School District (93 per 1,000) is nearly 8 times higher than the rate at Madison schools. Analysis of statewide data reveals that compared to white students, black students are more than 6 times more likely to be suspended, and Hispanic students are 4 times more likely.

On-Time High School Graduation

Ultimately, 85 percent of Greater New Haven seniors graduated on time — in 4 years — in 2014, slightly lower than the Connecticut-wide rate of 87 percent. Corresponding with district-wide rates of student need, academic achievement, and absence from school during the K–12 years, graduation rates differ by school district. At the Outer Ring districts, the four-year graduation rate was 93 percent, compared to 76 percent at the New Haven district.¹¹⁸

Barriers to Academic Achievement

In 2015, high-needs Greater New Haven students of any grade (including FRPM-eligible, special education, and ELL students) passed the SBAC reading test at half the rate of non-high needs students.¹¹⁹ Similarly, high-needs students of any grade passed the SBAC math test at less than half the rate of non-high needs students. Across a majority of academic measures, large disparities in performance rates exist between groups that differ by race/ethnicity, family income, and English language proficiency.¹²⁰ Chronic absence, suspension, and transience also put students at greater risk for poor academic performance.121 Students from groups who perform below average on earlier measures of achievement ultimately are less likely to graduate from high school on time. 122

These disparities are evidence of what is commonly referred to as the "achievement gap": the persistent difference in academic performance between two groups of students, particularly groups defined by race/ethnicity or socioeconomic status.¹²³ It is linked to an "opportunity gap," related to family income and resulting resources — such

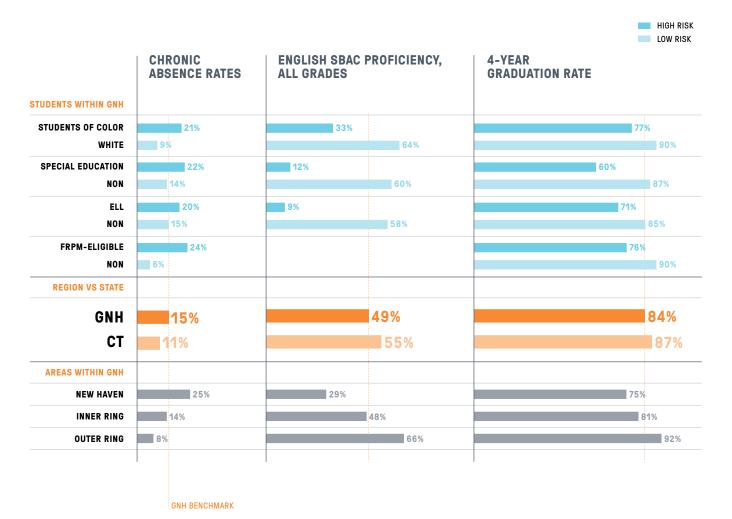
as access to books or educational games, nutrition, and social environment — that affect students' performance. 124 The opportunity gap begins during early childhood — by age 3, children living in poverty have heard 30 million fewer words than children from high-income families 125 — and it lasts through high school graduation and beyond. 126 It persists in school districts and regions across the state and nation. 127

Higher Education

In 2013, 74 percent of Greater New Haven public high school graduates enrolled in college, about three-quarters of whom started four-year programs. Between 2007 and 2013, the number of students who enrolled in any two or four-year program grew by 4 percent. Each year about 90 percent of all former Greater New Haven students who started college persisted on to a second year of college. Six years after high school graduation, 47 percent of all Greater New Haven Class of 2008 students had earned a post-secondary degree, a majority emerging with four-year degrees.



STUDENT PERFORMANCE ON ACADEMIC ACHIEVEMENT MEASURES: 2015 SBAC "PROFICIENCY" RATES, 2014 CHRONIC ABSENCE RATES, 2014 4-YEAR GRADUATION RATES



A quarter of Greater New Haven high school graduates enroll at state or community colleges, and of those students, more than 80 percent are placed in remedial courses to relearn high school material. 129 This signals that they are not prepared for collegelevel classes and ultimately results in costing them extra time and money to finish their degrees.

Further, college enrollment and completion vary widely for graduates of different districts. In 2013, 65 percent of New Haven high school graduates continued on to college. Only 26 percent of the New Haven Class of 2008 finished a two or four-year college degree in six years. By comparison, the

Outer Ring towns' districts had a collective college enrollment rate of 81 percent, and a six-year degree attainment rate of 62 percent. 130 (FIG 4.10)

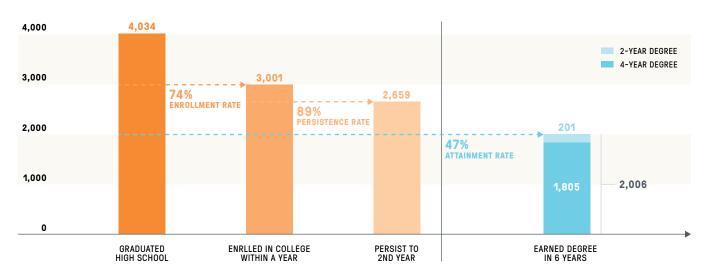
Opportunities for Young People

Young people need access not only to jobs, but jobs with potential for professional advancement, in order to transition from dependence on parents to economic self-sufficiency.

Nearly two-thirds (63 percent) of young people from Greater New Haven report that they have the education and training they need to advance their careers, more than the 53 percent statewide.

Higher Education of Greater New Haven Students

COLLEGE ENROLLMENT, PERSISTENCE*, AND COMPLETION† OF GREATER NEW HAVEN PUBLIC SCHOOL GRADUATES, 2008 AND 2012



	GRADUATED High School	ENROLLED IN COLLEGE WITHIN A YEAR	ENROLLMENT RATE	PERSIST TO 2ND YEAR	PERSISTENCE RATE	EARNED DEGREE IN 6 YEARS	ATTAINMENT RATE	WITH 4-YEAR DEGREE	WITH 2-YEAR DEGREE
Connecticut	38,666	27,971	72%	24,826	89%	17,953	47%	15,740	2,213
Greater New Haven	4,034	3,001	74%	2,659	89%	2,006	47%	1,805	201
New Haven SD	958	627	65%	493	79%	257	26%	198	59
Inner Ring	918	631	69%	542	86%	420	37%	362	58
East Haven SD	168	122	73%	108	89%	101	40%	79	22
Hamden SD	453	315	70%	274	87%	206	40%	189	17
West Haven SD	297	194	65%	160	82%	113	31%	94	19
Outer Ring	2,158	1,743	81%	1,624	93%	1,329	62%	1,245	84
Milford SD	463	344	74%	313	91%	243	52%	211	32

^{*} Data received from Greater New Haven Public School Class of 2012, most recent data available.

[†] Data received from Greater New Haven Public School Class of 2008, most recent data available.

4% AND DOWN

11% TO 13%

5% TO 7% 8% TO 10%

Overall, Greater New Haven youth (compared to state averages) are less likely to agree that local residents have excellent or good ability to find suitable employment or that their town has positive role models for children and youth. However, young people from the Outer Ring towns have more favorable opinions on these opportunities for youth, compared to the state averages.¹³¹

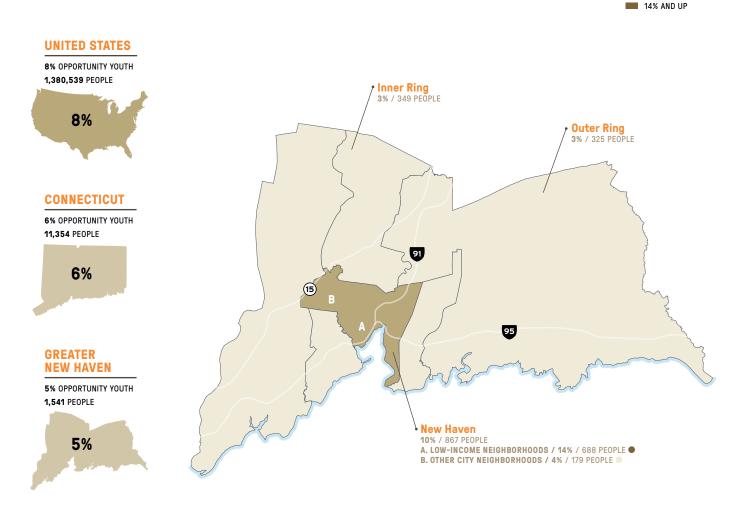
Many young people still struggle to obtain employment. Statewide, the official unemployment rate in 2015 was 10 percent for residents ages 16 to 24, compared to 5.6 percent for all adults. A fifth of young residents of Greater New Haven report underemployment—either being unemployed but looking for work, or being employed part-time but

preferring full-time work.133

Thirteen percent of this age group is neither employed nor attending school (although the share is lower among 16–19 year olds).¹³⁴ These people are not connected to the social and economic opportunities that their peers can access through school or places of employment. They are more likely never to complete high school or college and to experience hardships, such as chronic unemployment, poverty, or involvement in the criminal justice system, which cost themselves and their communities.¹³⁵ However, members of this group can be called "opportunity youth," because they represent great potential for the community and workforce.¹³⁶ There are high concentrations of



RESIDENTS, AGES 16-19, WHO ARE NOT ATTENDING SCHOOL AND NOT EMPLOYED



opportunity youth in urban and periphery areas.¹³⁷

Depending on where they live, young people in Greater New Haven have drastically different degrees of opportunity. The high neighborhood income inequality in the region (see page 16) means that many low-income people live in areas of concentrated poverty.¹³⁸ Isolated from the overall regional prosperity, youth residing in concentrated poverty areas have limited access to the economic, educational, and social resources that promote upward mobility.¹³⁹ One Harvard study estimated that a low-income child growing up in New Haven County would earn 8 percent less at the age of 26, compared to a low-income child from an average place in the U.S. (where poverty is less concentrated). The earnings loss in New Haven County mostly impacts boys, for whom there is an estimated 15 percent earnings loss. Conversely, New Haven County children from high-income families have similar earnings in adulthood as their average counterparts.140

Opportunities for young people are also stratified based on gender. Overall, young women in Greater New Haven have lower rates of unemployment and are more likely to say that they have enough training and education to advance professionally. More female students complete bachelor's degrees than males at Connecticut universities. These differences build from higher achievement for girls compared to boys during the K–12 education period, including a higher four-year graduation rate.

However, serious disparities in salary and employment opportunities exist for young women. In 2014, about 10 percent of women graduating from four-year Connecticut universities completed STEM majors (Science, Technology, Engineering, and Math), half the share of men (20 percent).144 In 2012, Connecticut women overall were more likely to work in industries paying low or belowaverage wages, such as service, arts, education, and community service. Connecticut women earn 78 cents on the dollar compared to men who hold the same positions. Pay gaps are even larger for women of color: black and Hispanic women earn 60 cents and 47 cents, respectively, for every dollar that the average white man makes (the highest by median earnings).145

Opportunities for Young People in Greater New Haven

RATES AND PERCEPTIONS OF ECONOMIC AND SOCIAL OPPORTUNITIES, PEOPLE UNDER 25

	OPPORTUNITY YOUTH, AGES 16–19	UNEMPLOYMENT RATE, AGES 16–24	UNDER EMPLOYED, AGES 18-24	HAVE ENOUGH EDUCATION IN CAREER, AGES 18–24	BELIEVE JOB OPPORTUNITIES ARE GOOD, AGES 18–24	BELIEVE THERE ARE ROLE MODELS IN COMMUNITY, AGES 18–24
Connecticut	6%	10%	23%	53%	46%	71%
Greater New Haven	5%		21%	63%	37%	65%
New Haven	10%		25%	46%	27%	55%
Inner Ring	3%		20%	56%	37%	65%
Outer Ring	3%		16%	81%	47%	83%
Males	7%		22%	57%	31%	70%
Females	4%		19%	68%	42%	67%

ECONOMIC OPPORTUNITY IN GREATER NEW HAVEN

A community's well-being is inextricably tied to its economy. It is, in many ways, a symbiotic relationship: a flourishing economy provides the financial support for healthier lifestyles, and healthier individuals are able to pursue more opportunities to better their financial state.

In this section, we examine job trends in Greater New Haven, with a particular focus on differences between industries, which impact the economy at large, and differences in access to jobs, which impact individuals. We also examine how inequitable access to transportation and education impact job opportunities, especially those that pay a relatively high wage or "living wage," defined here as \$40,000 per year, or \$3,333 per month (though some researchers estimate the county's cost of living to be higher than this level.¹⁴⁶ Fifty-five percent of the region's and the state's working residents earn a living wage. The remaining 45 percent of employed people have "low-wage" jobs, which pay less than \$40,000 per year (less than \$3,333 per month).147 Access to education, transportation, and financial services all factor into securing good jobs.

Jobs Access

The city of New Haven is the main employment hub for the region. The city has 78,000 jobs, or almost 40 percent of the thirteen-town region's jobs. The region's high-wage jobs (defined above) are also centered in New Haven; the city has 51,000 high-wage jobs, equal to a disproportionately high 47 percent of regional high-wage. Twenty-nine percent of regional low-wage jobs (defined above), or 27,000 jobs, are in the city. By comparison, Milford, which has the second highest number of jobs by town, has 27,700 jobs total (14 percent of all regional jobs), of which 13,300 are high-wage jobs (12 percent of regional high-wage jobs), and 14,400 are low-wage (15 percent of low-wage).¹⁴⁸

Across the region, the share of high- or low-wage workers who commute to another town relates to the number of suitable jobs in their town. In the Outer Ring towns as a whole, 88 percent of high-income workers leave their town for work, and 77 percent of low-income workers do. Among residents of New Haven, where the highest numbers of high-and low-wage jobs are located, only 47 percent of high-income workers and 66 percent of low-income workers commute to another town for work. In fact,

high-wage residents of New Haven are the only group of which less than half commutes to another town to work, out of all high- and low-wage workers in other towns throughout Connecticut.¹⁴⁹

New Haven, Milford, North Haven, and Orange have net influxes of workers; more people commute in from other towns to work than residents commute out. The opposite is true in the other towns, which have more working residents than jobs located there. Still, residents in every town hold only a small share of jobs in that town; New Haven has the highest share of residents holding jobs in their town, with one-fifth of high-wage jobs and 30 percent of low-wage jobs filled by city residents.¹⁵⁰

Like other communities, Greater New Haven faces "spatial mismatch," in that many people live far from jobs that are suitable for them. The regional distribution of high-wage jobs in the city and low-wage jobs outside the city stands in opposition to the concentrations of low-income city residents and high-income suburban residents. Many higher-paid workers commute from the suburbs to their city jobs. Meanwhile, the majority of lower-skill workers living in the city cannot find suitable employment within the limited pool of lower-wage jobs there and find it difficult to access suitable jobs in surrounding towns, due to housing costs and unreliable transportation access in those areas (see Transportation section below).¹⁵¹

As a result, there is great disparity in job opportunity and access for high- and low-wage workers in Greater New Haven. According to the 2015 CWS, 52 percent of adults with household incomes over \$100,000 thought the ability of residents to find suitable employment was excellent or good, compared to just 30 percent of adults with an income of \$30,000 or less. 152 Access is perhaps most stratified among city residents. The "underemployment" rate unemployed or wanting full-time work but only working part-time—is 2 percent among New Haven workers with a household income over \$100,000. For those in households earning \$30,000 or less, underemployment is 39 percent (see Underemployment section below).153

Transportation

Good transportation access enables people to take jobs throughout the region and beyond; those without it have fewer economic opportunities. "Job sprawl" over recent decades has resulted in the relocation of entry-level jobs and jobs with lower educational requirements from city centers

to suburban areas. In a 2014 focus group, New Haven residents said transportation was a more influential factor in finding a job than either skills or job growth. The same group cited ineffective bus routes and financial barriers to owning a car as two main impediments to transportation access. The 2015 CWS found that in Greater New Haven, unemployment rates are 21 percent among people without access to a car, more than three times the rate among those with access to a car (6 percent).

The 2015 CWS data show that both age and race are linked to transportation access. Adults between the ages of 35 and 49 reported the best access to transportation, while younger and older adults reported greater difficulty. People who identify as white reported better access to transportation than people of color. In particular, nearly all white individuals between the ages of 35 and 49 reported "often" having access to reliable transportation (97 percent). Much lower shares of black and Latino individuals reported access to reliable transportation, typically about 20 percentage points less than their white counterparts in each age

group. Latino young adults (ages 187–34) had the lowest rates of reliable access, at 59 percent. 156

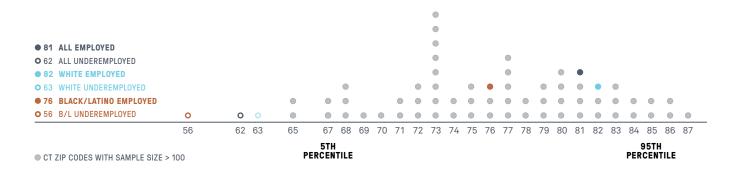
Racial disparities in transportation are partially explained by household wealth. Compared to an unemployed person of color in Greater New Haven, an unemployed white person is roughly six times as likely to live in a household with a total household income over \$100,000.157 Nationally in 2011, the typical white household owned \$16 for every \$1 owned by a Black household, and \$13 for every \$1 owned by a Latino household. White adults were also many times more likely to receive large inheritances or gifts.158 Given the importance of reliable transportation to obtaining a job, unemployed white people are likely better positioned to access jobs than unemployed people of color.

Limited access to transportation is compounded by limited access to financial services and other financial stressors. The less often a respondent had access to a car, the less likely they had a checking or savings account. The DataHaven Financial Security Index combines responses to



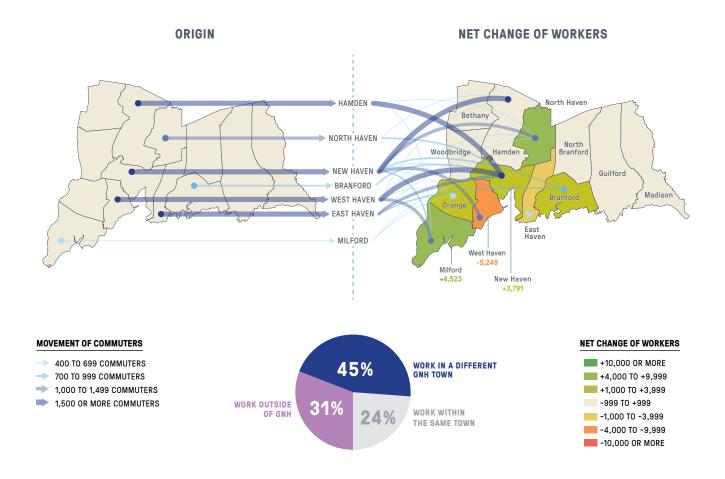
INDEX SCORE COMPARISON

Financial Security Index for workers living within Greater New Haven



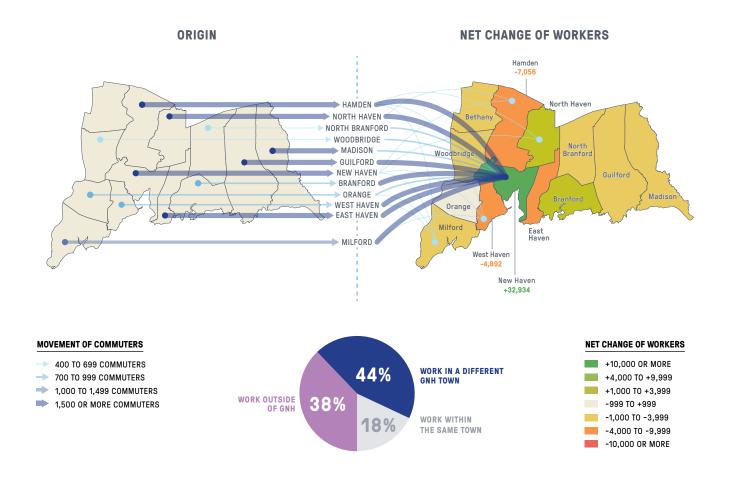


Movement of Low-Income Workers (Salary < \$40,000)



DESTINATIONS FOR WORKERS WHO WORK OUTSIDE OF GNH					
DESTINATION	TOTAL LOW INCOME COMMUTERS				
Fairfield County, CT	**************************************	11,303			
Greater Hartford, CT	††††††	9,032			
New York City (5 Counties)	ŤŤ	901			
Other CT	††††	2,153			
Other NY	ŤŤŤŤ	1,917			
Massachusetts	ŤÍ	793			
Other States	ŤŤÍ	1,283			

Movement of High-Income Workers (Salary > \$40,000)



DESTINATIONS FOR	WORKERS WHO WORK OUTSIDE OF GNH	1 = 500 PEOPLE
DESTINATION	TOTAL HIGH INCOME COMMUTERS	
Fairfield County, CT	******************************	19,736
Greater Hartford, CT	**************************************	11,852
New York City (5 Counties)	†††	1,698
Other CT	††††	2,132
Other NY	††††í	2,679
Massachusetts	†Í	673
Other States	ŤŤ	934

eleven survey questions that include access to transportation and financial services. The index also considers whether respondents faced specific financial stressors in the previous 12 months, such as lacking money to provide adequate shelter for their families.¹⁵⁹

Employed Greater New Haven respondents scored 81 points on the index, above the state and overall county averages. Underemployed residents scored 62 on the index, equivalent to residents of the bottom 5th percentile of the state's zip codes in financial security. When disaggregated by race, the disparities are exacerbated.¹⁶⁰

Underemployment

The official unemployment rate measures the proportion of people who are not working but are actively looking for work. This metric excludes people who may feel "discouraged" from looking during the past few weeks, as well as "underemployed" part-time workers who would prefer to work full-time. The DataHaven Community Wellbeing Survey captures the underemployed population as well as the unemployed population of workers. The CWS underemployment rate consists of the working-age population that is not employed

but actively looking for work, plus those who hold a part-time job but would prefer a full-time job.¹⁶²

In Greater New Haven, the underemployment rate was 13 percent in 2015, ¹⁶³ compared to an official unemployment rate of 6 percent. ¹⁶⁴ The underemployment rate was highest in New Haven, particularly in the low-income neighborhoods, where it stood at 22 percent.

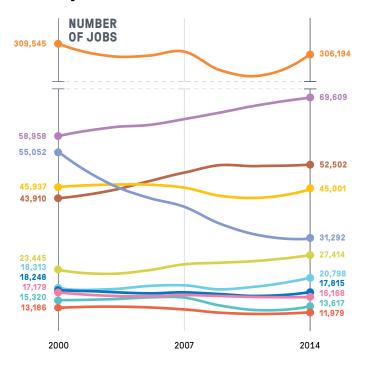
Underemployed workers can face some of the same health risks as unemployed individuals; in particular, workers who are employed at a lower wage or hold lower-status jobs experience symptoms of depression, low self-esteem, and low job satisfaction. Underemployment can generally contribute to job-related stress, which can have numerous effects not only on an individual's health, but also on many other areas of their life.

