By the
Healthier Greater New Haven Partnership

This document is a special section of the Greater New Haven Community Index 2019, a core program of DataHaven (ctdatahaven.org), in partnership with The Community Foundation for Greater New Haven and a Community Health Needs Assessment for 13 cities and towns served by Yale New Haven Hospital.
ABOUT THIS REPORT

This document is a special section of the Greater New Haven Community Index 2019, 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.

This document serves as the 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 (inner ring: East Haven, Hamden, West Haven; outer ring: Bethany, Branford, Guilford, Madison, Milford, North Branford, North Haven, Orange, and Woodbridge).

The Community Health Needs Assessment documents the process that the 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 section (Appendix A), or posted on the DataHaven, Community Foundation for Greater New Haven, Yale New Haven 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 on July 10, 2019.
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1. EXECUTIVE SUMMARY

INTRODUCTION

Understanding the current health status of a community is a necessary first step towards identifying priorities for future planning and funding, 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, 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 B, 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 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 January 2018 – April 2019. During this process, the following goals were achieved: the current health status of the Greater New Haven region was examined and compared to state indicators and goals; current health priorities among residents and key stakeholders were explored; and community strengths, resources, and gaps were identified in order to assist the coalitions and community partners in establishing top health priorities as well as programming and implementation strategies to achieve these 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 fulfills the involved hospitals to comply with Internal Revenue Service regulations for charitable hospitals 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. This larger framework of the social determinants of health 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 2018 DataHaven Community Wellbeing Survey, hired Health Equity Solutions to conduct community conversations in the Greater New Haven Region, worked with the Yale School of Public Health Student Consulting Group to conduct and later analyze Key Informant Surveys, and a student Practicum Team also from the Yale School of Public Health to identify community resources.
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: Healthy Lifestyles, Access to Care and Behavioral Health. These focus areas will be addressed through a Social Determinants of Health lens.

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 ethnicity have an impact on people’s health, the distribution of these characteristics across a community is also critically important and can influence the type of services and resources available.

- **Population.** The Greater New Haven Region has a population of about 470,000.
- **Age Distribution.** Overall, the median age in Greater New Haven (39.3) is slightly younger than that of the state (40.8), but substantially older than that of the U.S. (37.8). Compared to the region overall, the median age of residents in the city and inner ring towns is younger, while the median age of residents in the outer ring towns is much older (46.6 years).
- **Racial and Ethnic Diversity.** The towns in the region vary dramatically in terms of their racial and ethnic composition, but are all growing more diverse. From 1990 to 2017, the population of the city of New Haven consisting of people of color (i.e., of a race/ethnicity other than white) increased from 51% to 70%. During that time, the population of color tripled (to 41% today) in the Inner Ring towns, and increased from 4% to 14% in the Outer Ring towns. Children are far more diverse; currently, over 55% of Greater New Haven’s children age 0-4 are non-white.

Social and Physical Environment
Income, poverty, and educational attainment 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.** In 2017, there were wide gaps in median household income, ranging from $39,000 in New Haven to $138,000 in Woodbridge. In New Haven, 62% of children live in low-income families, compared to 10% of children in Woodbridge. The 2019 Community Index shows that income gaps have continued to widen over time.
- **Educational Attainment.** In 2014, the proportion of residents in the Greater New Haven Region with a college degree or higher (40%) was greater than that of the state overall (38%). Only 33% of Inner Ring town adults had a college degree or higher, compared to 48% of Outer Ring town adults. Overall, the region has a high level of educational attainment, as 28,000 adults (9%) do not have a high school degree, while 62,000 (19%) have a master’s degree or higher; these rates are significantly better than the U.S. averages of 13% and 12%, respectively.
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 2019 Greater New Haven Community Index as well as later in this document. These include:

- **Self-Reported Health Status.** Self-reported health status, which is a powerful predictor of future disability, hospitalization, and mortality, was similar in the Greater New Haven Region to Connecticut overall. Income and education levels are highly correlated to self-reported health status.

- **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 in the 2018 DataHaven Community Wellbeing Survey, which conducted live, in-depth interviews with over 2,000 randomly-selected adults in the region. Responses from the New Haven area were similar to responses statewide; however, responses appeared to be stratified by income with higher income households being more positive about quality of society than lower income households.

- **Financial Stress.** The DataHaven survey contains many markers of financial stress, many of which are directly related to income levels and also correlate with health status. Across the board, positive levels of markers of financial stability — food security, housing security, transportation access and financial comfort — are significantly higher in wealthier areas.

- **Health Priorities**
  - **Healthy Lifestyles.** Obesity rates are rising in Connecticut with 29% of adults classified as obese in 2018, a dramatic increase from about 11% in 1990. Greater New Haven adults are about as likely to be obese as Connecticut adults. Additionally, smoking prevalence rates in Connecticut have decreased since 2000 and were at 14% in 2018. Rates in the New Haven region are higher than the state at 16% regionally, but range from 12% in Outer Ring towns to 19% in East Haven and New Haven. The rate at which adults currently use e-cigarettes in Greater New Haven (10%) is also a bit higher than the statewide average (8%). There are also concerns regarding food insecurity and financial stress among residents with limited income. Food insecurity impacts an estimated 21% of New Haven adults and 6% of adults in the Outer Ring, compared to 13% of all adults in the state of Connecticut.

  - **Access to Care.** Financial stress and lower socioeconomic status may also cause challenges related to access to medical care. Within Greater New Haven, the percent of adults who said they didn’t get the medical care they needed in the past year was 9%, and the percent who postponed care they needed was 22%. Although the vast majority of residents in the region have health insurance now when compared to rates prior to the Affordable Care Act, it was discussed in focus groups that the type of insurance a person had was tied to issues around access to care and quality of care.

  - **Behavioral Health.** Data from the DataHaven Community Wellbeing Survey, focus groups of local residents, and other sources support the inclusion of this focus area. A survey question about life chances for youth found that 27% of Greater New Haven adults and 44% of city of New Haven adults felt that it was very likely or almost certain that young people growing up in their neighborhood would abuse drugs or alcohol. The survey also finds that a person’s reported level of happiness and anxiety are strongly correlated to income and education.

Complete findings are covered in the DataHaven Greater New Haven Community Index and additional detailed data by town are available on the DataHaven website.
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 one hospital, five actively participating departments or districts of public health, two federally qualified health centers, and numerous community and non-profit organizations serving the Greater New Haven region of Connecticut – led a comprehensive regional Community Health Needs Assessment (CHNA) effort. This effort was comprised of two main elements:

- **Assessment** – identified the health-related needs in the Greater New Haven area using primary and secondary data.
- **Implementation Plan** – determined and prioritized 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 CHNA conducted from January 2018 – April 2019. The coalition adopted the Association for Community Health Improvement’s (ACHI) Community Health Assessment Framework (Figure 1) to guide the CHNA and to ensure that it fulfills the hospitals’ Internal Revenue Service requirements and those of the local health departments pursuing voluntary accreditation through the Public Health Accreditation Board.
Figure 1: Association for Community Health Improvement Community Health Assessment Process

Step 1: Reflect and Strategize
Step 2: Identify and Engage Stakeholders
Step 3: Define the Community
Step 4: Collect and Analyze Data
Step 5: Prioritize Community Health Issues
Step 6: Document and Communicate Results
Step 7: Plan Implementation Strategies
Step 8: Implement Strategies
Step 9: Evaluate Progress
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, New Haven Health Department, East Shore District Health Department, Quinnipiac 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 Southern Connecticut State University and the Yale School of Public Health (see Appendix B for a full list of organizational members). The organizations are representative of those in the community who serve underserved, low-income, and hard to reach populations. Representatives from these organizations provide regular input as part of the Community Health Needs Assessment and Community Health Improvement Plan implementation process by routinely attending monthly coalition meetings, providing feedback and guidance at each stage of the CHNA process, identifying specific populations for community conversations, responding to key informant surveys, attending community forums and prioritization sessions, and by being valued community partners.

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 comprehensive data collection effort of the Community Health Needs Assessment engaged the community in community conversations, key informant surveys, and the DataHaven Community Wellbeing Survey. Dissemination of the CHNA findings and subsequent CHIP priorities and strategies, in an effort to raise public awareness, will continue to be conducted via media coverage 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;
3. To meet the legal requirements, as stipulated by the Internal Revenue Service, of Yale New Haven 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 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, the “inner ring” towns of East Haven, Hamden, and West Haven, and the “outer ring” towns of Bethany, Branford, Guilford, Madison, Milford, North Branford, North Haven, Orange, and Woodbridge (Figure 2). These communities are served by Yale New Haven Hospital representing at least 75% of total discharges 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
3. METHODS

The following section describes the process and methods used to conduct the Community Health Needs Assessment, including the 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 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 when examining health status. That is to say, health outcomes are influenced by more than just an individual’s genetic code; in fact, zip code is more predictive as it is associated with 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, by examining factors not traditionally considered in medicine’s relatively narrow view of health.

The following diagram provides a visual representation of this relationship, demonstrating how individual lifestyle factors, which are most proximate to health outcomes, are influenced by more upstream factors such as education, literacy, and physical environments (Figure 3). This report, as well as the 2019 Greater New Haven Community Index, provide information on many of these factors and review key health outcomes.
Figure 3: 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, including the 2016 Community Health Needs Assessment and resulting Community Health Improvement Plan which has guided the Healthier Greater New Haven Partnership over the past three years. In addition, the Community Health Needs Assessment utilizes secondary data from sources 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 include vital statistics based on birth and death records. Analyses of these extensive community health data sources are compiled in DataHaven’s 2019 Greater New Haven Community Index, which is appended to this document.

   b) 2018 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 2018 DataHaven Community Wellbeing Survey. The DataHaven Community Wellbeing Survey team assisted the Healthier Greater New Haven Partnership to gather quantitative primary data that were not provided by secondary sources and to understand public perceptions around health, including social determinants, and other issues. The DataHaven Community Wellbeing Survey was conducted from March to November 2018 by the Siena College Research Institute. It was administered to randomly-selected landlines and cell phones and resulted in in-depth interviews with 16,043 adults statewide including 2,367 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 the Partnership. Interviews were weighted to be statistically representative of adults in each city, town, or geographic 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 2019 Greater New Haven Community Index. Detailed public data by town are also available in crosstabs on the DataHaven website (https://ctdatahaven.org/reports/datahaven-community-wellbeing-survey).

2. Qualitative Data
   a) Community Conversations
   In February, March, and April 2019, six community conversations engaging 73 individuals were conducted by Health Equity Solutions in the Greater New Haven region. The goals of the community conversations were to determine residents’ 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 Healthier Greater New Haven Partnership (HGNHP), groups having a disproportionate burden of health issues were identified (i.e., lower-income adults, uninsured residents, and people with limited English proficiency or Latino adults) as a priority to include in the community conversations. HGNHP members identified specific groups and/or organizations that fulfilled these criteria, and Health Equity Solutions organized and facilitated the following groups: residents engaged with behavioral health services, seniors, communities served by regional health districts, and urban health leaders.
In addition, Health Equity Solutions maintained efforts to include a geographical sample of residents from the 13 towns and cities that make up the Greater New Haven CHNA region.

b) Key Informant Surveys
The Community Health Needs Assessment was initiated in 2018 with the online key informant survey administered and analyzed by the Yale School of Public Health Student Consulting Group. The online survey was administered to two groups, consisting of community leaders and health and human service providers, in the Greater New Haven area using Qualtrics, an online survey tool. Members of the coalition identified 172 key informants between the two groups and had a 27% response rate overall. The Health and Human Services group included hospital administrators, state and local health department staff, physicians, nurses, and social service agency leaders. The Government and Community Leaders group included state and local elected officials, members of local police and fire departments, library directors, clergy, and other government agency heads. Surveys were designed to better understand the health needs of the Greater New Haven region and included qualitative and quantitative questions on community health initiatives, health related problems, barriers to good health, health services, and current outlooks.

3. Analyses
The secondary data and primary data from the 2018 Community Wellbeing Survey, community conversations, 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 community conversations 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. Greater New Haven Community Index 2019

This section highlights key findings from the CHNA review of primary and secondary data sources. Please note that notes, chart and graphical presentations, data sources, and further discussion of the primary and secondary data sources discussed below are be found in the DataHaven Greater New Haven Community Index 2019.

Overall Quality of Life and Economic Measures

The DataHaven Community Index includes a blend of indicators that illustrate the physical and social environments in which people live. Overall findings show that Greater New Haven scores well against US metros—certainly among the top one third nationally—but outcomes vary widely by race and ethnicity. Asian and white residents are generally more advantaged than Black and Latino residents. The indicator with the highest degree of racial inequality is young children in poverty. The Community Index score predicts neighborhood-level life expectancy (discussed below) with a very high degree of accuracy.

Financial security measures vary widely across the area, as shown in the table below.
### Table 2F
**Financial insecurity**
**SHARE OF ADULTS, GREATER NEW HAVEN, 2018**

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<th>LOCATION</th>
<th>JUST GETTING BY</th>
<th>LESS THAN 2 MO SAVINGS</th>
<th>NEGATIVE NET WORTH</th>
<th>FOOD INSECURE</th>
<th>UTILITY SHUTOFF THREAT</th>
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**BY DEMOGRAPHIC WITHIN GREATER NEW HAVEN**

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<td>9%</td>
<td>8%</td>
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**BY GEOGRAPHY**

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<th>Geography</th>
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<tbody>
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<td>19%</td>
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<tr>
<td>Hamden</td>
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<td>12%</td>
<td>10%</td>
<td>18%</td>
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<td>West Haven</td>
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<tr>
<td>Outer Ring</td>
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<td>9%</td>
<td>6%</td>
<td>4%</td>
<td>6%</td>
<td>5%</td>
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<tr>
<td>Milford</td>
<td>32%</td>
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<td>14%</td>
<td>9%</td>
<td>7%</td>
<td>7%</td>
<td>5%</td>
</tr>
</tbody>
</table>

**Source:** DataHaven Greater New Haven Community Index 2019 (ctdatahaven.org)

Additional demographic and economic findings for the general area include:

- The total population of Greater New Haven’s 13 towns and cities is 465,633, including 93,991 children. Nearly two-thirds of the population lives in just four municipalities, however. The city of New Haven is the second-most populous municipality in the state with 130,884 residents, including 28,955 children, while Hamden, Milford, and West Haven are among the 20 largest municipalities in the state with over 50,000 residents each.
• In 2017, 38 percent of Greater New Haven residents identified as racial or ethnic minorities (non-Hispanic white) compared to just 21 percent in 1990—an increase of more than 85,000 individuals. In other words, the non-white population in the region nearly doubled to over 175,000 people between 1990 and 2017. This trend of increasing diversity has been occurring across Connecticut; statewide, the share of non-white population increased from 16 percent in 1990 to 31 percent in 2017. However, not all towns are diversifying at similar speeds and magnitudes. During the same time period, the non-white population share in Greater New Haven’s Outer Ring increased from 4 percent to 14 percent. New Haven’s Inner Ring—already about as diverse in 1990 as the Outer Ring in 2017—continued to see a high rate of non-white population growth, with a share of non-white population of 41 percent in 2017. Non-white populations are most concentrated in Connecticut’s urban cores, and this holds true for Greater New Haven; in 2017, about 70 percent of the city’s population consisted of people of color—up from 51 percent in 1990.

• Greater New Haven’s diverse population includes a substantial and growing immigrant community. Between 1990 and 2017, the number of immigrants residing in Greater New Haven more than doubled, increasing by 29,617 individuals or 101 percent. By 2017, 13 percent of the region’s residents, or 58,847 individuals, were foreign-born—a share similar to Connecticut overall (14 percent).

• After English and Spanish, Italian, Chinese, French, Polish, and Arabic are the most commonly spoken languages in the region—Italian being particularly common in Greater New Haven compared to other areas of the state. Seven percent of Greater New Haven residents ages five and older struggle with English proficiency, meaning they report speaking English less than very well; this is similar to the state rate of 8 percent.

• Regional commuter rail connections, bus services, and walking or biking provide options for some workers, especially those whose employers tend to be located in city centers. However, most residents rely on a car to access the greatest number of available jobs within a reasonable commuting distance, as well as to access necessary services such as shopping and health care. Results from the 2018 DataHaven Community Wellbeing Survey indicate that 14 percent of Greater New Haven’s adults do not have access to a car when they need it. In the region, 46 percent of adults who earn less than $15,000 per year and 26 percent who earn between $15,000 and $30,000 do not have access to a car when needed. As detailed in a 2014 report, How Transportation Problems Keep People Out of the Workforce in Greater New Haven, these adults also face much higher levels of under-employment. Additionally, about half of adults who face transportation insecurity also report that they have missed a doctor’s appointment in the past year due to lack of reliable transportation. Digging deeper, there is a strong link between car access and race/ethnicity. While only 10 percent of white residents do not have access to a car when they need it, 21 percent of Black residents and 26 percent of Latino residents face this issue.

• In 2017, 6,529 children, or 64 percent of the region’s three and four-year-olds were enrolled in preschool, with about 2,700 children in public preschool. The combined capacity of childcare providers in Greater New Haven represented only about 18 percent of the region’s total infant and toddler population, indicating a shortage in early care options. Preschool enrollment is significantly higher in the outer ring, and in wealthier neighborhoods within the city of New Haven, when compared to the region as a whole. According to the United Way ALICE Project, the minimum monthly childcare cost for a young family—a household with two adults, one infant, and one preschooler—is about $1,718 total in Greater New Haven.
More than half a million children attended public school during the 2018–19 school year in Connecticut. Greater New Haven is home to 59,517 public school students from pre-kindergarten to 12th grade. Like Connecticut as a whole, Greater New Haven experiences large achievement gaps across multiple dimensions of educational outcomes including reading test scores and high school graduation rates.

While three out of four high school graduates in the area enroll in college within a year of graduating, less than half of the public high school graduates in Greater New Haven have a college degree six years after high school.

Chronic absenteeism is defined as a student missing at least 10 percent of the days during the year in which they are enrolled for any reason. In the 2017–18 school year, 13 percent of students in Greater New Haven were chronically absent from school. This rate included 8 percent of white students, 20 percent of Black students, 18 percent of Latino students, and 9 percent of students of other races in the region.

In Greater New Haven public schools, Black students are disciplined at a rate 3 times greater than white students and special education students are disciplined almost 2 times as often as students who are not in special education.

Access to Community Resources
Perceptions of access to and quality of community resources also vary widely in the region. Large differences by geography and socioeconomic status are seen for questions about the responsiveness of local government, the condition of public parks and recreational facilities, and the availability of affordable, high-quality fruits and vegetables, whereas access to other types of resources (such as sidewalks and bicycle lanes) is more varied. More detail is shown in the table below.
Health outcomes

Prominent findings related to health outcomes in the region include:

- Overall, Greater New Haven is healthy by national and state standards. However, 76 percent of adults earning $200,000 or more per year report being in good health, compared to just 42 percent of adults who earn less than $30,000 per year.

- While Greater New Haven’s average life expectancy of 79.8 years is relatively high by U.S. standards, it masks a dramatic difference in life expectancy within the region. In some neighborhoods, life expectancy is as low as 71 years—15 years lower than that of the neighborhood with the highest life expectancy (86 years). Town-wide averages range from a maximum of 83.5 years in Orange to a minimum of 77.9 years in West Haven and 78.2 years in New Haven, a difference of more than 5 years.
• Geographic discrepancies in the rates at which Greater New Haven residents visit hospitals and emergency rooms appear to be growing.
• The opioid overdose crisis has accelerated in recent years, with a doubling in the rate of overdose deaths. The average age at death is around 40, indicating a massive loss of human potential – now similar to the impact of heart disease, infant mortality, and cancer in terms of years lost from premature deaths.

Hospital encounters show concerns related to access to care, cardiovascular disease, substance use
As shown in the chart below from DataHaven’s analysis of CHIME data, rates of hospital and emergency room encounters among city of New Haven residents appear to be far higher than the state (CT Aggregate) across many conditions. In terms of volume, cardiovascular, mental health, and fall-related injuries are among most the common encounter conditions (note large change in scale between the two graphs below).

**Annualized age-adjusted encounter rates per 10,000 residents**
New Haven and Connecticut, 2015-2017

Source: DataHaven
Chronic disease risk factors vary within the region

In Connecticut, nearly 1 in 3 adults have a body mass index that classifies them as obese. Obesity rates have increased dramatically throughout Connecticut since 1990, when they were estimated to be only 10 percent. These rates are continuing to rise. Between 2015 and 2018, the prevalence of obesity among Greater New Haven’s adults rose from 29 percent to 30 percent—in line with the trend observed statewide, where obesity rates rose from 26 percent in 2015 to 29 percent in 2018 according to the DataHaven Community Wellbeing Survey, and from 25 percent in 2015 to 27 percent in 2017 according to the Behavioral Risk Factor Surveillance System. Despite major reductions in cigarette smoking rates over the past several decades, there is still room for significant progress in this area. Greater shares of adults smoke cigarettes in Greater New Haven (16 percent) than in the state overall (14 percent), but the region’s smoking rate increased slightly between 2015 and 2018 and is still high among residents earning less than $50,000 per year and within certain towns. As of 2018, 19 percent of the region’s adults between the ages of 18 and 34 currently smoke cigarettes, while 18 percent of adults ages 35 to 49 smoke. Meanwhile, vaping is becoming more common, particularly among young adults. In 2018, 10 percent of adults in Greater New Haven reported using e-cigarettes or vaping more than once a month, slightly above the statewide rate of 8 percent; among adults age 18 to 34, 36 percent had tried e-cigarettes as of 2018. Some in the region also struggle with alcohol, marijuana, and opioid use disorders. In 2018, 8 percent of adults said they had more than four drinks (for women) or five drinks (for men) at occasions at least 6 times in the past month, and 8 percent of adults—including 14 percent of adults between the ages of 18 and 34—used marijuana more than 10 times during any given month.