A Changing Economy

Since 2000, the Connecticut economy has weathered two economic recessions (2000–2003 and 2008–2010); while the state saw a period of recovery (2005–2006) from the first, it is still pushing through recovery from the second.¹⁶⁷ From 2000 to 2014, the total number of New Haven County jobs decreased by 4,500—roughly one percent,



New Haven County Jobs and Wage Trends by Sector, 2000–2014



2000-14 CHANGE IN WAGES

	2014 WAGES	PERCENT Change	DOLLAR Change
All Industries	\$54K	1.3 %	+\$696
Health Care and Social Assistance	\$49K	₩ 0.5%	-\$269
Educational Services	\$67K	1 28.1%	+\$14,727
Retail Trade	\$30K	13.3 %	-\$4,520
Manufacturing	\$65K	♣ 3.4 %	-\$2,298
Accommodation and Food Services	\$18K	■ 11.7 %	-\$2,422
Administrative Support and Waste Management	\$42K	19.5%	+\$6,888
Professional, Scientific, and Technical Services	\$94K	1.0 %	+\$970
Wholesale Trade	\$78K	₽ 0.1%	-\$34
Construction	\$64K	♣ 0.6%	-\$409
Finance and Insurance	\$86K	11.5 %	+\$8,857

paralleling a one percent state-wide decrease. During this period, the region's employment has risen or fallen according to the state's economic climate. Most recently, the number of jobs in New Haven County has steadily increased since a fifteen year low in 2010. At 366,700 jobs in 2014, however, employment is still 5,000 jobs below 2007's fifteen year high.¹⁶⁸

From 2000 to 2014, county-wide employment in the Manufacturing sector decreased by 43 percent, shedding 24,000 jobs. Construction and Finance & Insurance had smaller decreases in employment. Manufacturing job loss has been constant since before 2000,169 reflecting technological changes and globalization trends that are reducing the concentration of jobs in that industry.¹⁷⁰ Finance & Insurance also experienced steady decline in jobs since 2000, though with smaller losses than Manufacturing. Construction jobs were lost between 2008 and 2014, reflecting slow-downs in development as a result of the Great Recession. Other sectors like Retail Trade saw dips in the number of jobs—starting around the 2008 recession and reaching a low point in the early 2010s—but since then have nearly recovered to their former size.¹⁷¹



SHARE OF TOTAL INDUSTRY PAYROLL, BY INDUSTRY SECTOR, IN GREATER NEW HAVEN

	PAYROLL 2014	SHARE OF Payroll 2004	SHARE OF Payroll 2014	CHANGE IN Share of Total Payroll
Educational Services	\$3,500M	11.6%	17.7%	1 6.1%
Health Care and Social Assistance	\$3,400M	14.7%	17.3%	1 2.6%
Administrative and Support and Waste Management and Remediation Services	\$900M	3.2%	4.4%	1.2 %
Accommodation and Food Services	\$500M	2.4%	2.5%	★ 0.1%
Finance and Insurance	\$1,000M	5.1%	5.2%	1 0.1%
Professional, Scientific, and Technical Services	\$1,700M	8.6%	8.4%	■ 0.1%
Wholesale Trade	\$1,300M	6.7%	6.3%	₽ 0.4%
Construction	\$900M	4.9%	4.3%	₽ 0.6%
Retail Trade	\$1,300M	7.9%	6.7%	■ 1.2 %
Manufacturing	\$2,000M	18.7%	10.3%	♣ 8.4 %

Health Care, Educational Services,
Administration, and Accommodation & Food
Services all added jobs from 2000 to 2014. Health
Care had the largest expansion in jobs over the
period, gaining over 10,500 jobs (up 18 percent).
Educational Services gained the second most in
employment, adding 8,500 jobs (up 20 percent),
though nearly all growth occurred from 2000 to
2008.¹⁷²

The Connecticut Department of Labor projects some of these trends will continue state-wide through 2022. They forecast Health Care will continue to be the fastest growing sector, followed by Educational Services and Professional Services. They also forecast a growth in Manufacturing, bucking a 40-year reduction in that sector's employment.¹⁷³

Wages and Payroll

Average wages in each sector help contextualize the changes in job figures. While sector-wide averages mask the wide range of wages among occupations, they provide a useful approximation of the quality of jobs within each industry sector as a whole.¹⁷⁴

In 2014, the average wage in New Haven County was \$54,336. Wage growth has been relatively stagnant between 2000 and 2014. Average annual wages have been within \$1,500 of this level every year since 2000.¹⁷⁵

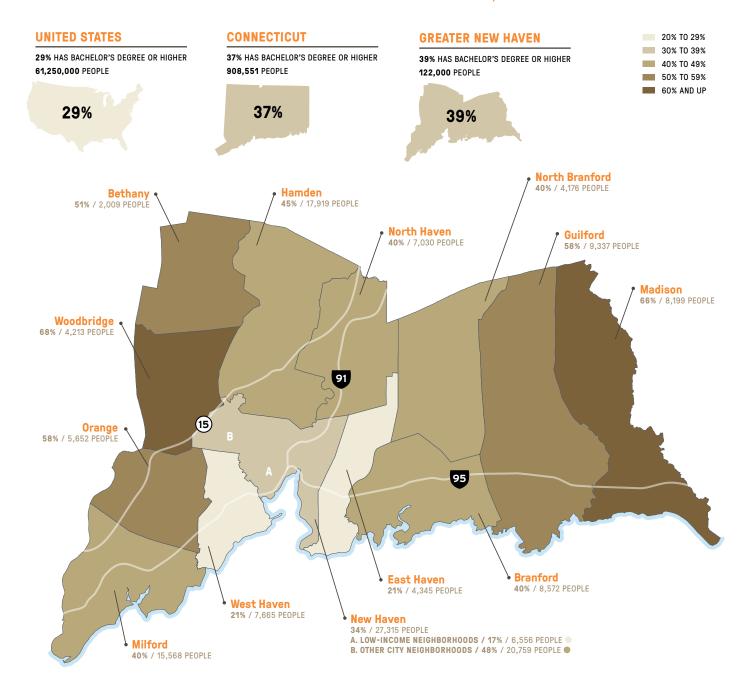
From 2000 to 2014, Professional Services remained the highest paid sector (2014 average wage was \$94,366) but had no significant net wage increase. Average wages in Finance & Insurance, on the other hand, increased by 12 percent, making it the second most highly paid sector at \$85,815 in 2014. The Educational Services and Administrative sectors had even larger wage gains (28 percent and 20 percent, respectively), but their average wages were still well below the top-paying sectors in 2014.¹⁷⁶

The greatest decreases in average wage can be found in Retail Trade (down 13 percent) and Accommodation & Food Services (down 12 percent). These two sectors are also the two lowest paying sectors; with average wages of \$29,521 and \$18,341, respectively, they are both significantly lower than the overall average wage.¹⁷⁷

Overall from 2000 to 2014, there was no change in New Haven County's payroll, or the total amount in wages paid to all employees working in the county. A slight (1 percent) increase in payroll from 2000 to 2007 was counteracted by a 1 percent decrease in payroll from 2007 to 2014.¹⁷⁸

Educational Attainment

PERCENT OF ADULTS AGE 25+ WITH A BACHELOR'S DEGREE OR HIGHER, 2014



	HAS LESS THAN HIGH SCHOOL DIPLOMA	PERCENTAGE	HAS BACHELOR'S OR HIGHER	PERCENTAGE	HAS MASTER'S OR HIGHER	PERCENTAGE
Connecticut	257,011	10%	908,551	37%	401,889	16%
Greater New Haven	31,257	10%	122,000	39%	59,383	19%
New Haven	14,339	18%	27,315	34%	15,015	18%
Inner Ring	9,904	10%	29,929	31%	13,704	14%
Outer Ring	7,014	5%	64,756	47%	30,664	22%

Municipal Financial Capacity in Greater New Haven

MUNICIPAL TAX CAPACITY AND COST PER CAPITA, 2015

	TAX CAPACITY PER CAPITA	MUNICIPAL COST PER Capita	MUNICIPAL SURPLUS PER CAPITA
Bethany	\$1,434	\$1,251	1 \$183
Branford	\$1,625	\$1,305	1 \$320
East Haven	\$924	\$1,267	♣ \$343
Guilford	\$1,826	\$1,186	1 \$640
Hamden	\$916	\$1,252	♣ \$336
Madison	\$2,255	\$1,111	1 \$1,144
Milford	\$1,252	\$1,414	₩ \$162
New Haven	\$548	\$1,649	₩ \$1,101
North Branford	\$1,229	\$1,163	1 \$66
North Haven	\$1,599	\$1,346	1 \$253
Orange	\$1,580	\$1,334	1 \$246
West Haven	\$700	\$1,450	♣ \$750
Woodbridge	\$1,739	\$1,272	1 \$467

The Educational Services sector has seen the greatest increase in the proportion of total regional payroll that it represents, resulting from its positive growth in both job counts and wages. In 2014, Educational Services paid a total of over \$3.5 billion to its 52,502 employees, climbing from 12 percent to almost 18 percent of the total payroll in New Haven County. As a share of the county's total payroll, Educational Services surpassed Health Care (17 percent of the payroll). Health Care and Administrative Services were the only other industries to grow significantly in payroll, though primarily due to job growth (stagnant wage growth in these industries had no impact on payroll).¹⁷⁹

The payroll growth in medium-high wage sectors like Educational Services and Health Care is offset by other sectors whose payrolls are either shrinking or staying the same. Sectors like Accommodation & Food Services and Retail Trade have increased in jobs. But with decreasing wages that are already the lowest on average by industry, the changes within these sectors have had a negative net impact on average county wages. As these industries add workers, the number of low-wage workers also increases, and income inequality is exacerbated.

Education and the Workforce

Increasing wage inequality by industry sector highlights the relationship between education

and job quality. In 2016, a high-school diploma is required for most non-minimum wage jobs, and a college education is necessary for many of the high-paying occupations in Greater New Haven. 181 Compared to adults with at least bachelor's degrees, Greater New Haven adults without high school diplomas are nearly four times more likely to be unemployed, 182 and had one-third to one-half the average earnings. 183 Approximately 41 percent of all workers without four-year degrees report needing more education or training to advance their careers, compared to 19 percent of workers with at least bachelor's degrees. 184

Between 2000 and 2014, the region saw changes in the education levels of its residents, similar to state-wide changes. The number of adults ages 25 and older without high school diplomas decreased by 14,500 (down 32 percent). Over the same period, the number of college graduates living in the region grew 27,000 people (up 28 percent). In 2014, 10 percent of adults were without high school diplomas, while 39 percent had bachelor's degrees—compared to 15 percent and 32 percent in 2000, respectively. This trend is driven partially by demographic shifts: older residents came of age in an era when high school and college degrees were much less common.¹⁸⁵

Each town within the region experienced shifts towards higher educational attainment. However, significant differences still exist within the region,

by race and ethnicity, neighborhood, and income. These disparities are largely due to barriers related to family income and wealth, such as difficulty paying tuition or the K-12 opportunity gap (see Barriers to Academic Achievement section, page 48).¹⁸⁶

The Outer Ring has high educational attainment, well above average even in Connecticut, which ranks fourth in the nation in the share of adults with college degrees. Nearly half of Outer Ring adults hold a bachelor's degree, more than a fifth have at least a master's degree, and just 5 percent lack a high school diploma. In New Haven, by comparison, 18 percent of adults have not graduated from high school. Still, the shares of New Haven residents with four-year degrees (34 percent) and with master's degrees (18 percent) are similar to the state averages. The presence of two major universities and the influx of college graduates to the city—with New Haven experiencing the greatest growth in people with bachelor's degrees of any town in the region (up 40 percent)—are responsible for educational attainment levels in New Haven that are above the shares in most other major city centers.187



Understanding a community's health means looking at its residents' feelings of trust in one another, relationships with friends and family, and volunteer activities. 188 Civic engagement — the process by which people participate in community life and local affairs — improves the government's ability to solve public problems. Healthy communities, where residents feel safe and engaged, can impact the individual health of their residents and build social connections. 189

Community resources can mitigate economic and social inequalities by providing essential services, from schools to transportation to computers in public libraries. On the other hand, access to resources can exacerbate disparities between towns, because wealthier towns generally can support more and higher-quality resources. In Greater New Haven, regional-level data on community well-being may hide disparities between towns, neighborhoods, and demographic groups.

Financial Capacity

In Connecticut, local government services — including education, public safety, parks, libraries, cultural events, and infrastructure maintenance — are supported by revenue from taxes and fees as well as state and federal government grants. The revenues of local governments in Greater New Haven vary significantly because they rely heavily on property tax and have very different tax bases. 190 One way to conceptualize these differences is to imagine every town had the same tax rate and calculate how much tax they would collect at that rate — this number can be viewed as "the municipal capacity." 191

All Outer Ring towns have more than \$1,000 per person in municipal capacity, while the capacities of New Haven and the Inner Ring towns are all below \$1,000 per person. New Haven, like most other urban areas, has among the state's lowest municipal capacities per person; in contrast, the municipal capacities per capita of the Outer Ring towns of Madison, Guilford, and Woodbridge are each more than three times that of New Haven.¹⁹²

Because of these differences, towns with higher property values have more available tax revenue to support high-performing schools and quality government services, even while maintaining relatively low tax rates. On the other hand, towns with less valuable property per capita must tax each property at higher rates to support local budgets.

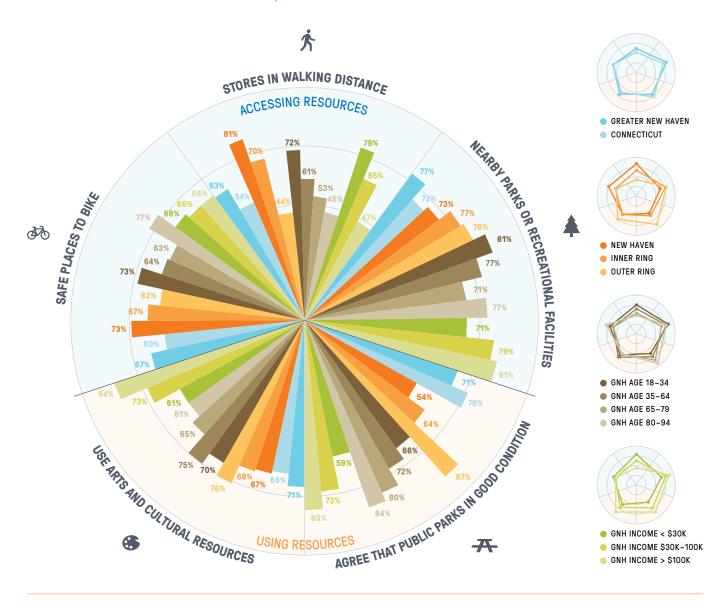
New England Public Policy Center research shows that the per-person cost for basic quality public services is highest in urban areas. This suggests that structural costs come with providing services in cities — which already have limited taxing capacities that disadvantage local administrations regardless of their policies. [93 (FIG 4.19)]

A Look at Public Institutions: Libraries

Though traditional library use has declined statewide over the past decade, Greater New Haven has instead seen greater use of its libraries, especially in New Haven. Annual library visits in the thirteen-town area increased 22 percent from 2002 to 2015; New Haven saw an increase of 29 percent over this period. However, both New Haven and the region still lag behind statewide library use: city residents had 5 library visits per person in 2015 and region residents had 4, compared to 6 visits per person statewide. Circulation rates increased 76 percent in New Haven from 2002 to 2015, with no change across the region; circulation rates in New Haven (3 items checked out per person) and the

Perceived Access and Use of Community Resources

2015 COMMUNITY WELLBEING SURVEY, PERCENT OF ADULTS AGE 18+



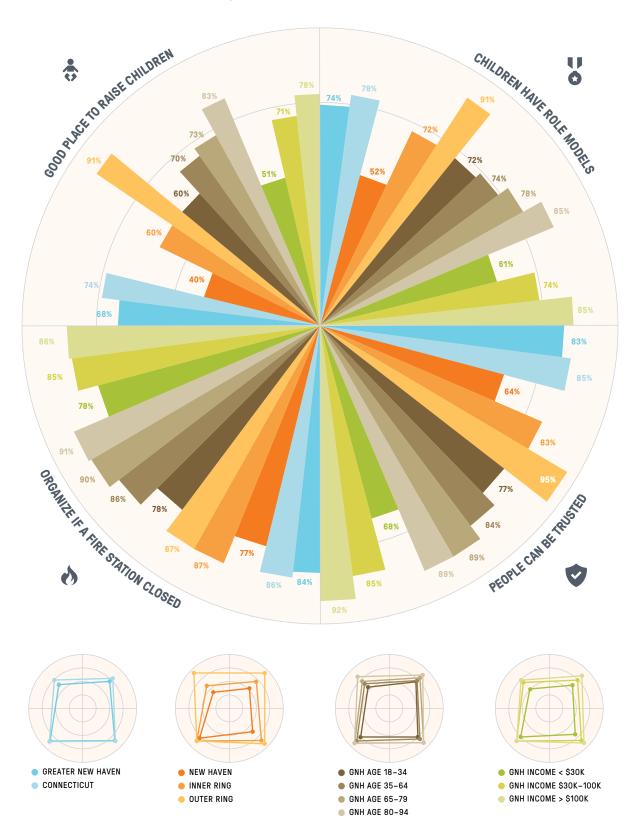
region (6 per person) were still lower than that of the state (8 per person) in 2015.

Even greater than the increases in traditional library use are those of other services. From 2002 to 2015, Greater New Haven libraries increased the number of free programs offered — classes, concerts, clubs, movie screenings, and other activities — by nearly threefold, with attendance at such programs nearly doubling.

Libraries receive funding from local taxes as well as private contributions and government grants. Generally, libraries in wealthy towns have higher budgets and might be expected to have greater use. However, even though New Haven had a smaller operating income per capita in 2015 than the Outer Ring suburbs (\$32 to spend per person per year versus \$51), the city still had higher rates of some library use; in particular, city residents have greater access to and use of computers with internet, with 17 computers per 10,000 residents, and an average of 1 computer use per resident in 2015 (compared to 10 computers per 10,000 residents and less than 1 use per resident in the Outer Ring).¹⁹⁴

Perceived Community Cohesion

2015 COMMUNITY WELLBEING SURVEY, PERCENT OF ADULTS AGE 18+



Quality of Society: Perceived Access to Community Resources

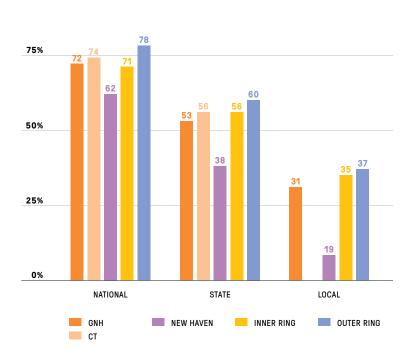
The 2015 DataHaven Community Wellbeing Survey (CWS) found that overall, Greater New Haven's residents (age 18 and over) are satisfied with their access to community resources. Seventy-four percent of residents reported that the availability of goods and services that meet their needs was excellent or good. Seventy-seven percent of residents reported that there are public parks and recreational facilities in their neighborhoods, and 71 percent rate these facilities as being in excellent or good condition. Seventy-one percent of residents reported sometimes or often going to concerts, museums, or other cultural event, compared to 66 percent statewide.

Sixty-eight percent of Greater New Haven residents believe their town is an excellent or good place to raise children, lower than the 74 percent of Connecticut residents reporting the same. More troubling are the differences by town and income: while 91 percent of Outer Ring adults feel their town

Voter Turnout in Greater
New Haven

PERCENT OF REGISTERED VOTERS WHO VOTED IN VARIOUS ELECTIONS, 2012-2015, BY TOWN

100%



is an excellent or good place to raise children, only 40 percent of New Haven residents feel this way. Likewise, a gap appears between area residents with household incomes below \$30,000 (51 percent) and those with incomes above \$100,000 (78 percent) feeling that their town is an excellent or good place to raise children.

Just as these measures of community satisfaction vary with income and location, access to community resources is linked to income as well. Wealthier residents report access to and satisfaction with recreational facilities at rates about 10 to 20 percentage points higher than those earning less than \$30,000.

Overall, Greater New Haven residents scored a 61 the Quality of Society Index, which summarizes several of the above factors — although results are mixed between towns. Residents of the Outer Ring scored a higher 71, while Inner Ring and New Haven residents scored 57 and 51, respectively.¹⁹⁵

Walkability Index and Commuting

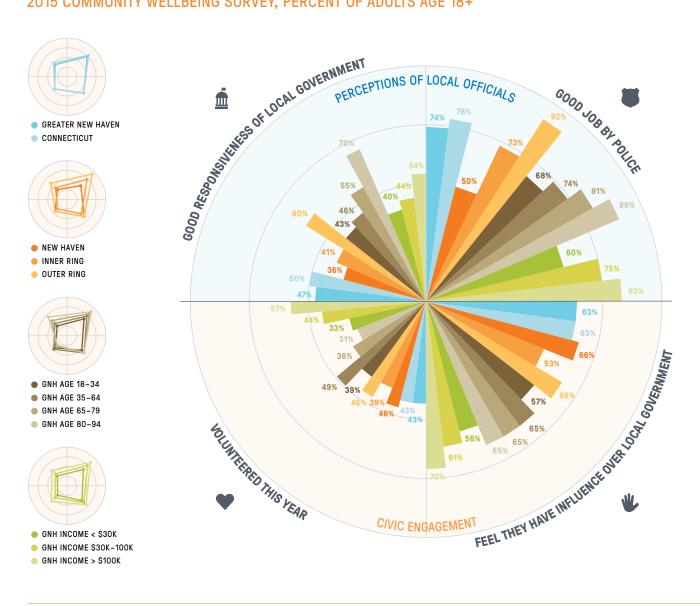
In most measures of walkability, New Haven fares better than its surrounding towns and the state overall. Walkability—having businesses and services within walking distance, infrastructure for walking and biking, and perceived public safety—significantly influences how much people walk and exercise.¹⁹⁶ Eighty-one percent of New Haven residents reported having destinations such as stores and banks within walking distance, compared to 70 percent in Inner Ring towns and only 44 percent in the Outer Ring. Likewise, 73 percent of city residents reported having safe places to bike, higher than 67 percent in the Inner Ring and 62 percent in the Outer Ring. The Walkability Index (see Chapter 1) is calculated based on several of these factors.¹⁹⁷ Overall, New Haven and Inner Ring residents have Walkability Index scores of 66, compared to 60 among Outer Ring residents.

In calculating its Walkability Index, New Haven gains points for ease of walking and biking, but loses significantly for feelings of safety, placing its index even with the Inner Ring. Of New Haven residents, 55 percent reported feeling unsafe walking in their neighborhood at night, far exceeding the 37 percent of Inner Ring residents and 15 percent of Outer Ring residents reporting the same.

Among residents region-wide, access to biking remains similar across income levels but having destinations within walking distance varies greatly, with 78 percent of residents with household incomes less than \$30,000 reporting walkable

Civic Engagement and Government

2015 COMMUNITY WELLBEING SURVEY, PERCENT OF ADULTS AGE 18+



places in their neighborhoods, but only 47 percent with incomes above \$100,000 reporting the same. Much of this is explained by geography, as lowincome residents are more likely to live in the city. New Haven's denser urban environment lends itself to residents' proximity to locations, such as businesses and bike lanes.

City residents also find themselves more likely to commute by modes other than driving. Only 57 percent of New Haven residents reported driving as their primary means of transportation, compared

to 90 percent of Outer Ring residents; New Haven residents instead use a variety of transportation types, such as getting rides (10 percent), public buses (18 percent), walking (7 percent), and biking (2 percent). City residents also enjoy shorter commutes, with 77 percent reporting commute times under half an hour (compared to 66 percent in the Outer Ring); after adjusting for household income level, workers with short commutes are generally somewhat happier and less anxious. As previously described, options for transportation to work may still be less than ideal for city residents, with only 71 percent either very often or fairly often having access to a car when they need it, compared to 95 percent in the Outer Ring.

Perceptions of Community Cohesion

Community cohesion — the degree to which residents feel connected, included, and invested in where they live — is linked to higher individual well-being as well as less crime and improved public health. Further, a cohesive community may fare better when facing recessions or other economic hardships.¹⁹⁸

In the 2015 CWS, 94 percent of Greater New Haven adults reported having relatives or friends they can count on. This figure is statistically equal across all towns, ages, races, and ethnicities, suggesting that the vast majority of area residents are close to at least one or two others in their community.

The majority of residents responded positively to questions of community cohesion — trust in neighbors, ability of neighbors to work together, and confidence in police — at rates similar to those statewide. However, disparities appear in these measures by location, with only 64 percent of New Haven residents trusting their neighbors, 77 percent feeling their neighbors could work together to solve a problem, and 50 percent rating the job done by police to keep residents safe as excellent or good, compared to 95 percent, 87 percent, and 92 percent in the Outer Ring towns, respectively.

Similar gaps occur between income groups, with higher-income residents having more positive feelings of cohesion. For example, low-income and high-income residents differ by 8 percentage points on ability of neighbors to work together. Much larger differences exist based on issues of safety and trust: there is a 23 percentage point gap in confidence in police and a 24 percentage point gap in trusting neighbors between residents with household incomes above \$100,000 and those with incomes below \$30,000.

Greater New Haven adults expressed different perceptions of cohesion with their neighbors and local government based on location, even after controlling for household income. For example, of people who earned less than \$30,000 and who lived in New Haven, 53 percent thought their neighbors could be trusted, compared to 73 percent and 92 percent of people in the same income category but

living in the Inner Ring and Outer Ring, respectively. This finding suggests that characteristics of a neighborhood or town are stronger determinants of how connected people feel to that community than personal income.

Voting and Volunteering

Greater New Haven residents have similar rates of civic engagement to the state overall, and are slightly more likely to be engaged than national averages.^{199, 200} Forty-three percent of adults report volunteering to address needs in their community in the past year in both the region and the state.²⁰¹ Registered voters in Greater New Haven are as likely as voters statewide to vote in elections.²⁰²

Following national trends, voter turnout in Greater New Haven varies greatly with the type of office to be elected, with greater numbers of residents voting in higher-office elections. According to state voting data, 72 percent of Greater New Haven's registered voters voted in the 2012 presidential election, 53 percent voted in the 2014 midterm gubernatorial election, and only 31 percent voted in 2015's local elections.²⁰³

Statewide data indicate that civic engagement is correlated with socioeconomic status: as personal income and educational attainment increase, so do rates of volunteering, voter registration, and election turnout.²⁰⁴ Voter turnout by location within the region reflects this pattern. New Haven had turnout rates of 62 percent in the 2012 election and 38 percent in 2014. In the Inner Ring towns, 71 percent voted in 2012 and 56 percent in 2014; these rates were 78 percent and 60 percent, respectively, in the Outer Ring towns.²⁰⁵ Younger adults, in addition to adults with low household incomes, were less likely to report registering to vote or volunteering,²⁰⁶ which is consistent with a national pattern that younger adults are less likely to be civically engaged.²⁰⁷

Government Effectiveness and Inclusion

Much like civic engagement and voter turnout differ by age and socioeconomic status, Greater New Haven residents report different perceptions of local governments' effectiveness. ²⁰⁸ According to the CWS, 47 percent of Greater New Haven adults considered their local government's responsiveness to residents' needs to be excellent or good. However, only 36 percent of New Haven adults felt their government was responsive; 40 percent of adults with incomes below \$30,000 felt their

government responsiveness was excellent or good, 14 percentage points below those with incomes above \$100,000.²⁰⁹ Additionally, while 49 percent of both white and Hispanic residents in Greater New Haven felt their government was responsive, only 38 percent of black residents felt similarly.

Sixty-three percent of Greater New Haven adults felt they have at least a little influence over local government decision-making, regardless of race and equal to responses statewide. Adults with incomes below \$30,000 and young adults ages 18–34 were less likely to report having influence over government, with only 56 percent and 57 percent, respectively, feeling this way.

Having elected officials whose demographics mirror the population as a whole is necessary for truly representative policies and government decision-making.²¹⁰ If people or groups have below-average perceptions of government inclusiveness and efficacy, it may reflect that they are underrepresented in government and public office. For example, 95 percent of elected officials nationally are over the age of 35.211 In Connecticut, Hispanics are underrepresented on state boards and commissions, holding less than 4 percent of positions despite making up 13 percent of the population overall.²¹² New Haven's city government is unique in that blacks and Latinos are actually overrepresented on the elected Board of Alders, with nearly three-quarters of the Board's membership; women hold a slight majority of seats on the Board as well.

CHAPTER 5

Conclusion & Endnotes

Conclusion

Greater New Haven rates highly on many national and state measures of quality of life and economic opportunity. The high skill levels of many adults, including recent immigrants to the region, is the basis for thriving educational, health care, and other advanced industries. As the previous chapters show, Greater New Haven residents are generally healthy compared to the nation as a whole, with lower rates of death from conditions such as heart disease. Workers employed in the region have higher average wages than workers elsewhere in the country. Across all towns, residents feel connected to others in their community, and express a willingness to fix problems.