The chart below illustrates how risk factors for chronic diseases may vary widely by age, race/ethnicity, income level, and geography.
## Table 3G

### Health risk factors

**SHARE OF ADULTS WITH WELL-BEING AND CHRONIC DISEASE RISK FACTORS, GREATER NEW HAVEN, 2018**

<table>
<thead>
<tr>
<th>Location</th>
<th>VERY GOOD SELF-RATED HEALTH</th>
<th>ANXIETY</th>
<th>DIABETES</th>
<th>CURRENT ASTHMA</th>
<th>OBESITY</th>
<th>HAS HEALTH INSURANCE</th>
<th>DENTAL PESTLE</th>
<th>DEPRESSION</th>
<th>SMOKING</th>
<th>INSECURITY</th>
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</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>68%</td>
<td>14%</td>
<td>10%</td>
<td>11%</td>
<td>29%</td>
<td>85%</td>
<td>74%</td>
<td>9%</td>
<td>14%</td>
<td>13%</td>
</tr>
<tr>
<td>GNH</td>
<td>68%</td>
<td>14%</td>
<td>9%</td>
<td>11%</td>
<td>30%</td>
<td>85%</td>
<td>72%</td>
<td>11%</td>
<td>16%</td>
<td>13%</td>
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</table>

### By Demographic Within Greater New Haven

<table>
<thead>
<tr>
<th>Demographic</th>
<th>VERY GOOD SELF-RATED HEALTH</th>
<th>ANXIETY</th>
<th>DIABETES</th>
<th>CURRENT ASTHMA</th>
<th>OBESITY</th>
<th>HAS HEALTH INSURANCE</th>
<th>DENTAL PESTLE</th>
<th>DEPRESSION</th>
<th>SMOKING</th>
<th>INSECURITY</th>
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<tbody>
<tr>
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<td>9%</td>
<td>31%</td>
<td>83%</td>
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<td>11%</td>
<td>17%</td>
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<tr>
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<td>21%</td>
<td>16%</td>
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<td>56%</td>
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<td>71%</td>
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<td>4%</td>
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<td>28%</td>
<td>98%</td>
<td>87%</td>
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### By Geography

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<th>VERY GOOD SELF-RATED HEALTH</th>
<th>ANXIETY</th>
<th>DIABETES</th>
<th>CURRENT ASTHMA</th>
<th>OBESITY</th>
<th>HAS HEALTH INSURANCE</th>
<th>DENTAL PESTLE</th>
<th>DEPRESSION</th>
<th>SMOKING</th>
<th>INSECURITY</th>
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<td>83%</td>
<td>70%</td>
<td>12%</td>
<td>19%</td>
<td>11%</td>
</tr>
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<td>11%</td>
<td>31%</td>
<td>86%</td>
<td>74%</td>
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</tr>
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<td>16%</td>
<td>17%</td>
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<td>22%</td>
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<td>9%</td>
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</tbody>
</table>

Source: DataHaven Greater New Haven Community Index 2019 (ctdatahaven.org)
Barriers in accessing care vary within the region
Health insurance coverage rates in Greater New Haven are high, though still substantially lower among Latinos and young adults than among other population groups. However, coverage does not guarantee timely and high-quality medical care. In 2018, 9 percent of adults in Greater New Haven reported not receiving the medical care they needed, and 22 percent reported putting off or postponing potentially necessary medical care. While reasons for not getting or foregoing medical care are complex and overlapping, it is lower-income residents who more frequently experience both.

Greater New Haven residents who had difficulty accessing medical care identified a myriad of reasons for doing so. Nearly half of survey respondents who missed or postponed care cited having been too busy with work or other commitments (48 percent), not feeling their issues were serious enough (45 percent), or fearing the cost would be too high (40 percent). Scheduling problems can disrupt care: 30 percent of adults who missed or postponed care could not get an appointment soon enough, and 20 percent could not get to a provider during their open hours. Insurance not paying for treatment was an issue for 21 percent of adults missing or delaying care, and insurance not being accepted was an issue for 15 percent. Additionally, 19 percent of those with disrupted care cited their caregiving obligations.

Lacking reasonably affordable ways to get medical care may play a role in residents relying on the emergency room for care. In 2018, 26 percent of Greater New Haven adults reported receiving care in a hospital emergency room at least once. While only 5 percent of adults did so three or more times during the past year, this figure was more than double among those earning less than $30,000 per year (11 percent). Other sources of financial and social stress such as lack of transportation, food insecurity, and unstable housing are factors that contribute to the frequent use of hospital emergency rooms. In Greater New Haven, residents lacking health insurance were slightly more likely than those with insurance to be frequent users of an emergency room last year, but residents who experienced food or transportation insecurity were substantially more likely to have visited an emergency room than other residents.

The chart below illustrates how barriers to accessing health care also may vary widely by age, race/ethnicity, income level, and geography. Barriers to accessing health care are generally reported to be highest in New Haven and Inner Ring towns, and lowest in Milford and similar higher-income towns. But throughout the county as a whole, many young adults a medical home and have not visited a dentist in the past year.
### TABLE 3E

**Barriers to healthcare**

**SHARE OF ADULTS, GREATER NEW HAVEN, 2018**

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>DIDN'T GET CARE</th>
<th>POSTPONED CARE</th>
<th>NO MEDICAL HOME</th>
</tr>
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<td>12%</td>
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<tr>
<td>Greater New Haven</td>
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<td>22%</td>
<td>12%</td>
</tr>
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</table>

**BY DEMOGRAPHIC WITHIN GREATER NEW HAVEN**

<table>
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<tr>
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</tr>
</thead>
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<td>Male</td>
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<tr>
<td>Female</td>
<td>9%</td>
<td>24%</td>
<td>10%</td>
</tr>
<tr>
<td>Age 18–34</td>
<td>11%</td>
<td>27%</td>
<td>21%</td>
</tr>
<tr>
<td>Age 35–49</td>
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</tr>
<tr>
<td>Black</td>
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<td>N/A</td>
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<tr>
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<td>23%</td>
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</tr>
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</table>

**BY GEOGRAPHY**

<table>
<thead>
<tr>
<th>Category</th>
<th>DIDN'T GET CARE</th>
<th>POSTPONED CARE</th>
<th>NO MEDICAL HOME</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Haven</td>
<td>12%</td>
<td>26%</td>
<td>19%</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>10%</td>
<td>25%</td>
<td>11%</td>
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<tr>
<td>East Haven</td>
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<td>23%</td>
<td>13%</td>
</tr>
<tr>
<td>Hamden</td>
<td>8%</td>
<td>20%</td>
<td>11%</td>
</tr>
<tr>
<td>West Haven</td>
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<td>30%</td>
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<td>Outer Ring</td>
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</tr>
<tr>
<td>Milford</td>
<td>8%</td>
<td>22%</td>
<td>11%</td>
</tr>
</tbody>
</table>

Source: DataHaven Greater New Haven Community Index 2019 (ctdatahaven.org)

As noted elsewhere, further detail and sources for all of the data presented in this section is available in the DataHaven Greater New Haven Community Index 2019.
b. **REGIONAL COMMUNITY CONVERSATIONS**

Community conversations, similar to focus groups, are meant to provide the perspective of specific populations of important and otherwise potentially hard to reach community members, including the underserved, as part of the community health needs assessment process. Health Equity Solutions (HES) and the Healthier Greater New Haven Partnership (HGNHP) worked collaboratively to identify the target underserved population and to identify host organizations for each community conversation. A total of 73 individuals participated in six community conversations over approximately a two-month period from the end of February to the end of April 2019. The goals of the conversations were to determine perceptions of the community, health, and health care in the Greater New Haven region, including community strengths, concerns, health services and service gaps, perceptions about discrimination, and health improvement priorities.

The final set of participants yielded a diverse cross-section of community members across various demographic variables: gender, age, race, ethnicity, income level, employment status, and geography. Overall, most participants self-identified as female (69%), 45% were white, and 41% black. Due to space constraints on the demographic survey tool, only one ethnicity was listed and 5% of participants identified their ethnicity as Hispanic. Forty-one percent of the participants were single, 25% were married or in a domestic partnership, 16% were widowed, and 18% divorced or separated. Thirty-two percent of the participants were currently employed, 19% were retired, 24% were unable to work, 2% were homemakers and 2% were students. Table 1 illustrates the overall demographics of community conversation participants.
Table 1: Greater New Haven Community Conversation Demographics

<table>
<thead>
<tr>
<th>Gender</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Female</td>
<td>69%</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>31%</td>
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<table>
<thead>
<tr>
<th>Age</th>
<th></th>
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<tbody>
<tr>
<td>18-26</td>
<td>2%</td>
<td></td>
</tr>
<tr>
<td>27-34</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>35-44</td>
<td>34%</td>
<td></td>
</tr>
<tr>
<td>45-54</td>
<td>29%</td>
<td></td>
</tr>
<tr>
<td>65-74</td>
<td>13%</td>
<td></td>
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<tr>
<td>75+</td>
<td>22%</td>
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<thead>
<tr>
<th>Race/Ethnicity</th>
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</thead>
<tbody>
<tr>
<td>American Indian/Alaska Native</td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td>Asian</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>Black/African American</td>
<td>41%</td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>45%</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>4%</td>
<td></td>
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<table>
<thead>
<tr>
<th>Marital Status</th>
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<tbody>
<tr>
<td>Single, never married</td>
<td>41%</td>
<td></td>
</tr>
<tr>
<td>Married or domestic partnership</td>
<td>25%</td>
<td></td>
</tr>
<tr>
<td>Widowed</td>
<td>16%</td>
<td></td>
</tr>
<tr>
<td>Divorced/Separated</td>
<td>18%</td>
<td></td>
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<table>
<thead>
<tr>
<th>Employment</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Employed for wages</td>
<td>32%</td>
<td></td>
</tr>
<tr>
<td>Self-employed</td>
<td>4%</td>
<td></td>
</tr>
<tr>
<td>Out of work and looking for work</td>
<td>13%</td>
<td></td>
</tr>
<tr>
<td>A homemaker</td>
<td>2%</td>
<td></td>
</tr>
<tr>
<td>A student</td>
<td>2%</td>
<td></td>
</tr>
<tr>
<td>Military</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>Retired</td>
<td>19%</td>
<td></td>
</tr>
<tr>
<td>Out of work and not looking for work</td>
<td>4%</td>
<td></td>
</tr>
<tr>
<td>Unable to work</td>
<td>24%</td>
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<table>
<thead>
<tr>
<th>Place of Residence</th>
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<th></th>
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<tbody>
<tr>
<td>New Haven</td>
<td>36%</td>
<td></td>
</tr>
<tr>
<td>East Haven</td>
<td>4%</td>
<td></td>
</tr>
<tr>
<td>West Haven</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>North Haven</td>
<td>2%</td>
<td></td>
</tr>
<tr>
<td>Milford</td>
<td>11%</td>
<td></td>
</tr>
<tr>
<td>Orange</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>Woodbridge</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>Bethany</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>Hamden</td>
<td>17%</td>
<td></td>
</tr>
<tr>
<td>Branford</td>
<td>9%</td>
<td></td>
</tr>
<tr>
<td>Guilford</td>
<td>2%</td>
<td></td>
</tr>
<tr>
<td>Madison</td>
<td>13%</td>
<td></td>
</tr>
<tr>
<td>Other (Wallingford, Clinton, Shelton)</td>
<td>6%</td>
<td></td>
</tr>
</tbody>
</table>

Topics explored during the community conversations focused on the overall strengths and concerns about the community, health issues, perceptions of health care services, gaps in services, the impact of discrimination, and recommended priorities to address over the next three years. All community conversations were recorded and transcribed to accurately assess emerging themes from the conversation. Two community conversations included graphic recording during the meeting which captured key thoughts and themes in word artform (Figure 4).
Figure 4: Graphic Recording, Community Conversations

Community Health Needs Assessment | Yale New Haven Hospital
Community Conversation, New Haven Free Public Library | 02.26.19
Facilitated by HEALTH EQUITY SOLUTIONS

Community Health Needs Assessment | Yale New Haven Hospital
Community Conversation, Milford Hospital, Milford, CT | 03.22.19
Facilitated by HEALTH EQUITY SOLUTIONS
An analysis of themes that emerged during the conversations was organized around the Social Determinants of Health (SDoH). SDoH are conditions in the places where people live, learn, work, and play that affect a wide range of health risks and outcomes. The following are the SDoH domains that surfaced most often and the key themes in each domain from the Greater New Haven region:

**Neighborhood and Built Environment**
- Housing
- Neighborhood Resources
- Safety
- Transportation
- Food

**Social and Community Context**
- Community
- Mental Health
- Substance Use

**Health and Health Care**
- Health
- Health Coverage/Insurance

Key themes from the conversations included housing, neighborhood resources variability, safety issues, transportation, food, needs of the homeless and undocumented populations, mental health access, opioid use, chronic diseases, and insurance coverage. A more detailed summary follows:

**Neighborhood and Built Environment**
- **Housing**
  Participants in several community conversations brought up the rising cost of housing and lack of affordable housing. Conversations in New Haven included concerns about gentrification and potential displacement of residents. Another housing-related theme was the high rates of homelessness. Participants mentioned the adverse impact on community residents resulting from homeless people engaging in panhandling and loitering in public places. Participants expressed a need to address the needs of homeless people, especially services for women.

- **Neighborhood**
  Participants in several conversations voiced that there is variability in resources and services available based on zip code or neighborhood. The desire for greater walkability surfaced in several areas; specifically, ideas were offered around improving street lighting. Lack of venues for physical and recreational activities also emerged as a theme, with the need for more recreational facilities mentioned, e.g. the need for more ballparks.
  In one conversation, the impact of climate change on shore towns was expressed. Other environmental hazard issues came up, specifically in Hamden.

- **Safety**
  Safety issues were also discussed, including concerns about crime, lighting, and sidewalks. Walkability and safety in some neighborhoods are affected by a lack of street lighting. More pedestrian crossings are need as well in some communities (Hamden). Participants in one conversation expressed concerns about carjacking, robberies at bus stops, and on routes nearby bus stops. Second-hand smoke was identified as a concern in some communities.
• **Transportation**
The most discussed social determinant of health issue related to the neighborhood and built environment category was transportation. Subthemes included timing, availability of public transportation, and cost of transportation. Participants also voiced concerns about the limitations of public transportation to get outside of a town and/or directional around a town (i.e., easier to north and south or east and west in Hamden but quite challenging to go from north to the west without taking hours and multiple buses).

• **Food**
The second most highlighted social determinant was food. Specifically, food affordability surfaced in a number of the conversations. Participants expressed that farmers markets’ products are too expensive or have been discontinued, and that buying healthy food is generally more expensive. Some participants identified a lack of education about proper nutrition as a problem. Elderly and people of color were mentioned as groups thought to be most affected by food insecurity.

**Social and Community Context**
• **Community**
The “invisible” population (people who are undocumented) came up in multiple conversations. Groups expressed concerns about needs of undocumented people not being met. Participants also noted that the level of fear and anxiety among undocumented residents is perceived as increasing as a result of the current political environment and immigration policies. This combination of unmet needs and fear impact the community both in terms of feelings of cohesiveness and mental health (trauma, stress, and anxiety). In two conversations, the need to come together more as a community was noted (New Haven & Hamden). Social isolation was also a subtheme in several conversations.

• **Mental Health**
Mental health-related issues were often mentioned. Subthemes include a lack of available services, stigma related to engaging with services, stress, depression, and anxiety (related to a variety of issues). Suicide and trauma also emerged in several conversations. Stigma related to mental health was also brought up in more than two conversations. Mental health needs of children with disabilities was also mentioned in one conversation.

• **Substance Use**
Substance use, specifically opioids, marijuana and alcoholism, was brought up in several conversations. In one conversation, participants mentioned that pain management needs are being misconstrued as efforts to seek opioids. Participants from one community expressed the perception that cannabis dispensaries are attracting people with addiction into the community.

**Health and Health Care**
• **Health**
Chronic diseases, including diabetes, asthma, hypertension, obesity, were mentioned in each conversation. The lack of urgent care facilities was also mentioned. Additionally, participants felt that the urgent care hours of operation were insufficient for meeting the need for care.

• **Health coverage/insurance**
Insurance-related issues were often mentioned. Subthemes included a lack of affordable health insurance options, difficulty with plan choice, doctors not accepting Medicare or new patients, lack of dental coverage, and unaffordable medications. Participants also identified the need for help navigating insurance options and coverage. Participants completed a short survey during each community conversation, which they were asked to provide demographic information, perceptions about access to health care and health care experiences, top health care issues, and top barriers for the community. Of the 73 participants across all sessions, 49 individuals completed the survey—a 67% response rate. Survey data indicated dissatisfaction with access to providers accepting Medicaid, transportation to health care, and access to affordable housing.
c. KEY INFORMANT SURVEYS

CHNA-related efforts were initiated in 2018 with a combination of primary data components, including an online key informant survey that was administered and analyzed by the Yale School of Public Health Student Consulting Group. The online survey was developed using Qualtrics, an online survey tool, and was designed to be completed by two groups, Health and Human Services providers, and Government and Community Leaders in the Greater New Haven area. Members of the Partnership identified 172 key informants between the two groups and achieved a 27% response rate overall. The Health and Human Services group included hospital administrators, state and local health department staff, physicians, nurses, and social service agency leaders. The Government and Community Leaders group included state and local elected officials, members of local police and fire departments, library directors, clergy, and other government agency heads. Within the context of survey research, key informant refers to a person with whom an interview about a particular organization, social program, problem, or interest group is conducted. In a sense, the key informant is a proxy for her or his associates at the organization or group. Key informant interviews are in-depth interviews of a select (nonrandom) group of experts who are most knowledgeable about the organization or issues. Often used as part of program evaluations and needs assessments, these targeted interviews allowed us to explore and understand the current health status of the community, identify strengths upon which to build, and prioritize efforts for the future.

Surveys included qualitative and quantitative questions about community health initiatives, common health-related problems, and barriers to good health, health services, and current outlooks. The key informant online surveys indicated that 67% of respondents knew about the 2016 Community Health Needs Assessment and Community Health Improvement Plan compared to 74% of respondents who had known about the 2013 CHNA when a similar survey was conducted in 2015. Nearly 60% of respondents in 2018 were aware of new health initiatives in the area, including the New Haven Trauma Coalition, which delivers mental health services within schools, Yale New Haven Hospital / Columbus House Medical Respite Program, the New Haven Bike Share program, and a new bus route in / out of town.

Across survey responses, recurring themes identified the top five health issues of greatest concern to respondents as: chronic disease, mental health and addiction, access to / use of health services, underlying social determinants of health, and physical activity / nutrition (Figure 5). The top health issues identified by the key informants align with the health priorities confirmed through the CHNA process in 2015 / 2016 and again in 2018 / 2019 (Healthy Lifestyles, Access to Care, and Behavioral Health).
When asked to identify the most significant challenge(s) to improved health, 41 percent of respondents pointed to economic barriers, which they indicated impacted adults’ access to primary and specialty care, access to mental health resources, transportation, unemployment, affordable housing, and lack of insurance. This was similar to the 43% of respondents who indicated that social barriers, such as broken families, community safety, substance abuse (among care givers), and school readiness, were the most significant challenge. The top three socio-economic barriers to good health that were identified by respondents were 1) access to employment, 2) access to healthy food, and 3) access to housing.

Respondents perceive limited access to mental health care, which may be contributing to rising concern about mental health and addiction as a top health issue in the region (Figure 6). Respondent perception is shifting to uncertainty or questioning relative to whether others are treated equally compared to 2015.
Lastly, respondents felt that the top three issues for policy makers to address included: 1) reducing opioid overdoses, 2) reducing tobacco use, and 3) ensuring community safety.
Two community forums were held in the Greater New Haven region – the first, in New Haven on April 23, 2019, was hosted by Yale New Haven Hospital; the second, in Milford on April 30, 2019, was hosted by the Milford Health Department. The two forums followed the same format: attendees were given an overview of the Community Health Needs Assessment, including a review of the purpose and scope, the 2019 primary and secondary data findings, and the 2019 focus area goals and strategies within each of the three priority areas (Healthy Lifestyles, Access to Care, and Behavioral Health). Participants were then given an opportunity to provide feedback on the 2019 priorities, and draft implementation strategies. In total 24 people attend the two community forums.

In addition, a copy of Yale New Haven Hospital’s 2016 Community Health Needs Assessment and Implementation Plan was made available for public comment for a period of time throughout the 2019 assessment process. Yale New Haven Hospital placed a public notice in the New Haven Register newspaper and created a dedicated email address for the receipt of written comments. No written comments were received.

This Community Health Needs assessment document combined with the attached 2019 Greater New Haven Community Index, prepared by DataHaven, serves as the CHNA document for Yale New Haven Hospital along with the City of New Haven Health Department, East Shore District Health Department, Quinnipiac Valley Health District, Milford Health Department, West Haven Health Department, and other members of the Healthier Greater New Haven Partnership. The Community Index will be made widely available through individual members’ websites.
6. PRIORITIZATION OF HEALTH ISSUES

A. 2016 COMMUNITY HEALTH IMPROVEMENT PLAN PROGRESS-TO-DATE

In 2016, the Healthier Greater New Haven Partnership (with members representing Yale New Haven Hospital, local health departments/districts, federally qualified health centers, non-profit community-based agencies, and universities and colleges) from the 13-town Greater New Haven region completed a Community Health Needs Assessment (CHNA) and prioritization process to identify the region’s most pressing health issues. Based on this work, the Partnership selected three areas of focus including: Access to Care, Healthy Lifestyles, and Behavioral Health. Each focus area was assigned an individual workgroup that was comprised of partners from the Greater New Haven region.

The group then developed a Community Health Improvement Plan (CHIP) for each of the three identified focus areas. Each CHIP affirms our commitment to using a collective impact model to affect change, states common values, and identifies clear goals and objectives for the relevant individual focus area.

Since completing its 2016 Community Health Needs Assessment (CHNA), the Partnership has taken multiple steps to further enhance its focus in order to better serve our community. Those steps include:

- In 2017, the Partnership conducted an internal survey to allow all members the opportunity to help guide the direction of the group by providing valuable feedback, including identifying new potential partners and determining monthly meeting schedules and locations. Results from the survey were utilized to shape future agendas and create deeper collaboration among members.
- In 2018, the Partnership developed a new process for workgroups to use to track and evaluate progress towards goals. This process included standardized forms, reporting processes, and semiannual dashboards.
- Also in 2018, the Partnership initiated its 2019-2022 CHNA process with valued input from both internal members and external partners from other coalitions across the state. This included a collaborative and standardized process to review Requests for Proposals, reference checks, and proposals submitted by community engagement consultants looking to lead various aspects of the CHNA.

The Healthier Greater New Haven Partnership consists of over 50 individuals that represent approximately 40 different community agencies from the 13-town region. Members participate in the full Partnership’s monthly meetings held at various locations throughout the region, one or more workgroup’s monthly meetings, or both. A representative from Yale New Haven Hospital serves as the facilitator/chairperson of the Partnership, working with members to identify agenda items, manage oversight of the coalition, and identify opportunities for collaboration.

A portion of the full Partnership’s monthly meeting agendas is devoted to updates from the actively meeting workgroups to ensure specific community health improvement plan (CHIP) goals are met and progress is tracked. Each monthly meeting also includes time for partner organization announcements, sharing of news and upcoming events, as well as guest speaker presentations related to the different focus areas to help ensure that partners are fully informed of resources and initiatives across a regional, statewide, and even national perspective.
In addition to the above, the two workgroups hold routine monthly meetings to advance their individual CHIP goals. These meetings include planning for additional data collection if needed as well as strategies and tactics to address their prioritized health outcomes / social determinants, and monitoring of results to date. Each workgroup has two co-chairs who represent a range of community organizations and towns throughout the region.

From 2016-2019, workgroups made significant progress towards their CHIP goals in the Greater New Haven region including:

**Access to Care Workgroup Accomplishments**

Since 2016, the Access to Care Workgroup has undertaken a variety of strategies aimed at achieving optimal population access to integrated health services across the Greater New Haven region. These strategies include leveraging work initiated as part of the 2013 Community Health Improvement Plan and further developing it through collaboration and grant funding. Specific accomplishments include:

- The workgroup conducted an insurance redetermination survey at Cornell Scott-Hill Health Center to learn more about the factors contributing to patients’ loss of insurance coverage as well as a specialty care eConsult pilot through Project Access-New Haven that was then adapted and implemented throughout Fair Haven Community Health Care.
- Workgroup goals and strategies were updated in 2018 to better align with partner organization efforts including the Accountable Health Communities Grant, Centers for Medicare & Medicaid Services
  - Population Health at Yale New Haven Hospital acted as a bridge organization for the Accountable Health Communities Grant from CMMI, utilizing the Access to Care workgroup to develop a database for use in the Greater New Haven region of patients who are screened for experiences relating to the social determinants of health and receive resources and / or navigation to help address those identified needs.
  - The Accountable Health Communities screening tool was also reviewed by workgroup members.
  - The work associated with the grant has been implemented within multiple sites of three partner organizations (Yale New Haven Hospital, Cornell Scott-Hill Health Center and Fair Haven Community Health Care) in collaboration with a fourth organization (Project Access-New Haven) for screening and patient navigation.
- Workgroup members collaborated with the East Shore District Health Department’s community health improvement plan (East Haven, Branford, and North Branford). As part of their effort the health district developed an Access to Services resource guide that was shared with partner organizations for use with their clients.
- Workgroup members learned more about the topic of non-emergency medical transportation from Ride Health, Uber Health, and routine updates from the State of CT contractor Veyo.
- The workgroup solicited and received regular updates about quality metrics as well as implementation and integration strategies related to Patient Centered Medical Home and Person Centered Medical Home Plus efforts underway at several partner organizations through a statewide program.
- The workgroup also learned about efforts from the Population Health department of Yale New Haven Hospital related to care transitions particularly a pilot aimed at providing education in the emergency department regarding transition from pediatric to adult care.
Healthy Lifestyles Workgroup Accomplishments

Since 2016, the Healthy Lifestyles Workgroup has undertaken a variety of strategies aimed at reducing the incidence of obesity / overweight in adults and reducing tobacco utilization. These strategies include leveraging work initiated as part of the 2013 Community Health Improvement Plan and further developing it through collaboration. Specific accomplishments include:

- Promote free physical activity and wellness programs/initiatives in the region through monthly meetings and workgroup distribution list
- Developed the Get Healthy Walk ‘n Talk program in New Haven. The walks started in fall 2016 as a collaboration with the Yale Primary Care Internal Medicine and Medicine/Pediatrics Residency programs. Physicians volunteer to walk with local community members and provide health-related information in an informal manner. The walks began on Saturdays in Edgewood Park throughout September 2016 and have since moved to Newhallville. The Newhallville walks occurred every Saturday during October 2016 and from April through September in 2017 and 2018. Walks are planned for every Saturday from May through September in 2019.
- Get Healthy Walk ‘n Talk program expanded to other parts of the region and walks were offered in Madison (2017) and Milford (2019).
- Submitted testimony for Tobacco 21 legislation in advance of the Public Health Committee in March 2018
- Hosted a community health fair at the Wilson Public Library in New Haven in April 2018. This event brought together several workgroup partners to provide wellness information to the community.
- Promoted the use of a healthy food drive donation list throughout partnering organizations.
- Hosted several healthy food drives in Milford, Hamden, and North Haven in 2018 and are currently planning more healthy food drives in the region for summer 2019.
- Updated the regional speaker’s bureau list that is used to connect local content experts to available workshop and speaking opportunities.
- Developed a Know Your Numbers program for Greater New Haven that brings community health screenings to food pantry shoppers. Working with nursing students from Southern Connecticut State University, five screenings were conducted, and 157 people have been screened since June 2018. Three screenings have taken place at Downtown Evening Soup Kitchen (New Haven) and one each at Immanuel Missionary Baptist Church (New Haven) and the Keefe Community Center (Hamden). Two additional screenings are scheduled for summer 2019.
- Worked with Project Access-New Haven to provide patient navigation and connection to community resources for Know Your Numbers screening participants as part of the CDC REACH grant awarded to Community Alliance for Research and Engagement (CARE) at Southern Connecticut State University. An additional aspect of this grant funding will bring Supporting Wellness at Pantries (SWAP), a nutritional ranking system, to food pantries in New Haven.
Behavioral Health Workgroup Accomplishments

Since 2016, the Behavioral Health workgroup focused on leveraging existing work to help residents feel socially connected and emotionally supported in the Greater New Haven region. Specifically, this work sought to strengthen efforts related to the work of the South Central CT Consortium and the City of New Haven Transformation Plan’s Community and Mental Health Workgroup, both of which had existing plans that included Healthier Greater New Haven Partnership member organizations. Unfortunately, early in the implementation of the 2016 CHIP the South Central CT Consortium stopped meeting on a regular basis as did the City Transformation Plan Workgroup. Over the past two years, regular meetings have been held with representatives of the Yale New Haven Hospital Psychiatric Hospital leadership to facilitate support of work being done by health departments and health districts across the region.

The predominant focus of the health departments and health districts has been on increasing awareness of current substance use and mental health issues among youth in the region.

- State of Connecticut Department of Public Health (DPH) grants to opioid related effort include:
  - Milford Health Department’s partnership with the Milford Prevention Council to host “hidden in plain sight”, which provides parents with clues from a teen’s bedroom to help them determine whether their child might be experimenting with or using drugs or alcohol.
  - East Shore District Health Department’s efforts around “Change the Script”, a statewide public awareness campaign to help communities deal with the prescription drug and opioids misuse crisis.
  - Quinnipiack Valley Health District’s participation and coordination as part of the DEA’s National Prescription Drug Take Back Day.
  - Narcan trainings held in Milford and through East Shore District Health Department.
  - New Haven Health Department pilot with DPH providing access to a state database to track opioid related overdoses in real time.
  - East Shore District Health Department’s public showings of the documentary Resilience: the biology of stress and the science of hope to increase awareness of Adverse Childhood Experiences (ACEs).
B. 2019 PRIORITIZATION OF HEALTH ISSUES

As part of the CHNA engagement process, Health Equity Solutions (HES) worked with the Healthier Greater New Haven Partnership (HGNHP) to develop a process to prioritize health issues for the Greater New Haven region. Following data collection from the 2018 DataHaven Community Wellbeing Survey, key informant interviews, and community conversations, the HGNHP workgroups met with Health Equity Solutions to prioritize health issues, develop measurable goals, set indicators, and identify strategies and actions for each priority.

As background, HGNHP’s work is structured around Workgroups that reflect the three health priority areas identified during the 2016 planning cycle: Access to Care, Healthy Lifestyles, and Behavioral Health. The same priorities were confirmed during the 2019 planning process. Based on the feedback from the prioritization sessions, community health improvement plans (CHIPs) were developed for each of the priority areas within the 2019 health priority framework of Access to Care, Healthy Lifestyles, and Behavioral Health (Figure 6). These focus areas will be addressed through a Social Determinants of Health lens.

Health Equity Solutions facilitated two, 1.5-hour prioritization sessions in March 2019, one each with the Healthy Lifestyles and Access to Care Workgroups. At each session, participants generated and refined goal statements, and identified tracking indicators and potential strategies for each goal, then ranked each. A total of 19 individuals representing 14 organizations attended the Healthy Lifestyles prioritization session on March 6, 2019; 13 individuals representing eight organizations attended the Access to Care prioritization session March 11, 2019. The priorities defined by the Workgroups served as the basis for CHIPs addressing each priority area for the Greater New Haven region over the next three years (2019-2022). The Behavioral Health portion of the CHIP was developed in collaboration with the health departments and health districts throughout the region in an effort to support grant-funded work with the CT Department of Public Health. The resulting CHIP was presented to the full HGNHP collaborative on April 8, 2019 to finalize priorities. Finally, the CHIPs and data from the 2018 DataHaven Community Wellbeing Survey, key informant survey, and community conversations were presented at two public forums on April 23, 2019 (New Haven) and April 30, 2019 (Milford.) A total of 23 people attended the session in New Haven and 21 people attended the Milford forum. Following the presentation of the data, participants in both forums were given the opportunity to provide feedback on the data and plans.
Figure 7: Healthier Greater New Haven Partnership Implementation Strategy Focus 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 2019 Community Health Improvement Plan was developed over the period February through April 2019, using the key findings from the Community Health Needs Assessment, which included primary data from the 2018 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 2016, the Healthier Greater New Haven Partnership was responsible for overseeing the Community Health Needs Assessment, identifying health priorities and overseeing the development of the Community Health Improvement Plans. 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 compelling and inspirational mission and vision statements 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 a certain region, in this case, Greater New Haven.

- 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) an improvement process was designed to incorporate the following steps:

1) Reflect and Strategize;
2) Identify and Engage Stakeholders;
3) Define the Community;
4) Collect and Analyze Data
5) Prioritize Community Health Issues;
6) Document and Communicate Results;
7) Plan Implementation Strategies;
8) Implement Strategies;
9) Evaluate Progress
B. DEVELOPMENT OF THE 2019 CHIP STRATEGIC COMPONENTS

The Healthier Greater New Haven Partnership workgroups convened regularly from February – April 2019 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 2019 Community Health Improvement Plan document that is organized by the 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 in part facilitated by Health Equity Solutions and members of the Healthier Greater New Haven Partnership.

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 2019 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. There is also a companion plan detailing implementation strategies to be addressed by Yale New Haven Hospital. The following pages outline the goals, strategies, action steps, and indicators for the three health priority areas outlined in the Community Health Improvement Plan for both the coalition and for Yale New Haven Hospital.
2019-22 Community Health Needs Assessment

Community Health Improvement Plan
## 2019 – 2022 Healthy Lifestyles Focus Area

**Indicator:** Percentage of people in Greater New Haven that indicate availability of affordable, high-quality fruits & vegetables where they live [2015 – N/A, 2018-70%]

**Indicator:** Percentage of people in Greater New Haven that indicate they do not have enough money to buy food for themselves & their family [2015-14%, 2018-13%]

**Indicator:** Percentage of people in Greater New Haven that are overweight or obese [2015-63%, 2018-65%] and percentage of people maintaining a normal weight [2015-35%, 2018-33%]

*Source: CT DataHaven Community Wellbeing Survey 2015 and 2018*

**Goal:** By February 2022, promote healthy lifestyles and access to healthy food in the Greater New Haven region to reduce the combined percentage of adults who are obese or overweight to 62%.

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Action Steps</th>
<th>Outcomes</th>
</tr>
</thead>
</table>
| Promote proper nutrition in the Greater New Haven region | • Review current data and collect additional data (as needed) to gain a deeper understanding of issues that impact proper nutrition and develop a plan to address the needs and gaps  
  • Partner with Quinnipiak Valley Health District to gather baseline data on healthy eating habits and issues impacting proper nutrition and explore expansion to other areas in the region  
  • Conduct culturally appropriate and culturally relevant nutritional education sessions throughout the region  
  • Support the expansion of the Supporting Wellness at Pantries (SWAP) in local food pantries  
  • Align work with current local activities (New Haven Food Policy Council, others)  
  • Continue and expand current social media and community outreach efforts that promote proper nutrition techniques | Review of available data  
  Baseline data collection and analysis  
  Track new data collected  
  # of people reached through community nutrition education sessions  
  # of community nutrition education sessions offered  
  # of food pantries utilizing SWAP  
  Track social media and community outreach efforts on proper nutrition |
<table>
<thead>
<tr>
<th>Strategy</th>
<th>Action Steps</th>
<th>Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase access to healthy food and affordable fruits and vegetables</td>
<td>• Increase access to healthier food in food pantries by promoting healthy food donations, utilizing health screening data to inform food choices in pantries&lt;br&gt;• Support healthy food drives throughout the region&lt;br&gt;• Promote programs that provide access to free or low-cost fruits and vegetables throughout the region (CT Food Bank Mobile Food Pantries, farmers markets, community supported agriculture, etc.) and explore opportunities to partner to expand these options.</td>
<td># of healthy food drives conducted in the region&lt;br&gt;# of new programs developed to expand access to free or low-cost fruits and vegetables</td>
</tr>
<tr>
<td>Promote free and low-cost physical activity opportunities</td>
<td>• Work with partners, including local parks and recreation departments, to identify available programs and determine how to better promote them in the community&lt;br&gt;• Continue to provide the Get Healthy Walk ‘n Talks and expand to other areas and towns as appropriate</td>
<td>Develop program promotion strategies&lt;br&gt;# of Get Healthy Walk ‘n Talks hosted&lt;br&gt;# of Get Healthy Walk ‘n Talk participants</td>
</tr>
<tr>
<td>Increase utilization and access to health screenings</td>
<td>• Educate the community on importance of knowing health numbers (body mass index, blood pressure, diabetes risk, etc.) through initiatives including the Know Your Numbers (KYN) screening program in food pantries and expand to include additional partners and sites as appropriate&lt;br&gt;• Include nutrition education and connection to follow-up care during community KYN screenings</td>
<td># of KYN screenings&lt;br&gt;# of new KYN sites&lt;br&gt;# of KYN screening participants&lt;br&gt;# of KYN screening participants referred to follow-up care&lt;br&gt;# of KYN screening participants referred to nutrition education</td>
</tr>
</tbody>
</table>
### 2019 – 2022 Healthy Lifestyles Focus Area, continued

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Action Steps</th>
<th>Outcomes</th>
</tr>
</thead>
</table>
| Support partner organizations in activities related to healthy lifestyles | • Utilize monthly meetings to share and promote activities related to improving healthy lifestyles in the Greater New Haven Region  
• Identify new partners and continuously work to expand the reach of the Healthy Lifestyles Workgroup  
• Align work with Community Alliance for Research and Engagement (CARE) to support REACH grant activities in New Haven and determine opportunities to replicate initiatives in other communities as appropriate  
• Support local healthy lifestyles CHIP work of area health departments/districts (East Shore District Health Department, Quinnipiak Valley Health District, and others) and provide opportunities for sharing updates/best practices among other regional partners | # of workgroup meetings that include opportunities to share and promote partners events/activities  
# of new partner organizations involved in Healthy Lifestyles Workgroup  
Track outcomes of CARE REACH grant  
# of monthly workgroup meetings with updates from partners on their local CHIPs |

### Partner Organizations

Yale New Haven Hospital, New Haven Health Department, East Shore District Health Department, Quinnipiak Valley Health District, Madison Health Department, Milford Health Department, Cornell Scott-Hill Health Center, Central Connecticut Coast YMCA, Hispanic Health Council, NH Food Policy Council, school-based health centers, CT Food Bank, Southern Connecticut State University, Community Alliance for Research and Engagement (CARE), CT Academy of Nutrition and Dietetics, local food pantries, CT Food Bank, Fair Haven Community Health Center, Hispanic Health Council, New Haven Parks and Recreation, Project Access-New Haven, Yale University- Yale School of Public Health, Special Olympics CT, Smilow Screening and Prevention, local municipalities
2019 – 2022 Access to Care Focus Area

**Indicator:** Percentage of people in Greater New Haven reporting they do not have one person or place you think of as your personal doctor or health care provider [2015- 13%, 2018-17%]

**Indicator:** Percentage of people in Greater New Haven reporting they experienced discrimination at the doctor’s office [2015- N/A ;2018-52%]

**Indicator:** Percentage of people in Greater New Haven that indicate they do not have a medical home [2015- N/A;2018-12%]

*Source: CT DataHaven Community Wellbeing Survey 2015 and 2018*

**Goal:** By February 2022, the rate of adults without a medical home will reduce by 2%.

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Action Steps</th>
<th>Outcomes</th>
</tr>
</thead>
</table>
| Promote available primary and specialty medical services in the Greater New Haven region to impact the number of individuals who have a medical home | • Continue to work with the Primary Care Consortium  
• Identify gaps in specialty care access for Medicaid and uninsured patients and investigate ways to increase availability and access  
• Collaborate with specialty care providers to increase the number of providers who accept Medicaid and uninsured patients  
• Promote the importance of having a regular source of care (medical home)  
• Leverage Patient Centered Medical Home (PCMH) and Person Centered Medical Home + (PCMH+), CMMI Accountable Health Communities (AHC) and CDC Racial and Ethnic Approaches to Community Health (REACH) grants to improve referrals and patient navigation between partner organizations and providers (primary and specialty, including mental health)  
• Leverage CARE Health Leaders program  
• Improve / evaluate access to Community Health Workers | # of gaps identified  
# of collaborations with specialty care providers accepting uninsured and Medicaid patients  
# of communications regarding medical homes  
# of referrals |
## 2019 – 2022 Access to Care Focus Area, continued

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Action Steps</th>
<th>Outcomes</th>
</tr>
</thead>
</table>
| Increase implementation of culturally and linguistically appropriate services (CLAS) standards throughout the Greater New Haven region as a way to address discrimination in the health care setting | • Complete a CLAS assessment with local partner organizations to determine current gaps and implement CLAS strategies as needed  
• Collect CLAS implementation tools and disseminate (ensure awareness of race, ethnicity, gender and LGBTQ issues)  
• Engage patients, public health departments, hospital association and other groups to conduct events promoting and/or training on CLAS (New England Public Health Training Center (NEPHTC), Connecticut Public Health Association (CPHA), Health & Equity, LLC, others) | # of organization assessments completed  
# of events promoting CLAS |
| Address access issues such as clinic times and appointment availability    | • Asset mapping and gap analysis focused on hours of operation for clinical and community-based care options, to include urgent care, federally qualified health centers (FQHCs), FQHC look-alikes, and other community health centers  
• Create a report of the findings and share broadly with the provider community and the community | Completion of mapping and analysis  
Completion of report  
# of educational sessions using the report  
# of providers using the report to drive change |
| Support efforts to increase economic security of individuals living in the region | • Identify areas of focus each legislative session. 2019 examples include paid family medical leave, affordable housing, and living wage. | # of letters of support  
# of issues supported |

### Partner Organizations

Community Alliance for Research and Engagement (CARE), Cornell Scott-Hill Health Center, East Shore District Health Department, Fair Haven Community Health Care, Milford Health Department, Project Access-New Haven, Quinnipiak Valley Health District, Yale New Haven Health, Yale New Haven Hospital, Yale School of Medicine Primary Care Residency Program
## 2019 – 2022 Behavioral Health Focus Area

**Indicator:** Percentage of people in the Greater New Haven region who indicate they receive the emotional and social support they need.  
[2015-N/A; 2018-Greater New Haven always-usually 68%]

**Indicator:** Percentage of people in the Greater New Haven region who indicate they know anyone who has struggled with misuse or addiction to heroin or other opiates such as prescription painkillers at any point during the last three years.  
[2015-N/A; 2018-Greater New Haven-one or more people 31%]

**Indicator:** Percentage of people in the Greater New Haven region who indicate that they personally know someone who has died from an opioid overdose.  
[2015-N/A; 2018-Greater New Haven-one or more people 25%]

*Source: DataHaven Community Wellbeing Survey 2015 and 2018*

**Goal:** By February 2022, there will be a 2% increase in adults in the Greater New Haven region indicating they receive the social-emotional support they need.