Within Greater New Haven, significant differences in opportunity and well-being emerge when data are stratified by income, age, race, gender, and zip code. In recent years, the percentage of young children who live in low-income families and in distressed, low-income neighborhoods has risen. Wage inequality has continued to rise, and access to the growing number of jobs spread out throughout the region is a challenge for residents who lack reliable transportation. Residents of some neighborhoods experience risk factors such as lower graduation rates and chronic diseases—as well as levels of illness and premature mortality that far exceed those seen in the surrounding region. These differences should be viewed as opportunities to dramatically improve the wellbeing and future economic competitiveness of the region.

Certain issues demand our immediate and collective attention. Neighborhood distress, poor health, and financial insecurity in parts of Greater New Haven are disconcerting in their own right. Yet they also impact the ability of young children to grow up as healthy, happy, and productive adults, which impacts the region's long-term outlook. During the first three years of life, the human brain reaches 80 percent of its full size and forms connections whose strength and number, which depend heavily on the child's environment, ultimately impact the child's learning and other cognitive abilities.213 For example, speech sounds activate language-related parts of the brain; the more caretakers talk to or read with a child, the stronger and more numerous will be the connections formed in that child's brain. Infants and toddlers need nurturing, languagerich, and social settings, whether inside or outside their homes. For working parents, meeting these needs often requires high-quality child care and preschool programs. Such programs continue to foster children's brain development that starts at birth by developing the social-emotional skills and executive functioning necessary for success in school and in life. They also expand children's language and literacy, math, and fine-motor skills. Access to high-quality early care and education is particularly important for children exposed to adverse experiences. Young children who experience neglect or abuse, the absence of a loved one, unsafe or polluted surroundings, or exposure to "toxic neighborhoods" may not only suffer emotional instability or physical distress, but also disrupted brain development.²¹⁴ Access to high-quality early care and education settings can help children avoid these negative long-term outcomes by promoting healthy brain development.

At the other end of the age distribution, Greater New Haven's large and growing population of senior citizens will present new opportunities and challenges for area families and communities in the coming years. With many adults living substantially longer than they are able to drive on their own, this population will need social support, civic engagement, medical care, transportation, and housing options that are tailored to their needs.

Improving the quality of transportation networks, employment prospects, civic and educational infrastructure, and fair and affordable housing choices can enhance well-being among children and adults of all ages and abilities.

A COMMUNITY INDICATORS APPROACH

One of the most effective approaches to improving communities is to build collaborative groups of citizens who seek to build consensus using a "community indicators" program. These programs can monitor progress and provide objective information about collective challenges on a continuous basis. Community indicator projects have been on the rise in the past three decades; more than ever, neighborhoods are using data to inform local policies and bring about community change.

The work of DataHaven and its multi-sector partners in this second edition of the Greater New Haven Community Index is one effort to continue to build collaborations with local partners to develop more meaningful and useful measurements of our progress. DataHaven also provides an online and in-person technical assistance resource to help neighborhood residents use indicators that they feel best represent the opportunities and challenges they face. We hope that you will visit our website or contact us, layer the information in this report with your own stories, and use it to take action in your community.

NOTES ON FIGURES

CHAPTER 1. INTRODUCTION

1.1. Personal Wellbeing Index and Community Index. DataHaven analysis (2016). The Personal Wellbeing Index and Community Index were both developed by DataHaven based on the 2015 DataHaven Community Wellbeing Survey (CWS) and U.S. Census Bureau American Community Survey 2014 5-Year estimate data for the individual towns of New Haven, West Haven, Milford, Hamden, plus aggregate groupings of towns that are used elsewhere in the report: "Inner Ring" includes East Haven, Hamden, and West Haven; "Outer Ring" includes Bethany, Branford, Guilford, Madison, Milford, North Branford, North Haven, Orange, Woodbridge, and "Greater New Haven" includes all 13 of these towns. Additionally, New Haven neighborhood statistical areas are defined in this report to help illustrate that differences within New Haven are often greater than the differences between New Haven as a whole and other towns. New Haven "Low-Income Neighborhoods" are defined as Census Tracts that roughly match a "Promise Zone" identified by the City of New Haven in 2015 based on a contiguous area of neighborhoods that had the city's highest poverty rates, generally overlapping with the Dixwell, Dwight, Hill, Fair Haven, Newhallville, Quinnipiac Meadows, and West Rock neighborhoods plus parts of Beaver Hills (Tracts 1402-1407, 1413-1416; 1423-1425, and 1426.01). New Haven "Other City Neighborhoods" are the other Census Tracts throughout the City and include areas with a significantly wider range of income levels such as Amity, Downtown, East Rock, East Shore, Edgewood, West River, Westville, and Wooster Square (Tracts 1401, 1408-1412, 1418-1422, 1426.03, 1426.04, 1427-1428, 3614.01, and 3614.02). This definition is different from that used in the 2013 Greater New Haven Community Index; readers may wish to consult that document or the updated

New Haven Neighborhood Profiles on the DataHaven website (see ctdatahaven.org/data-resources/new-haven-neighborhood-profiles) to learn more about specific neighborhoods within the City of New Haven. To develop Community Wellbeing Survey data estimates for the two groupings of Census Tracts used in this report, the 800 responses from randomly-selected adults within New Haven were coded into one of these areas based on respondents' self-reported neighborhood, zip code, and major street intersections, and responses with an unknown neighborhood were not considered for the neighborhood statistical area estimates. The Personal Wellbeing Index is calculated based on several survey questions regarding self-rated health, life satisfaction, mood, free time, and connection to others (see previous page of report). Similarly, the Community Index is based on 12 key indicators from survey responses and Census data, as listed in the figure. Note that several indicators of the Community Index are indices themselvesthe Financial Security Index, Walkability Index, and Quality of Society Index are each calculated to summarize multiple indicators for ease of comparison. Each of the indicators shown are normalized from 0 to 1, where 1 represents an ideal outcome. Additional detail on data and methods for the 2015 DataHaven Community Wellbeing Survey are posted at DataHaven (http://www.ctdatahaven.org/reports/datahavencommunity-wellbeing-survey) and data and methods for the U.S. Census American Community Survey are posted at census.gov.

- 1.2. Community Index Components Data Value. Data Haven analysis (2016). See note for Figure 1.1 for definitions of each geographic area in the table. As described in the above note and in the report text, the raw percentages presented for college degree attainment, commute times, Pre-K enrollment, opportunity youth, severe housing cost burden, and low-income children are calculated by DataHaven directly from the U.S. Census Bureau American Community Survey 2014 5-Year estimates, whereas raw percentages presented for smoking, obesity, under-employment are directly from the 2015 DataHaven Community Wellbeing Survey's population-weighted estimates. For example, the table shows that the smoking rate among all adults in Connecticut was 15 percent in 2015. The personal well-being, financial security, walkability, and quality of society indices are derived from a larger set of responses to the Community Wellbeing Survey within each area and in this table are normalized from 0 to 1, with scores of 1 representing an ideal outcome. Further details on each of these indicators is given over the course of this report (refer to pages shown for each indicator in Figure 1.1) or are available from DataHaven upon request.
- 1.3. State Rankings. Table is compiled from the most recently-published rankings of the fifty U.S. states as of May 2016. These sources were chosen by DataHaven based on a comprehensive review of available national rankings and the author's assessment of the validity of each published source. Documents cited in the table are available online from the websites of the organizations cited, or from DataHaven.

CHAPTER 2. A CHANGING REGION

- 2.1. Population and Growth in Greater New Haven. DataHaven analysis (2016). 1990 figures are from the U.S. Census Bureau Decennial Census, Table P1, Total Population. 2014 population figures are from U.S. Census Bureau American Community Survey 2014 5-year estimate, Table B01001, Sex by Age. Tables available at http://factfinder2.census.gov/. 2000 median age from Decennial Census. 2014 median age from U.S. Census Bureau American Community Survey 2014 5-year estimate, Table B01002, Median Age by Sex.
- 2.2. The Changing Age Structure of Greater New Haven. DataHaven analysis (2016). 1990 and 2000 figures are from the U.S. Census Bureau Decennial Census SF3, Table P08, Sex by Age. 2014 figures are from U.S. Census Bureau American Community Survey 2014 5-year estimate, Table B01001, Sex by Age. Tables available at http://factfinder2.census.gov/. 2025 projections are from the Connecticut State Data Center at the University of Connecticut Libraries Map and Geographic Information Center (2012). 2015-2025 Population Projections for Connecticut at State, County, Regional Planning Organization, and Town levels November 1, 2012 edition. Retrieved from http://ctsdc.uconn.edu/2015_2025_projections/.
- 2.3. Race and Ethnicity in Greater New Haven. DataHaven analysis (2016). 2010 U.S. Census Bureau Decennial Census, Table P2, Hispanic or Latino, and Not Hispanic or Latino by Race, available at

http://factfinder2.census.gov/. Geographies are defined in the note for Figure 1.1. Please note that while the majority of the population-related data and text presented in this report is derived from 2014 U.S Census Bureau American Community Survey data, this chart uses 2010 Decennial Census data because of the need to present more detailed data by age and race/ethnicity.

- 2.4. Characteristics of Immigrants in Greater New Haven. DataHaven analysis (2016). 1990 population figures from U.S. Census Bureau Decennial Census, Table P021, Place of Birth by Citizenship Status. U.S. Census Bureau American Community Survey 2014 5-year estimate, Table B05007, Place of Birth by Year of Entry by Citizenship Status for the Foreign-Born Population; Table B06009, Place of Birth by Educational Attainment in the United States; Table B05013, Sex by Age for the Foreign-Born Population; Table B05006, Place of Birth for the Foreign-Born Population in the United States. Tables available at http://factfinder2.census.gov/.
- 2.5. The Changing Household Structure of Greater New Haven.
 DataHaven analysis (2016). 1990 and 2000 figures from U.S. Census
 Bureau Decennial Census, Table P015, Family Type by Presence of Own
 Children Under 18 Years of Age by Age of Own Children or equivalent
 SF1 dataset. 2014 figures from U.S. Census Bureau American
 Community Survey 2014 5-year estimate, Table B11003, Family Type
 by Presence and Age of Own Children Under 18 Years. Tables available
 at http://factfinder2.census.gov/.
- 2.6. Income and Income Inequality in Greater New Haven. DataHaven analysis (2016). U.S. Census Bureau American Community Survey 2014 5-year estimate, Table B19080, Household Income Quintile Upper Limits and Table B19013, Median Household Income in the Past 12 Months (in 2014 Inflation-Adjusted Dollars), available at http://factfinder2.census.gov/. Differences shown are the 20th and 80th percentiles of household income for each town. For privacy, the Census suppresses data for very high incomes at the town level; as such, some towns' top incomes are only available as "\$250,000+."
- 2.7. Growing Neighborhood Income Inequality in Greater New Haven. DataHaven analysis (2016) of household income and population data by Census Tract. Due to changes in Census Tract boundaries over time, in order to allow comparability to current Census Tract data, the 1980, 1990, and 2000 figures from U.S. Census Bureau Decennial Census are provided by Neighborhood Change Database (NCDB) created by GeoLytics and the Urban Institute with support from the Rockefeller Foundation (2012), a dataset that is designed to hold neighborhoodlevel geographic boundaries constant over time, 2014 figures from U.S. Census Bureau American Community Survey 2014 5-year estimate, Tables B01003 Total Population, B17001 Poverty Status in Past 12 Months by Age, B11012 Household Type by Tenure, B19127 Aggregate Income in Past 12 Months for Families (in 2014 Inflation-Adjusted Dollars), available at http://factfinder2.census.gov/. Neighborhood income categories determined by comparing average family income by census tract to the state average family income, using ratios described in table. The percent of total population living in each neighborhood income category is compared across decades to illustrate change in neighborhood inequality.
- 2.8. The Low-Income Population in Greater New Haven. DataHaven analysis (2016). 2000 figures are from U.S. Census Bureau, Ratio of Income in 1999 to Poverty Level. 2014 figures are from U.S. Census Bureau American Community Survey 2014 5-year estimate, Table B17024, Age by Ratio of Income to Poverty Level in the Past 12 Months. Tables available at http://factfinder2.census.gov/. As described in the report text, "low-income" is defined here as individuals having an annual household income less than two times (200 percent of) the federal poverty level.
- 2.9. Housing Cost Burden in Greater New Haven. DataHaven analysis (2016) of data from U.S. Census Bureau American Community Survey 1-year estimates. Table B25070, Gross Rent as a Percentage of Household Income in the Past 12 Months; Table B25091, Mortgage Status by Selected Monthly Owner Costs as a Percentage of Household Income in the Past 12 Months, available at http://factfinder2.census.gov/. Households are considered cost-burdened when their monthly housing costs exceed 30 percent of their total income, and severely cost-burdened when this cost exceeds 50 percent of their total income.
- 2.10. Characteristics of Greater New Haven Households. DataHaven analysis (2016). 2014 figures from U.S. Census Bureau American Community Survey 2014 5-year estimates. Table B25070, Gross Rent as

a Percentage of Household Income in the Past 12 Months; Table B25091, Mortgage Status by Selected Monthly Owner Costs as a Percentage of Household Income in the Past 12 Months, available at http://factfinder2.census.gov/. Households are considered severely cost-burdened when their monthly housing costs exceed 50 percent of their total income.

CHAPTER 3. A HEALTHY REGION

- 3.1. Greater New Haven Health Trends. DataHaven analysis (2016) of a variety of sources. For life expectancy data, online data from Institute for Health Metrics and Evaluation at the University of Washington (2015), Released April 2015 and accessed June 1, 2016 at http://vizhub. <u>healthdata.org/us-health-map/</u> for New Haven County, Connecticut, and United States. For low birth weight, Connecticut Department of Public Health Vital Statistics records from 2003 to 2013, with a 3 year centered moving average developed for each point in time shown (see note for Figure 3.3); data are presented for the city of New Haven, Connecticut, and the 13-town Greater New Haven region used throughout this report. For obesity and smoking, DataHaven analysis (2016) of data compiled from 2015 DataHaven Community Wellbeing Survey (available at http://www.ctdatahaven.org/reports/datahaven-<u>community-wellbeing-survey</u>), 2007 Connecticut Health Foundation Health Data Scan (available at https://www.cthealth.org/wp-content/ uploads/2011/04/health-data-scan-report.pdf), and 2011 American Lung Association Trends in Tobacco Use report (available at http://www. lung.org/assets/documents/research/tobacco-trend-report.pdf). Data are presented for the city of New Haven, Connecticut, and for a grouping of the state's wealthiest towns. For insurance coverage rates, 2012 and 2015 DataHaven Community Wellbeing Survey data for adults age 18 and older are used for all geographies, except the 2012 Connecticut statewide rate, which is estimated by DataHaven based on American Community Survey 1-year estimates and other data in order to match likely rates during the short timeframe during which the 2012 regional survey was conducted (Fall 2012). Data presented for the five major geographies used throughout this report including the 13-town Greater New Haven region. For age-adjusted mortality rates from heart disease. Connecticut Department of Public Health Mortality Tables, available at http://www.ct.gov/dph/cwp/view.asp?a=3132&q=521462.
- 3.2. Well-Being and Chronic Disease Risk Factors. Data Haven analysis (2016) of questions from 2015 DataHaven Community Wellbeing Survey. Using a standard list of questions designed by a panel of local, statewide, and national experts based on major national surveys. randomly-selected adult participants were asked to rate their overall health; report recent levels of depression and anxiety; and report whether they had even been told by a doctor or medical professional that they had diabetes or asthma. Participants reported their height and weight, from which their body mass index (BMI) was calculated: obesity in adults is defined as a BMI of 30 or higher. For food insecurity, participants were asked whether there had been times in the past 12 months that they did not have enough money to provide food for their families. Smoking rates were calculated based on the number of participants who estimated having smoked at least 100 cigarettes in their entire lives; those who said they had were then asked whether they smoked every day, some days, or not at all. Smoking prevalence for the entire population was then extrapolated from these two figures. Participants were asked to self-report whether they currently have health insurance, and whether they had seen a dentist in the past 12months. All reported estimates from the survey are weighted in order to accurately represent the underlying adult population within each state, region, town, or neighborhood. More information on this landmark, statewide, regional, and neighborhood-level survey is available elsewhere in the report or at http://www.ctdatahaven.org/reports/ datahaven-community-wellbeing-survey.
- 3.3. Infant Health Indicators. DataHaven analysis (2016) of data from Connecticut Department of Public Health Vital Statistics, available at http://www.ct.gov/dph/cwp/view.asp?a=3132&q=394598. Low and very low birth weights are defined as 2,500 grams (5.5 pounds) and 1,500 grams (3.3 pounds), respectively. Fetal mortality is defined as babies that were stillborn or otherwise not viable after 20 weeks gestation. Infant mortality is defined as children who died at less than 1 year of age. All figures are averaged over the period from 2008 to 2013 and reported as an annualized 6-year average.

- 3.4. Leading Causes of Death. Data from Connecticut Department of Public Health, available at http://www.ct.gov/dph/cwp/view. asp?a=3132&q=521462. Crude mortality rates give the number of deaths divided by the number of residents, without accounting for effects of age. Number of deaths, crude mortality rate (CMR), ageadjusted mortality rate (AAMR) and statistical significance between time periods by cause of death were created using the 2008-2012 and 2003-2007 mortality data reported for each CT town, county and the state. The 2008-2012 AAMR for each cause by town was compared to the CT statewide AAMR to identify statistically significant differences using the Standard Error of the AAMR for each town provided in the tables along with the town, county or state population from the 2010 Decennial Census (http://www.ct.gov/dph/cwp/view.asp?a=3132&q=488832) to calculate the standard deviation. For each reference area, z scores were calculated using the standard deviation, 2010 total population, and the difference between the town AAMR and reference AAMR. p values were calculated from these z scores. Statistical differences shown as "likely higher/lower" are calculated at a 90% confidence level, and those shown as "higher/lower" are calculated at a 95% confidence level. When neither difference is indicated, figures are not significantly different from those of the state. According to Mortality Technical Notes at the Connecticut Department of Public Health (http://www.ct.gov/dph/cwp/ view.asp?a=3132&q=397434), "age-adjusted mortality rates are rates where the effect of differing age distributions between the groups has been removed. They are used to compare the relative mortality risk across two or more population groups at the same point in time or to compare one population at two or more points in time. Since the effect of age has been removed, these rates are called "age-adjusted" rates. This is a key difference between crude and age-adjusted rates. More specifically, the adjusted rate estimates "what the crude rate would have been in the study population if that population had the same distribution as the standard population with respect to the variable(s) for which the adjustment or standardization was carried out" (Last, 1988). Age-adjusted rates are computed by the direct method by applying age-specific rates in a population of interest to a standardized age distribution, in order to eliminate differences in observed rates that result from age differences in population composition. Age-adjusted rates presented in the CT DPH Mortality tables are consistent with the methods used by the National Center for Health Statistics/Centers for Disease Control in their tabulation of U.S. rates." AAMRs are calculated for towns and counties, but were not available for groupings of towns or neighborhoods.
- 3.5. Causes of Premature Death. Data from Connecticut Department of Public Health, available at http://www.ct.gov/dph/cwp/view. asp?a=3132&q=521462. For Years of Potential Life Lost (YPLL), we created annualized YPLL rates (or "Premature Death Rates") by cause using the 2008-2012 dataset at the individual town level; geographies presented here include the state, 13-town Greater New Haven region, and selected individual towns. Data represent annualized averages over that five year period of time. We calculated the YPLL rate as the sum of the YPLL divided by (the total population under 75 years old*5)*100,000. The average YPLL under 75 years of age, or "Years Lost Per Death," was calculated by taking the sum of the YPLL divided by the number of deaths under 75 years of age. For YPLL due to fetal/infant deaths (summed fetal deaths plus infant deaths), we used annualized CTDPH data for 2008-2013 (see note for Figure 3.3) and used an average age at death of 0.5 years, hence the average YPLL of 74.5 years per death computed for these deaths as the basis of the comparison to standard
- 3.6. Heart Disease, Hospital Inpatient Encounters, and General Notes on Analysis of Hospital Data (CHIME data). DataHaven analysis (2016) of 2012-2014 CHIME data provided by Connecticut Hospital Association upon request from and special study agreement with partner hospitals and DataHaven. The CHIME hospital encounter data extraction included de-identified information for each of 3,069,680 Connecticut hospital encounters incurred by any residents of 47 towns in CT and 15 towns in NY encompassing the service areas of several Connecticut hospitals $% \left(1\right) =\left(1\right) \left(1$ (Bridgeport Hospital, Danbury Hospital, Greenwich Hospital, Milford Hospital, Norwalk Hospital, St. Vincent's Medical Center, Stamford Hospital, and Yale New Haven Hospital) as well as the towns of Waterbury and Hartford for use as comparisons. Any encounter incurred by any resident of these towns at any Connecticut hospital would be included in this dataset, regardless of where they received treatment. In order to develop statewide geographic benchmark comparisons within the CHIME data that could be used to provide context to

any of the figures in the report that relied on CHIME data, the nine wealthiest towns in Connecticut based on household income (Darien, Easton, Greenwich, New Canaan, Ridgefield, Weston, Westport, Wilton, Woodbridge) were grouped together into a "9 Wealthiest CT Towns" figure and compared to the four largest urban centers (Bridgeport, New Haven, Hartford, and Waterbury) grouped together into a "4 Largest City Centers" or "4 Largest CT Urban Core Towns" figure. In all CHIME data-based maps. Amity-Westville is represented by zip code 06515 and Hill is represented by zip code 06519. Each encounter observation had a unique encounter ID number and was populated with one or more "indicator flags" representing a variety of conditions. Each encounter could include multiple indicator flags. Because CHIME is Connecticut-based, only hospital encounters occurring in CT were captured; therefore, encounters for individuals residing in CT towns bordering other states are more likely undercounted in some cases. Annualized encounter rates were calculated as described below for the indicator flags assigned within the dataset including Asthma, Diabetes Uncontrolled, Heart Disease, Hypertension, Lung cancer, Stroke, Depressive Disorder, Accidental Poisoning, COPD, Preventable dental conditions, Falls, Homicide and Purposely Inflicted Injury (including assault), Substance Abuse, and other conditions. Most analyses in this document describe data on all hospital encounters including inpatient, emergency department, and observation encounters, but some of the analyses that we present in the document look only at inpatient encounters or only at emergency department encounters in order to describe the distribution of conditions that are considered to be of higher severity (in the case of inpatient hospitalization) or more general concern (in the case of emergency department use for preventable conditions). The annualized encounter rates per 10,000 persons were calculated for the 3-year period 2012-2014 by zip code, town, area, region, and in aggregate by merging the CHIME data with 2010 Decennial Census data by zip code, town, race, and age. For each town, our analysis included an annualized encounter rate for white non-Hispanic, total black, and total Hispanic populations in each of six age strata (0-19 years, 20-44 years, 45-64 years, 65-74 years 75-84 years and 85+ years), as well as a single age and race adjusted annualized encounter rate for each region. Additionally, an overall age-adjusted encounter rate by cause was calculated for each zip code, town, area/region and aggregate. Analyses were adjusted for age by using the 2010 Census population data for all towns that were represented in the CHIME data, in order to remove the effect of age from the reported rates (see note for Figure 3.4 for additional rationale for using age-adjusted rates). To explore neighborhood differences in hospital encounter rates, the CHIME data was merged with 2010 census data by zip code and annualized encounter rates per 10,000 persons were calculated for each indicator flag by sex within age strata for each zip code. In addition, a single age-adjusted annualized encounter rate per 10,000 was calculated for each zip code. To enable comparison, rolled up regional encounter rates were calculated by sex within each age stratum for regions and sub-regions. Several limitations regarding this analysis deserve mention. First, it is important to note that there is no way to discern the unique number of individuals in a zip, town, area or region who experienced hospital encounters during the period under examination or the number of encounters that represented repeat encounters by the same individual for the same or different conditions. Second, the CHIME encounter dataset provides 3 diagnosis codes for each encounter. However, the indicator flags clearly use more than 3 diagnosis fields. For example, of all asthma encounters (defined using the indicator flag for Asthma), only 25% have a primary diagnosis of asthma and only 60% have an asthma diagnosis in any of the 3 diagnostic fields provided for analysis. Consequently, there may be discrepancies when comparing the annualized CHIME encounter rates to rates calculated from DPH surveillance data, which use only the primary diagnosis field to identify an asthma hospitalization. Third, the CHIME hospital encounter data may misclassify those who are ethnically Hispanic, as race is captured based on patient observation and race and ethnicity were not separately reported. Each encounter was assigned a single Race/ethnicity category with White, Black, Hispanic captured as follows: White, Black or African American, Hispanic/Latino/Spanish Origin. Consequently, an ethically Hispanic individual may be categorized as white or black. Conversely, the 2010 census data captures race and ethnicity separately. In an attempt to create appropriate denominators for the race stratified analyses, we extracted the following census population statistics: white non-Hispanic, all black, and all Hispanic. Because of these differences in the ways race/ethnicity were captured in the CHIME data versus the 2010

census data, the race adjusted annualized encounter rates should be interpreted with significant caution, and for that reason we generally do not report them within this document even though they were important considerations in our broader view of regional health disparities. Last, the encounter rate by zip code analysis includes only those zip codes for which corresponding census data existed (based on zip code tabulation areas); zip codes representing P.O boxes were excluded and zip code-based data are typically subject to other limitations due to the manner in which zip codes and zip code tabulation areas are defined or reported. To better examine encounter rates for childhood asthma, the age-strata used to calculate asthma encounter rates differed from age groupings used for the other disease encounter types (0-4 years. 5-19 years, 20-44 years, 45-64 years, 65-74 years and 75+ years). Please contact DataHaven or CHIME data for additional detail on diagnosis codes used to develop the indicator flags, if not provided in the figure note. Data in this particular map and table (Figure 3.6) include ageadjusted and age-specific rates only for inpatient hospital encounters for heart disease (Circulatory Diseases); inpatient encounters for this diagnosis are generally considered to be for severe conditions, and do not include emergency department or other hospital encounters.