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Action Steps</th>
<th>Outcomes</th>
</tr>
</thead>
</table>
| Support substance use education and prevention efforts in the community aimed at reducing the stigma of getting mental health treatment | • Administer surveys related to drug use, sharing, and storage, utilize and communicate results  
• Increase awareness of opioid use with prescribing physicians, dentists, veterinarians, funeral directors, and real estate agents  
• Support efforts of Local Prevention Councils across the region  
• Advocate for medication take back protocols at area pharmacies  
• Where possible, identify best practices throughout the region related to educational and prevention and expand efforts as feasible to other communities  
• Continue to identify grant opportunities to support prevention efforts in area communities | # of surveys administered  
# of discussions  
# of provider training activities  
# of prevention activities conducted  
# of letters of support written |
### Strategy
Support suicide prevention activities aimed at reducing the stigma associated with suicide

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Develop collaborative suicide prevention education trainings / community conversations to reduce stigma</td>
<td># of prevention education trainings / community conversations</td>
</tr>
<tr>
<td>• Work with providers to identify and administer screenings for suicidal thoughts</td>
<td># of provider education screenings</td>
</tr>
</tbody>
</table>

### Partner Organizations
East Shore District Health Department, Milford Health Department, Quinnipiak Valley Health District, Yale New Haven Hospital
### Priority Area: Healthy Lifestyles

**Indicator:** Percentage of people in Greater New Haven that indicate availability of affordable, high-quality fruits & vegetables where they live [2015 – N/A, 2018-70%]

**Indicator:** Percentage of people in Greater New Haven that indicate they do not have enough money to buy food for themselves & their family [2015-14%, 2018-13%]

**Indicator:** Percentage of people in Greater New Haven that are overweight or obese [2015-63%, 2018-65%] and percentage of people maintaining a normal weight [2015-35%, 2018-33%]

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<thead>
<tr>
<th>Strategy</th>
<th>Action Steps</th>
<th>Outcomes</th>
</tr>
</thead>
</table>
| Participate in and provide support for the Healthier Greater New Haven Partnership | • Provide in-kind and financial support for Get Healthy CT  
• Co-host weekly (seasonal) Get Healthy Walk ‘n Talks | # of Get Healthy Walk ‘n Talks hosted / participants |
| Provide in-kind and financial support to area organizations | • Provide in-kind and financial resources to other non-profit organizations working in the areas of promoting healthy eating, physical activity and reducing chronic disease | $ community benefit |
| Provide programs to support the healthy lifestyles of our patients | • Offer healthy lifestyles education to patients, such as nutrition counseling in the Primary Care Center, clinics, and other locations and services  
• Provide existing programs, services and initiatives including: diabetes and endocrinology clinical programs for Type 1 and Type 2 diabetes (pediatric / adult), nutrition services, women’s heart program, and support groups  
• Pursue funding for initiatives through grants or philanthropy  
• Track ROI where applicable | # of programs for patients/# of participants  
# of served  
$ funding secured  
ROI |
### Strategy
Implement strategies to ensure healthy communities by expanding employee health offerings and programs to improve the health of employees

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Encourage employee involvement in personal health through the Know Your Numbers program for employees</td>
<td>% of employees screened</td>
</tr>
<tr>
<td>• Enhance health coaching and other services and programs to employees through <em>livingwellcares</em> program</td>
<td># of employee participants</td>
</tr>
<tr>
<td>• Develop programs relating to chronic disease and smoking/vaping cessation for employees</td>
<td># of programs/# of participants</td>
</tr>
<tr>
<td>• Promote opportunities for employees to be physically active</td>
<td>$ funding secured</td>
</tr>
<tr>
<td>• Pursue funding for initiatives through grants or philanthropy</td>
<td>ROI</td>
</tr>
<tr>
<td>• Track ROI where applicable</td>
<td># increased primary care professionals in network</td>
</tr>
<tr>
<td>• Improve employee health</td>
<td># of enhanced or expanded offerings</td>
</tr>
<tr>
<td>o Expand primary care professional network and access to covered employees and their dependents</td>
<td></td>
</tr>
<tr>
<td>o Enhance employee health and safety through initiatives by Occupational Health, <em>livingwellcares</em> and Employee and Family Resources</td>
<td></td>
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</tbody>
</table>

**Support healthy lifestyles in the community**

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Support community programs that promote healthy lifestyles such as helping to staff the community based Know Your Numbers Screenings, Get Healthy Walk ’n Talks and health fairs</td>
<td># of events</td>
</tr>
<tr>
<td>• Provide speakers for community presentations on different healthy living topics</td>
<td></td>
</tr>
<tr>
<td>• Identify resource gaps in the community and work with partners to develop approaches to fill the gaps</td>
<td></td>
</tr>
</tbody>
</table>
## Priority Area: Access to Care

**Indicator:** Percentage of people reporting they do not have one person or place that they think of as their personal doctor or health care provider [2015- 13%, 2018-17%]

**Indicator:** Percentage of people reporting that they experienced discrimination at the doctor’s office [2015- N/A ;2018-52%]

**Indicator:** Percentage of people in Greater New Haven that indicate they do not have a medical home [2015- N/A;2018-12%]

**Goal:** By February 2022, the rate of adults without a medical home will reduce by 2%.

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<th>Strategy</th>
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<th>Outcomes</th>
</tr>
</thead>
</table>
| Participate in and provide support for the Healthier Greater New Haven Partnership | • Provide in-kind and financial support for access to care initiatives  
• Serve as the bridge organization for the CMMI Accountable Health Communities grant in collaboration with Project Access-New Haven, Cornell Scott Hill Health Center, Fair Haven Community Health Care and the community-based referral organizations | # patients receiving navigation |
| Provide in-kind and financial support to area organizations | • Provide in-kind and financial resources to organizations to ensure access to resources | $ community benefit |
| Provide access to services for underserved populations | • Provide free care and Medicaid services  
• Operate outpatient primary and specialty care clinics for eligible individuals  
• Offer financial assistance information and other information in English and Spanish  
• Assist eligible individuals to enroll in available insurance programs  
• Provide prescription assistance programs including 340b, Medication Assistance Program and others | $ free care / $ Medicaid under reimbursement  
# primary clinic / # specialty clinic patients  
# public notices in local newspaper  
$ community benefit |

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55 | Page
<table>
<thead>
<tr>
<th>Strategy</th>
<th>Action Steps</th>
<th>Outcomes</th>
</tr>
</thead>
</table>
| Provide access to services for underserved populations (cont) | • Advocate at the state and federal levels for fair payment policies and regulations  
• Identify barriers or gaps in care and develop strategies to increase access  
• Pursue funding for initiatives through grants or philanthropy  
• Track ROI where applicable | # advocacy efforts  
$ funding secured  
ROI |
| Promote diversity & inclusion to reduce discrimination and improve access to care | • Conduct Diversity and Inclusion Council initiatives within Yale New Haven Hospital  
• Conduct Diversity and Inclusion Council initiatives in the Yale New Haven Hospital community | # of D&I initiatives |
| Increase access to reliable non-emergency medical transportation | • Be actively involved in the state non-emergency medical transportation efforts with Veyo and share local experiences at the state level  
• Provide alternative medical transportation options to patients, like Uber Health and others | Track communication / progress with Veyo  
$ community benefit |
| Increase utilization of available community resources to meet non-medical needs | • Identify needs of patients and connect them with available resources through available means such as social worker, care coordination program and others  
• Offer the Employee/Family Resources program to connect employees and their families with needed resources | # of referrals for employees/families |
| Develop a Master Facility Plan that addresses aggregate service area and clinical program needs | • Expand clinical program services to meet defined needs  
• Collaborate with the New Haven Primary Care Consortium to relocate primary care clinics | CON approval obtained |
## Priority Area: Behavioral Health

**Indicator:** Percentage of people in the Greater New Haven region who indicate that they receive the emotional and social support they need. [2015-N/A; 2018-Greater New Haven always-usually 68%]

**Indicator:** Percentage of people in the Greater New Haven region who indicate that they know anyone who has struggled with misuse or addiction to heroin or other opiates such as prescription painkillers at any point during the last three years. [2015-N/A; 2018-Greater New Haven-one or more people 31%]

**Indicator:** Percentage of people in the Greater New Haven region who indicate that they personally know someone who has died from an opioid overdose. [2015-N/A; 2018-Greater New Haven-one or more people 25%]

**Goal:** By February 2022, there will be a 2% increase in adults in the Greater New Haven region indicating they receive the social-emotional support they need.

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<th>Outcomes</th>
</tr>
</thead>
</table>
| Participate in and provide support for the Healthier Greater New Haven Partnership | • Support efforts related to substance use education and prevention aimed at reducing the stigma of getting mental health treatment being undertaken by local health departments / districts  
• Support efforts related to suicide prevention activities aimed at reducing the stigma associated with suicide | # of education / prevention activities conducted  
# of prevention education trainings / community conversations |
| Provide in-kind and financial support to area organizations | • Provide in-kind and financial resources to organizations to promote behavioral health programs and services | $ community benefit |
| Provide mental health resources for employees and their families | • Offer resources and programs related to stress management and other mental health issues to employees and their families | # of programs offered  
# of employees participating in programs |
<p>| Improve the coordination of care for frequent users of ED | • Participate in the Community Care Team (CCT) to determine needs of high ED utilizers and refer them to appropriate care | Tracking/results of CCT |</p>
<table>
<thead>
<tr>
<th>Strategy</th>
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<th>Outcomes</th>
</tr>
</thead>
</table>
| Provide referrals to services to support behavioral health needs of patients | • Utilize social workers and other staff to identify patient needs and connect them to available resources within the hospital and the community  
• Offer support groups for patients and families for a variety of diagnoses  
• Identify additional community resources for patients | # of referrals to programs  
# of support groups                                                                                   |  |
| Provide behavioral health services to meet demand  | • Invest in enhancing service and curriculum training of staff in validated treatment approaches  
• Explore ways to expand service offerings to meet patient and community needs and in collaboration with others  
• Work with local and state partners through existing consortiums, partnerships, programs, services and initiatives to increase the understanding of mental health and addiction as public health issues in order to achieve equal access to prevention and treatment. | # of training sessions  
(Examples include inpatient, outpatient and emergency services, child and adult mobile psychiatric services, and smoking cessation programs) |
## Health Areas that will be addressed with existing Yale New Haven Hospital resources

The Yale New Haven Hospital Community Health Improvement Plan / Implementation Strategies are comprehensive to address the three areas prioritized through the Community Health Needs Assessment Process. Other areas identified through the Community Health Needs Assessment process will not be specifically addressed as part of this effort by Yale New Haven Hospital due to resource constraints but are already being addressed through existing services and initiatives, as outlined below.

<table>
<thead>
<tr>
<th>Health Issue</th>
<th>Sample Listing of Existing Programs and Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancer</td>
<td>Yale New Haven Hospital, Smilow Cancer Hospital and Yale New Haven Children’s Hospital will continue to provide expert diagnosis, treatment and care in the area of cancer and oncology. Examples include inpatient and outpatient services, health education, research, clinical trials, and support services, including arts and healing, integrative medicine, prevention and wellness programs, and support groups. In addition, YNHH provides in-kind and financial support to community-based non-profit organizations working in the area cancer support services.</td>
</tr>
<tr>
<td>Injury Mortality</td>
<td>Yale New Haven Hospital, Yale New Haven Children’s Hospital and Yale New Haven Psychiatric Hospital will continue to work with local, state and national partners through existing coalitions, partnerships, programs, services and initiatives to reduce the incidence of injury and violence. Examples include emergency and trauma services, domestic violence, child abuse and child safety programs and public health prevention and outreach, and driver and pedestrian safety programs. In addition, YNHH provides in-kind and financial support to other community-based non-profit organizations working in the area of injury and violence.</td>
</tr>
<tr>
<td>Healthy Birth Outcomes</td>
<td>Yale New Haven Hospital, Yale New Haven Children’s Hospital and the Hospital-based primary care and family health centers, school-based health centers and community health programs and services will continue to work with local and state partners through existing coalitions, partnerships, programs, services and initiatives to decrease infant mortality and improve maternal and child health in New Haven and the region. Examples include inpatient, outpatient and community-based programs and services such as Healthy Start, Women, Infant and Child (WIC) Program, Me and My Baby Program, Nurturing Families Network, and parenting support groups. In addition, YNHH provides in-kind and financial support to community-based non-profit organizations working in the area of maternal and child health.</td>
</tr>
</tbody>
</table>
8. COMMUNITY RESOURCES

One goal of the CHNA is to understand the needs of a particular community and the overall challenges they face, to plan for future policies. Community-level challenges can resonate through the needs of the individual, the organization, the neighborhood, or more broadly part of the larger city. Within communities, there exist various resources, including organizations, people, policies, and physical spaces among others, that elevate the quality of life of a community. As each person has unique needs within the community, what is an asset or resource to one may not be for another. Homeless shelters, food pantries, day clinics, financial assistance programs, and recreational centers are all examples of community resources that may be used by different community members. Identifying the resources that are available in the community and that the actively uses is one important factor of the community needs assessment, as it can help ensure public awareness of available resources and demonstrate what models work well within that community and what can be done to fill in the existing gaps.

One method to find these resources is by utilizing the 2-1-1 program by United Way of Connecticut, which is supported by the State of Connecticut and other Connecticut-based United Ways. United Way 2-1-1 is an organization that aims to provide a state-wide resource to educate and connect its residents to services. Dialing 2-1-1 connects you to a specialist who will help you locate local services including utility assistance, food, housing, child care, after school programs, elder care, and crisis intervention among others. Entrance to certain housing shelters for example, can be facilitated by referral from 2-1-1. 2-1-1 also has a continually updated, comprehensive, and searchable online database of 4,100 agencies providing over 40,000 programs. 2-1-1 began as Infoline in 1976 and Connecticut became the first state to use 2-1-1 statewide in 1999. In 2018, a total of 248,890 calls and a total 322,166 requests were made in Connecticut. 2-1-1 is available 24 hours a day every day of the year, with multilingual assistance available.

The following pages include a sample of Community Resources found by navigating the 2-1-1 website. In this example, health resources are organized into six health topics: access to care, food insecurity, healthy lifestyle, housing, mental health, and substance abuse for the Greater New Haven region.

Here are ways to access 2-1-1 CT. A more detailed description of how to access the services may be found in Appendix C.

Dialing from Connecticut: 2-1-1
Dialing from outside of Connecticut: 1-800-203-1234
Website: https://www.211ct.org/
## Community Resources

### Access to Care
- Cancer Detection
- Community Clinics
- Dental Care
- Disability Related Transportation
- English as a Second Language
- Eye Screening
- Health Screening/Diagnostic Services
- Health Insurance Counseling
- Local Bus Services
- Local Rail Services
- Medicaid
- Medical Appointments Transportation
- Medical Expense Assistance
- Medicare
- Senior Ride Programs
- Specialized Treatment Programs
- Veterans

### Food Insecurity
- Community Action Agencies
- Commodity Supplemental Food Program
- Congregate Meals/Nutrition Sites
- Food Pantries
- Food Stamps/SNAP
- Home Delivered Meals
- Local Officials Offices
- Soup Kitchens
- WIC

### Healthy Lifestyles
- General Clothing Provision
- Nature Centers/Walks
- Recreational Activities/Sports
- Wellness Programs
- Youth Enrichment Programs

### Housing
- Domestic Violence Shelters
- Ex-Offender Halfway Houses
- Housing Authorities
- Homeless Drop-In Centers
- Housing Search and Information
- Homeless Shelter
- Runaway/Youth Shelters
- Single Room Occupancy Housing
- Transitional Housing/Shelter

### Mental Health
- Adolescent/Youth Counseling
- Child Guidance
- Domestic Violence Hotlines
- General Counseling Services
- Home Based Mental Health Services
- Mental Health Evaluation
- Mental Health Related Support Groups
- Psychiatric Disorder Counseling
- Psychiatric Mobile Response Teams
- Suicide Prevention Hotlines
- Talklines / Warmlines
- Therapy Referrals
- Youth Issues Hotlines

### Substance Abuse
- Alcohol Dependency Support Groups
- Drug Use Disorder Support Groups
- Central Intake/Assessment for Substance Abuse
- General Assessment for Substance Use Disorder
- Inpatient Drug Detoxification
- Inpatient Medically Assisted Alcohol Detoxification
- Medication Assisted Maintenance Treatment for Substance Use Disorders
- Medication Assisted Maintenance Treatment for Opioid Use Disorders
- Methadone Maintenance
- Opioid Antidote Distribution Programs
- Outpatient Drug Detoxification
- Outpatient Medically Assisted Alcohol Detoxification
- Sober Living Homes
- Substance Abuse Walk in Assessment Center
- Substance Use Disorder Counseling
- Substance Use Disorder Day Treatment
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</table>

### Cancer Detection
- **Yale New Haven Hospital, Yale New Haven Health Saint Raphael Campus**
  - 2080 Whitney Avenue
  - New Haven, CT 06518
  - (203) 867-5622

### Community Clinics
- **Cornell Scott Hill Health Center, West Haven Health Center**
  - 285 Main Street
  - West Haven, CT 06516
  - (203) 503-3000

### Dental Care
- **Yale New Haven Hospital, Dental Clinic**
  - 2560 Dixwell Avenue
  - Hamden, CT 06514
  - (203) 230-3431

### Health Screening/Diagnostics
- **Yale New Haven Hospital, Yale New Haven Health**
  - 800 Howard Avenue
  - New Haven, CT 06519
  - (888) 700-6543

### Medical Expense Assistance
- **Yale New Haven Hospital, Yale New Haven Health**
  - 800 Howard Avenue
  - New Haven, CT 06519
  - (888) 700-6543

### Senior Ride Programs
- **Town of Branford, Senior Center**
  - 11 Cherry Hill Road
  - Branford, CT 06405
  - (203) 315-0681

### Non-Emergency Medical Transportation
- **Town of East Haven – Senior Center**
  - 91 Taylor Avenue
  - East Haven, CT 06512
  - (203) 468-3277

### Veterans
- **United Veterans Health**
  - 950 Campbell Street
  - West Haven, CT 06516
  - (203) 932-5711

### Local Bus Services
- **CT Transit – New Haven Division**
  - 2061 State Street
  - Hamden, CT 06517
  - (203) 624-0151

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### Congregate Meals/ Nutrition Sites
- **Town of North Haven,** Joyce C. Budrow Senior Center  
  189 Pool Road  
  North Haven, CT 06473  
  (203) 239-4030

- **Town of Orange,** Senior Center  
  525 Orange Center Road  
  Orange, CT 06477  
  (203) 891-4765

### Food Pantries
- **The Storehouse Project**  
  248 East Putnam Avenue  
  Milford, CT 06461  
  (203) 683-4840

### Home Delivered Meals
- **Community Dining Room**  
  30 Harrison Avenue  
  Branford, CT 06405  
  (203) 488-9750

- **Lifebridge Community Services – Meals on Wheels**  
  317 East Street  
  New Haven, CT 06511  
  (203) 752-9919

### Commodity Supplemental Food Program
- **West Haven Housing Authority** Morrissey Manor  
  15 Bayshore Drive  
  West Haven, CT 06516  
  (203) 933-9449

- **Elm City Communities** Charles McQueeny Tower  
  358 Orange Street  
  New Haven, CT 06511  
  (203) 776-7015

- **Cornell Scott Hill Health Center** WIC Office  
  393 Columbus Avenue  
  New Haven, CT 06519  
  (203) 503-3080

- **Community Action Agency Of New Haven**  
  419 Whalley Avenue  
  New Haven, CT 06511  
  (203) 387-7700

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### Nature Centers/Walks

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<td>Boys and Girls Club of New Haven</td>
<td>Veterans Affairs – CT Healthcare System</td>
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<td>Cold Springs and Orange New Haven, CT 06511</td>
<td>253 Columbus Avenue New Haven, CT 06519</td>
<td>950 Campbell Avenue West Haven, CT 06516</td>
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<tr>
<td>(203) 946-6086</td>
<td>(203) 787-0187</td>
<td>(203) 287-3174</td>
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### Youth Enrichment Programs

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<td>Family Centered Services of CT</td>
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<td>235 Nicoll Street New Haven, CT 06511</td>
<td>345 Whitney Avenue New Haven, CT 06511</td>
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<tr>
<td>(203) 624-2600</td>
<td>(203) 503-0450</td>
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<th>Hill Central Music Academy Family Resource Center</th>
<th>Leadership, Education, and Athletics in Partnership</th>
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<tr>
<td>140 Dewitt Street New Haven, CT 06519</td>
<td>31 Jefferson Street New Haven, CT 06511</td>
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<tr>
<td>(475) 220-6140</td>
<td>(203) 773-0770</td>
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### Domestic Violence Shelters

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<tr>
<th>Organization</th>
<th>Address</th>
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<tbody>
<tr>
<td>The Umbrella Center for Domestic Violence Services</td>
<td>North Haven, CT</td>
<td>(203) 789-8104</td>
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### Housing Authorities

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<tr>
<td>Elm City Communities</td>
<td>360 Orange Street, New Haven, CT 06510</td>
<td>(203) 498-8800</td>
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<tr>
<td>West Haven Housing Authority</td>
<td>15 Glade Street, West Haven, CT 06516</td>
<td>(203) 934-8671</td>
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### Ex-Offender Halfway Houses

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<tr>
<td>Believe in Me Empowerment Corporation</td>
<td>427 Dixwell Avenue, New Haven, CT 06511</td>
<td>(203) 772-2771</td>
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### Homeless Drop In Centers

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<tr>
<td>Fellowship Place</td>
<td>441 Elm Street, New Haven, CT 06511</td>
<td>(203) 401-4227</td>
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<tr>
<td>Youth Continuum Youth Drop-In Center</td>
<td>924 Grand Avenue, New Haven, CT 06511</td>
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### Homeless Shelter

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<td>Christian Community Action – Hillside Family</td>
<td>124 Sylvan Avenue, New Haven, CT 06519</td>
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<td>Free Forever Prison Ministry</td>
<td>149 Rosette Street, New Haven, CT 06519</td>
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2-1-1 United Way Connecticut data is current as of March 12, 2019
### Access to Care

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<td>AIDS Project New Haven 1302 Chapel Street New Haven, CT 06511 (203) 624-0947</td>
<td>CVS Pharmacy, Store 2259 215 Whalley Avenue New Haven, CT 06511 (203) 401-4661</td>
<td>Sober Living Homes 1580 Chapel Street New Haven, CT 06511 (203) 809-8714</td>
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<td>Chemical Abuse Services Agency – Multicultural 426 East Street New Haven, CT 06511 (203) 495-7710</td>
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<td>Double Trouble in Recovery 441 Elm Street New Haven, CT 06511 Call (211) for more info</td>
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<td>New Era Rehabilitation Center New Haven Site 311 East Street New Haven, CT 06511 (203) 562-2101</td>
<td>Step Up Inn Halfway House for Women 541 Washington Avenue New Haven, CT 06516 (866) 933-7045</td>
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<td>Center for Compassionate Recovery 17 Wall Street Madison, CT 06443 (203) 245-0412</td>
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APPENDIX B:
HEALTHIER GREATER NEW HAVEN PARTNERSHIP MEMBERS

Providers
Clifford Beers Clinic
Cornell Scott-Hill Health Center
Fair Haven Community Health Care
Planned Parenthood of Southern New England
Project Access-New Haven
School-Based Health Centers
Smilow Screening & Prevention
Yale New Haven Health
Yale New Haven Hospital

Businesses
Greater New Haven Chamber of Commerce
Hoodenpylegil
Veyo

Health Departments
East Shore District Health District
Madison Health Department
Milford Health Department
New Haven Health Department
Quinnipiac Valley Health District

Government
Keefe Center/Town of Hamden
New Haven Community Services Administration
New Haven Parks, Recreation and Trees

Schools
Southern CT State University
Yale School of Medicine, Primary Care Residency Program
Yale School of Medicine, Scholars Program
Yale University – Yale School of Public Health
Community Alliance for Research & Engagement at YSPH/SCSU
Advocacy Groups & Coalitions
American Heart Association
Connecticut Hospital Association
CT Academy of Nutrition and Dietetics
Hispanic Health Council
Milford Prevention Council
New Haven Food Policy Council
Special Olympics CT
Tobacco-Free New Haven Coalition

Community-Based Organizations
Central CT Coast YMCA
CT Food Bank
DataHaven
New Haven Healthy Start

Social Services
Community Foundation for Greater New Haven
United Way of Greater New Haven
United Way of Milford
APPENDIX C:
HOW TO SEARCH FOR A SERVICE ONLINE USING THE 2-1-1 DATABASE

1. Visit https://www.211ct.org/ if you are looking for a particular service, and want to be connected.
2. If you know the particular service you are looking for, type in the service or need (e.g. “food”, “clothing”, “financial assistance”) in the search box. A variety of items will auto-suggest for you to choose from if you want.
3. If you are unsure of what you are looking for, there is a selection of menus you can choose from, to narrow down what services you might want.

4. Click a category based on your specific need.

Listed Categories: Basic Needs, Children and Families, Crisis, Food, Health Care, Housing, Income, Legal Assistance, Mental Health, Older Adults, Re-Entry, Substance Use Disorder, Transportation, Utility Assistance, Volunteer, Youth
5. Example: Children and Families category. You can click on a sub-category best fitting your needs. We will select “SNAP” under the Child Nutrition Programs for this example.

6. This is the results list that shows up once clicking “SNAP“, under the Child Nutritions Program subcategory. Relevant organizations are listed as red flags on the map. You can use the “Show Advanced Filters” option to narrow down an organization closest or most relevant to you.
7. Once you have found a service of your liking, you can click on the program name or on the More Details button from any of the resource cards on the left-hand side to view its location and description.

8. Scroll down for detailed information on the service such as contact, location, documents required, and more.

9. You can call 2-1-1 during the search process to be connected with a specialist who can guide you to find the service fitted to your needs.

How to Access the Services by Phone
To access 2-1-1’s telephone-based services, you can dial 2-1-1 within Connecticut, or 1-800-203-1234 outside Connecticut, 24/7. A Contact Specialist will try to connect you to a service fitted to your needs.
GREATER NEW HAVEN
Community Index 2019

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

A CORE PROGRAM OF
DataHaven

In collaboration with The Community Foundation for Greater New Haven and other community partners and a Community Health Needs Assessment for the towns served by Yale New Haven Hospital
Thank you to our Major Funders

DataHaven

The Greater New Haven Community Index makes extensive use of the DataHaven Community Wellbeing Survey, which completed live, in-depth interviews with 16,043 randomly-selected adults in Connecticut last year. In addition to the major funders listed above, supporters of the interviews in Greater New Haven included the town of Milford, Yale Medicine, and Planned Parenthood of Southern New England.

Lead Authors
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Camille Seaberry, Senior Research Associate, DataHaven

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Jessica Clavette, Volunteer, and Brian Slattery, Consultant

Other Contributors
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GREATER NEW HAVEN
Community Index 2019
Understanding well-being, economic opportunity, and change in Greater New Haven neighborhoods
A festival on the New Haven Green, the city’s central public square. Photo credit: International Festival of Arts & Ideas
Visual Appendix

50 figures, 35 tables, 1 report — here’s a preview of what we learned about Greater New Haven
CHAPTER 1

DataHaven Community Index & Personal Wellbeing Index

QUALITY OF LIFE

CHAPTER 2

Demographic Change & an Inclusive Economy

DataHaven Community Index
DataHaven Personal Wellbeing Index

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A Growing Population
An Aging Region
Increased Diversity
Changing Household Structure

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What matters more, having a job or having food on your plate?

Can money really buy happiness? Is it really true that if you haven’t got your health, you haven’t got anything?
As federal, state, and local agencies wrestle with one tough budget season after another, and have to decide how to help the greatest number of people with limited government funds, these questions matter—a lot.

Understanding what people need across our regions and neighborhoods helps answer these questions.

This report, *The Greater New Haven Community Index 2019*, collects and analyzes over 100 sources of national, state, and local data that pertain to these questions. But we have supplemented that information by conducting live, in-depth interviews with tens of thousands of randomly-selected adults statewide—over 32,000 in 2015 and 2018, including conversations with 5,000 representative adults in Greater New Haven. The DataHaven Community Wellbeing Survey (DCWS), believed to be the largest of its type in the United States, produces reliable data about life satisfaction, physical and mental health, neighborhood conditions, economic opportunity, and civic engagement that are not available at the local level from any of the other public data sources we work with. We use the latest data from the 2018 DCWS throughout this report. Data from our 2012 and 2015 DCWS were also discussed in the 2013 and 2016 iterations of this report.

Working with DataHaven, researchers Jan Wollenberg and Chris Barrington-Leigh of McGill University used this survey data to construct a model that could predict individuals’ levels of life satisfaction. The model accounted for household income, household size, self-reported physical and mental health, and personal experiences including food security, employment, and neighborhood conditions. Using these variables, Wollenberg and Barrington-Leigh created a life satisfaction score ranging from 0 to 100. Among the key findings:

- **Addressing food insecurity would be more likely to increase overall life satisfaction than addressing unemployment.**

Some might think that, after health, employment matters above all else. Indeed, for adults in the workforce, having employment improved life satisfaction as much as a nearly six-fold increase in household income did, whereas food security equaled only a 4.2-fold increase. However, there are approximately 400,000 food-insecure Connecticut adults, compared to about 200,000 Connecticut adults who are unemployed, according to the DataHaven survey.

- **Money can buy happiness—but only up to a point.**

Underscoring the importance of food security, the researchers found that having enough money to consistently buy food for themselves and their families improved adults’ life satisfaction as much as if they quadrupled their household income. Meanwhile, even more Connecticut adults than who are food-insecure—about 680,000, or 19 percent—say they live in neighborhoods with low walkability. The researchers’ analysis of life satisfaction data shows that improving quality of life issues such as walkability, trust in neighbors, and interactions with local government would likely make life better for many residents.

- **The old saying about health turned out to be somewhat true, but not for the reasons we might expect.**

Having excellent rather than poor physical and mental health improved life satisfaction scores by 18 and 26 points, respectively. The sizeable effect of improving mental health and the number of adults who face challenges in this area is consistent with other research suggesting that preventing depression would translate into enormous gains in life satisfaction. Meanwhile, a lack of...
health insurance had just a modest effect on the entire population. This is not because health insurance is not important—having insurance improved life satisfaction by 4 points on the scale. But in recent years, Connecticut has done a relatively good job making sure that all people can get health insurance, whether through work, state-sponsored insurance, or AccessHealthCT (the state’s insurance marketplace under the Affordable Care Act). Currently, only about 5 percent of adults in Connecticut are uninsured. If uninsurance rates were to rise back to where they were before the Affordable Care Act, the model suggests that the effect on people’s well-being would be quite significant.

What does all this mean for local and state agencies looking to do the best they can with what they have? The survey’s insights—whether at the level of the entire population or a single program—suggest more cost-effective ways to improve the lives of the widest range of people. Increasing families’ incomes across the board would be a costly endeavor. Thus, improving access to nutritious food and health care, strengthening neighborhood assets and walkability, and deepening people’s relationships with different levels of government are both more attainable and, perhaps, more effective.

About this Community Indicators Program and Community Health Needs Assessment

The Greater New Haven Community Index 2019 is part of a comprehensive community indicators program that collects, shares, and evaluates quality-of-life data on an ongoing basis at the state, regional, and neighborhood levels. This work builds upon the primary mission of DataHaven, a formal partner of the National Neighborhood Indicators Partnership, and is consistent with our focus since we released our first printed book of social indicator maps nearly 25 years ago in New Haven.

This report was made possible by contributions from more than 100 funders. A list of funders in this region can be found inside the front cover. We have also consulted extensively with other community partners and subject matter experts throughout the state and beyond, and are profoundly grateful for their guidance and support.

The Community Foundation for Greater New Haven, a core funding partner with DataHaven and The Community Index since its inception, is working to advance a regional agenda for economic growth that is truly inclusive. The Community Index is providing critical baseline data that will help inform community conversations and strategies that promote growth and identify opportunities for reducing the inequities faced by too many people in Greater New Haven.

Because it covers health and several other issues that relate to it, The Greater New Haven Community Index 2019 is also designed to meet requirements for Community Health Needs Assessments (CHNA) for Yale New Haven Hospital, as laid out in Internal Revenue Service Form 990 Schedule H and Notice 2011-52. The CHNA also serves local health departments participating in national accreditation processes. Chapter 3 of the Community Index is intended to document key health needs in communities served by all hospitals, while using a unified approach to reach the broadest possible audience throughout Greater New Haven. To add further context and locally-specific analysis, additional CHNA sections have been created based on the work of a multi-agency community-hospital coalition existing within each hospital’s primary service area. Whereas the entire region is of interest to every hospital, these additional sections provide further documentation of the
community needs identified within the geographic area on which each hospital plans to focus. They also outline the processes used by each hospital to develop CHNAs and Community Health Improvement Plans within each hospital’s primary service area. Like this report, the additional sections have benefited from input from dozens of local public health experts. They will be found on the individual hospital websites when they are finalized this year.

The topics included in this report have been the subject of other studies, but to our knowledge there has never been a program that has synthesized them into a single report. Following on our 2016 Community Index, we envision that this report will continue to serve as a platform to further the availability of neighborhood-level data and address gaps in disaggregated data related to age, gender, race, ethnicity, national origin, sexual orientation, disability, and other demographic characteristics. Since 2016, we have improved the quality of available data in several ways, including working diligently to ensure that all persons are represented in the information sources used in the report. Doing so allows the program to highlight areas where the region is and is not doing well, and also lets community leaders find data that are relevant to their interests and see how the work they do across different sectors contributes to the broader whole.

We recognize that most of the potential demographic or neighborhood data breakdowns do not fit within the practical confines of this report. We have published disaggregated data elsewhere on the DataHaven website (ctdatahaven.org), and we plan to release additional regional and statewide publications on health equity and other subject-specific topics in the near future. We encourage community partners to submit requests for the data that they need, using the instructions on our website: ctdatahaven.org/ask-mark.

Geography

In this report, 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). Data for Milford, the largest town within the Outer Ring, are sometimes presented in addition to the combined Outer Ring data. In some cases, data are also presented for specific neighborhoods or groups of neighborhoods within New Haven. See Chapter 1 In 2019, we have also worked with partner organizations to publish separate reports that cover other areas of Connecticut including the Lower Naugatuck Valley, Fairfield County, and Greater Hartford regions. See Our Website For Details DH
CHAPTER 1

DataHaven Community Index and Personal Wellbeing Index

Gross Domestic Product or Gross Domestic Happiness?
Chapter 1   DataHaven Community Index and Personal Wellbeing Index

Why should we measure well-being, happiness, and life satisfaction directly?

Asking residents about how they are doing on a daily basis is the most democratic approach to evaluating the extent to which a region’s communities are flourishing. Measures of subjective well-being do not presuppose that any given resident needs a set of specific material goods, such as a paycheck of a certain size or a car, in order to be content with life. The greatest hopes and concerns of residents may lie within social aspects such as supportive friendships; access to fresh air, water, parks, and safe streets; or how they generally perceive their lives and their communities.

Traditional economic measures such as gross domestic product—the monetary value of all goods and services produced within the area—often show that Connecticut’s metropolitan regions are among the wealthiest and most productive in the world. However, they do not necessarily account for how that affluence is distributed or how residents experience it. The many processes and policies that lead to social and economic inequalities, and the impacts that these inequalities can have on children and adults over time, are fundamental to understanding our current and future levels of well-being.

Countries such as the United Kingdom and New Zealand have already begun to harness the power of a population well-being framework to inform public policy decisions.3, 4 When integrated with other data, measures of well-being also help illuminate the deep connections among financial stress, health, and happiness in a way that economic statistics alone do not. For example, 1 in 8 Greater New Haven adults experience food insecurity. Our analysis suggests that reducing food insecurity would lead to a dramatic increase in the overall well-being of the region. The same data suggest that boosting incomes universally would lead to a much smaller gain.

To summarize and draw connections across these measures, we begin the report by introducing indexes of the region: the DataHaven Community Index and Personal Wellbeing Index. Additionally, a Neighborhood Assets Index is defined later in this report. Each index is a blend of indicators that capture the physical and social environments in which people live in Greater New Haven—including measures of community-wide health, infrastructure, education, and economics.

Executive Summary

The DataHaven Community Index incorporates 12 indicators into a single factored score that can be compared across multiple geographies. The indicators range from common economic measures, including poverty and unemployment rates, to educational attainment, life expectancy, and other general measures of quality of life. Greater New Haven would rank 17th among 107 large U.S. metropolitan areas, but the relatively high standard of living is divided; the region includes some of the highest- and lowest-scoring areas in our analysis.

Between 2012 and 2017 (the latest year for which these data are available), many Community Index scores improved, due in large part to economic recovery and expansion after the Great Recession. Despite this apparent progress, substantial regional and racial inequalities remain.

DataHaven’s Personal Wellbeing Index—consisting of measures of self-reported life satisfaction, happiness, anxiety, and health—also reveals a high degree of inequality by geography, race and ethnicity, and household income level. Greater New Haven’s score on the Personal Wellbeing Index is lower than the state average.
## FIG 1.1

**Community well-being comes from a number of different factors**

### COMPONENTS OF THE DATAHAVEN COMMUNITY INDEX, 2017

<table>
<thead>
<tr>
<th>INDEX COMPONENTS</th>
<th>US</th>
<th>CONNECTICUT</th>
<th>GREATER NEW HAVEN</th>
<th>BEST</th>
<th>WORST</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPPORTUNITY YOUTH</td>
<td>7%</td>
<td>5%</td>
<td>4%</td>
<td>MILFORD</td>
<td>NEW HAVEN, LOWER-INCOME</td>
</tr>
<tr>
<td>HEALTH INSURANCE</td>
<td>90%</td>
<td>94%</td>
<td>94%</td>
<td>OUTER RING</td>
<td>NEW HAVEN, LOWER-INCOME</td>
</tr>
<tr>
<td>HIGH SCHOOL GRADUATES</td>
<td>87%</td>
<td>90%</td>
<td>91%</td>
<td>OUTER RING</td>
<td>NEW HAVEN, LOWER-INCOME</td>
</tr>
<tr>
<td>UNEMPLOYMENT</td>
<td>7%</td>
<td>7%</td>
<td>7%</td>
<td>OUTER RING</td>
<td>NEW HAVEN, LOWER-INCOME</td>
</tr>
<tr>
<td>YOUNG CHILD POVERTY</td>
<td>22%</td>
<td>15%</td>
<td>18%</td>
<td>HAMDEN</td>
<td>NEW HAVEN, LOWER-INCOME</td>
</tr>
<tr>
<td>WORKERS WITH SHORT COMMUTE</td>
<td>63%</td>
<td>65%</td>
<td>70%</td>
<td>NEW HAVEN, OTHER</td>
<td>MILFORD</td>
</tr>
<tr>
<td>POVERTY</td>
<td>15%</td>
<td>10%</td>
<td>12%</td>
<td>OUTER RING</td>
<td>NEW HAVEN, LOWER-INCOME</td>
</tr>
<tr>
<td>SEVERE HOUSING COST BURDEN</td>
<td>15%</td>
<td>16%</td>
<td>20%</td>
<td>OUTER RING</td>
<td>NEW HAVEN, LOWER-INCOME</td>
</tr>
<tr>
<td>PRESCHOOL ENROLLMENT</td>
<td>48%</td>
<td>64%</td>
<td>64%</td>
<td>MILFORD</td>
<td>EAST HAVEN</td>
</tr>
<tr>
<td>LIFE EXPECTANCY</td>
<td>78.7 yrs</td>
<td>80.3 yrs</td>
<td>79.8 yrs</td>
<td>OUTER RING</td>
<td>NEW HAVEN, LOWER-INCOME</td>
</tr>
<tr>
<td>YOUTHFUL LABOR FORCE</td>
<td>26%</td>
<td>24%</td>
<td>25%</td>
<td>NEW HAVEN, OTHER</td>
<td>OUTER RING</td>
</tr>
<tr>
<td>MEDIAN HOUSEHOLD INCOME</td>
<td>$58K</td>
<td>$74K</td>
<td>$70K</td>
<td>OUTER RING</td>
<td>NEW HAVEN, LOWER-INCOME</td>
</tr>
<tr>
<td>COMMUNITY INDEX OVERALL (0–1,000)</td>
<td>594</td>
<td>657</td>
<td>652</td>
<td>OUTER RING</td>
<td>NEW HAVEN, LOWER-INCOME</td>
</tr>
</tbody>
</table>

NOTE: Please refer to text (Chapter 1) and endnotes (Chapter 5) for definitions of indicators used in this Index.
**FIG 1.2**

**Compared to the US and other metros, well-being is high but varied**

**COMPOSITE SCORE OF THE DATAHAVEN COMMUNITY INDEX, BY TOWN & NEIGHBORHOOD WITH NEARBY METROS, GREATER NEW HAVEN, 2017**

**FIG 1.3**

**White and Asian residents rank well above Black and Latino residents on well-being measures**

**COMPONENTS OF THE DATAHAVEN COMMUNITY INDEX BY RACE/ETHNICITY, GREATER NEW HAVEN, 2017**

<table>
<thead>
<tr>
<th></th>
<th>Health Insurance</th>
<th>High School Graduates</th>
<th>Workers w/ Short Commute</th>
<th>Young Child Poverty</th>
<th>Poverty</th>
<th>Opportunity Youth</th>
<th>Severe Housing Cost Burden</th>
<th>Unemployment</th>
<th>Life Expectancy</th>
<th>Youthful Labor Force</th>
<th>Median Household Income</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>White</strong></td>
<td>96%</td>
<td>94%</td>
<td>68%</td>
<td>10%</td>
<td>8%</td>
<td>4%</td>
<td>18%</td>
<td>7%</td>
<td>80 yrs</td>
<td>23%</td>
<td>$77K</td>
</tr>
<tr>
<td><strong>Black</strong></td>
<td>94%</td>
<td>88%</td>
<td>69%</td>
<td>33%</td>
<td>22%</td>
<td>17%</td>
<td>36%</td>
<td>12%</td>
<td>77 yrs</td>
<td>26%</td>
<td>$42K</td>
</tr>
<tr>
<td><strong>Latino</strong></td>
<td>85%</td>
<td>78%</td>
<td>72%</td>
<td>27%</td>
<td>21%</td>
<td>10%</td>
<td>31%</td>
<td>10%</td>
<td>78 yrs</td>
<td>32%</td>
<td>$45K</td>
</tr>
<tr>
<td><strong>Asian</strong></td>
<td>92%</td>
<td>93%</td>
<td>69%</td>
<td>7%</td>
<td>N/A</td>
<td>11%</td>
<td>N/A</td>
<td>25%</td>
<td>4%</td>
<td>N/A</td>
<td>$81K</td>
</tr>
</tbody>
</table>
Residents are happier and healthier in places that score high on community well-being...

PERSONAL WELLBEING INDEX VS DATAHAVEN COMMUNITY INDEX

NOTE: Each index is scaled from 0 (worse) to 1,000 (better).
...as well as those with strong neighborhood assets

PERSONAL WELLBEING INDEX VS DATAHAVEN NEIGHBORHOOD ASSET INDEX

NOTE: Each index is scaled from 0 (worse) to 1,000 (better).
## DataHaven Community Index