- 3.7. Nutrition, Obesity, and Diabetes. DataHaven analysis (2016) of questions from 2015 DataHaven Community Wellbeing Survey. Participants were asked to report whether they had even been told by a doctor or medical professional that they had diabetes. Participants reported their height and weight, from which their body mass index (BMI) was calculated; obesity in adults is defined as a BMI of 30 or higher. For food insecurity, participants were asked whether there had been times in the past 12 months that they did not have enough money to provide food for their families. Data are disaggregated by self-reported race and ethnicity (white non-Hispanic, black non-Hispanic, and Hispanic of any race), age group, and household income. See note for Figure 3.2 for additional detail.
- 3.8. Diabetes, All Hospital Encounters. DataHaven analysis (2016) of 2012-2014 CHIME data provided by Connecticut Hospital Association upon request from and special study agreement with partner hospitals and DataHaven; see note for Figure 3.6 for detailed description of the analyses shown here. Data in this particular table include age-adjusted and age-specific rates for any hospital encounters with Type 2 diabetes as an indicator flag (Principal or Secondary ICD-9 Diagnosis Codes 25000, 25002, 25010, 25012, 25020, 25022, 25030, 25032, 25040, 25042, 25050, 25052, 25060, 25062, 25070, 25072, 25080, 25082, 25090, 25092). Table also presents hospital encounters for conditions that are often considered to be of higher severity: diabetes-related amputation (lower-extremity amputation due to diabetes among patients with diabetes indicator, or PQI 16; please contact DataHaven or CHIME data for additional detail on this more complex diagnosis), and uncontrolled diabetes (Principal or Secondary ICD-9 Diagnosis Codes 25002, 25003).
- 3.9. Injury Mortality by Type. Data from Connecticut Department of Public Health, available at http://www.ct.gov/dph/cwp/view.asp?a=3132&q=521462. See note for Figure 3.4 for additional detail on age-adjusted mortality rates (AAMR).
- 3.10. Homicide/Purposeful Injury, All Hospital Encounters. DataHaven analysis (2016) of 2012-2014 CHIME data provided by Connecticut Hospital Association upon request from and special study agreement with partner hospitals and DataHaven; see note for Figure 3.6 for detailed description of the analyses shown here. Data in this particular table include age-adjusted and age-specific rates for any hospital encounters with "Accident/Injury-Homicide and Purposely Inflicted" as an indicator flag (Principal or Secondary ICD-9 Diagnosis Codes E9600, E9601, E961, E9620, E9621, E9622, E9629, E963, E964, E9650, E9651, E9652, E9653, E9654, E9655, E9656, E9657, E9658, E9659, E966, E9670, E9671, E9672, E9673, E9674, E9675, E9676, E9677, E9678, E9679, E9680, E9681, E9682, E9683, E9684, E9685, E9686, E9687, E9688, E9689, E969), which generally includes intentional assaults or other instances of community or domestic violence. "Suicide and Self-Inflicted" is a completely separate indicator flag in the database and does not overlap at all with this indicator. Table also presents inpatient encounters for "high severity conditions," which in this case are defined simply as inpatient encounters because of our view that assaults that require a hospitalization are more likely to involve issues such as firearminflicted or life-threatening injuries. In general, the majority of all encounters for this indicator are emergency department encounters; any hospital encounters due to intentional injury and assault, even those resulting in relatively minor injuries, could be considered a

potential indicator of safety and is worth exploring in greater detail in future iterations of this report.

- 3.11. Childhood Asthma, All Hospital Encounters. DataHaven analysis (2016) of 2012-2014 CHIME data provided by Connecticut Hospital Association upon request from and special study agreement with partner hospitals and DataHaven; see note for Figure 3.6 for detailed description of the analyses shown here. Data in this particular map include age-specific rates among residents age 0-4 for any hospital encounters with "Asthma" as an indicator flag (Principal or Secondary ICD-9 Diagnosis Codes 49300, 49301, 49302, 49310, 49311, 49312, 49320, 49321, 49322, 49381, 49382, 49390, 49391, 49392).
- 3.12. Selected Infectious Diseases. DataHaven analysis (2016) of data obtained directly from Connecticut Department of Public Health in April 2016, including the HIV and Hepatitis Surveillance, Tuberculosis Control, Sexually Transmitted Diseases Control, and Epidemiology and Emerging Infections Lyme Disease Surveillance programs.
- 3.13. Chronic Obstructive Pulmonary Disease (COPD). DataHaven analysis (2016) of 2012-2014 CHIME data provided by Connecticut Hospital Association upon request from and special study agreement with partner hospitals and DataHaven; see note for Figure 3.6 for detailed description of the analyses shown here. Data in this particular table include age-adjusted and age-specific rates for inpatient hospital encounters with "Chronic Obstructive Pulmonary Disease" (COPD) as an indicator flag (Principal or Secondary ICD-9 Diagnosis Codes 4910, 4911, 4912, 49120, 49121, 4918, 4919, 4920, 4928, 494, 4940, 4941, 496). Although COPD is a health outcome rather than a mental health or substance abuse issue, it is included within this section of the report because of its relationship to smoking.
- 3.14. Substance Abuse, All Hospital Encounters. DataHaven analysis (2016) of 2012-2014 CHIME data provided by Connecticut Hospital Association upon request from and special study agreement with partner hospitals and DataHaven; see note for Figure 3.6 for detailed description of the analyses shown here. Data in this particular table include age-adjusted rates for all hospital encounters with "Substance-Related Disorders" as an indicator flag (Principal or Secondary ICD-9 Diagnosis Codes 2920, 29211, 29212, 2922, 29281, 29282, 29283, 29284, 29289, 2929, 30400, 30401, 30402, 30403, 30410, 30411, 30412, 30413, 30420, 30421, 30422, 30423, 30430, 30431, 30432, 30433, 30440, 30441,30442, 30443, 30450, 30451, 30452, 30453, 30460, 30461, 30462, 30463, 30470, 30471, 30472, 30473, 30480, 30481, 30482, 30483, 30490, 30491, 30492, 30493, 30510, 30511, 30512, 30513, 30520, 30521, 30522, 30523,30530, 30531, 30532, 30533, 30540, 30541, 30542, 30543, 30550, 30551, 30552, 30553, 30560, 30561, 30562, 30563, 30570, 30571, 30572, 30573, 30580, 30581, 30582, 30583, 30590, 30591, 30592, 30593, 64830, 64831, 64832, 64833, 64834, 65550, 65551, 65553, 76072, 76073, 76075, 7795,96500, 96501, 96502, 96509, V6542). These codes generally relate only to drug use and abuse, not alcohol use. In many cases, encounters flagged for substance abuse are also flagged for various mental healthrelated disorders.

3.15. Preventable Dental Conditions, Hospital ED Encounters. DataHaven analysis (2016) of 2012-2014 CHIME data provided

- DataHaven analysis (2016) of 2012-2014 CHIME data provided by Connecticut Hospital Association upon request from and special study agreement with partner hospitals and DataHaven; see note for Figure 3.6 for detailed description of the analyses shown here. Data in this particular map and table include age-adjusted and age-specific rates for emergency department hospital encounters with "Preventable Dental Conditions" as an indicator flag (Principal or Secondary ICD-9 Diagnosis Codes 521xx, 522xx, 523xx, 525xx, 528xx). Data are an indication that many residents, particularly younger or lower-income adults, may seek dental care at hospital emergency rooms for various reasons or may lack access to the preventive dental care that could allow them to avoid going to the hospital emergency room.
- 3.16. Health Care Access. DataHaven analysis (2016) of questions from 2015 DataHaven Community Wellbeing Survey. Participants were asked to report whether they had health insurance, had had a dental visit during the past 12 months, and could not afford prescription medicine during the past 12 months. Additionally, participants were asked two questions about whether they postponed or did not get the medical care that they thought they needed at any point during the past 12 months; the indicator shown here indicates the population-weighted percentage of adults in the region who answered yes to either question were also asked a series of follow-up questions that are discussed in the text.

Data are disaggregated by self-reported race and ethnicity (white non-Hispanic, black non-Hispanic, and Hispanic of any race), age group, and household income. See note for Figure 3.2 for additional detail.

CHAPTER 4. A REGION OF OPPORTUNITY

- 4.1. Working Parents, 2000–2014. DataHaven analysis (2016). 2000 figures from U.S. Census Bureau Decennial Census, Table P046, Age of Own Children Under 18 Years in Families and Subfamilies by Living Arrangements by Employment Status of Parents. 2014 figures from U.S. Census Bureau American Community Survey 2014 5-year estimate, Table B23008, Age of Own Children Under 18 Years in Families and Subfamilies by Living Arrangements by Employment Status of Parents. Both available at http://factfinder2.census.gov/. See note for Figure 1.1 for additional detail on geographical areas included.
- 4.2. Availability of Childcare and Education in Greater New Haven, 2014. DataHaven analysis (2016) of data from 2-1-1 Annual Child Care Capacity, Availability, and Enrollment Survey 2014, report by Connecticut 2-1-1 Childcare, available at http://www.211childcare.org/reports/ and U.S. Census Bureau American Community Survey 2014 5-Year estimate, Table B01001, Sex by Age available at http://factfinder2.census.gov/. Note that childcare provider slot capacity is calculated as enrolled slots plus vacant slots.
- 4.3. Affordability of Childcare for Families. DataHaven analysis (2016) of 2012 data from 2-1-1 Childcare Availability Affordability 2013 report, by Connecticut 2-1-1 Childcare, available at http://www.211childcare.org/reports/. Note that average child care costs are calculated using average family income from the U.S. Census Bureau American Community Survey 2012 5-year estimate, Table B19113, Median Family Income in the past 12 months (in 2012 inflation-adjusted dollars), available at http://factfinder2.census.gov
- 4.4. Availability of Childcare and Education Subsidies in Greater New Haven, 2014. DataHaven analysis (2016) of data from 2-1-1 Annual Child Care Capacity, Availability, and Enrollment Survey 2014, report by Connecticut 2-1-1 Childcare, available at http://www.211childcare.org/reports/; Department of Education data on subsidized childcare and education programs, provided to DataHaven for the purposes of this report; and U.S. Census Bureau American Community Survey 2014 5-Year estimate, Table B01001, Sex by Age, and Table B17024, Age by Ratio of Income to Poverty Over Past 12 Months, available at http://factfinder2.census.gov/. Note that childcare provider slot capacity is calculated as enrolled slots plus vacant slots, and that the population of children ages 0-4 from low-income households is estimated at 83 percent of the population of children ages 0-5 from low-income households.
- 4.5. Preschool Enrollment in Greater New Haven, 2014. DataHaven analysis (2016). U.S. Census Bureau American Community Survey 2014 5-year estimate, Table B14003, Sex by School Enrollment by Type of School by Age for the Population 3 Years and Over, available at http://factfinder2.census.gov/. See note for Figure 1.1 for additional detail on geographical areas included including neighborhood statistical areas listed in map within New Haven.
- 4.6. Race and Ethnicity of Greater New Haven Students, 2014–2015. DataHaven analysis (2016) of 2014-15 school year data from the Connecticut State Department of Education. See note for Figure 1.1 for additional detail on geographical areas included.
- 4.7. **High-Needs Students.** DataHaven analysis (2016) of 2014-15 school year data from the Connecticut State Department of Education. See note for Figure 1.1 for additional detail on geographical areas included.
- 4.8. Academic Achievement in Greater New Haven Schools. DataHaven analysis (2016) of data from Connecticut State Department of Education. The Smarter Balance Assessment Consortium (SBAC) standardized test is the Common Core-aligned test first taken by Connecticut students in 2015. Passing scores on English/language arts (ELA) and math are those rated proficient or advanced in that subject, and students scoring at these levels are considered on track for college and career readiness. Previous standardized testing used different rubrics to determine passing; therefore, SBAC scores should not be compared with previous testing years. Graduation rates presented are four-year cohort graduation rates, giving the percentage of students

- who earn a high school diploma alongside the cohort with which they started 9th grade. This rate is adjusted to account for transfers in and out of each district. Chronic absenteeism is defined as a student missing at least 10 percent of the days for which they are enrolled in a year for any reason. See note for Figure 1.1 for additional detail on geographical areas included.
- 4.9. The Opportunity Gap Impacts Achievement at Greater New Haven Schools. DataHaven analysis (2016) of data from Connecticut State Department of Education. The Smarter Balance Assessment Consortium (SBAC) standardized test is the Common Core-aligned test first taken by Connecticut students in 2015. Passing scores on English/language arts (ELA) and math are those rated proficient or advanced in that subject, and students scoring at these levels are considered on track for college and career readiness. Previous standardized testing used different rubrics to determine passing; therefore, SBAC scores should not be compared with previous testing years. Graduation rates presented are four-year cohort graduation rates, giving the percentage of students who earn a high school diploma alongside the cohort with which they started 9th grade. This rate is adjusted to account for transfers in and out of each district. Chronic absenteeism is defined as a student missing at least 10 percent of the days for which they are enrolled in a year for any reason. See note for Figure 1.1 for additional detail on geographical areas included.
- 4.10. **Higher Education of Greater New Haven Students.** DataHaven analysis (2016) of data from Connecticut State Department of Education. Enrollment rates are defined as the percentage of students from a given graduating class who enroll in college within 1 year of graduation. Persistence rates are defined as the percentage of students who, after enrolling in college within 1 year of high school, continue into a second, consecutive year of college. Attainment rates are the percentage of students who earn a two- or four-year degree within 6 years of graduating high school, out of the entire high school graduating class. See note for Figure 1.1 for additional detail on geographical areas included.
- 4.11. Opportunity Youth in Greater New Haven, 2014. DataHaven analysis (2016). U.S. Census Bureau American Community Survey 2014 5-year estimate, Table B14005, Sex by School Enrollment by Educational Attainment by Employment Status for the Population 16 to 19 Years, available at http://factfinder2.census.gov/. Opportunity youth (sometimes referred to as "disconnected youth") are youth ages 16 to 19 who are neither working nor currently enrolled in school. See note for Figure 1.1 for additional detail on geographical areas included including neighborhood statistical areas listed in map within New Haven.
- 4.12. Opportunities for Young People in Greater New Haven. DataHaven analysis (2016). U.S. Census Bureau American Community Survey 2014 5-year estimate, Table B14005, Sex by School Enrollment by Educational Attainment by Employment Status for the Population 16 to 19 Years, available at http://factfinder2.census.gov/. Opportunity youth (sometimes referred to as "disconnected youth") are youth ages 16 to 19 who are neither working nor currently enrolled in school. Unemployment ages 16-24 data from the Bureau of Labor Statistics, available at http://www.bls.gov/web/empsit/cpseea10.htm. Other data are population-weighted estimates that come from the 2015 DataHaven Community Wellbeing Survey's in-depth interviews of randomly-selected adults age 18-24 in the region. Underemployment is defined as people who are unemployed, plus those who are working part-time but want to be working full-time.
- 4.13. Financial Security and Underemployment. DataHaven analysis (2016) of 2015 DataHaven Community Wellbeing Survey. The Financial Security Index was developed by DataHaven to summarize responses to several survey questions for the sake of comparison. These questions included access to transportation, health insurance and access to health care, inability to obtain basic needs like food and shelter. and overall assessment of participants' financial situations. After calculating the index for a large sample of zip codes from around the state, scores were ranked. Several demographic groups, shown on the left, were ranked as though they were their own zip codes. As can be seen, if white working Greater New Haven residents were their own zip code, their Financial Security Index would rank fairly high compared to zip codes around the state, while scores of Black and Latino working residents lag behind. For all groups, underemployed Greater New Haven residents rank near the bottom of the entire state, with very low scores for underemployed Black and Latino residents. Responses by race/ ethnicity and employment status for three specific questions related

- to financial security are also shown; these represent the percent of all adults age 18+ within each category who answered affirmatively to the selected question.
- 4.14. Movement of Low-Income Workers (Salary < \$40,000). DataHaven analysis (2016) to calculate the numbers of workers moving between pairs of towns in Greater New Haven. U.S. Census Bureau Longitudinal Employer-Household Dynamics Origin-Destination Employment Statistics, available at http://lehd.ces.census.gov/data/.
- 4.15. Movement of High-Income Workers (Salary > \$40,000). DataHaven analysis (2016) to calculate the numbers of workers moving between pairs of towns in Greater New Haven. U.S. Census Bureau Longitudinal Employer-Household Dynamics Origin-Destination Employment Statistics, available at http://lehd.ces.census.gov/data/.
- 4.16. Jobs and Wage Trends by Sector, 2000-2014. DataHaven analysis (2016) of U.S. Census Bureau Quarterly Workforce Indicators, available at http://qwiexplorer.ces.census.gov/, and U.S. Census Bureau Longitudinal Employer-Household Dynamics Origin-Destination Employment Statistics, available at http://lehd.ces.census.gov/data/. Average wages are given, and are calculated here as means of total annual wages over annual average employment by sector. 2000 wages are adjusted for inflation in order to accurately calculate changes in average wages over time. The chart shows that average wages in Educational Services and Finance grew fairly substantially, while average wages in retail trade dropped. Industries are categorized based on the North American Industry Classification System; those shown are sectors in which there were at least 10,000 workers in the region in 2014. Curves for job trends are adjusted to smooth out fluctuations over time. Data shown is for all of New Haven County, as this is the geographical area for which figures are available.
- 4.17. Changing Industry Footprints. DataHaven analysis (2016) of U.S. Census Bureau Quarterly Workforce Indicators, available at http://qwiexplorer.ces.census.gov/. Each share is given as that sector's payroll within New Haven County divided by the county's total payroll across all sectors. This includes the sectors with fewer than 10,000 workers that were eliminated for Figure 4.15.
- 4.18. Educational Attainment. U.S. Census Bureau American Community Survey 2014 5-year estimate, Table B06009, Place of Birth by Educational Attainment in the United States, available at http://factfinder2.census.gov/. On the map, the percent of all adults age 25+ with a Bachelor's Degree or higher, as well as the number of such adults with degrees, are given for regions as well as neighborhood areas and towns. See note for Figure 1.1 for additional detail on geographical areas included including neighborhood statistical areas listed in map within New Haven.
- 4.19. Municipal Financial Capacity in Greater New Haven. DataHaven analysis (2016) of data available from the New England Public Policy Center, available at https://www.bostonfed.org/publications/new-england-public-policy-center-research-report/2015/measuring-municipal-fiscal-disparities-in-connecticut.aspx. Municipal capacity refers to the amount of money from tax revenue available to a municipality. The first column shows tax capacity per capita, or the amount of revenue available per resident for each town. The second column shows the amount of money per person needed to cover that town's estimated public expenses. The third column shows the amount of surplus available per person, or the money needed subtracted from the money available. Figures are shown in green for a surplus and red for a deficit.
- 4.20. Perceived Access and Use of Community Resources. DataHaven analysis (2016) of questions from the 2015 DataHaven Community Wellbeing Survey. The indicators shown here indicate the percentage of adults in each area who answered affirmatively to the questions shown; survey respondents are weighted to be representative of the population within each area. Data are disaggregated by geographic area, self-reported age group, and household income. See note for Figure 3.2 for additional detail.
- 4.21. Perceived Community Cohesion. DataHaven analysis (2016) of questions from the 2015 DataHaven Community Wellbeing Survey. The indicators shown here indicate the percentage of adults in each area who answered affirmatively to the questions shown; survey respondents are weighted to be representative of the population within each area. Data are disaggregated by geographic area, self-reported age group, and household income. See note for Figure 3.2 for additional detail.

- 4.22. Voter Turnout in Greater New Haven. DataHaven analysis (2016) of voter turnout data from the Connecticut Secretary of the State, available at http://www.ct.gov/sots/cwp/view.asp?q=401492. Voter turnout is defined as the percentage of officially registered voters who are checked as having voted. This includes overseas ballots but does not include absentee voters. Note that the years in which presidential, midterm, and local elections are held differ. Participants in the 2015 DataHaven Community Wellbeing Survey also answered a question regarding their registration to vote.
- 4.23. Civic Engagement and Government. DataHaven analysis (2016) of questions from the 2015 DataHaven Community Wellbeing Survey. The indicators shown here indicate the percentage of adults in each area who answered affirmatively to the questions shown; survey respondents are weighted to be representative of the population within each area. Data are disaggregated by geographic area, self-reported age group, and household income. See note for Figure 3.2 for additional detail.

ENDNOTES

CHAPTER 1

- 1 Abraham, M. et al. (2013). Greater New Haven Community Index 2013. New Haven, CT: DataHaven. Available at http://www.ctdatahaven.org/.
- 2 Organisation for Economic Co-operation and Development (OECD). (2014). Report on the OECD framework for inclusive growth. Meeting of the OECD Council at Ministerial Level, Paris, 6-7 May 2014. Available at http://www.oecd.org/mcm/IG_MCM_ENG.pdf
- 3 Christakis, N. & Fowler J. (2007). The spread of obesity in a large social network over 32 years. New England Journal of Medicine 357:370-379. Available at http://www.nejm.org/doi/full/10.1056/NEJMsa066082
- 4 Ludwig, J., Sanbonmatsu, L., Gennetian, L., Adam, E., Duncan, G., Katz, L., ... McDade, T. (2011). Neighborhoods, Obesity, and Diabetes—A Randomized Social Experiment. New England Journal of Medicine 365:16, 1509-1519. Available at http://www.nejm.org/doi/full/10.1056/NEJMsa1103216.

CHAPTER 2

- 5 U.S. Census Bureau. (2015). American Community Survey 5-year estimates, Table B01003, Total Population. Available at http://factfinder.census.gov/.
- 6 U.S. Census Bureau. (2015). American Community Survey 5-year estimates, Table B01003, Total Population. Available at http://factfinder.census.gov/. See also Neighborhood Change Database. (2012). U.S. Census data by tract, 1970–2010.
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- 8 Ortman, J. et al. (2014). An Aging Nation: The Older Population in the United States. U.S. Census Bureau. Available at https://www.census.gov/prod/2014pubs/p25-1140.pdf
- U.S. Census Bureau. (2015). American Community Survey 5-year estimates, Table B01001, Sex by Age. Available at http://factfinder.census.gov/ See also Neighborhood Change Database. (2012). U.S. Census data by tract, 1970–2010.
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- 11 U.S. Census Bureau. (2015). American Community Survey 5-year estimates, Table B03002, Hispanic or Latino Origin by Race.

- Available at http://factfinder.census.gov/. See also Neighborhood Change Database. (2012). U.S. Census data by tract, 1970–2010.
- National Equity Atlas analysis of U.S. Census Bureau data. (2016). Contribution to Growth: People of Color, 2010–2040. Available at http://nationalequityatlas.org/indicators; and U.S. Census Bureau. (2015). American Community Survey 5-year estimates, Table B03002, Hispanic or Latino Origin by Race. Available at http://factfinder.census.gov/. See also Neighborhood Change Database. (2012). U.S. Census data by tract, 1970–2010.
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- 17 U.S. Census Bureau. (2015). American Community Survey 5-year estimates, Table B05001, Nativity and Citizenship Status in the United States. Available at http://factfinder.census.gov/
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DataHaven

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DataHaven is a non-profit organization with a 25-year history of public service to Greater New Haven and Connecticut. Its mission is to improve quality of life by collecting, sharing, and interpreting public data for effective decision making. DataHaven is a formal partner of the National Neighborhood Indicators Partnership of the Urban Institute in Washington, DC

Additional information related to this report is posted on our websites.

2016 Greater New Haven Region Yale New Haven Hospital and Milford Hospital Collaborative Community Health Needs Assessment and Implementation Plan

By the

Healthier Greater New Haven Partnership

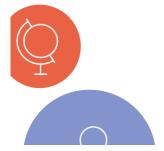


This document is a special chapter of the

Community Index 2016

Understanding Well-Being, Economic Opportunity, and Change in Greater New Haven Neighborhoods





A core program of DataHaven, in partnership with Community Foundation for Greater New Haven and a Community Health Needs Assessment for the towns served by **Yale New Haven Hospital and Milford Hospital**

ABOUT THIS REPORT

This document is a special chapter of the **Greater New Haven Community Index 2016**, a comprehensive report about Greater New Haven and the towns within it. The Community Index was produced by DataHaven in partnership with Community Foundation for Greater New Haven and many other regional partners, including the Healthier Greater New Haven Partnership, a coalition serving towns in the Greater New Haven Region. The Community Index serves as a Community Health Needs Assessment for Greater New Haven including the City of New Haven and the 12 towns comprising the inner and outer ring suburbs (East Haven, Hamden, West Haven, Bethany, Branford, Guilford, Madison, Milford, North Branford, North Haven, Orange, and Woodbridge). Topics covered in the Index include demographic change, housing, early childhood education, K-12 education, economic opportunity, leading public health indicators, and civic and community life.

This chapter provides additional local detail of relevance to the Greater New Haven Region, including data points on the 13 towns that in some cases would not fit within the main Community Index due to space limitations. It also documents the process that Healthier Greater New Haven Partnership used to conduct the regional health assessment and health improvement activities. You may find the full Community Index attached to this chapter, or posted on the DataHaven, Community Foundation for Greater New Haven, Yale New Haven Hospital, Milford Hospital, or any of the town health department or district websites. The Community Health Needs Assessment and Community Health Improvement Plan were approved by the Yale New Haven Hospital Board of Trustees in June 2016 and the Milford Hospital Board of Directors in September 2016.



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1. EXECUTIVE SUMMARY

INTRODUCTION

Understanding the current health status of the community is important in order to identify priorities for future planning and funding, the existing strengths and assets on which to build, and areas for further collaboration and coordination across organizations, institutions, and community groups. To this end, the Healthier Greater New Haven Partnership comprised of Yale New Haven Hospital, Milford Hospital, local departments of public health, federally qualified health centers, and numerous community and non-profit organizations serving the Greater New Haven Region as fully set forth in Appendix A – are leading a comprehensive regional Community Health Needs Assessment (CHNA) effort. This effort is comprised of two main elements:

- Assessment identifies health-related needs in the Greater New Haven area using primary and secondary data.
- Implementation Plan determines and prioritizes the significant health need of the community identified through the CHNA, overarching goals, and specific strategies to implement across the service area resulting in a Community Health Improvement Plan (CHIP).

This report details the findings of the Community Health Needs Assessment conducted from March 2015 – June 2016. During this process, the following goals were achieved: Examined the current health status of the Greater New Haven region and compared rates to state indicators and goals; explored current health priorities among residents and key stakeholders; and, identified community strengths, resources, and gaps in order to assist the Coalitions and community partners in establishing implementation strategies, programming, and top health priorities.

METHODS

The Healthier Greater New Haven Partnership adopted the Association for Community Health Improvement's (ACHI) Community Health Assessment Framework to guide the CHNA and to ensure that it meets the needs of the hospitals' Internal Revenue Service requirements and those of the local health departments pursuing voluntary accreditation through the Public Health Accreditation Board. Specifically, the Community Health Needs Assessment defines health in the broadest sense and recognizes that numerous factors at multiple levels impact a community's health – from lifestyle behaviors to clinical care to social and economic factors to the physical environment. These larger social determinants of health framework guided the overarching process.

DATA COLLECTION METHODS

Quantitative and qualitative data were collected and reviewed throughout the CHNA process. Secondary data sources included, but are not limited to, the U.S. Census, U.S. Bureau of Labor Statistics, Centers for Disease Control and Prevention, State of Connecticut Department of Public Health, Connecticut Health Information Management Exchange (CHIME), as well as local organizations and agencies. Types of data included vital statistics based on birth and death records. In addition, the Partnership consulted with DataHaven and in part sponsored the 2015 DataHaven Community Wellbeing Survey, as well as with the Community Alliance for Research and Engagement at the Yale School of Public Health and provided matching funds to sponsor the 2015 New Haven Health Survey, hired Chanana Consulting to conduct focus groups in the Greater New Haven Region and worked with a student practicum team from the Yale School of Public Health with technical assistance from DataHaven to conduct and later analyze Key Informant Surveys.

KEY FINDINGS

The following section provides a brief overview of the key findings from the community health needs assessment for the Greater New Haven Region. This includes overall demographics, social and physical environment, health outcomes and findings as they relate to the top three health priorities that were selected for action planning at a regional level: Access to Care; Healthy Lifestyles; and Mental Health and Substance Abuse. Complete findings from the DataHaven Community Wellbeing Survey are covered in the 2016 Greater New Haven Community Wellbeing Index and detailed data by town are available in the survey crosstabs on the DataHaven website.

Demographics

Numerous factors are associated with the health of a community including what resources and services are available as well as who lives in the community. While individual characteristics such as age, gender, race, and the ethnicity have an impact on people's health, the distribution of these characteristics across a community is also critically important and can affect the number and type of services and resources available.

- **Population**. The Greater New Haven Region has a population of 465,227.
- Age Distribution. The median age for both the population of New Haven and the Inner Ring towns of Hamden and West Haven were less than the State of Connecticut median age (40.3) and Greater New Haven Region (39.2) whereas the remainder of the Greater New Haven Region including East Haven and the towns comprising the Outer Ring suburbs of New Haven had higher median ages ranging from 43.6 to 48.
- Racial and Ethnic Diversity. The towns in the region vary dramatically in terms of their racial and ethnic composition. The towns comprising the Inner and Outer Rings of New Haven are respectively 63% White and 16% Hispanic and 89% White and 1% Hispanic. By contrast, New Haven is 32% White and 34% Hispanic.

Social and Physical Environment

Income and poverty are closely connected to health outcomes. A higher income makes it easier to live in a safe neighborhood with good schools and many recreational opportunities. Higher wage earners are better able to buy medical insurance and medical care, purchase nutritious foods, and obtain quality child care than those earning lower wages. Lower income communities have higher rates of asthma, diabetes, and heart disease. Those with lower incomes also generally experience lower life expectancies.

- Income and Poverty. Median Household Income in the State of Connecticut (\$69,899) and the Greater New Haven Region (\$65,764) are similar, however wide gaps exist within the region itself particularly when comparing the Inner Ring (\$59,872) and Outer Ring (\$89,102). The City of New Haven has a Median Income of \$37,508 which is less than half of the statewide Median Income.
- Educational Attainment. The proportion of residents in the Greater New Haven Region with a college degree or higher (39%) is approximately the same as the state overall (37%). However, the New Haven Promise Zone communities (17%) and Inner Ring suburban towns of East Haven and West Haven (both 21%) are significantly less than that of the State of Connecticut.

Health Outcomes

Health outcomes and risk factors related to chronic disease, mental health and substance abuse, mortality and morbidity are covered in significant detail in the 2016 Greater New Haven Community Wellbeing Index. These include:

- **Self-Reported Health Status.** Overall, self-reported health status for individuals in the Greater New Haven region (28%) was comparable to responses from Connecticut residents (27%) as a whole. However, large gaps emerge when results are analyzed by education level or by income (Figures 5 8). Generally, higher education levels and higher income were associated with better self-reported health; individuals with incomes over \$200,000 were nearly four times more likely to report excellent health than individuals with incomes less than \$15,000.
- **Neighborhood Environments.** Perceived quality of society, which relates to neighborhood trust, safety, child-friendliness, perceptions of government services, and many other factors associated with neighborhood environments, are studied in-depth by the survey. These perceptions vary with income level with individuals with lower incomes reporting less quality of society than those with higher incomes.
- **Financial Stress.** The 2015 DataHaven Community Wellbeing Survey contains many markers of financial stress, many of which are directly related to income levels. Across the board, positive levels of food security, transportation access and financial comfort are significantly higher in wealthier suburbs.
- Health Priorities. The Healthier Greater New Haven Partnership has reviewed the findings from the 2015
 DataHaven Community Wellbeing Survey, the 2015 New Haven Health Survey, results from the focus groups and
 key informant surveys that were conducted expressly for this Community Health Needs Assessment and also
 took into account guidance from individuals with public health expertise to prioritize three focus areas for health
 priorities.
 - Healthy Lifestyles (prevention and management of chronic disease). This area includes the prevalence
 of both obesity and smoking both of which were higher in the City of New Haven and Inner Ring
 suburban towns than the State of Connecticut.
 - Access to Care. Access to Care was the top health issue identified through the focus groups and was
 among the top three issues from the Key Informant Surveys. The DataHaven Community Wellbeing
 Survey showed access issues with 28% of adult respondents in the Greater New Haven Region indicating
 that they had postponed or delayed getting the medical care they thought they needed for various
 reasons including physicians or other providers not accepting insurance their insurance or lack of
 convenient office hours.
 - Mental Health and Substance Abuse. The focus group findings, analysis of key informant surveys, and also secondary data obtained from various sources including the Connecticut Health Information
 Management Exchange, a data repository for all hospital encounters, all support the inclusion of this focus area.

2. INTRODUCTION

a. OVERVIEW

Improving the health of a community is critical to ensuring the quality of life of its residents and fostering sustainability and future prosperity. Health is intertwined with multiple facets of our lives, and where we work, live, learn, and play all have an impact on our health. Understanding the current health status of a community – and the multitude of factors that influence health – is important in order to identify priorities for future planning and funding, the existing strengths and assets on which to build, and areas for further collaboration and coordination across organizations, institutions, and community groups.

To this end, the Healthier Greater New Haven Partnership (Partnership) – a coalition of two hospitals, five actively participating departments or districts of public health, federally qualified health centers, and numerous community and non-profit organizations serving the Greater New Haven Region of Connecticut – is leading a comprehensive regional Community Health Needs Assessment (CHNA) effort. This effort is comprised of two main elements:

- Assessment identifies the health-related needs in the Greater New Haven Area using primary and secondary data.
- Implementation Plan determines and prioritizes the significant health needs of the community identified through the CHNA, overarching goals, and specific strategies to implement across the service area resulting in a Community Health Improvement Plan (CHIP).

This report details the findings of the Community Health Needs Assessment conducted from March 2015 – June 2016. The Healthier Greater New Haven Partnership adopted the Association for Community Health Improvement's (ACHI) Community Health Assessment Framework (Figure 1) to guide the CHNA and to ensure that it meets the needs of the hospitals' Internal Revenue Service requirements and those of the local health departments and districts pursuing voluntary accreditation through the Public Health Accreditation Board.

Figure 1: Association for Community Health Improvement Six Step Community Health Assessment Process



b. ADVISORY STRUCTURE AND PROCESS

The Community Health Needs Assessment was spearheaded, funded, and managed by the Healthier Greater New Haven Partnership, which includes Yale New Haven Hospital, Milford Hospital, New Haven Health Department, East Shore District Health Department, Quinnipiack Valley Health District, Milford Health Department, West Haven Health Department, Cornell Scott-Hill Health Center, Fair Haven Community Health Center, Project Access-New Haven, DataHaven, and the Community Alliance for Research and Engagement at the Yale School of Public Health (see Appendix A for a full list of organizational members). The Healthier Greater New Haven Partnership was founded in December 2010 with the mission to improve the health and wellbeing of the Greater New Haven community. The Partnership's vision is through periodic community needs assessments and data collection, to: 1) measure and monitor the health status and quality of life of the Greater New Haven community with the goal of improving the health and well-being of Greater New Haven residents, 2) utilize these findings to develop a collaborative regional health improvement plan and to guide organization specific strategic planning initiatives and outreach efforts, and 3) to develop a shared vision and plan for the community and help sustain lasting change. The Partnership's assessment and planning process aims to engage agencies, organizations, and residents in the area through participatory and collaborative approaches.

The Healthier Greater New Haven Partnership has been reaching out to the larger community through communications and meetings to discuss the importance of this planning process. Additionally, the community has been engaged in focus groups, key informant surveys, the DataHaven Community Wellbeing Survey, and the New Haven Health Survey during the comprehensive data collection effort of the community health needs assessment. Public awareness and dissemination of the CHNA findings and subsequent CHIP priorities and strategies will continue to be conducted via media and public events.

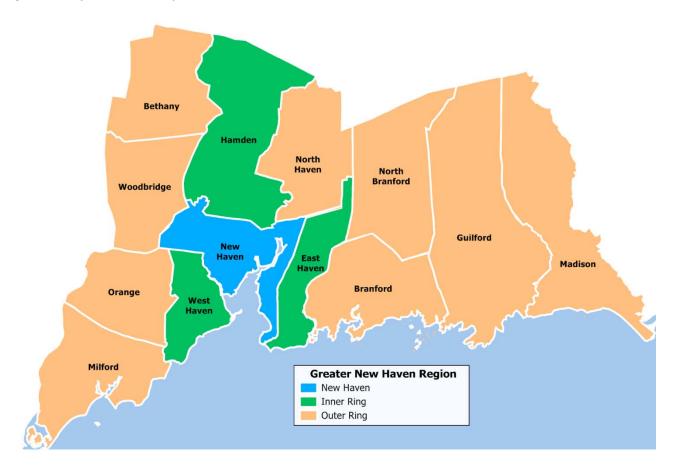
c. PURPOSE AND COMMUNITY SERVED

The Greater New Haven Community Health Needs Assessment was conducted to meet several overarching goals:

- 1. To examine the current health status of the Greater New Haven Area
- 2. To explore current health priorities as well as emerging health concerns among residents within the social context of their communities; and
- 3. To meet the legal requirement of Yale New Haven Hospital and Milford Hospital to conduct a community health needs assessment at least once every three (3) years and to adopt a written implementation strategy to meet the community health needs identified through the community health needs assessment; and
- 4. To meet voluntary health department Public Health Accreditation Board requirements.

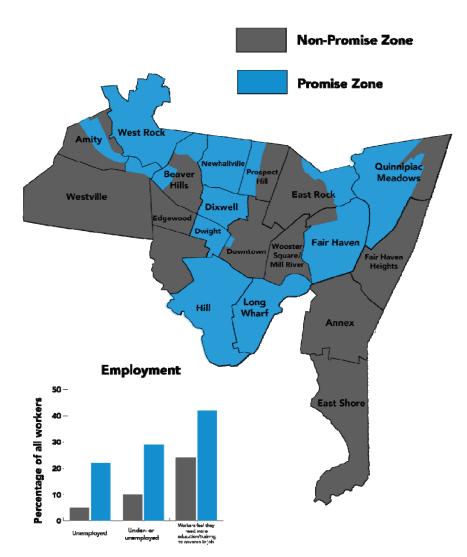
To define community for CHNA purposes this Greater New Haven Community Health Needs Assessment uses a geographic approach focusing on 13 contingent towns within New Haven County, CT: New Haven, East Haven, Hamden, West Haven, Bethany, Branford, Guilford, Madison, Milford, North Branford, North Haven, Orange, and Woodbridge (Figure 2). These communities are served by one or both Yale New Haven Hospital and Milford Hospital and do not overlap with CHNA areas identified by other acute care hospitals and/or collaborations. Upon defining the geographic area and population served in Greater New Haven, the Partnership was diligent to ensure that no groups, especially minority, low-income or medically under-served, were excluded.

Figure 2: Map of Community Served - Greater New Haven Area, Connecticut



In several cases, this Assessment also looks at data for the New Haven Promise Zone (City Transformation Plan), an area identified in the City of New Haven representing the most high-need neighborhoods (Figure 3), which are key communities of focus for Yale New Haven Hospital and others within the New Haven community. In the Greater New Haven Community Index 2016, Promise Zone neighborhoods are generally referred to as "low-income neighborhoods" while those not in the Promise Zone are referred to as "other city neighborhoods."

Figure 3: New Haven Promise Zone



Source: DataHaven

3. METHODS

The following section describes the process and methods used to conduct the Community Health Needs Assessment including what qualitative and quantitative data compiled and how it was analyzed, as well as a description of the broader lens used to guide the process. Specifically, the Community Health Needs Assessment defines health in the broadest sense and recognizes that numerous factors at multiple levels impact a community's health – from lifestyle behaviors to clinical care to social and economic factors to the physical environment. The beginning discussion of this section discusses the larger social determinants of health framework which helped guide this overarching process.

a. SOCIAL DETERMINANTS OF HEALTH FRAMEWORK

It is important to recognize that multiple factors have an impact on health and that there is a dynamic relationship between real people and their lived environments. Where we are born, grow, live, work, and age – from the environment in the womb to our community environment later in life – and the interconnections among these factors are critical to consider. That is to say health outcomes are influenced by more than just an individual's genetic code and in fact zip code is more predictive as influenced by lifestyle behaviors and upstream factors such as income, education, employment and quality of housing stock. The social determinants framework addresses the distribution of wellness and illness among a population.

The following diagram provides a visual representation of this relationship, demonstrating how individual lifestyle factors, which are closest to health outcomes, are influenced by more upstream factors such as education and literacy and physical environments (Figure 4). This report as well as the 2016 Greater New Haven Community Index provides information on many of these factors, as well as reviews key health outcomes.

Figure 4: Social Determinants of Health Framework



b. DATA COLLECTION METHODS - COMMUNITY INPUT

1. Quantitative Data

a) Reviewing Existing Secondary Data

The Greater New Haven Community Health Needs Assessment builds off of previous efforts in the Greater New Haven Region, such as the 2013 Community Health Needs Assessment and resulting Community Health Improvement Plan that has been guiding the direction of the Healthier Greater New Haven Partnership over the past three years. In addition, the Community Health Needs Assessment utilizes sources of secondary data including, but not limited to, the U.S. Census, U.S. Bureau of Labor Statistics, Centers for Disease Control and Prevention, State of Connecticut Department of Public Health, Connecticut Health Information Management Exchange (CHIME), as well as local organizations and agencies. Types of data included vital statistics based on birth and death records.

b) 2015 DataHaven Community Wellbeing Survey

The Healthier Greater New Haven Partnership partnered with DataHaven, whose mission is to improve quality of life by collecting, interpreting and sharing public data for effective decision-making, on its 2015 DataHaven Community Wellbeing Survey. The DataHaven Community Wellbeing Survey assisted the Healthier Greater New Haven Partnership to gather quantitative or primary data that were not provided by secondary sources and to understand public perceptions around health, social determinant and other issues. The DataHaven Community Wellbeing Survey was conducted from April to October 2015 by the Siena College Research Institute. It was administered by randomly-selected land and cell phones and completed in-depth interviews with 16,219 adults statewide including 1,810 adults living in the Greater New Haven Area. The survey was designed by DataHaven and the Siena College Research Institute, in consultation with local, state, and national experts including members of Partnership. Interviews were weighted to be statistically representative of adults in each sub-region. Surveys were administered in both English and Spanish and zip codes were targeted to supplement samples of hard-to-reach populations. The survey has created information that was previously unavailable at a local level from any other source and cross sector analysis provides information on neighborhood quality, happiness, housing, transportation, health, economic security, workforce development and other topics. Findings from the DataHaven Community Wellbeing Survey are primarily covered within the 2016 Greater New Haven Community Index. Detailed public data by town are also available in crosstabs on the DataHaven website.

c) 2015 New Haven Health Survey

The Community Alliance for Research and Engagement (CARE), a partnership between the New Haven community and the Yale School of Public Health, is taking action against chronic diseases like diabetes, asthma, and heart and lung diseases that threaten the health of our city. Increasingly, communities are coming together to encourage healthier lifestyles as a way to tackle obesity and chronic diseases. Every three years, CARE has conducted a survey to track neighborhood health. Following the 2009 and 2012 surveys, the third health survey was conducted in the Fall of 2015 with 1,189 residents from six of New Haven's low-income neighborhoods: Dixwell, Fair Haven, Hill North, Newhallville, West River/Dwight, and West Rock/West Hills. Households were randomly selected (like flipping a coin) from a list of addresses. Local residents were hired and trained to collect the surveys. Over all three time points, 70% of residents approached agreed to participate, answering questions about their health, diet, exercise, smoking habits, and neighborhood safety. The Healthier Greater New Haven Partnership is pleased to support CARE's efforts for a second time and utilize these important findings as part of the Community Health Needs Assessment.

2. Qualitative Data

a) Focus Groups

In December 2015 and January 2016, eight focus groups engaging a total of 79 individuals were conducted by Chanana Consulting in the Greater New Haven region. The goals of the focus groups were to determine perceptions of health strengths and needs in the Greater New Haven region; to identify gaps, challenges and opportunities for addressing community needs more effectively; and to explore how these issues can be addressed in the future. Working with the Healthier Greater New Haven Partnership, groups having a disproportionate burden of health issues were identified (i.e. lower income adults, people with limited English proficiency or Latino adults) as a priority to include in the focus groups. Members identified specific groups and/or organizations that fulfilled these criteria and the consultant facilitated the following groups: residents from a community organization (urban, lower-income); seniors from a community program (urban, lower-income); parents from a community center (urban/suburban mix, Hispanic, lower-income); seniors from a senior center (urban/suburban mix); seniors and parents from a community center (suburban, lower-income); board members of a regional health district (rural/suburban mix); and members of a collaboration working on greater coordination among local mental and health outcomes for patients with medical and/or behavioral health illnesses (urban/suburban, lower-income).

In addition, the consultant maintained efforts to include a geographical sample of residents from the 12 towns and one city that make up the Greater New Haven CHNA region.

b) Key Informant Surveys

Community Health Needs Assessment were initiated in 2015 with the online key informant survey administered and analyzed by a student practicum team at Yale School of Public Health with technical assistance provided by DataHaven. The online survey was administered to community leaders and service providers in the Greater New Haven area using Qualtrics, an online survey tool. Members of Partnership identified 209 key informants between the two groups and had 57 responses in total. The Health and Human Services group included hospital administrators, state and local health departments, physicians, nurses, social service agency leaders and providers, community planning organizations, family centers and youth services, elderly services, supportive housing providers, primary care centers and recreation facilities. The Government and Community Leaders group included state and local elected officials, police and fire departments, library directors, clergy, other government agency heads, school principals, after school program providers, arts organizations, journalists, and community advocacy organizations, neighborhood association leaders, chambers of commerce and community service organizations. Surveys were designed to better understand the health needs of the Greater New Haven Region and included questions on community health initiatives, health related problems, barriers to good health, health services, and current outlooks.

3. Analyses

The secondary data and qualitative or primary data from the Community Wellbeing Survey, focus groups, and key informant surveys were synthesized and integrated into this report.

4. Limitations

As with all research efforts, there are several limitations related to the assessment's research methods that should be acknowledged. Data based on self-reports should be interpreted with some caution. In some instances, respondents may over or underreport behaviors and illnesses based on fear of social stigma or misunderstanding the question being asked. In addition, respondents may be prone to recall bias – that is, they may attempt to answer accurately but remember incorrectly. In some surveys recalling and recall bias may differ according to a risk factor or health outcome of interest. Despite these limitations, most of the self-report surveys, particularly those using random sampling methods, benefit from large sample sizes and repeated administrations, enabling comparison overtime.

While focus groups and key informant surveys conducted for this assessment provide valuable insights, results are not statistically representative of a larger population due to non-random recruiting techniques and a small sample size. It is also important to note that data were collected at one point in time, so findings, while directional and descriptive, should not be interpreted as definitive.

4. FINDINGS

A. DEMOGRAPHICS

This section provides a brief overview of the population of the Greater New Haven Region. For a more detailed review of regional demographics please refer to the 2016 Greater New Haven Community Index. Numerous factors are associated with the health of a community including what resources and services are available as well as who lives in the community. While individual characteristics such as age, gender, race, and ethnicity have an impact on people's health, the distribution of these characteristics across a community is also critically important and can affect the number and type of services and resources available.

Table 1: Population and Demographic Composition - 2010-2014 American Community Survey

	Total	Average Age	White	Black	Hispanic	Other
	Population		Not-Hispanic	Not-Hispanic		Not-Hispanic
Connecticut	3,592,053	40.3	70%	10%	14%	6%
Greater	465,227	39.2	65%	15%	13%	7%
New Haven						
Region						
New Haven	130,553	30.5	32%	34%	26%	8%
New Haven	65,778	29.7	17%	41%	36%	6%
Promise						
Zone area						
New Haven	64,775	33.4	47%	26%	16%	11%
Non-Promise						
Zone area						
Inner Ring	146,034	38.3	63%	16%	14%	7%
East Haven	29,139	43.0	79%	3%	11%	7%
Hamden	61,605	37.9	64%	19%	10%	8%
West Haven	55,290	36.3	53%	21%	19%	7%
Outer Ring	188,640	45.9	89%	1%	4%	6%
Bethany	5,546	44.6	96%	0%	1%	3%
Branford	28,066	48.0	88%	1%	5%	6%
Guilford	22,405	48.0	92%	1%	4%	4%
Madison	18,284	46.9	95%	0%	1%	4%
Milford	53,039	43.6	86%	2%	5%	7%
North	14,387	46.0	94%	1%	3%	2%
Branford						
North Haven	23,997	45.6	86%	3%	4%	7%
Orange	13,947	45.4	85%	1%	5%	8%
Woodbridge	8,969	47.4	83%	1%	3%	13%
Source: DataHa	ven analysis of 20	10-2014 Americar	n Community Surv	ey, via census.gov a	nd Census API	

B. SOCIAL AND PHYSICAL ENVIRONMENT

Income and poverty are closely connected to health outcomes. A higher income makes it easier to live in a safe neighborhood with good schools and many recreational opportunities. Higher wage earners are better able to buy

medical insurance and medical care, purchase nutritious foods, and obtain quality child care than those earning lower wages. Communities where residents have lower income levels have been shown to have higher rates of asthma, diabetes, and heart disease, and lower life expectancies.

Table 2: Key Socioeconomic Indicators - 2010-2014 American Community Survey

	Bachelor's degree or higher	Commute time >30 min	Preschool enrollment rate, age 3- 4	Disconnected Youth, age 16-19	Housing: Percent severely cost- burdened	Median Household Income	Low income rate among children age 0-17
Connecticut	37%	34%	64%	6%	18%	\$69,899	30%
Greater New Haven Region	39%	29%	59%	5%	21%	\$65,764	34%
New Haven	34%	24%	53%	10%	30%	\$37,508	61%
New Haven Promise Zone area	17%	25%	47%	14%	35%	\$30,277	75%
New Haven Non-Promise Zone area	48%	24%	61%	4%	24%	\$50,989	42%
Inner Ring	31%	29%	56%	3%	21%	\$59,872	34%
East Haven	21%	28%	50%	2%	20%	\$61,435	33%
Hamden	45%	32%	48%	2%	18%	\$67,771	25%
West Haven	21%	25%	67%	6%	25%	\$49,993	43%
Outer Ring	47%	33%	70%	3%	16%	\$89,102	14%
Bethany	51%	46%	48%	4%	14%	\$97,500	5%
Branford	40%	27%	60%	4%	17%	\$71,058	24%
Guilford	58%	42%	77%	1%	14%	\$99,441	13%
Madison	66%	43%	64%	3%	16%	\$108,231	6%
Milford	40%	33%	64%	4%	17%	\$80,743	20%
North Branford	40%	31%	89%	0%	14%	\$87,408	18%
North Haven	40%	26%	70%	9%	14%	\$84,078	11%
Orange	58%	30%	93%	5%	15%	\$105,190	3%
Woodbridge	68%	29%	47%	0%	20%	\$134,045	12%
Source: DataHave	en analysis of 2	01 <mark>0-2014 Ame</mark>	rican Communi	ty Survey, via cer	sus.gov and (Census API	

C. 2015 DATAHAVEN COMMUNITY WELLBEING SURVEY: HEALTH OUTCOMES

Detailed data on health outcomes, including mortality rates, premature mortality, and various other conditions, are presented in detail the 2016 Greater New Haven Community Index. The following is a summary of additional findings of high relevance to the Healthier Greater New Haven Partnership.