**Scores for Large U.S. Metropolitan Areas and Local Cities, Towns, and Neighborhoods, 2012 and 2017**

<table>
<thead>
<tr>
<th>RANK</th>
<th>LOCATION</th>
<th>2017 COMM. INX.</th>
<th>2012 COMM. INX.</th>
<th>PERCENT CHANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Madison, WI</td>
<td>706</td>
<td>631</td>
<td>+12%</td>
</tr>
<tr>
<td>2</td>
<td>Des Moines, IA</td>
<td>691</td>
<td>635</td>
<td>+9%</td>
</tr>
<tr>
<td>3</td>
<td>San Jose, CA</td>
<td>688</td>
<td>595</td>
<td>+16%</td>
</tr>
<tr>
<td>4</td>
<td>Minneapolis-St. Paul, MN</td>
<td>683</td>
<td>607</td>
<td>+13%</td>
</tr>
<tr>
<td>5</td>
<td>Ogden, UT</td>
<td>683</td>
<td>612</td>
<td>+12%</td>
</tr>
<tr>
<td>6</td>
<td>Portland, ME</td>
<td>675</td>
<td>590</td>
<td>+14%</td>
</tr>
<tr>
<td>7</td>
<td>Hartford, CT metro area (incl. Middlesex County)</td>
<td>671</td>
<td>604</td>
<td>+11%</td>
</tr>
<tr>
<td>8</td>
<td>Albany, NY</td>
<td>669</td>
<td>606</td>
<td>+10%</td>
</tr>
<tr>
<td>9</td>
<td>Provo, UT</td>
<td>667</td>
<td>592</td>
<td>+13%</td>
</tr>
<tr>
<td>10</td>
<td>Boston, MA</td>
<td>666</td>
<td>598</td>
<td>+11%</td>
</tr>
<tr>
<td>11</td>
<td>Omaha, NE</td>
<td>665</td>
<td>612</td>
<td>+8%</td>
</tr>
<tr>
<td>12</td>
<td>Grand Rapids, MI</td>
<td>663</td>
<td>557</td>
<td>+19%</td>
</tr>
<tr>
<td>13</td>
<td>Connecticut (state avg.)</td>
<td>657</td>
<td>593</td>
<td>+11%</td>
</tr>
<tr>
<td>14</td>
<td>San Francisco, CA</td>
<td>656</td>
<td>566</td>
<td>+16%</td>
</tr>
<tr>
<td>15</td>
<td>Salt Lake City, UT</td>
<td>656</td>
<td>574</td>
<td>+14%</td>
</tr>
<tr>
<td>16</td>
<td>Bridgeport-Stamford-Norwalk, CT (Fairfield County)</td>
<td>655</td>
<td>593</td>
<td>+10%</td>
</tr>
<tr>
<td>17</td>
<td>Honolulu, HI</td>
<td>653</td>
<td>580</td>
<td>+13%</td>
</tr>
<tr>
<td>18</td>
<td>Colorado Springs, CO</td>
<td>652</td>
<td>574</td>
<td>+14%</td>
</tr>
<tr>
<td>19</td>
<td>Greater New Haven (area covered by this report)</td>
<td>652</td>
<td>582</td>
<td>+12%</td>
</tr>
<tr>
<td>20</td>
<td>Raleigh, NC</td>
<td>651</td>
<td>586</td>
<td>+11%</td>
</tr>
<tr>
<td>21</td>
<td>New Haven Inner Ring</td>
<td>651</td>
<td>602</td>
<td>+8%</td>
</tr>
<tr>
<td>22</td>
<td>Worcester, MA</td>
<td>649</td>
<td>594</td>
<td>+9%</td>
</tr>
<tr>
<td>23</td>
<td>Harrisburg, PA</td>
<td>647</td>
<td>598</td>
<td>+8%</td>
</tr>
<tr>
<td>24</td>
<td>Washington, DC</td>
<td>647</td>
<td>584</td>
<td>+11%</td>
</tr>
<tr>
<td>25</td>
<td>Rochester, NY</td>
<td>647</td>
<td>587</td>
<td>+10%</td>
</tr>
<tr>
<td>26</td>
<td>Denver, CO</td>
<td>644</td>
<td>556</td>
<td>+16%</td>
</tr>
<tr>
<td>27</td>
<td>Seattle, WA</td>
<td>643</td>
<td>565</td>
<td>+14%</td>
</tr>
<tr>
<td>28</td>
<td>Dallas, TX</td>
<td>643</td>
<td>545</td>
<td>+18%</td>
</tr>
<tr>
<td>29</td>
<td>Milwaukee, WI</td>
<td>642</td>
<td>563</td>
<td>+14%</td>
</tr>
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<td>30</td>
<td>Buffalo, NY</td>
<td>640</td>
<td>581</td>
<td>+10%</td>
</tr>
<tr>
<td>31</td>
<td>Pittsburgh, PA</td>
<td>640</td>
<td>580</td>
<td>+10%</td>
</tr>
<tr>
<td>32</td>
<td>Santa Rosa, CA</td>
<td>638</td>
<td>576</td>
<td>+11%</td>
</tr>
<tr>
<td>33</td>
<td>Kansas City, MO</td>
<td>638</td>
<td>582</td>
<td>+10%</td>
</tr>
<tr>
<td>34</td>
<td>Syracuse, NY</td>
<td>638</td>
<td>545</td>
<td>+18%</td>
</tr>
<tr>
<td>35</td>
<td>New Haven, CT metro (incl. Waterbury)</td>
<td>637</td>
<td>568</td>
<td>+12%</td>
</tr>
<tr>
<td>36</td>
<td>Portland, OR</td>
<td>634</td>
<td>547</td>
<td>+16%</td>
</tr>
<tr>
<td>37</td>
<td>East Haven</td>
<td>632</td>
<td>603</td>
<td>+5%</td>
</tr>
<tr>
<td>38</td>
<td>New Haven Other Neighborhoods</td>
<td>631</td>
<td>573</td>
<td>+10%</td>
</tr>
<tr>
<td>39</td>
<td>Boise, ID</td>
<td>629</td>
<td>540</td>
<td>+16%</td>
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<tr>
<td>40</td>
<td>Ventura, CA</td>
<td>628</td>
<td>550</td>
<td>+14%</td>
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<td>41</td>
<td>Columbus, OH</td>
<td>628</td>
<td>570</td>
<td>+10%</td>
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<tr>
<td>42</td>
<td>Springfield, MA</td>
<td>618</td>
<td>561</td>
<td>+10%</td>
</tr>
<tr>
<td>43</td>
<td>Providence, RI</td>
<td>617</td>
<td>554</td>
<td>+11%</td>
</tr>
<tr>
<td>44</td>
<td>West Haven</td>
<td>606</td>
<td>570</td>
<td>+6%</td>
</tr>
<tr>
<td>45</td>
<td>United States (national avg.)</td>
<td>594</td>
<td>529</td>
<td>+12%</td>
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<tr>
<td>46</td>
<td>New York, NY</td>
<td>586</td>
<td>512</td>
<td>+14%</td>
</tr>
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<td>47</td>
<td>New Haven</td>
<td>540</td>
<td>462</td>
<td>+17%</td>
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<td>48</td>
<td>Lakeland, FL</td>
<td>537</td>
<td>469</td>
<td>+14%</td>
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<td>49</td>
<td>Stockton, CA</td>
<td>536</td>
<td>459</td>
<td>+17%</td>
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<td>50</td>
<td>Memphis, TN</td>
<td>532</td>
<td>495</td>
<td>+7%</td>
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<td>51</td>
<td>Riverside, CA</td>
<td>522</td>
<td>447</td>
<td>+17%</td>
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<td>52</td>
<td>El Paso, TX</td>
<td>517</td>
<td>445</td>
<td>+16%</td>
</tr>
<tr>
<td>53</td>
<td>Bakersfield, CA</td>
<td>504</td>
<td>436</td>
<td>+16%</td>
</tr>
<tr>
<td>54</td>
<td>Fresno, CA</td>
<td>500</td>
<td>437</td>
<td>+14%</td>
</tr>
<tr>
<td>55</td>
<td>New Haven Lower-Income Neighborhoods</td>
<td>453</td>
<td>360</td>
<td>+26%</td>
</tr>
<tr>
<td>56</td>
<td>McAllen, TX</td>
<td>434</td>
<td>364</td>
<td>+19%</td>
</tr>
</tbody>
</table>

Connecticut cities, towns, and neighborhoods

◊ Community Index Score improvement at or above the national average.
Chapter 1   DataHaven Community Index and Personal Wellbeing Index

DATAHAVEN COMMUNITY INDEX

Greater New Haven Ranks 17th Nationally
The Community Index integrates 12 individual and household indicators into a single factored score ranging from 0 to 1,000. Distilling this information into a single score allows us to make relative comparisons of multiple geographies ranging from the national level to large metropolitan regions to individual neighborhoods within cities. These measures incorporate the latest available Census American Community Survey (ACS) data with life expectancy data from the Centers for Disease Control and Prevention.

With an overall Community Index score of 637, the New Haven metropolitan area (including Waterbury and all of New Haven County) ranks 31st on a list of 107 U.S. metropolitan areas with a population of at least 500,000. Greater New Haven, as defined in this report, would rank 17th nationally if it were included, tied with Colorado Springs, with a score of 652. In both the metropolitan area and Greater New Haven, scores have improved by approximately 70 points (or 12 percent) since 2012 as the result of continued economic recovery after the Great Recession. Most Index scores in 2017 are higher as a result of improvements in economic outcomes such as unemployment and the expansion of health insurance coverage. While the Community Index scores in all neighborhoods and towns in Greater New Haven improved since 2012, the scores for Outer Ring towns improved about 1.7 times as much as Inner Ring towns, largely due to aggregate gains in preschool enrollment in Outer Ring towns (71 percent in 2017, up from 65 percent in 2012). Low-income neighborhoods in New Haven saw the greatest improvement of all GNH geographies: 93 points, or 26 percent.

Some towns in Greater New Haven, and even individual neighborhoods in the city of New Haven, would rank among both the highest and lowest scoring regions in the nation. All nine Outer Ring towns scored more than the highest-ranked U.S. metro area, and nearly double New Haven’s six lowest-income neighborhoods. The city’s large and relatively affluent Westville and East Rock neighborhoods would also score higher than most of the nine Outer Ring towns if we were to group them separately from the city’s other neighborhoods. This inequality is largely related to income. Median household income in the Outer Ring towns was more than twice that of New Haven, and nearly three times as much as in low-income New Haven neighborhoods in 2017. As a result, the poverty rate was 26 percent in New Haven compared to just 6 percent in Milford; poverty among children was nearly nine times greater in low-income New Haven neighborhoods (44 percent) than Outer Ring towns (5 percent). Generally, outcomes are most favorable in Outer Ring towns and least favorable in low-income New Haven neighborhoods, as summarized in the table below.

GREATER NEW HAVEN’S 15-YEAR DIFFERENCE IN LIFE EXPECTANCY

While Greater New Haven’s average life expectancy of 79.8 years is relatively high by U.S. standards, it masks a dramatic difference within the region. Life expectancy in one of New Haven’s low-income neighborhoods is just 71 years—nearly 15 years lower than that of the neighborhood with the highest life expectancy (85.8 years, in Orange). Town-wide averages range from a maximum of 83.4 years in Orange to a minimum of 77.8 years in West Haven and 78.2 years in New Haven, a difference of more than five years.

SEE CHAPTER 3 FOR MORE DETAILS
To further reveal the extent to which these measures vary across the population, we disaggregated each of the Community Index indicators by four racial/ethnic groups.\(^{14}\) SEE FIG 1.3

White and Asian residents are generally more economically advantaged than Black and Latino residents. Median incomes among Asian households ($81,000) were about twice those of Black households ($42,000),\(^{14}\) and the rate of poverty in the Black community was twice that of the Asian community (22 percent compared to 11 percent), and nearly five times greater among children (33 percent compared to 7 percent).\(^{17}\)

Most New Haven residents who are employed enjoy a relatively short commute to work.\(^{18}\) Adult educational attainment was higher than the state and national averages in 2017, and has improved significantly since 2012.\(^{19}\) Life expectancy in Greater New Haven is comparable to the US average of 79 years.\(^{20}\)

Average unemployment in Black communities in Greater New Haven was nearly double (12 percent) the rate in white communities (7 percent).\(^{21}\) In 2017, 17 percent of Black youth between 16 and 19 years old were neither in school nor working (“opportunity youth” or “disconnected youth”) compared to 4 percent of white youth.\(^{22}\) These young people who become “disconnected” from school and the labor force often find it difficult to reconnect, which may further complicate their ability to pursue higher education or ultimately secure a living-wage job. These outcomes can significantly limit lifetime economic mobility, and, in the worst cases, may perpetuate intergenerational poverty.\(^{23}\)
As discussed above, the DataHaven Community Wellbeing Survey’s questions on health, happiness, anxiety, and life satisfaction help us understand how people evaluate and experience their day-to-day life across multiple dimensions. Designed by a panel of local and national survey research experts, these questions are regularly used to evaluate personal well-being. For this report, we integrate the following four items into a Personal Wellbeing Index score from 0 to 1,000:

- How would you rate your overall health?
- Overall, how satisfied are you with your life nowadays?
- Overall, how happy did you feel yesterday?
- Overall, how anxious did you feel yesterday?

Greater New Haven’s score on the Personal Wellbeing Index is lower than the state average. However, throughout most of the state and in Greater New Haven, personal well-being has worsened slightly since 2015, with the measure of life satisfaction declining the most. In Greater New Haven, 66 percent of all adults reported being mostly or completely satisfied with life in 2018, compared to 71 percent in 2015. Further analysis is needed to identify and address this decline in life satisfaction, which has been steepest among adults under 50.

The DataHaven survey also includes questions on topics such as social support, meaning and purpose in life, and having time to enjoy life. The results from these measures are also essential for understanding quality of life, and detailed data may be found on the DataHaven website. However, they are not included in this report’s Personal Wellbeing Index score.

We often find strong correlations between the Community Index, Personal Wellbeing Index, and other community-level outcomes, suggesting that continuing to improve community health and quality of life in Greater New Haven requires a comprehensive, multi-sectoral approach. The aspiration of this report is that these data will reveal both assets and opportunities, and provide a starting point for action by community leaders.

### TABLE 1C
**DataHaven Index scores**
**GREATER NEW HAVEN WITH DEMOGRAPHIC GROUPS**

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>COMMUNITY INDEX</th>
<th>PERSONAL WELLBEING INDEX</th>
<th>NEIGHBORHOOD ASSETS INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>657</td>
<td>612</td>
<td>556</td>
</tr>
<tr>
<td>Greater New Haven</td>
<td>652</td>
<td>570</td>
<td>553</td>
</tr>
</tbody>
</table>

**BY DEMOGRAPHIC WITHIN GREATER NEW HAVEN**

<table>
<thead>
<tr>
<th>Group</th>
<th>COMMUNITY INDEX</th>
<th>PERSONAL WELLBEING INDEX</th>
<th>NEIGHBORHOOD ASSETS INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>N/A</td>
<td>612</td>
<td>538</td>
</tr>
<tr>
<td>Female</td>
<td>N/A</td>
<td>570</td>
<td>556</td>
</tr>
<tr>
<td>Age 18–34</td>
<td>N/A</td>
<td>432</td>
<td>441</td>
</tr>
<tr>
<td>Age 35–49</td>
<td>N/A</td>
<td>440</td>
<td>540</td>
</tr>
<tr>
<td>Age 50–64</td>
<td>N/A</td>
<td>698</td>
<td>464</td>
</tr>
<tr>
<td>Age 65+</td>
<td>N/A</td>
<td>794</td>
<td>681</td>
</tr>
<tr>
<td>White</td>
<td>686</td>
<td>572</td>
<td>579</td>
</tr>
<tr>
<td>Black</td>
<td>465</td>
<td>576</td>
<td>367</td>
</tr>
<tr>
<td>Latino</td>
<td>499</td>
<td>388</td>
<td>431</td>
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<tr>
<td>&lt;$15K</td>
<td>N/A</td>
<td>299</td>
<td>401</td>
</tr>
<tr>
<td>$15K–$30K</td>
<td>N/A</td>
<td>349</td>
<td>405</td>
</tr>
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<td>$30K–$50K</td>
<td>N/A</td>
<td>406</td>
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</tr>
<tr>
<td>$50K–$75K</td>
<td>N/A</td>
<td>567</td>
<td>577</td>
</tr>
<tr>
<td>$75K–$100K</td>
<td>N/A</td>
<td>619</td>
<td>553</td>
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<tr>
<td>$100K–$200K</td>
<td>N/A</td>
<td>789</td>
<td>620</td>
</tr>
<tr>
<td>$200K+</td>
<td>N/A</td>
<td>959</td>
<td>716</td>
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</table>

**BY REGION**

<table>
<thead>
<tr>
<th>Region</th>
<th>COMMUNITY INDEX</th>
<th>PERSONAL WELLBEING INDEX</th>
<th>NEIGHBORHOOD ASSETS INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Haven</td>
<td>540</td>
<td>482</td>
<td>291</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>651</td>
<td>568</td>
<td>468</td>
</tr>
<tr>
<td>East Haven</td>
<td>632</td>
<td>571</td>
<td>506</td>
</tr>
<tr>
<td>Hamden</td>
<td>701</td>
<td>651</td>
<td>616</td>
</tr>
<tr>
<td>West Haven</td>
<td>606</td>
<td>434</td>
<td>290</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>734</td>
<td>619</td>
<td>699</td>
</tr>
<tr>
<td>Milford</td>
<td>710</td>
<td>622</td>
<td>712</td>
</tr>
</tbody>
</table>

Note: All indices scaled from 0 (worse) to 1,000 (better).
Before we can begin to understand what life is like in Greater New Haven, we need to understand who lives here.
Greater New Haven is a region comprised of 13 cities and towns.

IN THIS CHAPTER

→ Greater New Haven’s older population is expanding, while its younger residents are becoming more racially and ethnically diverse.

→ Population growth is accompanied by increasing income and wealth disparities and a widening gap between higher- and lower-income households.

→ As jobs move away from the manufacturing sector, the service industry is growing but offers lower wages.

→ Achievement gaps within the education system, socioeconomic inequities, and the changing availability of jobs in specific sectors restrict opportunities for economic mobility.

Executive Summary

Greater New Haven is a region comprised of 13 cities and towns—a central urban hub, New Haven, and an inner and outer ring of suburban towns. Area residents are growing both older and more diverse—diversity that is increasingly concentrated in urban areas and highest amongst residents under 35. Part of the increase in this diversity has been driven by a more than doubling of the number of immigrant residents in Greater New Haven since 1990.

Compared to the state overall, Greater New Haven has a smaller share of married couples with children and a larger share of single adults living alone. In 2017, more than half of the housing units in Greater New Haven were single-family although housing construction permits issued have shifted toward multi-family buildings in recent years.

Wealth and income are highly variable across Greater New Haven, with Outer Ring towns’ median household income more than 40 percent greater than the Inner Rings’, and over 2.4 times that of the city of New Haven. Significant wage gaps exist along racial, gender, and educational attainment lines. However, in recent years, this income inequality has decreased, and the concentration of wealth in certain neighborhoods has eased to some degree. Despite this progress, there is still significant room for improvement, as evidenced by the fact the number of Greater New Haven residents living in the poorest neighborhoods increased by 147 percent from 1980 to 2017. Also concerning is the fact that the low-income rate among Greater New Haven’s children is higher and increasing faster than the rest of the population.

Similar inequality marks homeownership in Greater New Haven, and housing costs are unsustainable for many, with more than a third of households spending more than 30 percent of their income on housing.

Jobs are shifting from manufacturing toward service industries, including health care and social assistance. The median wage in Greater New Haven is lower than the state average, but is growing at a faster pace than the state overall.

Data point to a significant shortage in childcare options for infants and toddlers, but 64 percent of the region’s three- and four-year-olds were enrolled in preschool in 2017. When looking at K–12 education, the student population is growing more diverse each year, although this diversity is considerably lower in the Outer Ring suburbs. In addition, Outer Ring schools serve fewer high-needs students than the Inner Ring. Standardized test scores in the region still fall below those of the state overall, but Greater New Haven did see a considerable increase in math scores between 2014–15 and 2017–18. In addition, standardized test scores were lower among the region’s students of color and higher-need students, who also face several other challenges, including lower graduation rates, chronic absenteeism, and school discipline.
**Greater New Haven’s older population is projected to continue growing**

*Population and change by age group, Greater New Haven, 1990–2035*

<table>
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<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0–4</td>
<td>28,666</td>
<td>27,591</td>
<td>24,024</td>
<td>27,197</td>
<td>-19% 5,442 PEOPLE</td>
<td>+13% 3,773 PEOPLE</td>
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<td>5–17</td>
<td>66,776</td>
<td>78,025</td>
<td>71,601</td>
<td>73,703</td>
<td>+7% 4,825 PEOPLE</td>
<td>+3% 2,102 PEOPLE</td>
</tr>
<tr>
<td>18–34</td>
<td>128,496</td>
<td>104,996</td>
<td>116,083</td>
<td>119,487</td>
<td>-10% 12,413 PEOPLE</td>
<td>+3% 3,384 PEOPLE</td>
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<tr>
<td>35–64</td>
<td>149,353</td>
<td>171,219</td>
<td>182,153</td>
<td>181,089</td>
<td>+22% 32,800 PEOPLE</td>
<td>-1% 1,064 PEOPLE</td>
</tr>
<tr>
<td>65–79</td>
<td>48,384</td>
<td>44,867</td>
<td>49,611</td>
<td>56,031</td>
<td>+3% 1,227 PEOPLE</td>
<td>+13% 6,420 PEOPLE</td>
</tr>
<tr>
<td>80+</td>
<td>13,877</td>
<td>18,831</td>
<td>21,381</td>
<td>25,218</td>
<td>+54% 7,504 PEOPLE</td>
<td>+18% 3,837 PEOPLE</td>
</tr>
<tr>
<td>Total</td>
<td>436,552</td>
<td>445,529</td>
<td>464,853</td>
<td>482,705</td>
<td>+6% 18,301 PEOPLE</td>
<td>+4% 17,852 PEOPLE</td>
</tr>
</tbody>
</table>

**FIG 2.1**

Greater New Haven’s older population is projected to continue growing.
FIG 2.2

Children and younger adults are much more racially diverse

POPULATION BY AGE AND RACE, GREATER NEW HAVEN, 2010

FIG 2.3

The region is diversifying, some places more than others

NON-WHITE SHARE OF POPULATION, 1990–2017

Chapter 2   Demographic Change and an Inclusive Economy
**FIG 2.4**

**Immigrants make up a growing share of the region’s population**

*FOREIGN-BORN SHARE OF POPULATION, GREATER NEW HAVEN, 1990 AND 2017*

**1990**

**2017**

**FIG 2.5**

**About 1 in 8 Greater New Haven residents are immigrants**

*FOREIGN-BORN SHARE OF POPULATION, 2017*
FIG 2.6
Shares of married-couple households have declined slightly
HOUSEHOLDS BY TYPE, GREATER NEW HAVEN, 1990–2017

FIG 2.7
Low-income rates are rising, especially among children
LOW-INCOME RATE BY AGE, GREATER NEW HAVEN, 2000–2017
Greater New Haven has wide income disparities
MEDIAN HOUSEHOLD INCOME BY TOWN, GREATER NEW HAVEN, 2017
Chapter 2  Demographic Change and an Inclusive Economy

**FIG 2.10**
Greater New Haven has a wage gap by both gender and race
MEDIAN INCOME OF FULL-TIME ADULT WORKERS, GREATER NEW HAVEN, 2016

**FIG 2.9**
The highest-earning 5% makes 10x more money than the bottom 20%
MEDIAN HOUSEHOLD INCOME BY QUANTILE, GREATER NEW HAVEN, 2016, WITH RATIO TO BOTTOM 20% INCOME

**FIG 2.11**
Greater New Haven’s middle class has shrunk considerably
DISTRIBUTION OF POPULATION BY NEIGHBORHOOD INCOME LEVEL, GREATER NEW HAVEN, 1980–2017

**FIG 2.12**
Average incomes have risen in higher-income towns
MEDIAN HOUSEHOLD INCOME, GREATER NEW HAVEN, 1990–2017, ADJUSTED TO 2017 DOLLARS
FIG 2.13

Housing values are very high in the Outer Ring towns

MEDIAN HOUSING VALUE BY TOWN, 2017
**Fig 2.14**
Cost-burden rates are back to pre-Recession levels, but are still high for renters

**Cost Burden and Severe Cost-Burden Rates by Tenure, New Haven County, 2005–2017**

- **RENTER**
  - 2005: 49%
  - 2010: 43%
  - 2017: 51%
- **TOTAL**
  - 2005: 39%
  - 2010: 38%
  - 2017: 31%
- **OWNER**
  - 2005: 27%
  - 2010: 28%
  - 2017: 27%

**Fig 2.15**
The average renter is $10,000 short of affording a 2 bedroom apartment

**Median Renter Household Income and Minimum Household Income to Afford 2BR Housing, Greater New Haven, 2017, with Shortfall Shown**

- **Average Renter Income**
  - $60K
  - $40K
  - $20K
  - $10K
- **Minimum Affordable Income**
  - $15K
  - $12K
  - $10K
  - $13K
  - $17K
  - $8K

**Fig 2.16**
Homeownership is still low in lower-grade areas

**Homeownership Rate by Historic Redlining Grade, HOLC-Mapped Parts of Greater New Haven Towns, 2010**

- **ALL GRADES**
  - 44%
- **A**
  - 50%
- **B**
  - 42%
- **C**
  - 34%
- **D**
  - 43%

**Fig 2.17**
High-grade areas are still predominantly white

**White Share of Population by Historic Redlining Grade, HOLC-Mapped Parts of Greater New Haven Towns, 2010**

- **ALL GRADES**
  - 79%
  - 78%
  - 64%
  - 39%
  - 28%
FIG 2.18
The patterns in 1930s redlining maps are still present today
HOLC REDLINED AREAS OF NEW HAVEN AND NEIGHBORING TOWNS, 1937
FIG 2.19

New Haven provides many jobs and workers to the surrounding region

NET INFLOW OF WORKERS BY TOWN AND WAGE, 2015

Higher-wage workers ($40K or higher)

Lower-wage workers (under $40K)