Self-Reported Health Status

Self-reported health status is a powerful predictor of future disability, hospitalization, and mortality. Overall, self-reported health status for individuals in the Greater New Haven region (28%) was comparable to responses from Connecticut residents (27%) as a whole. The 2015 DataHaven Community Wellbeing Survey question reads as follows: "How would you rate your overall health, would you say your health is excellent, very good, good, fair or poor?" In the Greater New Haven region, 28% of adult respondents indicated that they were in "excellent" health and 4% that they were in "poor" health.

However, large gaps emerge when results are analyzed by education level or by income (Figures 5 – 8). Generally, higher education levels and higher income were associated with better self-reported health; individuals with incomes over \$200,000 were nearly four times more likely to report excellent health than individuals with incomes less than \$15,000.

Figure 5: Greater New Haven Region Self-Reported Health Status by Education - Excellent Health

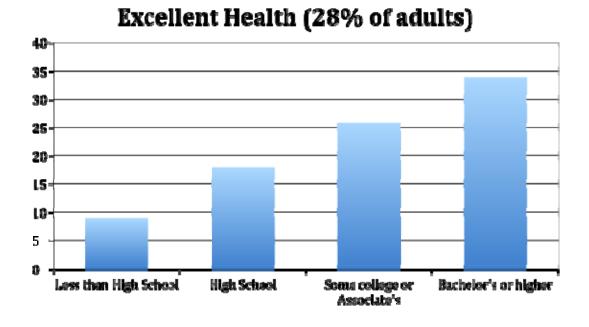


Figure 6: Greater New Haven Region Self-Reported Health Status by Income – Excellent Health

Figure 7: Greater New Haven Region Self-Reported Health Status by Education – Poor Health

\$200K

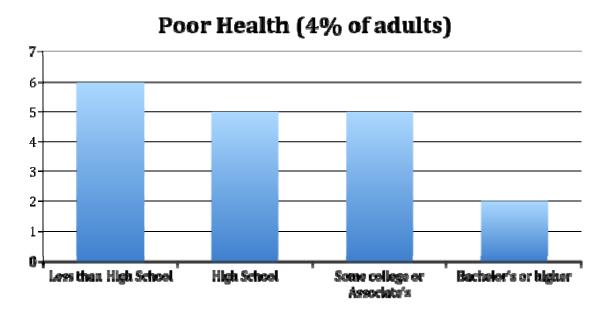
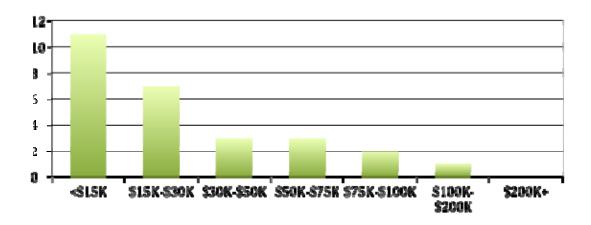


Figure 8: Greater New Haven Region Self-Reported Health Status by Income - Poor Health

Poor Health (4% of adults)



Higher-income Outer Ring suburbs also saw much better self-reported health status than the generally lower-income Inner Ring suburbs, with an 11-percentage point gap in reports of excellent health (Outer Ring: 33%, Inner Ring: 22%). As with much of the data in this chapter, these differences are detailed more in the main Community Index report.

Neighborhood Environments

Perceived quality of society, which relates to neighborhood trust, safety, child-friendliness, perceptions of government services, and many other factors, are studied in-depth by the survey. These perceptions typically vary with income level. Questions about feelings of safety demonstrate this relationship (Figures 9 and 10).

Figure 9: Greater New Haven Region, Neighborhood Trust by Income, 2015 DataHaven Wellbeing Survey



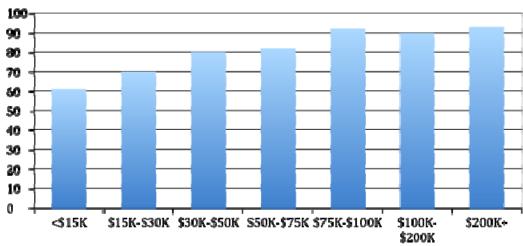
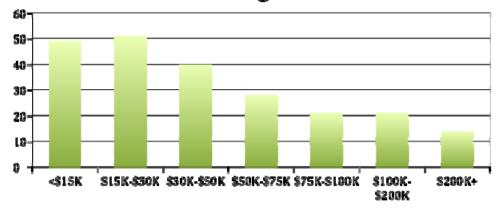


Figure 10: Greater New Haven Region, Don't Feel Safe Walking in Neighborhood at Night by Income, 2015 DataHaven Wellbeing Survey

Don't feel safe walking in neighborhood at night



The income-level differences also translate to geographic regions. Differences can be seen between different parts of Greater New Haven — a metropolitan area where income tends to increase as one gets further from the city (Figures 11 and 12).

Figure 11: Greater New Haven Region, Neighborhood Trust by Geographic Area, 2015 DataHaven Wellbeing Survey

People in this neighborhood can be trusted

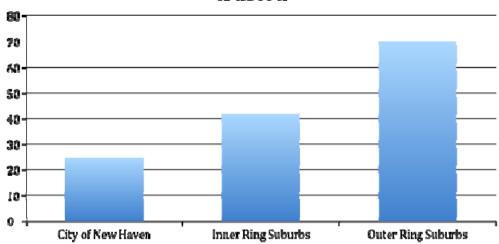
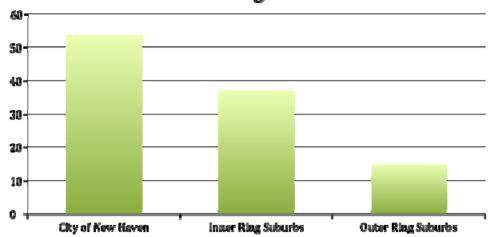


Figure 12: Greater New Haven Region, Don't Feel Safe Walking in Neighborhood at Night by Geographic Area, 2015

DataHaven Wellbeing Survey

Don't feel safe walking in neighborhood at night

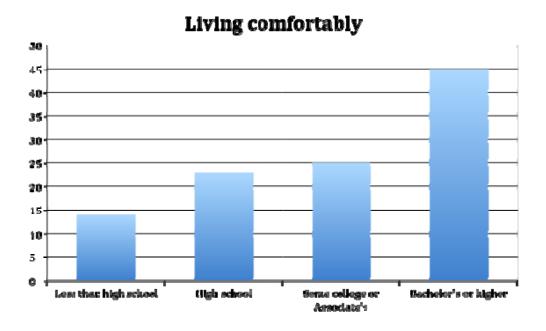


Looking more closely at New Haven, from the New Haven Health Survey (Appendix B), we can see that disparities exist even within the borders of the city. Specifically, residents of neighborhoods designated as part of the "Promise Zone" — a set of low-income, under-resourced parts of the city —were significantly more likely to feel unsafe walking in their neighborhoods at night. Additionally, 15% of Promise Zone residents reported being personally attacked or threatened with violence last year, much higher than the 8% overall rate in New Haven.

Financial Stress

The 2015 DataHaven Community Wellbeing Survey contains many markers of financial stress (Figure 13), many of which are directly related to income levels. Across the board, positive levels of food security, transportation access and financial comfort are significantly higher in wealthier suburbs (Figure 14). They also may relate to accumulated wealth, savings, educational debt and homeownership opportunities, which are impacted by age, racial disparities and education level. In total 33% of adult respondents indicated that they are living comfortably.

Figure 13: Greater New Haven Region, Living Comfortably by Level of Education, 2015 DataHaven Wellbeing Survey



25
20
15
10
City of New Blaver.
Inner Ring Suburbs
Outer Ring Suburbs

Not always enough

money to buy food.

Figure 14: Greater New Haven Region, Financial Security by Geographic Area, 2015 DataHaven Community Wellbeing Survey

Related Health Behaviors and Outcomes

Finding it difficult to

manage financially.

Detailed data on health behaviors and outcomes, including mortality rates, premature mortality, and various other conditions, are presented in detail in the 2016 Greater New Haven Community Index. However, to put indicators including self-reported overall health status, neighborhood trust, safety and financial stress in context, some key health related areas are also covered here.

Not always access to

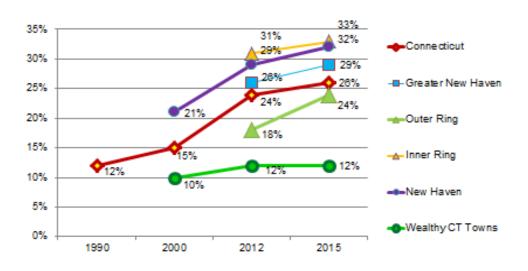
transportation

Obesity Prevalence (Figure 15) was measured using self-reported height and weight to calculate the body mass index (BMI) for adult respondents of the DataHaven Wellbeing Survey. The findings indicate that the prevalence of obesity in Greater New Haven (29%) is increasing and is slightly elevated when compared to the State of Connecticut (26%). This is primarily driven by responses in the City of New Haven (32%) and the Inner Ring (33%) suburban towns of East Haven, West Haven and Hamden.

Figure 15: Obesity Prevalence Trends

Obesity Prevalence, Trends

(Adults 18+)



Sources: DataHaven Community Wellbeing Survey (2012, 2015); 2007 CT Health Data Soan and other sources. Historical data may be directly compared to 2015 data. Obese is defined as BMI > 30.

Smoking prevalence trends (Figure 16), which were calculated using the responses to two questions on the DataHaven Community Wellbeing Index — "Have you smoked at least 100 cigarettes in your entire life?" and "Do you currently smoke cigarettes every day, some days or not at all?" — indicate that smoking of cigarettes has either decreased or remained flat across all areas surveyed including the State of Connecticut and Greater New Haven region. Additionally, over 60% of current smokers in the City of New Haven and also the Inner Ring, which have the highest prevalence (18% and 17% respectively), have stopped smoking cigarettes for at least 24 hours in the past year because they were trying to quit. This is good news for public health when considering the Stages of Change (transtheoretical model), which assesses an individual's readiness to act on a new healthier behavior, meaning that with support the prevalence of smoking may be driven down even further across the Greater New Haven region. That said the prevalence of e-cigarettes has increased (Figure 17). However that may start to stabilize due to the U.S. Food and Drug Administration (FDA) finalizing a rule in 2016 extending regulatory authority to cover all tobacco products including vaporizers, vape pens, hookah pens, electronic cigarettes, etc.

Figure 16: Smoking Prevalence Trends

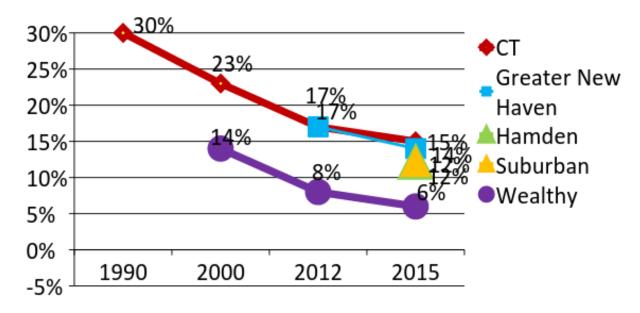
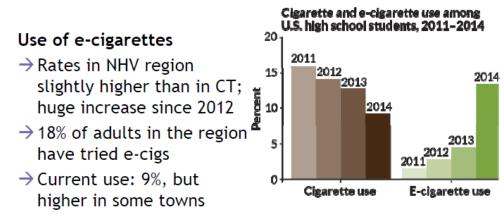


Figure 17: Use of E-Cigarettes



- → Lower among women, blacks, adults w/college degrees
- → Current use is 15% among age 18-34; 2% among age 65+
- → Many users use e-cigarettes every day; many also report smoking regular cigarettes

Source of chart: Science News (2015), available at https://www.sciencenews.org/article/e-cigarettes-provingbe-danger-teens

DataHaven

A direct outcome of health behaviors such as lack of exercise, lack of access to healthy food and tobacco use are related medical conditions and complications from obesity including high blood pressure, high cholesterol, diabetes, heart disease or heart attack, and to some extent asthma. Figure 18 demonstrates adults who responded that they had been told by a doctor or health professional that they have a particular medical condition. Though the rates may not have statistical significance with the exception of Asthma, both the Inner Ring suburban towns and the City of New Haven do have slightly elevated responses when compared to the State of Connecticut and the Outer Ring suburban towns.

Figure 18: Greater New Haven Region Medical Condition, 2015 DataHaven Wellbeing Survey

Medical Conditions

Have you ever been told by a doctor or health professional that you have...

Response = Yes	Connecticut	Outer Ring	Inner Ring	New Haven
High blood pressure/ hypertension	28%	27%	31%	24%
High cholesterol	23%	24%	24%	19%
Diabetes	9%	5%	12%	10%
Heart disease/ heart attack	5%	5%	7%	5%
Asthma	13%	10%	12%	17%

Financial stress and lower socioeconomic status may also have challenges related to access to medical care for various reasons including physicians or other providers not accepting insurance, unable to get an appointment soon enough and not being able to get to the doctor's office or clinic when it was open. Approximately 28% of adult respondents indicated that they had postponed or delayed getting the medical care they thought they needed (Figure 19).

Additionally, eight percent of adult respondents (roughly 145 individuals) indicated that they were unable to afford prescription medication due to cost. A quarter of these individuals earn less than \$30,000 per year (Figure 20).

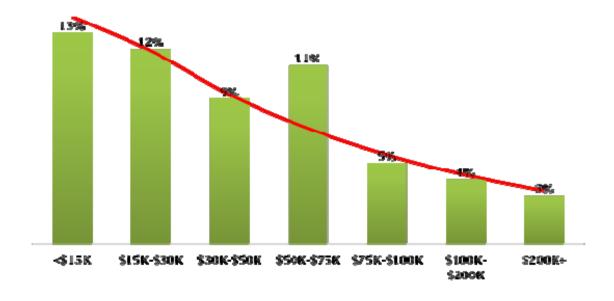
Figure 19: Greater New Haven Access to Medical Care (Percent naming the reasons shown, among those who did not get or postponed care)

Access to Medical Care

If did not get care or postponed care during the past 12 months, the reasons included...

Response = Yes	Connecticut (21%)	Outer Ring (19%)	Inner Ring (20%)	New Haven (22%)
Doctor or hospital wouldn't accept your health insurance	16%	16%	16%	22%
Couldn't get an appointment soon enough	25%	22%	27%	38%
Couldn't get there when the doctor's office or clinic wasopen	26%	18%	31%	23%

Figure 20: Percent of adults unable to afford prescription medicines due to cost, by income level



D. 2015 NEW HAVEN HEALTH SURVEY

The 2015 New Haven Health Survey findings, which provide a detailed view of the health status, diet, exercise, smoking habits and neighborhood safety within six low-income New Haven neighborhoods, may be found primarily in Appendix B.

E. REGIONAL FOCUS GROUPS

Focus group participants contributed to discussions and completed a short survey tool at the end of the session. On the survey, participants were asked to rate access to health care services and access to community services. Access to bilingual health care providers was identified as the most challenging to access followed by mental and behavioral health services. Participants indicated that access to grocery stores and farmers markets, healthy food, open spaces and parks, and medical insurance was often available; more challenging was access to help with housing and employment/job training. Surveys also included a self-reported ranking of the top health care issues in the community and the greatest challenges/barriers perceived to have a negative impact on the health of community residents. In both instances, access to healthcare issues had the greatest prevalence.

Table 3: Top Community Issues Related to Heath Care

Ranking	Issue	Prevalence
1	Access to healthcare (lack of availability, in network care, transportation, specialists; long waiting times for appointments; delay in treatment; referrals)	29
2	Cost of healthcare	17
3	Transportation	12

Table 4: Top Barriers or Challenges that have Greatest Negative Impact Among Residents Health

Ranking	Issue	Prevalence
1	Access to healthcare (lack of in network providers, lack of transportation, lack of vision care, referrals, translators, language barriers, waiting times for appointments)	30
2	Insurances (no insurance, low income, dental insurance and coverage, medication cost and coverage)	13
3	Transportation	9

Focus group discussions around the positive and negative aspects of health care services in the community centered around access to care (availability of health care providers, dental care, referrals, insurance, and transportation), coordination of care, mental/ behavioral health services and addiction services, and quality of care. When probing on the health and well-being of the community, discussions lead to access and affordability of healthy food, community parks, neighborhood safety, recreation opportunities and transportation.

Affordable Healthy Food: Overall, a majority of the participants felt that obtaining healthy food was a challenge due to the high cost. Those on a limited income struggled to purchase fresh fruits and vegetables on a regular basis and often only had access to more affordable options during the summer months (from farmers markets, community gardens, etc.). Those who did not have supermarkets nearby lacked easy access to healthy foods as the typical corner store charges much more for the items they sell. Transportation to supermarkets also posed a challenge to those who live in suburban communities (and rely on public transportation).

- Recreation Opportunities: Participants discussed the lack of low or no-cost recreation options for children and adults outside of school. In addition, many seniors noted the lack of opportunities in most communities, outside of the senior centers.
- Neighborhood Safety: When discussing neighborhood safety, issues ranged from unsafe sidewalks to residents feeling unsafe due to neighborhood violence.
- Community Parks: A majority of the participants felt that most community parks (especially those in urban areas) were not safe and were often kept in poor condition. In areas where parks are in better condition, there was consensus that they are still not utilized very often.

During the discussions, participants were asked to identify the top health concerns and issues in the community. Following is a list of the areas that were identified in the Greater New Haven region:

- Community activities lack of affordable activities for youth, adults, and seniors.
- Coordination of agencies residents have struggled with the coordination of state agencies (i.e. Husky, SNAP assistance, insurance, etc.). Using the system is inefficient and very time consuming because the various agency computers are not linked. There is a great deal of duplication of information, repetition and long waits.
- Insurance "Good" insurance is not affordable; state insurance limits access to providers, dental care options, mental and behavioral health options and prescription medications. Often providers who take state insurance have long waits for appointments and long waiting times during appointments.
- Mental and behavioral health services lack of services; lack of affordable services; not satisfied with nearby treatment options; lack of continuity, communication and resources related to mental and behavioral health care.
 - Specific needs for mental and behavioral health patients there were a number of issues related to
 housing, long-term resources, providers, safety and the stigma associated with mental health and
 substance abuse.
- Transportation lack of sufficient, reliable, affordable transportation.

The detailed health concerns and issues outlined by the focus group participants indicated that the Healthier Greater New Haven Partnership priorities should include: Access to Care, Healthy Lifestyles (prevention and management of chronic disease), and Mental Health and Substance Abuse.

F. KEY INFORMANT SURVEYS

Efforts related to the CHNA were initiated in 2015 with a combination of primary data components including the online key informant survey administered and analyzed by a student practicum team at Yale School of Public Health with assistance from Mark Abraham, Executive Director of DataHaven. The online survey was administered to community leaders and service providers in the Greater New Haven area using Qualtrics, an online survey tool. Members of PHGNH identified 209 key informants between the two groups and received 57 responses in total. The Health and Human Services group included hospital administrators, state and local health departments, physicians, nurses, social service agency leaders and providers, community planning organizations, family centers and youth services, elderly services, supportive housing providers, primary care centers and recreation facilities. The Government and Community Leaders group included state and local elected officials, police and fire departments, library directors, clergy, other government agency heads, school principals, after school program providers, arts organizations, journalists, community advocacy organizations, neighborhood association leaders, chambers of commerce, and community service organizations. Surveys were designed to better understand the health needs of the Greater New Haven region and included questions on community health initiatives, health related problems, barriers to good health, health services, and current outlooks.

From the key informant online surveys, it was found that respondents knew more about the 2013 CHNA than the Community Health Improvement Plan (CHIP), but less than half of the respondents believed the CHNA and CHIP led to greater collaboration in their community.

Recurring themes in responses identified the top five health issues respondents believe are present in the community as: Chronic disease; Mental health and addiction; Access to and use of health services; Violence and safety; and, Nutrition (Figure 21). The top health issues identified by the key informants align with the Healthier Greater New Haven Partnership's health priorities.

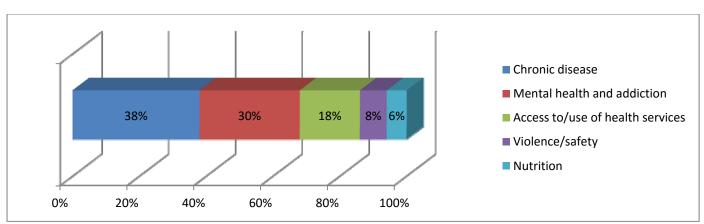


Figure 21: Key Informant Survey Top Five Health Issues

Nearly all respondents believed that access to medical insurance was the most important barrier that should be addressed. Almost half of all respondents thought that access to quality care had improved over the past three years. Some of the reasons attributed to this improvement were greater advocacy and awareness, expansion of the Affordable Care Act, and expansion of hospital and medical clinics in the community. However, respondents felt there could be more providers serving the vulnerable population and identified the need for access to mental health services.

Key informants identified leadership activities that are working well in the community as well as emerging issues in the community. Leadership issues included:

- Collaborations between youth and family services, parks and recreation and community volunteers
- Programs aimed at enhancing parent leadership in the community and improving the lives of homeless people
- Planned programs to reduce food insecurity

The emerging issues that were identified by the key informants included:

- Behavioral health services for adolescents
- Drug use
- Emerging infectious diseases
- Environment and climate change
- Increasing aging population
- Limited funding, impacting access to services
- Obesity

Finally, the key informants identified four recommendations to address community health concerns which include: Improve accessibility of transportation; Increase the number of bilingual health providers; Increase the number of after school programs and education classes; and, Engage political leaders to improve collaboration.

5. **COMMUNITY ENGAGEMENT**

Two community forums have been held to date in the Greater New Haven Region – one in Milford on April 19, 2016 hosted by Milford Hospital and the Milford Health Department and the other in New Haven held on May 7, 2016 hosted by CARE in partnership with the New Haven Health Department. Additional forums are scheduled in September 2016 in support of Public Health Accreditation Board efforts being pursued by East Shore District Health Department (East Haven, Branford, and North Branford) and the Quinnipiack Valley Health District (Bethany, Hamden, North Haven, and Woodbridge).

The Community Forum in Milford included a review of findings from the 2015 DataHaven Community Wellbeing Survey and secondary data supporting the 2016 Greater New Haven Community Index. Nearly 20 members from the Healthier Greater New Haven Partnership and additional community stakeholders representing over 13 organizations or agencies attended the meeting. As part of the discussion the group identified Access to Care, Healthy Lifestyles, and Mental Health & Substance Abuse as areas of focus. A second meeting was held on May 5, 2016 in Milford to develop strategies and action steps as well as identify partners as part of Community Health Improvement Plan development.

Over 100 community members and representatives from various organizations attend the Community Alliance for Research and Engagement at the Yale School of Public Health Community Forum in May 2016. The agenda included an in-depth review of the 2015 New Haven Health Survey findings as well as relevant findings from the 2015 DataHaven Community Wellbeing Survey for the City of New Haven. The forum also included breakout sessions by neighborhood for the six areas surveyed and for the City of New Haven for those representing other areas. During the breakout sessions, which were facilitated by Community Mediation, residents discussed concerns and identified opportunities to work together as a community to improve quality of life and wellbeing through healthy eating, physical activity, and other approaches. Appendix C contains a detailed report from the Community Forum.

The 2016 Greater New Haven Community Index, prepared by DataHaven, serves as the CHNA document for Yale New Haven Hospital and Milford Hospital along with the City of New Haven Health Department, East Shore District, Quinnipiac Valley Health District, Milford Health Department, West Haven Health Department, and other members of Healthier Greater New Haven Partnership. The Index will be made widely available through individual members' websites.

6. PRIORITIZATION OF HEALTH ISSUES

A. 2013 COMMUNITY HEALTH IMPROVEMENT PLAN PROGRESS-TO-DATE

In 2013, individuals from what has now become the Healthier Greater New Haven Partnership including representatives from Yale New Haven Hospital, New Haven Health Department, Cornell Scott-Hill Health Center, Fair Haven Community Health Center, Project Access-New Haven, DataHaven, Community Alliance for Research and Engagement at the Yale School of Public Health and others with a specific knowledge or expertise in public health completed a CHNA prioritization process to identify priority health issues.

From this work, two key health priorities were selected for implementation at the city-wide level: Access to Care and Obesity and Chronic Disease. In addition, the Partnership committed to attempt to align with the additional five focus areas of the State of Connecticut Health Improvement Plan, which was being simultaneously developed and included overlapping members and subject matter experts.

Since 2013, significant progress has been made in the Greater New Haven Region. Some accomplishments include:

- Expansion of the Partnership to include all 13 towns in the Greater New Haven Region
- Access to Care
 - Coordinated city-wide enrollment effort to increase the percentage of adults who have health insurance
 - Identified existing resources to develop an inventory of community based services
 - Hosted opportunities to discuss specific topic areas at regular meeting such as access and utilization of dental services and non-emergency transportation services and collaboratively identify barriers and potential solutions
- Obesity and Chronic Disease
 - Launched Get Healthy CT, initially in the City of New Haven, with expansion into additional Greater New Haven communities
 - Development and implementation of an annual city-wide Get Fit Day that has now evolved to include a partnership with the Y: Healthy Kids Day on the New Haven Green and in other communities across the region
 - Identification of opportunity for interventions, including social determinants and chronic disease related issues
 - Aligned indicators and priorities with local, regional, and statewide initiatives
- Collaboratively worked with multiple stakeholder groups to identify goals and objectives in the areas of Asthma,
 Infectious Disease, Injury and Violence, Maternal Child Health, Mental Health & Substance Abuse to align with the State of CT Health Improvement Plan.

B. 2016 PRIORITIZATION OF HEALTH ISSUES

In January and again in March 2016, Healthier Greater New Haven Partnership members and their community partners (including those with public health departments and / or knowledge, information, or expertise relevant to the health needs of the community or medically underserved, low-income, and minority populations) reviewed the primary and secondary CHNA data and determined, by group consensus, that the 2013 priorities would be maintained moving forward for the 2016 CHNA. Participants involved in this comprehensive review also identified Mental Health and Substance Abuse as a third priority for the region as part of the 2016 Community Health Improvement Plan (Figure 22). The Partnership, health departments, and hospitals confirmed that there was a need to continue working in the 2013 focus areas as these were still the top health priority areas. All primary and secondary data that was collected, analyzed and reviewed supported the continuation of the 2013 priority areas (Access to Care and Healthy Lifestyles) with the expansion to include the area of Mental Health and Substance Abuse. Since 2013, the Partnership had been collaborating in this important area through efforts undertaken by Clifford Beers Clinic and the South Central CT Consortium for Integrated Healthcare.

In the City of New Haven this effort builds upon the New Haven Promise Zone / City Transformation Plan work, which included extensive community prioritization in July 2015. The three health areas of focus within the City Transformation Plan under "Improve Community Health and Well-Being" are reflected within the Partnership's 2016 Community Health improvement Plan. The City Transformation Plan is led by co-chairs representing the City of New Haven Health Department, Clifford Beers Clinic and Yale New Haven Hospital.

Figure 22: Healthier Greater New Haven Partnership Priority Health Areas



7. COMMUNITY HEALTH IMPROVEMENT PLAN

In addition to guiding future services, programs and policies for the Healthier Greater New Haven Partnership members and the overall area, the Community Health Needs Assessment and Community Health Improvement Plan are also prerequisites for health departments to earn voluntary accreditation and for hospitals to maintain their tax-exempt status.

The 2016 Community Health Improvement Plan was developed over the period of January through June 2016, using the key findings from the Community Health Assessment, which included qualitative or primary data from the 2015 DataHaven Community Wellbeing Survey, 2015 New Haven Health Survey, focus groups and key informant surveys that were conducted locally, as well as quantitative data from local, state and national indicators to inform discussions and determine health priority areas.

As was the case in 2013, the Healthier Greater New Haven Partnership was responsible for overseeing the Community Health Needs Assessment, identifying the health priorities and overseeing the development of the Community Health Improvement Plan. A core coordinating committee was responsible for the overall management of the process, and Community Health Improvement Plan Workgroups, which represented broad and diverse sectors of the community, were continued in each health priority area. The CHIP Workgroups developed goals, objectives, strategies and action steps for their respective components of the Community Health Improvement Plan.

Healthier Greater New Haven Partnership members outlined a compelling and inspirational vision to support the planning process and the CHIP.

Mission: To improve the health and wellbeing of the Greater New Haven community.

Vision: Through periodic community needs assessments and data collection, measure and monitor the health

status and quality of life of the Greater New Haven community with the goal of improving the health and well-being of Greater New Haven residents. Utilize these findings to develop a collaborative regional health improvement plan and to guide organization specific strategic planning initiatives and

outreach efforts.

A. OVERVIEW OF THE COMMUNITY HEALTH IMPROVEMENT PROCESS

– What is a Community Health Improvement Plan?

A Community Health Improvement Plan or CHIP is an action-oriented strategic plan that outlines the priority health issues for a defined community, and how these issues will be addressed, including strategies and indicators for measurement, to ultimately improve the health of the community. CHIPs are created through a community-wide, collaborative planning process that engages partners and organizations to develop, support, and implement the plan. A CHIP is intended to serve as a vision for the health of the community and a framework for organizations to use in leveraging resources, engaging partners, and identifying their own priorities and strategies for community health improvement.

How to use a CHIP

A CHIP is designed to be a broad strategic framework for community health and should be modified and adjusted as conditions, resources, and external environmental factors change. It is developed and written in a way that engages multiple perspectives so that all community groups and sectors – private and nonprofit organizations, government agencies, academic institutions, community – and faith-based organizations can participate in the effort and unite to improve the health and quality of life for all people who live, work, and play in the Greater New Haven Region.

Methods

Building upon the key findings identified in the Community Health Needs Assessment, the CHIP aims to:

- Identify priority issues for action to improve community health
- Develop and implement an improvement plan with performance measures for evaluation
- Guide future community decision-making related to community health improvement

In addition to guiding future services, programs, and policies for participating agencies and the area overall, the Community Health Improvement Plan fulfills the prerequisites for a hospital to submit to the IRS as proof of its community benefit and for a health department to earn voluntary accreditation, which indicates that the agency is meeting national standards.

To develop the Community Health Needs Assessment and the Community Health Improvement Plan, the Healthier Greater New Haven Partnership (which includes representatives from local public health entities) was the convening organization that brought together community residents and the area's influential leaders in healthcare, community organizations, and other key sectors, including local government, and social services. Using the guidelines of the Association for Community Health Improvement (ACHI) the six-step health assessment and improvement process was designed:

- 1) Identification of a team and resources,
- 2) Clearly defining the purpose and scope of the project,
- 3) Collecting and analyzing data,
- 4) Selecting priorities and developing a health improvement plan,
- 5) Documenting and communicating results, and
- 6) Planning for action and monitoring progress.

B. DEVELOPMENT OF THE 2016 CHIP STRATEGIC COMPONENTS

The three Healthier Greater New Haven Partnership workgroups (Access to Care, Healthy Lifestyles (prevention & management of chronic disease including Asthma), and Mental Health & Substance Abuse) convened regularly from March to June 2016 and actively used the CHNA findings to develop goals, objectives and strategies to pursue for the next three-year cycle. From these meetings, groups developed a 2016 Community Health Improvement Plan document that is organized by the four priority areas and includes specific goals, measurable indicators (short and long-term), strategies, action steps, and partners. Information from the State of CT Health Improvement Plan (Healthy CT 2020) action agendas was also included to ensure continuity of efforts between state and local conditions. These meetings were facilitated by Chanana Consulting and Yale New Haven Health's Community Benefits Manager.

C. PLANNING FOR ACTION AND MONITORING PROGRESS

Progress will be monitored at routine monthly work group meetings and discussed at monthly Healthier Greater New Haven Partnership meetings using a monitoring tool developed to track the specific goals, objectives, and strategies identified in each area. If gaps in resources are identified, the Partnership will extend collaborative efforts to other organizations and programs that are currently providing those services as a means to foster relationships and efficiently meet the needs of the community members.

The 2016 Greater New Haven Community Index, hospital data and other resources identified in the CHIP provide common measurement indicators to monitor and evaluate progress on the implementation strategies.

D. COMMUNITY HEALTH IMPROVEMENT PLAN

Real, lasting community change stems from critical assessment of current conditions, an aspirational framing of where the Healthier Greater New Haven Partnership would like to be, and clear evaluation of whether the collaborative efforts are making a difference. The following pages outline the goals, strategies, action steps, and indicators for the three health priority areas outlined in the Community Health Improvement Plan.

Priority Area 1: Access to Care

Goal: Achieve optimal population access to integrated health services in Greater New Haven region

Indicator 1: % of adults who have health coverage through either the public or private sector [2015 baseline CT Wellbeing Survey (CTWS), 95%]

Indicator 2: % of adults who have a person or place they use for a personal doctor or health care provider [2015 baseline CTWS, 86%]

Indicator 3: % of adults who report getting dental care in the past year [2015 baseline CTWS, 75%]

Strategy	Action Steps	Partners	Short term indicator
Decrease number of people who are negatively impacted by insurance redetermination in Greater New Haven	 a. Research barriers/challenges I. Difficulty in understanding letters from Department of Social Services (DSS) II. Patient Access b. Develop plan for solutions/interventions c. Initial pilot site is Cornell Scott Hill Health Center 	Project Access-New Haven, Yale New Haven Hospital, Milford Hospital, Cornell Scott-Hill Health Center, Fair Haven Community Health Center, Planned Parenthood of Southern New England, New Haven Health Department, Quinnipiack Valley Health Department, East Shore District Health Department, Milford Health Department, West Haven Health Department	# of individuals negatively impacted by insurance redetermination (baseline) obtained at a pilot site # of people who regain Medicaid eligibility through the pilot
Increase number of young adults and adults that have a primary care provider or place in Greater New Haven	a. Research alternative methods I. Telemedicine, e-consults, call-a-nurse II. Identify pilot site such as Elm City Communities / New Haven Housing Authority or community-based organization clients (e.g. Community Action Agency of New Haven)	Yale New Haven Hospital Primary Care Clinics, Healthy West Haven Collaborative, Milford Hospital, Project Access-New Haven, Fair Haven Community Health Center, Cornell Scott-Hill Health Center, Planned Parenthood of Southern New England, Community Health Network, other area providers and physician groups	# care delivery alternatives identified # of patients using the new service
	 b. Explore impact of Urgent Care and Walk-in centers on patient care I. Convene a meeting with providers to discuss continuity of care issue, primary care/medical care model, lack of preventative care, lots of doctors went concierge 	United Way of Milford, Milford Health Department, Milford Hospital	# of attendees at meeting

Priority Area 1: Acces	Priority Area 1: Access to Care, Continued			
Strategy	Action Steps	Partners	Short term indicator	
Increase number of young adults and adults who have a primary care provider or place in Greater New Haven, continued	Enhance transition of pediatric patients to adult providers to ensure continuity of care - Identify current practice at particular sites • Initial efforts within YNHH sites then expanding to others within the region - Develop best practice suggestions - Determine best mechanism to share best practice suggestions with providers for implementation	Yale New Haven Hospital Pediatric Clinics, Milford Hospital, Fair Haven Community Health Center, Cornell Scott-Hill Health Center, Planned Parenthood of Southern New England, Northeast Medical Group, Yale Medical Group, Community Medical Group, other area providers	# of process improvement initiatives implemented to assist pediatric patients transitioning to adult providers from particular sites	
Decrease the number of patients expressing difficulty in accessing health services due to the lack of nonemergency transportation	 a. Continue to research barriers and challenges and identifying solutions at an initial pilot site b. Consider co-location of services for ease of access c. Develop a directory of transportation services for seniors d. Explore modification of bus routes e. Explore need for expanded hours for transportation services (Cornell Scott Hill Health Center pilot site) 	Yale New Haven Hospital, Project Access- New Haven, Cornell Scott-Hill Health Center, Fair Haven Community Health Center, Planned Parenthood of Southern New England, Department of Social Services, 211, LogistiCare, other area providers	# of individuals expressing difficulty accessing healthcare services due to lack of nonemergency transportation obtained at a pilot site # of transportation enhancement ideas implemented	
Increase adults accessing dental care in Greater New Haven	 a. Promote awareness campaign on how dental and oral health is connected to wellness b. Advocate the need for increased and expanded insurance coverage for oral health 	Project Smile, CT Dental Health Partners, CT State Dental Association, New Haven Dental Association, School-Based Health Centers, Yale New Haven Hospital Dental Clinics, Health Departments and Health Districts, other area providers	Awareness campaign initiated in collaboration with dental providers and / or advocates	
Increase access to specialty care	Pilot the eConsult model at Fair Haven Community Health Center with Medicaid patients in specialty care (starting with Cardiology) Consults go through Epic from PCP and will be reviewed by Cardiology specialists	Project Access-New Haven, Fair Haven Community Health Center, other partners to be determined as pilot expands to other sites	# of eConsults	

Priority Area 2: Healthy Lifestyles Goal 1: Reduce the prevalence and burden of chronic disease through sustainable, evidence-based efforts Indicator 1: % of adults who rate their overall health as very good or excellent [2015 Baseline CTWS, 64%] Indicator 2: % of overweight adults in the community [2015 Baseline CTWS, 34%] Indicator 3: Smoking prevalence [2015 Baseline CTWS, 14%] **Action Steps Partners** Short term indicator Strategy Promote healthy eating a. Identify existing programs/resources to support Get Healthy CT, District Wellness Increase # of visits to Get healthy eating; update regional directory of in Greater New Haven Committee, NH Food Policy Council, New Healthy (GHCT) website resources on Get Healthy CT site Haven Health Department, East Shore Increase click through rate for electronic newsletter b. Utilize Get Healthy CT website, newsletter and District Health Department, Quinnipiack Facebook page to disseminate information and District Health Department, Milford Health # of outreach events share events Department, Yale New Haven Hospital, (health fairs, etc.) where c. Promote area food pantries and support healthy Milford Hospital, Cornell Scott-Hill Health GHCT information is Center, Central Connecticut Coast YMCA distributed donations d. Identify ways to support the New Haven Food # of outreach events and Elm City, Hamden / North Haven, **Policy Council** Soundview Family and Woodruff Family posted on GHCT website e. Distribute information on farmer's markets, YMCA locations, School-Based Health # of updates to online community gardens, summer meals and supper Centers, Faith-based organizations, healthy eating directory schools, Greater NH Chamber of Commerce for the region programs f. Work with local partners to promote Get Healthy Health Care Council, CT Academy of # of active members in CT healthy eating resources (schools, healthcare Nutrition and Dietetics, food pantries, City **PHGNH Healthy Lifestyles** providers, daycares, businesses) Seed, CT Food Bank, New Haven Food workgroup # of clinics/providers g. Identify ways to support the work of the New Systems Director, New Haven Board of Haven District Wellness Committee Education/Central Kitchen, New Haven accepting GHCT cards for h. Link Get Healthy CT website to local Farms, New Haven Land Trust, Common waiting area/office school/district websites & parent newsletters Ground High School, Northeast Medical # of new partners i. Explore a healthy restaurant initiative in Milford Group, Fair Haven Community Health distributing GHCT monthly and identify ways to reduce salt in menu items. Center, PTO/PTAs, Head Start, School resources Expand to other towns as appropriate Readiness Programs, Milford Recreation # of potential restaurants Department identified for a healthy restaurant initiative

Priority Area 2: Healthy Lifestyles, Continued			
Strategy	Action Steps	Partners	Short term indicator
Promote physical activity in Greater New Haven	 a. Identify existing programs and resources to support physical activity and update regional online directory of resources on Get Healthy CT website b. Focus on getting individuals mobilized and walking more and reducing screen time c. Create an access plan for classes/fitness centers to increase engagement d. Utilize Get Healthy CT website, newsletter and Facebook page to disseminate information and share events e. Work with local partners to promote Get Healthy CT physical activity resources (schools, healthcare providers, daycares, businesses) f. Continue to host annual signature event, Get Fit Day 	Get Healthy CT, New Haven Parks, Recreation and Trees, District Wellness Committee, Central Connecticut Coast YMCA (Elm City, Hamden / North Haven, Soundview Family and Woodruff Family YMCA) locations, New Haven Health Department, East Shore District Health Department, Quinnipiack District Health Department, Milford Health Department, Cornell Scott-Hill Health Center, Yale New Haven Hospital, Faith-based organizations, schools, Greater NH Chamber of Commerce Health Care Council, Fair Haven Community Health Center, PTO/PTAs, Head Start, School Readiness Programs, Milford Recreation Department	Increase # of visits to Get Healthy CT website Increase click through rate for electronic newsletter # of outreach events (health fairs, etc.) where Get Healthy CT information is distributed # of outreach events posted on Get Healthy CT website # of updates to online physical activity directory for the region # of resources created that focus on reducing screen time # of active members in PHGNH Healthy Lifestyles workgroup # of clinics/providers accepting Get Healthy CT cards for waiting area/office # of new partners distributing Get Healthy CT monthly resources

Priority Area 2: Healthy L	Priority Area 2: Healthy Lifestyles, Continued			
Strategy	Action Steps	Partners	Short term indicator	
Advocate for change to improve access to healthy food, physical activity and issues that impact healthy lifestyles	 a. Assist CT Academy of Nutrition and Dietetics with raising awareness of bills related to food access / security, food legislative issues (e.g. food label revisions), food programs, reimbursement for nutrition services when medical nutrition therapy is needed b. Utilize the coalition to support bills around Healthy Lifestyles (healthy school lunches, reimbursement for prevention programs, daycare fruit juice and activity policies) 	CT Academy of Nutrition and Dietetics, Get Healthy CT, District Wellness Committee, New Haven Parks, Recreation and Trees, NH Food Policy Council, New Haven Health Department, East Shore District Health Department, Quinnipiack District Health Department, Milford Health Department, Cornell Scott-Hill Health Center, Yale New Haven Hospital, Milford Hospital, Faithbased organizations, schools, Central Connecticut Coast YMCA and Elm City, Hamden / North Haven, Soundview Family and Woodruff Family YMCA locations, Greater NH Chamber of Commerce, Northeast Medical Group	# of Facebook posts shared to raise awareness through Get Healthy CT # of partners accepting to advocate for change	
Educate the community about the dangers of all forms of tobacco	 a. Develop and implement an online campaign to educate adults and children about the dangers of tobacco use including e-cigarettes b. Promote smoking cessation programs through Get Healthy CT website and community networks (businesses, faith-based organizations, healthcare providers, etc.) c. Advocate for legislation, policies, and ordinances that support tobacco-free spaces and increased age for tobacco sales 	Get Healthy CT, Tobacco-Free New Haven, New Haven Health Department, East Shore District Health Department, Quinnipiack District Health Department, Milford Health Department, Northeast Medical Group, New Haven Parks, Rec and Trees, Cornell Scott-Hill Health Center, Yale-New Haven Hospital, Milford Hospital, American Lung Association, Faith-based organizations, community-based organizations, Central Connecticut Coast YMCA and Elm City, Hamden / North Haven, Soundview Family and Woodruff Family YMCA locations, American Cancer Society, Fair Haven Community Health Center	# of municipal or local "Tobacco 21" laws initiated # of adults who tried to quit smoking # of new tobacco-free ordinances # of visits to smoking cessation resources on Get Healthy CT website # of Get Healthy CT resources focusing on the dangers of tobacco use	

Priority Area 2: Healthy Lifestyles – Asthma

Goal 2: Reduce the burden of asthma through sustainable, evidence-based efforts to improve care and promote better symptom control

Indicator 1: 5% decrease in age-adjusted rate of emergency department (ED) visits for which asthma was the primary diagnosis [town baselines from 2010-14 from DPH 2016 Surveillance Report Update]

Indicator 2: 5% decrease in the rate of ED visits and hospitalizations among children under age 5 for which asthma was the primary diagnosis [baseline to be established]

Indicator 3: ___ % decrease the age-adjusted rates of ED visits for minority patients for which asthma was the primary diagnosis [baseline to be established]

Strategy	Action Steps	Partners	Short term indicator
Promote and enhance evidence-based approaches for population-based asthma care that supports the medical home and communitywide efforts	Universal implementation of training in best practice medication / delivery system use in emergency department	Yale New Haven Hospital, New Haven Community Medical Group, Northeast Medical Group, Yale Pediatric and Internal Medicine, Region Six Health Departments / Districts	# primary care provides who were trained
	b. Universal follow up after emergency department visit with a warm handoff by emergency department	Yale New Haven Hospital, New Haven Community Medical Group, Northeast Medical Group, Yale Pediatric and Internal Medicine, Region Six Health Departments / Districts	# primary care provides who were trained
	c. Develop policies with area school districts mandating the use of Asthma Action Plans for medication authorization for asthma medications including data tracking mechanisms	Region Six School Districts, Region Six Health Departments / Districts, CT State Department of Education, CT Department of Public Health	% of students with Asthma Action Plans in school # of school districts with policies mandating use of AAPs
	d. Expand and enhance the network of regional practices with EPIC-interoperable Electronic Health Records.	Region Six Asthma Advisory Council, Yale New Haven Hospital, New Haven Community Medical Group, Northeast Medical Group, Cornell Scott-Hill Health Center, Fair Haven Community Health Center, other providers.	# of practices with EPIC- interoperable Electronic Health Records

Priority Area 2: Healthy L	Priority Area 2: Healthy Lifestyles – Asthma, Continued			
Strategy	Action Steps	Partners	Short term indicator	
Promote and enhance evidence-based approaches for population-based asthma care that supports the medical home and communitywide efforts (continued)	e. Obtain "Read Only" access to EPIC and enrollment in Epic Care Link for New Haven Public Schools health team and implement comprehensive asthma management strategy in schools	New Haven Health Department, New Haven Public Schools, Yale-New Haven Hospital	NHHD obtains EPIC access for NHPS students Training of staff on comprehensive care	
	f. Increase the rate of seasonal influenza immunization across all age groups by working with area health departments to promote and expand mass clinics (e.g. later in the season, employee wellness efforts, in-school options)	Region Six Asthma Advisory Council, Region Six Health Departments / Districts, School- Based Health Centers	# of mass clinics offered # of children immunized	
	g. Coordinate efforts among all parties including Access to Care workgroup to identify and enroll the uninsured or underinsured	Region Six Asthma Advisory Council (includes: Milford, Branford, North Branford, East Haven, Bethany, Hamden, North Haven, Woodbridge, Orange, Meriden, New Haven, West Haven, and Wallingford), Access Health CT, Healthier Greater New Haven Partnership	% of insured [2015 baseline CT Wellbeing Survey (CTWS) 95%]	
	h. Coordinate efforts among all parties including Access to Care Workgroup to affiliate people with a true medical home	Region Six Health Departments / Districts, New Haven Community Medical Group, Northeast Medical Group	% who have one person or place you think of as your personal doctor or health care provider [2015 baseline CTWS 86%]	

Priority Area 2: Healthy L	Priority Area 2: Healthy Lifestyles – Asthma, Continued			
Strategy	Action Steps	Partners	Short term indicator	
Promote financial support and reimbursement for evidence-based levels of	 a. Support coverage and reimbursement for NIH Expert Panel Report-3 guideline-based asthma care - Prescription medication Office-based asthma education 	Region Six Asthma Advisory Council, CT Department of Public Health, American Lung Association, CT Department of Social Services	Submission of cost- effectiveness report to DSS	
cost-effective asthma care and revise processes and policies that result in excess utilization of hospital services	b. Develop advocacy strategy that supports sustainable funding and referral processes for community-based asthma programs that address asthma self-management education and focused environment interventions that aligns with medical home initiatives	Region Six Asthma Advisory Council, Region Six Health Departments / Districts, Regional municipalities with Health Homes funding, New Haven Community Medical Group, CAIR, Putting on AIRS, Triggers Be Gone	# practices participating in / meeting benchmarks # referrals to and assessments by regional programs # home remediated	
	c. Undertake a study to analyze Emergency Department processes and policies that may account for high rates of hospitalizations and propose procedural and structural changes as appropriate	Yale New Haven Hospital, Yale School of Medicine, Yale School of Epidemiology and Public Health, Department of Public Health, CT Hospital Association, SIM Grant	Study developed and undertaken	
Identify additional measures/tables to add to the CT Asthma Surveillance Report to better understand	a. Review Report to identify additional measures such as data by municipality (e.g., children v. adult) and data by minority status in collaboration with CT Department of Public Health	Region Six Asthma Advisory Council, CT Department of Public Health, Region Six Health Departments / Districts, Region Six School Districts, Yale New Haven Hospital, Yale School of Medicine, Yale School of	# of measures/tables added to CT Asthma Surveillance Report	
disparities and other variables and seek to further align the CHIP with DPH's State Health Improvement Plan	b. Collaborate with DPH's Chronic Disease Action Team to align the State Health Improvement Plan (SHIP) and our own Community Health Improvement Plan (CHIP)	Epidemiology and Public Health, CT Hospital Association, DataHaven	Extent of realignment between the SHIP and CHIP efforts	

riority Area 2: Healthy Lifestyles – Asthma, Continued				
Strategy	Action Steps	Partners	Short term indicator	
Support New Haven City Transformation Plan's efforts to target areas identified with high concentrations of children with asthma	 a. Develop and implement summer camps that combine fun activities with positive normalization of asthma, peer support, and education on how to effectively manage symptoms and avoid triggers Develop summer camp curriculum and implementation plan Recruit city agencies or nonprofit organizations to host summer camps b. Inspect homes and educate caregivers to minimize environmental triggers like dust mites, mold, and smoke Develop organizational framework for identifying homes in asthma "hot spots" and for coordinating initiatives like CAiR and Health Homes 	City Transformation Plan's Community and Mental Health Workgroup New Haven Health Department	% of school-aged children with asthma attending summer camp % of children with asthma living in "hot spots" attending summer camp # of homes inspected and remediated for asthma triggers	

Priority Area 3: Mental Health and Substance Abuse					
Goal 1: All residents feel socially connected and emotionally supported					
Indicator 1: Decrease in total days (ED/Inpatient) after engagement with the Community Care Team (CCT) [2016 Baseline CCT Data] Indicator 2: % of adults who report often feeling down, depressed, or hopeless in the past month [2015 Baseline CTWS: 8%]					
Strategies	Action Steps	Partners	Short-term Indicator		
Continue to partner with the South Central Connecticut Consortium for Integrated HealthCare Improvement in order to enable greater coordination among local mental and health outcomes for patients with complex medical and/or behavioral health illnesses	 a. Support coordination and implementation of programs Behavioral Health Homes Community Care Team (CCT) b. Advocate and support legislative efforts c. Collaborate with regional organizations/agencies around behavioral and mental health issues 	South Central Consortium for Integrated Healthcare Improvement (Yale New Haven Health, Cornell Scott Hill Health Center, Fair Haven Community Health Center, Bridges, BHCare, Connecticut Mental Health Center) Beacon Health Options, Clifford Beers Clinic, Connecticut Hospital Association, Office of the Healthcare Advocate, other area providers	# of CCT clients # of health and wellness screening and evaluations completed # of Integrated Care Plans implemented for patients		
Support City of New Haven Transformation Community and Mental Health Workgroup Plan*	 a. Implement a screening tool to identify residents with stress, trauma, and distress Identify groups with disproportionate need to focus efforts Develop unified screening tool and process to disseminate Recruit agencies and programs to participate and share data on screening results 	City of New Haven Transformation Plan Community and Mental Health Workgroup	# of screenings per year (baseline: 50 new organizations, agencies, or clinics per year)		