Note: Net inflow defined as number of workers commuting in minus number of workers commuting out. Areas with negative net inflow are those that lose more workers than they gain.
FIG 2.20

New Haven County’s manufacturing sector has declined, while health care & social assistance jobs soar

NUMBER OF JOBS BY SECTOR, NEW HAVEN COUNTY, 2000–2017

FIG 2.21

New Haven’s Outer Ring school districts are much less diverse than the city’s schools

COUNT OF K–12 STUDENTS BY RACE, PER 100 STUDENTS, 2018–2019

FIG 2.22

Black and special education students are suspended far more often than others

PERCENTAGE OF STUDENTS SUSPENDED OR EXPULLED AT LEAST ONCE DURING SCHOOL YEAR, GREATER NEW HAVEN K–12 DISTRICTS, 2017–2018
FIG 2.23
Greater New Haven schools have wide achievement gaps

PERCENT OF PUBLIC K–12 STUDENTS MEETING ACHIEVEMENT MEASURES, GREATER NEW HAVEN, 2017–2018

### BY GROUP

<table>
<thead>
<tr>
<th></th>
<th>4-YEAR GRADUATION RATE¹</th>
<th>CHRONIC ABSENTEEISM²</th>
<th>SBAC ENGLISH PROFICIENCY RATE²</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NON-WHITE</strong></td>
<td>80%</td>
<td>15%</td>
<td>32%</td>
</tr>
<tr>
<td><strong>WHITE</strong></td>
<td>91%</td>
<td>8%</td>
<td>66%</td>
</tr>
<tr>
<td><strong>ELL</strong></td>
<td>73%</td>
<td>16%</td>
<td>48%</td>
</tr>
<tr>
<td><strong>NOT ELL</strong></td>
<td>84%</td>
<td>15%</td>
<td>48%</td>
</tr>
<tr>
<td><strong>FRPM</strong></td>
<td>77%</td>
<td>20%</td>
<td>34%</td>
</tr>
<tr>
<td><strong>NOT FRPM</strong></td>
<td>94%</td>
<td>8%</td>
<td>65%</td>
</tr>
<tr>
<td><strong>SPED</strong></td>
<td>68%</td>
<td>21%</td>
<td>13%</td>
</tr>
<tr>
<td><strong>NOT SPED</strong></td>
<td>90%</td>
<td>12%</td>
<td>55%</td>
</tr>
</tbody>
</table>

### REGION VS STATE

<table>
<thead>
<tr>
<th></th>
<th>4-YEAR GRADUATION RATE¹</th>
<th>CHRONIC ABSENTEEISM²</th>
<th>SBAC ENGLISH PROFICIENCY RATE²</th>
</tr>
</thead>
<tbody>
<tr>
<td>GNH</td>
<td>87%</td>
<td>13%</td>
<td>51%</td>
</tr>
<tr>
<td>CT</td>
<td>88%</td>
<td>11%</td>
<td>55%</td>
</tr>
</tbody>
</table>

### BY DISTRICT

<table>
<thead>
<tr>
<th></th>
<th>4-YEAR GRADUATION RATE¹</th>
<th>CHRONIC ABSENTEEISM²</th>
<th>SBAC ENGLISH PROFICIENCY RATE²</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW HAVEN</td>
<td>80%</td>
<td>20%</td>
<td>33%</td>
</tr>
<tr>
<td>INNER RING</td>
<td>80%</td>
<td>14%</td>
<td>48%</td>
</tr>
<tr>
<td>EAST HAVEN</td>
<td>77%</td>
<td>15%</td>
<td>44%</td>
</tr>
<tr>
<td>HAMDEN</td>
<td>88%</td>
<td>15%</td>
<td>51%</td>
</tr>
<tr>
<td>WEST HAVEN</td>
<td>75%</td>
<td>12%</td>
<td>47%</td>
</tr>
<tr>
<td>OUTER RING</td>
<td>95%</td>
<td>8%</td>
<td>63%</td>
</tr>
<tr>
<td>MILFORD</td>
<td>90%</td>
<td>8%</td>
<td>63%</td>
</tr>
</tbody>
</table>

Note on school years: 1. Class of 2017 2. School year 2017-2018

FIG 2.24
Six years after graduating high school, only 48% of Greater New Haven public school students have a college degree

NUMBER AND PERCENTAGE OF STUDENTS ENROLLING IN, PERSISTING IN, AND GRADUATING FROM COLLEGE, OF GREATER NEW HAVEN HIGH SCHOOL GRADUATES

<table>
<thead>
<tr>
<th></th>
<th>2-YR DEGREE</th>
<th>4-YR DEGREE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GRADUATE HS¹</strong></td>
<td>4,228</td>
<td>3,159</td>
</tr>
<tr>
<td><strong>75% ENROLLMENT RATE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PERSIST TO 2ND YR¹</strong></td>
<td>2,792</td>
<td>1,845</td>
</tr>
<tr>
<td><strong>88% PERSISTENCE RATE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ATTAINMENT RATE</strong></td>
<td>48%</td>
<td>196</td>
</tr>
</tbody>
</table>

Note on school yrs:
1. Class of 2014
2. Class of 2010
### FIG 2.25

**Greater New Haven residents have very different ideas of what young people experience**

**SHARE OF ADULTS RATING AS ALMOST CERTAIN OR VERY LIKELY THAT YOUNG PEOPLE IN THEIR AREA HAVE THE FOLLOWING EXPERIENCES, 2018**

<table>
<thead>
<tr>
<th></th>
<th>GRADUATE FROM HIGH SCHOOL</th>
<th>GET A JOB WITH OPPORTUNITIES FOR ADVANCEMENT</th>
<th>GET ARRESTED FOR A FELONY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BY LOCATION</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALL ADULTS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONNECTICUT</td>
<td>88%</td>
<td>59%</td>
<td>11%</td>
</tr>
<tr>
<td>GREATER NEW HAVEN</td>
<td>86%</td>
<td>56%</td>
<td>12%</td>
</tr>
<tr>
<td>NEW HAVEN</td>
<td>70%</td>
<td>41%</td>
<td>30%</td>
</tr>
<tr>
<td>HAMDEN</td>
<td>94%</td>
<td>67%</td>
<td>4%</td>
</tr>
<tr>
<td>EAST HAVEN</td>
<td>78%</td>
<td>42%</td>
<td>8%</td>
</tr>
<tr>
<td>WEST HAVEN</td>
<td>84%</td>
<td>38%</td>
<td>18%</td>
</tr>
<tr>
<td>OUTER RING</td>
<td>97%</td>
<td>72%</td>
<td>3%</td>
</tr>
<tr>
<td>MILFORD</td>
<td>95%</td>
<td>71%</td>
<td>3%</td>
</tr>
<tr>
<td><strong>GNH BY RACE/ETHNICITY</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHITE</td>
<td>89%</td>
<td>57%</td>
<td>7%</td>
</tr>
<tr>
<td>BLACK</td>
<td>81%</td>
<td>47%</td>
<td>24%</td>
</tr>
<tr>
<td>LATINO</td>
<td>77%</td>
<td>52%</td>
<td>26%</td>
</tr>
<tr>
<td><strong>GNH BY INCOME</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UNDER $30K</td>
<td>71%</td>
<td>43%</td>
<td>26%</td>
</tr>
<tr>
<td>$30K–$75K</td>
<td>84%</td>
<td>55%</td>
<td>12%</td>
</tr>
<tr>
<td>$75K–$100K</td>
<td>95%</td>
<td>58%</td>
<td>7%</td>
</tr>
<tr>
<td>$100K+</td>
<td>94%</td>
<td>74%</td>
<td>3%</td>
</tr>
</tbody>
</table>

### FIG 2.26

**White children from low-income homes in Greater New Haven can expect greater upward economic mobility than Black children from high-income homes**

**PROBABILITY (%) OF REACHING TOP 20% OF HOUSEHOLD INCOMES AS ADULTS BY RACE AND CHILDHOOD HOUSEHOLD INCOME, NEW HAVEN COUNTY**

- **WHITE**
  - Low Childhood Income Level: 19%
  - Middle Childhood Income Level: 24%
  - High Childhood Income Level: 22%

- **BLACK**
  - Low Childhood Income Level: 8%
  - Middle Childhood Income Level: 14%
  - High Childhood Income Level: 12%

- **LATINO**
  - Low Childhood Income Level: 8%
  - Middle Childhood Income Level: 14%
  - High Childhood Income Level: 12%
A Growing Population
Greater New Haven, as defined by this report see Geography discussion in the introduction, is a group of 13 cities and towns located within New Haven County and centered upon the city of New Haven, which for centuries has been one of the most economically significant urban centers in New England. Greater New Haven sits in close proximity to many other large urban areas. National reports tend to define metropolitan areas based on counties, so New Haven County as a whole is frequently referred to as the New Haven–Milford metropolitan statistical area (MSA), and is often either considered to be a component of the New York City megalopolis (the "Tri State" area), or is set within the Hartford–New Haven Designated Market Area, which is one of the nation's 35 largest media markets. However, New Haven County is not considered to be a useful designation locally, as its outermost boundaries also cross through former industrial centers such as Waterbury, Meriden, and Derby that developed independently from and are not as closely connected to the city of New Haven. see fig 1.2

Given that regional agencies tend to define their geographic service areas in different ways, the sponsors of this report and similar reports published over recent decades have agreed that the 13 contiguous and interconnected towns of Greater New Haven should be a common area of focus. The city of New Haven is by far the densest and most populous of these municipalities, and is bordered by three Inner Ring suburbs (East Haven, Hamden, West Haven), as well as nine Outer Ring suburbs (Bethany, Branford, Guilford, Madison, Milford, North Branford, North Haven, Orange, Woodbridge).

The total population of Greater New Haven’s 13 towns and cities is 465,633, including 93,991 children. Nearly two-thirds of the population lives in just four municipalities, however. The city of New Haven is the second-most populous municipality in the state with 130,884 residents, including 28,955 children, while Hamden, Milford, and West Haven are among the 20 largest municipalities in the state with over 50,000 residents each.24

The population of every town in the region has grown since 1990. Since 2000, the regional population has increased by 4.5 percent, a rate slower than that of Connecticut overall (up 5.5 percent). The city of New Haven grew slightly faster than the region, increasing nearly 6 percent from 123,626 residents in 2000. see table 2a

An Aging Region
Between 2000 and 2017, the median age in Greater New Haven increased from 36.6 to 39.3.25 This increase is in line with Connecticut’s other more urban areas, while the state’s rural counties generally experienced steeper increases. Overall, the median age in Greater New Haven in 2017 was slightly younger than that of the state (40.8), but older than that of the U.S. (37.8).26 Compared to the region overall, the median age of residents in the Inner Ring was younger (37.7) while the median age of residents in the Outer Ring was older (46.6); the urban core had the youngest population, with a median age of only 30.7.27

From 1990 to 2015, Greater New Haven’s population declined for two age groups: children under five years old decreased by 19 percent, a loss of 5,642 children, and young adults ages 18 to 34 decreased by 10 percent, a loss of 12,413 people.28 Though older seniors ages 80 and over were the fastest-growing age group during this period, increasing by 54 percent, or 7,504 people, middle-aged adults ages 35 to 64 represented the largest segment of growth, increasing by 22 percent, or 32,800 people.29

Looking forward to 2035, Greater New Haven’s older population is projected to keep growing as the Baby Boomer generation ages. From 2015 to 2035, the region is expected to see a 14 percent increase in the overall senior population (ages 65 and over)—a more modest growth rate than the projected 20 percent statewide increase.30 The transition of Baby Boomers into the senior age group is projected to contribute to a 1 percent decline in Greater New Haven’s middle-aged population, while all younger age groups are projected to grow.31 Children under five are expected to experience the highest rate of growth among younger age groups, with an increase of 13 percent, or 3,173 young children—partially offsetting the previous population decline of this age group between 1990 and 2015.32

Greater New Haven’s total population is expected to increase 4 percent between 2015 and 2035, outpacing the 1 percent increase projected statewide.33 However, this growth will not be evenly distributed. The city of New Haven and its Inner
Ring suburbs are expected to experience strong growth, with the former increasing by 9 percent, or 11,700 people, and the latter increasing by 14 percent, or 20,758 people. Over the same period, the population of the region’s Outer Ring towns is expected to decline 8 percent, or 14,606 people. 

**Increased Diversity**

Between 1990 and 2017, people of color living in Greater New Haven increased from 21 percent of the population to 38 percent. In 2017, 62 percent of Greater New Haven residents were white, 15 percent were Black, 15 percent were Latino, 5 percent were Asian, and 3 percent were other races. Combined, the non-white population in the region nearly doubled to over 175,000 people between 1990 and 2017. Meanwhile, the white population in Greater New Haven decreased by over 56,000 between 1990 and 2017—a 16 percent reduction; statewide the white population decreased 11 percent. 

However, not all towns are diversifying at similar rates and magnitudes. During the same period, the non-white share of Greater New Haven’s Outer Ring population increased from 4 percent to 14 percent. The rapidly-diversifying Inner Ring towns went from 13 percent non-white in 1990 to 41 percent in 2017. New Haven is much more diverse than its surrounding towns, with a population that is 30 percent white, 32 percent Black, 30 percent Latino, and 8 percent other races. More than half of the region’s Black and Latino residents live in New Haven.

Racial and ethnic diversity in Greater New Haven is highest among the population under 35, supporting the proposition that the region will continue to diversify over the coming decades. Based on the most recent decennial census figures, from 2010, only 30 percent of middle-aged residents (ages 35 to 64), 18 percent of younger seniors (ages 65 to 79), and 9 percent of older seniors (ages 80 and up) in Greater New Haven were people of color; however, 55 percent of

### TABLE 2A

**Population and growth**

**Population in Greater New Haven and towns, 2017**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>248,709,873</td>
<td>321,004,407</td>
<td>29%</td>
<td>91</td>
<td>35.3</td>
<td>37.8</td>
<td>2.5</td>
</tr>
<tr>
<td>Connecticut</td>
<td>3,287,116</td>
<td>3,594,478</td>
<td>9%</td>
<td>742</td>
<td>37.4</td>
<td>40.8</td>
<td>3.4</td>
</tr>
<tr>
<td>Greater New Haven</td>
<td>436,552</td>
<td>465,633</td>
<td>7%</td>
<td>1,531</td>
<td>36.6</td>
<td>39.3</td>
<td>2.7</td>
</tr>
<tr>
<td>Bethany</td>
<td>4,608</td>
<td>5,526</td>
<td>20%</td>
<td>262</td>
<td>40.6</td>
<td>47.8</td>
<td>7.2</td>
</tr>
<tr>
<td>Branford</td>
<td>27,603</td>
<td>28,149</td>
<td>2%</td>
<td>1,291</td>
<td>41.4</td>
<td>47.5</td>
<td>6.1</td>
</tr>
<tr>
<td>East Haven</td>
<td>26,144</td>
<td>29,006</td>
<td>11%</td>
<td>2,358</td>
<td>38.8</td>
<td>43.1</td>
<td>4.3</td>
</tr>
<tr>
<td>Guilford</td>
<td>19,848</td>
<td>22,377</td>
<td>13%</td>
<td>475</td>
<td>41.8</td>
<td>48.3</td>
<td>6.5</td>
</tr>
<tr>
<td>Hamden</td>
<td>52,434</td>
<td>61,493</td>
<td>17%</td>
<td>1,886</td>
<td>37.7</td>
<td>37.4</td>
<td>-0.3</td>
</tr>
<tr>
<td>Madison</td>
<td>15,485</td>
<td>18,247</td>
<td>18%</td>
<td>505</td>
<td>41.0</td>
<td>48.4</td>
<td>7.4</td>
</tr>
<tr>
<td>Milford</td>
<td>49,938</td>
<td>53,867</td>
<td>8%</td>
<td>2,426</td>
<td>39.4</td>
<td>44.8</td>
<td>5.4</td>
</tr>
<tr>
<td>New Haven</td>
<td>130,474</td>
<td>130,884</td>
<td>0%</td>
<td>6,999</td>
<td>29.3</td>
<td>30.7</td>
<td>1.4</td>
</tr>
<tr>
<td>North Branford</td>
<td>12,986</td>
<td>14,275</td>
<td>10%</td>
<td>576</td>
<td>39.1</td>
<td>48.0</td>
<td>8.9</td>
</tr>
<tr>
<td>North Haven</td>
<td>22,247</td>
<td>23,877</td>
<td>7%</td>
<td>1,148</td>
<td>41.9</td>
<td>45.6</td>
<td>3.7</td>
</tr>
<tr>
<td>Orange</td>
<td>12,830</td>
<td>13,881</td>
<td>9%</td>
<td>813</td>
<td>43.2</td>
<td>45.8</td>
<td>2.6</td>
</tr>
<tr>
<td>West Haven</td>
<td>54,021</td>
<td>55,044</td>
<td>2%</td>
<td>5,144</td>
<td>36.4</td>
<td>35.1</td>
<td>-1.3</td>
</tr>
<tr>
<td>Woodbridge</td>
<td>7,924</td>
<td>8,907</td>
<td>12%</td>
<td>474</td>
<td>42.8</td>
<td>47.7</td>
<td>4.9</td>
</tr>
</tbody>
</table>
children under five, 46 percent of children ages 5 to 17, and 42 percent of young adults (ages 18 to 34) identified as such.41

Greater New Haven’s diverse population includes a substantial and growing immigrant community. Between 1990 and 2017, the number of immigrants residing in Greater New Haven doubled, increasing by 29,617 individuals.42 By 2017, 13 percent of the region’s residents, or 58,847 individuals, were foreign-born—a share similar to Connecticut overall (14 percent).43 In 2017, Inner Ring towns had a higher share of immigrant population (14 percent) than the Outer Ring (9 percent).44 Immigrants from around the world call Greater New Haven home, including more than 2,000 residents each from Mexico, China, India, Ecuador, Jamaica, and Italy.45

As of 2016, 78 percent of both Connecticut and Greater New Haven residents ages 5 and over live in households where English is the primary language.46 After English and Spanish, Italian, Chinese, French, Polish, and Arabic are the most commonly spoken languages in the region—Italian being particularly common in Greater New Haven compared to other areas of the state.47 In 2017, 7 percent of Greater New Haven residents ages 5 and older struggled with English proficiency, meaning they spoke English less than very well—similar to the state rate of 8 percent.48 While low English proficiency is typically more common in Connecticut’s large cities (23 percent in Bridgeport and 19 percent in Hartford), the city of New Haven had a comparatively low rate of 11 percent.49

Another aspect of diversity among Greater New Haven residents is in sexual orientation and

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>TOTAL POPULATION</th>
<th>PERCENT WHITE</th>
<th>PERCENT BLACK</th>
<th>PERCENT LATINO</th>
<th>PERCENT ASIAN</th>
<th>PERCENT OTHER RACE</th>
<th>FOREIGN-BORN POPULATION</th>
<th>PERCENT FOREIGN BORN</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>321,004,407</td>
<td>62%</td>
<td>12%</td>
<td>18%</td>
<td>5%</td>
<td>3%</td>
<td>43,028,127</td>
<td>13%</td>
</tr>
<tr>
<td>Connecticut</td>
<td>3,594,478</td>
<td>68%</td>
<td>10%</td>
<td>15%</td>
<td>4%</td>
<td>3%</td>
<td>511,893</td>
<td>14%</td>
</tr>
<tr>
<td>Greater New Haven</td>
<td>465,633</td>
<td>62%</td>
<td>15%</td>
<td>15%</td>
<td>5%</td>
<td>3%</td>
<td>58,847</td>
<td>13%</td>
</tr>
<tr>
<td>New Haven</td>
<td>130,884</td>
<td>30%</td>
<td>32%</td>
<td>30%</td>
<td>5%</td>
<td>3%</td>
<td>21,448</td>
<td>16%</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>145,543</td>
<td>59%</td>
<td>18%</td>
<td>16%</td>
<td>5%</td>
<td>3%</td>
<td>19,889</td>
<td>14%</td>
</tr>
<tr>
<td>East Haven</td>
<td>29,006</td>
<td>77%</td>
<td>2%</td>
<td>15%</td>
<td>5%</td>
<td>2%</td>
<td>2,644</td>
<td>10%</td>
</tr>
<tr>
<td>Hamden</td>
<td>61,493</td>
<td>58%</td>
<td>23%</td>
<td>11%</td>
<td>5%</td>
<td>3%</td>
<td>8,291</td>
<td>14%</td>
</tr>
<tr>
<td>West Haven</td>
<td>55,044</td>
<td>51%</td>
<td>21%</td>
<td>21%</td>
<td>4%</td>
<td>4%</td>
<td>8,754</td>
<td>16%</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>188,206</td>
<td>88%</td>
<td>2%</td>
<td>5%</td>
<td>5%</td>
<td>2%</td>
<td>17,510</td>
<td>9%</td>
</tr>
<tr>
<td>Milford</td>
<td>53,867</td>
<td>84%</td>
<td>3%</td>
<td>7%</td>
<td>5%</td>
<td>2%</td>
<td>5,840</td>
<td>11%</td>
</tr>
</tbody>
</table>

Greater New Haven's diverse population includes a substantial and growing immigrant community. Between 1990 and 2017, the number of immigrants residing in Greater New Haven doubled, increasing by 29,617 individuals. By 2017, 13 percent of the region's residents, or 58,847 individuals, were foreign-born—a share similar to Connecticut overall (14 percent). In 2017, Inner Ring towns had a higher share of immigrant population (14 percent) than the Outer Ring (9 percent). Immigrants from around the world call Greater New Haven home, including more than 2,000 residents each from Mexico, China, India, Ecuador, Jamaica, and Italy.45

A disproportionate share of Greater New Haven's immigrant population resides in the urban core and surrounding Inner Ring suburbs. In 2017, foreign-born residents comprised 16 percent of New Haven's and West Haven's total populations. Additionally, large immigrant communities existed in Hamden (14 percent share), Milford, (11 percent share), and East Haven (10 percent share). In 2017, New Haven and West Haven accounted for 40 percent of the region's population and 51 percent of its immigrants.48

In 2017, 44 percent of immigrants living in Greater New Haven were naturalized United States citizens—below the 50 percent naturalization rate for immigrants statewide.49 In Connecticut's major core cities, lower shares of immigrants are naturalized; for example, in the city of New Haven, only 26 percent of foreign-born residents are naturalized citizens.50 New Haven's naturalization rate is even lower than most large cities in the state, which may be driven by the sizeable number of international students attending the area’s universities. Additionally, immigrants residing in New Haven are more likely to have recently arrived in the U.S.—67 percent arrived in 2000 or later, compared to 51 percent for Greater New Haven overall.51 Twenty-three percent of Greater New Haven's immigrant population entered the country in 2010 or later.52

Another aspect of diversity among Greater New Haven residents is in sexual orientation and
gender identity. A 2016 Gallup poll found that 10 million Americans—4.6 percent—identify as lesbian, gay, bisexual, or transgender (LGBT), an increase of 1.75 million people since 2012. The 2018 DataHaven Community Wellbeing Survey found that 8 percent of adults in Connecticut identify as not being straight, with a similar proportion in Greater New Haven. Additionally, 0.7 percent of adults in both Connecticut and Greater New Haven identify as transgender. Quantifying diversity in sexual orientation and gender identity is valuable in itself, but it also has important implications for other aspects of well-being, like health. LGBTQ individuals face specific health challenges, discussed in Chapter 3.