Priority Area 3: Mental Health and Substance Abuse, Continued				
Strategies	Action Steps	Partners	Short-term Indicator	
Support City of New Haven Transformation Community and Mental Health Workgroup Plan, continued	 b. Train providers in trauma-informed practices that will help them better assist clients with trauma and mental health concerns Focus efforts on front-line workers dealing with groups disproportionately affected by trauma Train 100 mental health first aid providers with focus on youth workers, teachers, and health providers Convene citywide conference on trauma and its effects 	City of New Haven Transformation Plan Community and Mental Health Workgroup	# of trained mental health first aid providers per year (baseline: 50 per year)	
	 c. Build a comprehensive, whole-school system to support the social, emotional, and mental health of students and their families Implement screening and referral process at all New Haven public schools by 2020 Ensure access for hardest to reach children and families through enhanced outreach and peer-to-peer connections Create a community referral network to streamline access to essential services with public schools as the hubs 	City of New Haven Transformation Plan Community and Mental Health Workgroup	# of screenings and referrals per year (baseline: 0)	
Increase awareness of current substance use and mental health issues among youth to local providers	Provide information on current substance use and mental health trends among youth to local providers	Milford Prevention Council, Bridges, Milford Hospital, Milford Department of Health, United Way of Milford, Dr. Carlson	# of local providers who receive information	

8. APPENDIX A: HEALTHIER GREATER NEW HAVEN PARTNERSHIP MEMBERS

Providers

Clifford Beers Clinic

CommuniCare

CT Mental Health Center

Cornell Scott-Hill Health Center

Fair Haven Community Health Center

Milford Hospital

Northeast Medical Group

New Haven Community Medical Group

Planned Parenthood of Southern New England

Project Access- New Haven

School-Based Health Centers

Southern Central CT Consortium

Yale New Haven Health

Yale New Haven Hospital

Yale Medical Group

Yale Pediatric & Internal Medicine

Health Departments

East Shore District Health District

Guilford Health Department

Madison Health Department

Milford Health Department

New Haven Health Department

Quinnipiack Valley Health District

West Haven Health Department

Government

Housing Authority of New Haven

New Haven Community Services Administration

New Haven Parks, Recreation and Trees

Community-Based Organizations

Central CT Coast YMCA and Elm City, Hamden / North Haven Soundview Family and Woodruff Family YMCA Locations Common Ground High School

DataHaven

New Haven Family Alliance

New Haven Healthy Start

New Haven Land Trust

Advocacy Groups & Coalitions

American Cancer Society

American Lung Association

CAiR

Connecticut Hospital Association

CT Academy of Nutrition and Dietetics

New Haven Food Policy Council

Healthy West Haven Collaborative

Match Coalition

Milford Prevention Council

New Haven Dental Association

Project Smile CT

Putting on Airs

Region 6 Asthma Advisory Council

Tobacco-Free New Haven Coalition

Triggers Be Gone

Schools

New Haven Public Schools (District Wellness Committee)

Southern CT State University

Yale School of Medicine, Primary Care Residency Program

Yale School of Medicine, Scholars Program

Community Alliance for Research & Engagement (CARE) at the Yale School of Public Health

Social Services

Community Foundation for Greater New Haven United Way of Greater New Haven United Way of Milford

State Agencies

CT Dental Health Partners

CT Department of Corrections

CT Department of Public Health

CT Department of Social Services

CT State Department of Education

CT State Dental Association

Payers

Access Health CT Community Health Network

<u>Businesses</u>

Greater New Haven Chamber of Commerce LogistiCare

9. **APPENDIX B: 2015 NEW HAVEN HEALTH SURVEY FINDINGS**



2015 New Haven Health Survey

Updated Findings: April 2016

In Our Community

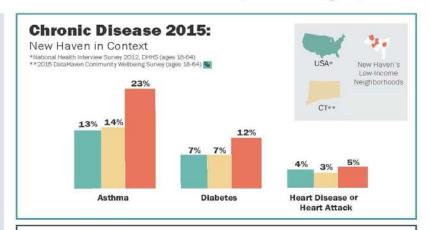
The Community Alliance for Research and Engagement (CARE), a partnership between the New Haven community and the Yale School of Public Health, is taking action against chronic diseases like diabetes, asthma, and heart and lung diseases that threaten the health of our city. Increasingly, communities are coming together to encourage healthier lifestyles as a way to tackle obesity and chronic diseases.

Every three years, CARE has conducted a survey to track neighborhood health. Following our 2009 and 2012 surveys, our third health survey was conducted in the fall of 2015 with 1,189 residents from six of New Haven's low-income neighborhoods: Dixwell, Fair Haven, Hill North, Newhallville, West River/Dwight, and West Rock/West Hills. Households were randomly selected (like flipping a coin) from a list of addresses. We hired and trained local residents to collect the surveys. Over all three time points, 70% of residents approached agreed to participate, answering questions about their health, diet, exercise, smoking habits, and neighborhood safety.

The 2015 findings reveal that we continue to face many challenges to health and well-being in New Haven's low-income neighborhoods. However, results show some improvements. We must leverage the power of our community to achieve bigger changes and better health.

Across Connecticut

CARE references DataHaven's
Community Wellbeing Survey in this
report, as denoted by this symbol: 1.
DataHaven conducted phone surveys
with more than 16,000 randomlyselected adults throughout Connecticut,
including 800 in the City of New Haven,
between April and October 2015.
Results are posted at ctdatahaven.org
The Wellbeing Survey was designed
in collaboration with many local and
statewide partners and draws upon
many of CARE's health questions for
comparison between local communities
and the state.

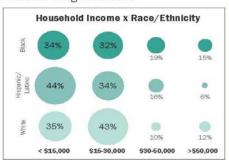


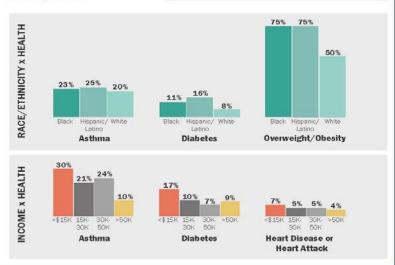
Health, Wealth and Race:

Impacts on New Haven's Low-Income Neighborhoods

In New Haven, residents are at higher risk for chronic disease and poorer health, compared to Connecticut and the US. In particular, rates of chronic disease are higher among those who are Black and Hispanic/Latino, as well as those living in extreme poverty (<\$15,000/year). They have worse health outcomes, such as higher rates of asthma, diabetes, heart disease, and overweight/obesity.

We must address economic inequity and basic needs – such as education, jobs, housing and food – among people of color who live in our low-income neighborhoods to improve our community's health.





Health Habits

Targeting long-term lifestyle changes – instead of quick-fix approaches – includes healthy eating and regular exercise. This is our best defense against chronic disease. We have more work to do as a community, but we are seeing positive changes among residents in New Haven's low-income neighborhoods.

EXERCISE + NUTRITION

To change and sustain healthy exercise and eating habits is challenging. We document some successes and some opportunities for improvement.



60% of residents meet the recommend-ed amount of exercise (≥150 minutes/week). This increased from 55% in 2009.



50% of residents made healthy changes to their diet in the past year.



16% of residents report that they do not drink any sugary beverages (soda, iced tea, sports drinks, etc).

Yet 59% reported drinking them 5 or more days per week. Of people who are drinking sugary beverages, 42% are having 3 or more beverages on those days.

We also need to eat more fruits and vegetables.



13% of residents meet the recommendation of 5 servings or more of fruits and vegetables per day.

UNHEALTHY WEIGHT

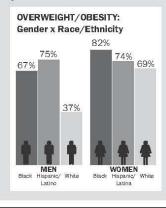
Doctors and health professionals classify weight through a measure called body mass index (BMI). BMI is calculated from height and weight. This standard measure is used to determine health risks. People who fall into the overweight or obese category are at higher risk for chronic disease.



69% of residents in New Haven's low-income neighborhoods are overweight or obese – a slight increase from

66% in 2012.

Rates are highest among Black women and Hispanic/Latino men, putting these residents at risk. We must target action among these groups to improve health.



Participant Characteristics

Survey participants are generally representative of the demographics of the six low-income neighborhoods in New Haven.

- 65% Women
- 60% Non-Hispanic Black; 22% Hispanic/Latino; 11% Non-Hispanic White; 6% Non-Hispanic Other/Multi-Race
 Age: 42 years (Average), 18-65 years (Range)
- Age: 42 years (Average), 18-65 years (Range
 33% household income of \$15,000 or less

Data by race/ethnicity are based on how residents identified themselves, broadly categorized as non-Hispanic white, Hispanic of any race, or non-Hispanic Black. Data were weighted (by age and gender) based on the 2010 US Census to provide better estimates for each neighborhood population.

TOBACCO

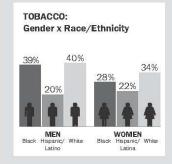
Cigarette smoking is the leading cause of preventable death in the United States, accounting for 1 out of 5 deaths (CDC)

Smoking is a serious concern in New Haven's low-income neighborhoods. 30% report daily smoking – almost double Connecticut's rate of 17%. 91
DAILY SMOKERS:

New Haven's Low-Income Neighborhoods

Connecticut

We see big differences in smoking when we look at race/ethnicity. Hispanic/Latino residents are less likely to smoke.



There is good news: 72% of daily smokers report wanting to quit and 48% have tried to quit within the past year. We must find more ways to support these smokers who are motivated to quit.

Vape: The New Tobacco Trend

Electronic cigarettes – also known as e-cigarettes or vape pens – are growing in popularity. Many see e-cigarettes as a better alternative because they are smokeless. However, they contain nicotine and other harmful chemicals.

Nearly 1 in 5 residents has tried e-cigarettes. This trend should be closely monitored.

Economic Health

Poor health is often associated with lower income, and survey results show that many residents are struggling financially.

FOOD SECURITY

Food insecurity is higher in New Haven's low-income neighborhoods, compared to the City of New Haven as a whole and the state.



35% of residents in New Haven's low-income neighborhoods report food insecurity – not having enough food or money to buy food. This is a slight decrease from 38% in 2012

50% of Hispanic/Latino residents are food insecure.



22% in the City of New Haven. 10% when not including the low-income neighborhoods.



12% in Connecticut. 9

UNEMPLOYMENT

The unemployment rate is drastically different in New Haven's low-income neighborhoods when compared to the City of New Haven as a whole and the state.



17% in New Haven's low-income neighborhoods.



11% in the City of New Haven. 5% when not including the lowincome neighborhoods.



7% in Connecticut.

Mental Health

Our overall well-being is affected by both our physical and mental health.

EMOTIONAL DISTRESS

We asked people about their emotional state in the prior four weeks. Results reveal profound distress in our community.



8% feel calm and peaceful a little or none of the time.



13% have little or no energy most of the time.



11% feel downhearted and blue a good bit, most or all of the time

28% report that in the prior 4 weeks emotional problems such as anxiety or depression interfered with their daily life.

As with physical health, mental health is worsened by the stress of living in poverty. Quality of life related to mental health was the lowest among those making less than \$15,000 a year.

As we work to address chronic disease, we must also address stress and depression.

HEALTH INCLIDANCE



94% of residents in New Haven's low-income neighborhoods have health insurance, up from 86% in 2012.

Of those insured, 35% receive coverage via the Affordable Care Act and Access Health CT.

Neighborhood Health

The conditions of our neighborhoods influence our health. Feelings of safety and safe streets and sidewalks affect our exercise options.

SAFETY

14% Feel unsafe walking in the daytime



55% Feel unsafe walking at night

Compared to three years ago, residents in New Haven's low-income neighborhoods feel safer in their neighborhoods. In 2012, 30% felt unsafe walking in their neighborhood during the day, and 66% felt unsafe walking in their neighborhood at night. These rates have dropped to 14% and 55%, respectively.



71% of residents strongly or somewhat agree that there are safe sidewalks and crosswalks in their neighborhood.



40% of residents report improvements in their neighborhood over the past three years that make it easier to lead a healthy lifestyle.

HOME OWNERSHIP





12% of residents in New Haven's low-income neighborhoods are home owners, compared to 58% of residents age 18-64 in Connecticut. 4

GUN VIOLENCE

Gun violence has just recently received enormous national attention. However, it is one of the most distressing issues that low-income, urban communities have been facing for years.

Survey results reveal the impact of its pervasiveness in New Haven's low-income neighborhoods. We must continue to find solutions to this deadly issue. Residents were asked about violence in their own neighborhood.



18% report a family member or close friend had been killed by violence.

29% report a family member or close friend had been hurt by violence.



73% have heard gun shots more than once; 19% have heard them weekly or more.

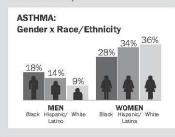
16% of residents have seen or were present when someone got shot

68% knew the person who was shot.

ASTHMA

The soaring asthma rate in New Haven's low-income neighborhoods is alarming. Asthma affects breathing, causing shortness of breath, chest tightness, wheezing, and coughing. Asthma is one of the leading causes of school and work absenteeism.

Rates have increased from 20% in 2009 to 23% in 2015. The asthma rate among Connecticut adults is 14% $^{\rm N}$, making New Haven's low-income neighborhoods among the highest in the state. In addition to the difference in asthma by race (page 1), the difference by gender is startling. Overall, asthma rates are twice as high for women (31% for women vs 15% for men).



Looking Forward

The challenges we face as a community loom large and seem insurmountable. Yet, New Haven is a vibrant city with enormous resources and dedicated citizens. CARE is committed to bringing these survey results back to the New Haven community – to our residents, elected officials, and other leaders. We hope to come together to use this information to create change. Innovative collaborations and transformative policies and programs are needed to address wealth and health among our most vulnerable populations.



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Acknowledgements

This report was written by Alycia Santilli MSW, Kathleen O'Connor Duffany PhD, and Jeannette lokovics PhD with support from Jennifer Mandelbaum and Lettia Charles of CARE at the Yale School of Public Health. Report designed by Meghan Lewis. Weighting conducted by Geliang Gan PhD, MPH and Denise Esserman PhD at Yale Center for Analytical Sciences. Funding support was provided by Yale-New Haven Hospital, the Donaghue Foundation, and the Yale-Griffin Research Prevention Center (Centers for Disease Control and Prevention, Department of Health and Human Services, Grant # 5U48DP005023). Report contents are solely the responsibility of the authors and do not necessarily represent views of the funders.



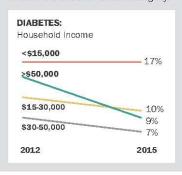




DIABETES

We have established the link between poverty and health in New Haven's lowincome neighborhoods. This plays out dramatically when we examine diabetes.

While diabetes overall has been decreasing, we see great inequity by household income. Among the highest income group, diabetes has decreased from 15% to 9% since 2012. Among residents in other income levels, diabetes remains the same or decreases slightly.



APPENDIX C: NEW HAVEN HEALTH SURVEY COMMUNITY FORUM REPORT



NEW HAVEN HEALTH SURVEY COMMUNITY FORUM REPORT

SATURDAY, MAY 7, 2016







The Community Alliance for Research and Engagement (CARE), was established in 2007 to identify solutions to health challenges through community action research. CARE's mission is to improve the health of New Haven residents. CARE, a partnership between the New Haven community and the Yale School of Public Health, is taking action against chronic diseases such as diabetes, asthma and heart and lung disease that threaten the health of our community.

Through a variety of community-based research projects, CARE has been taking the pulse of our city's health, including a neighborhood health survey conducted every three years. Our third survey was conducted in the fall of 2015 with 1,187 residents from six of New Haven's low-income neighborhoods: Dixwell, Fair Haven, Hill North, Newhallville, West River/Dwight and West Rock/West Hills. Residents answered questions about their health, diet, exercise, smoking habits, social support and neighborhood safety.

To build on the survey results and encourage neighborhood residents to take action in their community, CARE hosted a community forum on May 7, 2016. More than 100 people participated to learn more about health in their neighborhoods and to strategize ways to bring evidence to action. Following a brief presentation of survey results, participants split into breakout groups by neighborhood: Dixwell/Newhallville, Fair Haven, West River/Dwight, West Rock, and two citywide groups for people who live outside the city (e.g., staff from local community-based organizations). Break out group sessions were facilitated by Community Mediation. Each breakout group discussed survey results and priority issues. Participants were encouraged to brainstorm strategies to reduce health inequities in their neighborhood. They were invited to apply for a \$1500 grant from CARE to implement their proposals. To nurture creative thinking, major points made by each breakout group were illustrated by local artists.

Summaries of each discussion group and their recommendations are detailed in this report.

NEIGHBORHOOD BREAKOUT GROUPS SUMMARY

Dixwell and Newhallville

Dixwell and Newhallville residents were not surprised by the data that were presented, including the extreme levels of food insecurity and the lack of nutritious food choices. Residents were aware of the root causes of these conditions, such as low income and limited access to healthy food options. In Dixwell, residents highlighted safety and their desire to clean up the neighborhood. Likewise, Newhallville residents also would like to focus on improving the physical environment of the neighborhood. Newhallville residents also prioritized jobs, parent involvement with schools, youth centers, drugs/violence and obesity.



Strategies for Dixwell:

- Install speed bumps, e.g., near Dixwell Senior Housing, Orchard/Henry Streets, Gibb Street, and Sheffield Avenue
- Fix pot holes, e.g., by Henry, Orchard, and Goff Streets
- Clean up streets
- Plant flowers
- Sweep sidewalks
- Make absentee landlords more accountable
- · Increase city support, e.g., contact alders, join Mayor's Night Out

Strategies for Newhallville:

- Create a vegetable garden in the empty lot at Bassett & Newhallville
- Create a tree-trimming crew to remove potentially dangerous trees
- Repair sidewalks
- · Clean up and encourage residents to take pride in our neighborhood
- Organize block parties/cleanups
- Resurrect block watch with new name ("block watch" worries some residents)
- Educate residents about the laws
- Increase accountability from the city how are they using our taxes?
 - o Increase police presence
 - Enforce speed limits
 - Insist on street sweeping more often
- Have representatives at Mayor's Night Out
- Document conversations, then go in numbers to monthly management team meetings
- Explore ways to increase home-ownership vs. rentals

2016 CARE COMMUNITY FORUM REPORT





Fair Haven

Fair Haven has the highest Hispanic population out of the six low-income neighborhoods surveyed. The high proportion of food insecurity among residents (40%) was the most serious concern. They were also concerned about the high proportion of women with asthma in their neighborhood. Low rates of homeownership and issues related to absentee landlords were also discussed. Participants in the forum said that they felt safer in their own neighborhood than the survey results documented for residents overall. Finally, they expressed concern that there was no mention of drug use in the survey. They suggest a study related to this issue, given its impact on health and safety.

Residents believed that the data reinforced the difference between Fair Haven and other, more affluent. New Haven neighborhoods. They also felt, however, that they each offered a personal and unique perspective about life in Fair Haven, which influenced how they felt about their neighborhood, and which cannot be captured in a survey. Areas of focus for Fair Haven included a commitment to build a community center, increase transportation options, insure access to healthy and sufficient food, particularly for older adults, and improve mental health, and a strong desire to increase communication and strengthen relationships.

Strategies for Fair Haven:

- Create a "universal" community space where residents can convene together for neighborhood events
- Raise funding to leverage use of existing space that is currently under-utilized (e.g., schools; pay utility bill or monthly fee)
- Create more open access and user-friendly community gardens
- Allow youth to have more say in community activities and expenditure of local resources
- Increase communication
 - Identify institutions in the neighborhood for buy-in on information dissemination and support such as the libraries, clinics and churches
 - o Create an information desk staffed with volunteers
 - Hire people to go door-to-door with health information
 - o Create a neighborhood resource guide
 - Utilize billboards/multiple types of communication
 - Create a programmed electronic display board, strategically located in the neighborhood

¹ Drug use was not explored in the 2015 survey. Given that drug use is illegal, we decided this was not the appropriate survey for these sensitive questions.

West River/Dwight

West River/Dwight residents were impressed by how well the data matched their own concerns. They were especially concerned by the data on violence in their neighborhood. They were alarmed by the number of people directly affected by gun violence, including the 1 in 5 who knew someone who had been killed by gun violence. Residents were not surprised by the high rates of chronic disease and the high burden of asthma and obesity, especially given the cost of healthy options. However, they expected the rates of certain diseases, such as obesity and diabetes, to be higher. Residents have been very active in their own community organizing efforts to improve health, and wanted to continue to strengthen their efforts by increasing access to healthy food options, empowering youth and improving safety.





Strategies for West River/Dwight:

- Focus on what has been accomplished in our neighborhood create resources in communities and continue to do what works
- Increase accessibility to healthy foods farmer's markets, corner stores and more
- Empower youth and improve lives of young people through mentoring
- Build a sense of social responsibility among young people and include them in neighborhood organizing
- Job training and expose young people to alternative careers (e.g., some interest in horse camps)
- Create a forum for sharing human resource and talent volunteers with energy and commitment
- · Provide more opportunities for daycare, afterschool programs and summer camp
- Address safety issues police, drugs, violence, bike lanes, safe spaces to do healthy activities
- Address high traffic areas (e.g., Route 34) safer streets, less pollution (parking garages/emissions)
- Partner with other individuals and institutions external to the community to identify additional financial and other resources
- · Work together to develop long term solutions

2016 CARE COMMUNITY FORUM REPORT

West Rock

West Rock residents were surprised by the high rates of cancer and asthma in their neighborhood. The breast cancer rate is higher in New Haven than nationwide, and many residents did not realize that asthma was such as problem in New Haven. West Rock is one of New Haven's most isolated neighborhoods, with limited access to resources like stores and restaurants. West Rock residents focused their strategies on community cohesion, connection and communications (accessibility of information). They focused using and leveraging on many resources available to New Haven residents like community meetings, reaching out to alders, and using See, Click, Fix.



Strategies for West Rock:

- · Create a West Rock Community Center or recreation center to offer activities
- · Develop classes for exercise, cooking, diabetes education, etc.
- Encourage management team communicate more effectively with residents, and have residents get more involved with the management team
- · Get together with neighbors
- · Put up community bulletin boards/kiosks
- · Create telephone trees/email chains
- Send emails to alderpersons
- Use See Click Fix
- Insist on greater police presence
- Host more activities in Edgewood Park a great local asset
- Develop walking trails in the park and create signage and lighting to enhance the quality
- Walk to activities with a child and form walking groups with specific times to view sights, architecture, gardens





2016 CARE COMMUNITY FORUM REPORT

Citywide Groups

Participants in the citywide group were most surprised by social issues rather than the rates of health conditions presented in the report. In particular, they discussed the low income levels – especially people living at or below \$15,000 – unemployment, and wages; safe and clean housing. They also discussed the percentage of people afraid to go out in the daytime, food insecurity and lack of SNAP availability, children's issues, and the rate of asthma in women. They expressed concern about the percentage of people who have witnessed gun violence and the



health effects of being safe and comfortable in your neighborhood. The lack of trust survey participants felt with their neighbors was also concerning. Participants in this group were not surprised by the lack of food options, locations, and store prices.

Based on the findings of the neighborhood report, participants suggested focusing on access to better food/nutrition, education about and awareness of healthy food, food insecurity and lack of healthy and nutritious options. They identified these as ways to help offset the increasing rates of chronic disease. Additionally, they saw children not being outside as a problem, caused by lack of places, no one to play with, electronics, and lack of funding. Participants also focused on city planning and raising productivity and awareness through pamphlets and the website. They strategized about safety, asset-mounting, and social cohesion. The next steps identified by this group include neighborhood walks, sessions with nutritionists/chefs, community gardens, and a prayer garden at Thomas Chapel.

Citywide Strategies

- · Establish a city health fund endowment
- Provide education and awareness; community health, healthy cooking, and exercise programs (e.g., evening classes at Cornell Hill Health Center);
- · Use technology to get information out; put resources online
- · Use neighborhood apps and social networks
- · Connect to churches
- Keep general neighborhood messages (email, phone, etc.) short & precise
- · Hold community-based meetings (e.g., dinners, block parties)
- Assess food pantries and educating about types of foods given to customers
- · Provide healthy alternatives in each store aisle
- Engage the community in a way that fosters trust and respect
- Encourage greater engagement from political leaders, including local leaders
- · Conduct a deeper analysis of specific neighborhood needs
- Enforce smoking policies and making smoking cessation resources more available

2016 CARE COMMUNITY FORUM REPORT

Conclusion

As David Brooks of the New York Times recently wrote, "A society of empowered local neighborhood organizations is a learning society. Experiments happen and information about how to solve problems flows from the bottom up."

Mayor Harp closed out the day with inspiring remarks, encouraging resident involvement in their neighborhoods to help solve these complex health problems. She expressed her own commitment to building the healthiest city and called upon the group to join her in action.

This community forum brought together more than 100 individuals from throughout New Haven and the greater New Haven area. Participants engaged in thought-provoking conversations about the findings of CARE and



DataHaven's surveys, the recent successes and areas for improvement, and the myriad ways to improve neighborhood health. By including city residents and staff from local organizations, the forum aimed to bring together people who knew their neighborhood and were best able to identify potential approaches to improve it. Over the summer, CARE will award several \$1500 mini-grants to support neighborhood projects identified during the forum. We look forward to seeing how residents bring evidence to action in their own communities!

Acknowledgements

We are grateful to our funders: The Donaghue Foundation, Yale-New Haven Hospital, and the Centers for Disease Control and Prevention/Yale-Griffin Prevention Research Center. Special thanks to the staff at ConnCAT for hosting us at their wonderful space. Thanks to our community partners: Mark Abraham at DataHaven, Tennille Murphy of KidzKook, and Tyra Pendergrass at play2PREVENT. And, lastly, big thanks to the staff, artists, and facilitators who made the day a great success!

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2016 CARE COMMUNITY FORUM REPORT

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