Changing Household Structure
In 2017, Greater New Haven had 176,605 total households, representing a 7 percent increase from 1990, or 11,184 additional households. The share of households headed by married couples has decreased, from 51 percent of households in 1990 to 44 percent in 2017. Households composed of adults living alone or non-family households have shown growth over this period. 

Compared to the state overall, Greater New Haven had a smaller share of married couple households (44 percent of Greater New Haven households, 49 percent of Connecticut households) and a larger share of single adults living alone (32 percent in Greater New Haven, 28 percent of Connecticut). While Connecticut’s largest core cities generally had fewer married couple households and larger shares of less-traditional households compared to other towns and regions across the state, this trend was particularly pronounced in the city of New Haven where 42 percent of households were adults living alone—perhaps a reflection of the large number of colleges and universities located in and around the city.

### Table 2C

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>TOTAL HOUSEHOLDS COUNT</th>
<th>MARRIED, W/ CHILD, COUNT</th>
<th>MARRIED, W/ CHILD, SHARE</th>
<th>MARRIED, NO CHILD, COUNT</th>
<th>MARRIED, NO CHILD, SHARE</th>
<th>MARRIED, NO CHILD, SHARE</th>
<th>SINGLE, W/ CHILD, COUNT</th>
<th>SINGLE, W/ CHILD, SHARE</th>
<th>SINGLE, W/ CHILD, SHARE</th>
<th>LIVING ALONE COUNT</th>
<th>LIVING ALONE SHARE</th>
<th>OTHER HOUSEHOLDS COUNT</th>
<th>OTHER HOUSEHOLDS SHARE</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>118.8M</td>
<td>22.7M</td>
<td>19%</td>
<td>34.7M</td>
<td>29%</td>
<td>10.8M</td>
<td>9%</td>
<td>32.9M</td>
<td>28%</td>
<td>17.7M</td>
<td>15%</td>
<td>17.7M</td>
<td>15%</td>
</tr>
<tr>
<td>Connecticut</td>
<td>1,361,755</td>
<td>259,868</td>
<td>19%</td>
<td>404,743</td>
<td>30%</td>
<td>116,400</td>
<td>9%</td>
<td>383,275</td>
<td>28%</td>
<td>197,469</td>
<td>15%</td>
<td>197,469</td>
<td>15%</td>
</tr>
<tr>
<td>GNH</td>
<td>176,605</td>
<td>27,939</td>
<td>16%</td>
<td>49,210</td>
<td>28%</td>
<td>15,464</td>
<td>9%</td>
<td>56,662</td>
<td>32%</td>
<td>27,330</td>
<td>16%</td>
<td>27,330</td>
<td>16%</td>
</tr>
<tr>
<td>New Haven</td>
<td>49,987</td>
<td>5,329</td>
<td>11%</td>
<td>6,781</td>
<td>14%</td>
<td>7,159</td>
<td>14%</td>
<td>20,728</td>
<td>42%</td>
<td>9,992</td>
<td>20%</td>
<td>9,992</td>
<td>20%</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>53,539</td>
<td>7,881</td>
<td>15%</td>
<td>14,905</td>
<td>28%</td>
<td>4,845</td>
<td>9%</td>
<td>17,095</td>
<td>32%</td>
<td>9,013</td>
<td>17%</td>
<td>9,013</td>
<td>17%</td>
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<tr>
<td>East Haven</td>
<td>11,270</td>
<td>1,472</td>
<td>13%</td>
<td>3,454</td>
<td>31%</td>
<td>917</td>
<td>8%</td>
<td>3,654</td>
<td>32%</td>
<td>1,773</td>
<td>16%</td>
<td>1,773</td>
<td>16%</td>
</tr>
<tr>
<td>Hamden</td>
<td>22,882</td>
<td>3,717</td>
<td>16%</td>
<td>7,010</td>
<td>31%</td>
<td>1,418</td>
<td>6%</td>
<td>7,330</td>
<td>32%</td>
<td>3,407</td>
<td>15%</td>
<td>3,407</td>
<td>15%</td>
</tr>
<tr>
<td>West Haven</td>
<td>19,387</td>
<td>2,692</td>
<td>14%</td>
<td>4,441</td>
<td>23%</td>
<td>2,310</td>
<td>12%</td>
<td>6,111</td>
<td>32%</td>
<td>3,833</td>
<td>20%</td>
<td>3,833</td>
<td>20%</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>73,079</td>
<td>14,729</td>
<td>20%</td>
<td>27,524</td>
<td>38%</td>
<td>3,660</td>
<td>5%</td>
<td>18,841</td>
<td>26%</td>
<td>8,325</td>
<td>11%</td>
<td>8,325</td>
<td>11%</td>
</tr>
<tr>
<td>Milford</td>
<td>21,634</td>
<td>3,865</td>
<td>18%</td>
<td>7,398</td>
<td>34%</td>
<td>1,038</td>
<td>5%</td>
<td>6,402</td>
<td>30%</td>
<td>2,931</td>
<td>14%</td>
<td>2,931</td>
<td>14%</td>
</tr>
</tbody>
</table>
INCOME AND POVERTY

Median Income Disparities
Greater New Haven households had a median income of $69,812 in 2017—about $4,000 lower than Connecticut and $12,000 higher than the nation.63 Since 1990, inflation-adjusted median household income has decreased about 3 percent ($3.1%) both statewide and in Greater New Haven.64 Income inequality remains a significant issue in the region. In 2016, the New Haven-Milford MSA's level of income inequality ranked 29th of the 100 largest U.S. metros—an identical level of income inequality as the Hartford-West Hartford-East Hartford MSA, but lower than that of Fairfield County.65 Median household income among Outer Ring towns was $94,251 in 2017—nearly $30,000 more than the Inner Ring ($65,044) and over 2.4 times that of the city of New Haven ($39,191).66 In 2016, the highest-earning 5 percent of households in Greater New Haven earned about $237,500 per year—over 10 times more than the roughly $23,000 per year earned by the poorest 20 percent of households.67

Wage Gaps and Wealth Gaps
While median household income is a useful indicator for analyzing inequality, it is critical to dig deeper into other underlying disparities, including differences in wages and wealth. Consider the wages of Greater New Haven's full-time, year-round workers ages 25 and older in 2016: when disaggregated by sex, men had median earnings of $60,812, compared to $51,474 for women.68 In other words, Greater New Haven's women earned 85 cents on the men's dollar—a smaller gender wage gap than Connecticut's overall (77 cents on the dollar).69

Looking at full-time, year-round workers by both sex and race/ethnicity yields even stark discrepancies. The overall wage gap in Greater New Haven in 2016 can be largely attributed to the higher median earnings of white men; the intraracial wage gaps between Black men and Black women is 89 cents, and Latinas actually outearn Latino men by about $1,000. Educational attainment also plays a role in the wage gap, but fails to account for it entirely. Statewide, the wage gap between men and women with graduate degrees was wider than within any other level of educational attainment.70

In Greater New Haven, the median earnings for women with a graduate degree were $72,111, nearly $22,000 less than for men with a graduate degree, who earned $94,005.71 Taking the analysis one step further, large wage gaps were apparent when disaggregating median earnings by sex, race/ethnicity, and educational attainment. For example, statewide, Latinas with bachelor's degrees earned about $4,600 less than white men with only high school diplomas; white men with bachelor's degrees made over $20,000 more than Black women with graduate or professional degrees, and about $22,000 more than Latinas with graduate or professional degrees.72

Beyond income is wealth—or the money, assets, and other financial resources that go beyond one's current paycheck. The racial wealth gap is a particular concern: nationally, white adults aged 60 to 70 have a median net worth about seven times greater than that of Black adults the same age. Differences in earnings are one important factor, but there are others: for instance, white families overall are about five times more likely than Black families to receive the kind of large inheritance or cash transfer that might be used for the purchase of a home or vehicle, invested in business endeavors, or used toward education costs.73 Discrimination also results in property devaluation for some Black homeowners; in 2016, the median home value in majority-Black neighborhoods in the New Haven-Milford MSA ($202,597) was estimated to be devalued by about 14 percent on average, or $30,529, after accounting for structural characteristics of homes and neighborhood amenities.74 In Greater New Haven, 27 percent of Black and 24 percent of Latino adults report that they have a negative net worth, compared to 15 percent of white adults.75

Income Inequality
Income and wealth are perhaps the most important factors that influence where an individual or family lives, because of choice or the resources available to them. As will be discussed later in this chapter, housing costs differ vastly—not only between municipalities, but also between neighborhoods. While gentrification has become a frequent topic of public debate due to skyrocketing housing costs in desirable parts of “superstar cities” such as New York and San Francisco, recent studies have found that the most common form of contemporary neighborhood change is the
concentration of low-income populations. For example, one such study found that between 2000 and 2016, the low-income population of economically declining areas grew by 44 percent (5,369,000 people) in the 50 largest U.S. metropolitan areas; while Greater New Haven was not included in the analysis, the New York City and Hartford metropolitan regions reported similar increases of 49 percent and 44 percent, respectively, in the number of low-income people living in economically declining areas.76

Analyzing population distribution by neighborhood income level paints a picture of the shrinking of the region’s middle class, as increasing numbers of people are living in neighborhoods at the extremes.77 Greater New Haven’s middle-class neighborhoods—those where average family income is similar to that of the state overall—have progressively shrunk from housing 60 percent of the population in 1980 to only 47 percent in 2017. While the share of residents residing in middle income neighborhoods in Greater New Haven in 2017 was still substantially below levels in the 1980s and 1990s, there has been improvement since 2010 (an increase of 7 percentage points, or 30,355 people, living in middle income neighborhoods).78 Concurrently, there was a slight reduction in the concentration of residents living in low-income, high-income, and affluent neighborhoods. Indeed, the New Haven-Milford MSA was shown to experience a significant decline in income inequality in recent years (2014 to 2016)—the second biggest decline across the country’s 100 largest U.S. metros.79 However, mirroring the continued national trend of increasing concentration among the most economically disadvantaged, between 2010 and 2017, the share of Greater New Haven residents living in the poorest neighborhoods increased by 3 percentage points, or 16,595 people.80 SEE FIG 2.11

These income inequality trends have direct bearing on the well-being of Greater New Haven residents. A wealth of research shows that regardless of objective economic growth, communities will not become happier without addressing inequality.81 Income inequality fragments communities by dismantling trust and ties, especially across income lines.82 In regions with higher levels of inequality, people are less likely to belong to social organizations and participate in civic life—all important components of community well-being.83 As discussed throughout this report, the concentration of economically disadvantaged residents in particular neighborhoods has negative impacts on well-being that stem from fewer educational and job opportunities, increased health risks, and limited access to quality community resources.84 Research indicates that areas that are more residentially segregated by race and income have lower levels of economic mobility, defined as the ability of those in the next generation to move up the economic ladder compared to their parents.85 In towns experiencing an increasing concentration of low-income populations, local governments may struggle to distribute public resources in a manner that meets the basic needs of their residents, resulting in overburdened public schools, underfunded public libraries, and deferred maintenance on infrastructure. SEE CHAPTER 4

Further exacerbating income inequality is the fact that median household incomes have only increased in the region’s higher-income towns.86 Between 1990 and 2017, only 5 of the region’s 13 towns saw increases in inflation-adjusted median household income, all of which were in the Outer Ring.87 The region’s overall median household income was stagnant during this period, decreasing by around 3 percent—a reflection of the wider state trend.88 Greater New Haven’s Inner Ring towns experienced a 7 percent decline, with West Haven seeing a decrease of 15 percent, while the city of New Haven declined 17 percent.89 SEE FIG 2.12

Rising Low-Income Rate

Since 2000, the low-income rate in Greater New Haven has been on the rise.90 “Low-income” denotes individuals living in households with annual incomes of less than twice the federal poverty level, also encompassing those living TABLE 2D

GROWING NEIGHBORHOOD INCOME INEQUALITY

POPULATION AND DEFINITION BY NEIGHBORHOOD INCOME LEVEL, GREATER NEW HAVEN, 2017

<table>
<thead>
<tr>
<th>INCOME BRACKET</th>
<th>DEFINITION BASED ON AVG FAMILY INCOME</th>
<th>POPULATION 1980</th>
<th>POPULATION 2017</th>
<th>CHANGE IN TOTAL POPULATION 1980–2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Affluent</td>
<td>1.5x AFI or above</td>
<td>7,754</td>
<td>12,106</td>
<td>+56%</td>
</tr>
<tr>
<td>High income</td>
<td>1.25 to 1.49x AFI</td>
<td>30,889</td>
<td>63,412</td>
<td>+105%</td>
</tr>
<tr>
<td>Middle income</td>
<td>0.75 to 1.24x AFI</td>
<td>248,320</td>
<td>217,236</td>
<td>-13%</td>
</tr>
<tr>
<td>Low income</td>
<td>0.5 to 0.74x AFI</td>
<td>96,287</td>
<td>95,313</td>
<td>-1%</td>
</tr>
<tr>
<td>Poor</td>
<td>Under 0.5x AFI</td>
<td>31,371</td>
<td>77,566</td>
<td>+147%</td>
</tr>
</tbody>
</table>

Note: See Fig. 2.11 for a graphic representation of these data.
below the poverty line.91 In 2017, a family of two earning $32,480 or less was considered low-income, as was a family of four earning $49,200 or less.92 Between 2000 and 2017, the share of Greater New Haven’s population living in low-income households increased from 22 percent to 26 percent, similar to the statewide increase from 19 percent to 23 percent. The low-income rate in New Haven is substantially higher than the region overall, approaching 50 percent in 2017; additionally, the low-income rate for the Inner Ring (25 percent) was nearly double that of the Outer Ring (13 percent).93 SEE TABLE 2E

In Greater New Haven and statewide, the low-income rate among children is both higher and growing faster than for the population as a whole. In 2017, nearly two out of three children ages 0 to 17 in New Haven lived in low-income households, meaning in the city alone, almost 18,000 youth faced severe economic hardship.94 Though New Haven had the highest child low-income rate in the region in 2017, the rate among Inner Ring suburbs has seen a far sharper uptick, from 24 percent in 2000 to 32 percent in 2017. SEE FIG 2.7

Financial Security
While this report uses the low-income threshold to identify those living under severe economic hardship, many individuals and families above that line struggle mightily to make ends meet. The ALICE Project (Asset Limited, Income Constrained, Employed), a United Way initiative spanning a number of states including Connecticut, utilizes a “household survival budget” based on the actual costs of basic necessities such as housing, childcare, food, transportation, and healthcare for different types of households in each county in Connecticut to establish an ALICE income threshold which encompasses households above the poverty line that earn less than the basic cost of living in the county.95 The most recent ALICE analysis found that, in 2016, 33 percent of the region’s households qualified as ALICE—along with an additional 11 percent of households below the poverty line. Taken together, 44 percent of households were struggling to satisfy basic needs required to live and work, well above the 26 percent low-income rate for Greater New Haven defined above.96

DataHaven’s 2018 Community Wellbeing Survey results revealed many Greater New Haven residents face financial stress: 34 percent of adults in the region report that they are just getting by or finding it difficult to manage financially.97 These rates have changed little since the last time the survey was conducted, in 2015. SEE TABLE 2F

When people are forced to choose among basic needs, such as rent, childcare, transportation to work, or treating a health condition, they are left with no good options—their well-being will ultimately suffer.

### TABLE 2E

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>ALL AGES, POVERTY STAT. DETERMINED</th>
<th>ALL AGES, LOW-INCOME</th>
<th>ALL AGES, LOW-INCOME RATE</th>
<th>AGES 0–17, POVERTY STAT. DETERMINED</th>
<th>AGES 0–17, LOW-INCOME</th>
<th>AGES 0–17, LOW-INCOME RATE</th>
<th>AGES 0–5, POVERTY STAT. DETERMINED</th>
<th>AGES 0–5, LOW-INCOME</th>
<th>AGES 0–5, LOW-INCOME RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>313M</td>
<td>102.5M</td>
<td>33%</td>
<td>72.4M</td>
<td>30.6M</td>
<td>42%</td>
<td>23.4M</td>
<td>10.6M</td>
<td>45%</td>
</tr>
<tr>
<td>Connecticut</td>
<td>3,486,033</td>
<td>802,453</td>
<td>23%</td>
<td>752,655</td>
<td>225,715</td>
<td>30%</td>
<td>221,412</td>
<td>72,246</td>
<td>33%</td>
</tr>
<tr>
<td>Greater New Haven</td>
<td>446,916</td>
<td>116,457</td>
<td>26%</td>
<td>93,138</td>
<td>31,709</td>
<td>34%</td>
<td>28,157</td>
<td>10,258</td>
<td>38%</td>
</tr>
<tr>
<td>New Haven</td>
<td>122,320</td>
<td>58,932</td>
<td>48%</td>
<td>28,672</td>
<td>17,874</td>
<td>62%</td>
<td>8,725</td>
<td>6,123</td>
<td>83%</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>136,850</td>
<td>33,693</td>
<td>25%</td>
<td>27,420</td>
<td>8,718</td>
<td>32%</td>
<td>8,445</td>
<td>2,616</td>
<td>31%</td>
</tr>
<tr>
<td>East Haven</td>
<td>28,741</td>
<td>6,451</td>
<td>22%</td>
<td>5,438</td>
<td>1,811</td>
<td>33%</td>
<td>1,513</td>
<td>477</td>
<td>32%</td>
</tr>
<tr>
<td>Hamden</td>
<td>56,160</td>
<td>10,621</td>
<td>19%</td>
<td>10,736</td>
<td>2,076</td>
<td>19%</td>
<td>3,863</td>
<td>484</td>
<td>14%</td>
</tr>
<tr>
<td>West Haven</td>
<td>51,949</td>
<td>16,621</td>
<td>32%</td>
<td>11,246</td>
<td>4,831</td>
<td>43%</td>
<td>3,563</td>
<td>1,655</td>
<td>48%</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>187,746</td>
<td>23,832</td>
<td>13%</td>
<td>37,046</td>
<td>5,117</td>
<td>14%</td>
<td>9,987</td>
<td>1,519</td>
<td>15%</td>
</tr>
<tr>
<td>Milford</td>
<td>53,399</td>
<td>8,027</td>
<td>15%</td>
<td>9,563</td>
<td>1,813</td>
<td>19%</td>
<td>2,823</td>
<td>624</td>
<td>22%</td>
</tr>
</tbody>
</table>
### TABLE 2F

**Financial insecurity**

**SHARE OF ADULTS, GREATER NEW HAVEN, 2018**

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>JUST GETTING BY</th>
<th>LESS THAN 2MO SAVINGS</th>
<th>NEGATIVE NET WORTH</th>
<th>FOOD INSECURE</th>
<th>UTILITY SHUTOFF THREAT</th>
<th>TRANSPORTATION INSECURE</th>
<th>NO BANK ACCOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>33%</td>
<td>33%</td>
<td>17%</td>
<td>13%</td>
<td>10%</td>
<td>12%</td>
<td>9%</td>
</tr>
<tr>
<td>GNH</td>
<td>34%</td>
<td>33%</td>
<td>18%</td>
<td>13%</td>
<td>10%</td>
<td>13%</td>
<td>11%</td>
</tr>
</tbody>
</table>

**BY DEMOGRAPHIC WITHIN GREATER NEW HAVEN**

<table>
<thead>
<tr>
<th>Category</th>
<th>JUST GETTING BY</th>
<th>LESS THAN 2MO SAVINGS</th>
<th>NEGATIVE NET WORTH</th>
<th>FOOD INSECURE</th>
<th>UTILITY SHUTOFF THREAT</th>
<th>TRANSPORTATION INSECURE</th>
<th>NO BANK ACCOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>29%</td>
<td>27%</td>
<td>14%</td>
<td>12%</td>
<td>7%</td>
<td>12%</td>
<td>11%</td>
</tr>
<tr>
<td>Female</td>
<td>38%</td>
<td>39%</td>
<td>22%</td>
<td>14%</td>
<td>12%</td>
<td>13%</td>
<td>10%</td>
</tr>
<tr>
<td>Age 18–34</td>
<td>42%</td>
<td>42%</td>
<td>21%</td>
<td>18%</td>
<td>13%</td>
<td>19%</td>
<td>17%</td>
</tr>
<tr>
<td>Age 35–49</td>
<td>41%</td>
<td>35%</td>
<td>28%</td>
<td>20%</td>
<td>14%</td>
<td>13%</td>
<td>11%</td>
</tr>
<tr>
<td>Age 50–64</td>
<td>32%</td>
<td>31%</td>
<td>8%</td>
<td>10%</td>
<td>11%</td>
<td>10%</td>
<td>7%</td>
</tr>
<tr>
<td>Age 65+</td>
<td>21%</td>
<td>23%</td>
<td>12%</td>
<td>5%</td>
<td>3%</td>
<td>8%</td>
<td>5%</td>
</tr>
<tr>
<td>White</td>
<td>32%</td>
<td>32%</td>
<td>15%</td>
<td>9%</td>
<td>9%</td>
<td>10%</td>
<td>7%</td>
</tr>
<tr>
<td>Black</td>
<td>42%</td>
<td>43%</td>
<td>27%</td>
<td>20%</td>
<td>14%</td>
<td>20%</td>
<td>18%</td>
</tr>
<tr>
<td>Latino</td>
<td>47%</td>
<td>52%</td>
<td>24%</td>
<td>38%</td>
<td>20%</td>
<td>29%</td>
<td>27%</td>
</tr>
<tr>
<td>&lt;$15K</td>
<td>60%</td>
<td>61%</td>
<td>32%</td>
<td>33%</td>
<td>14%</td>
<td>33%</td>
<td>41%</td>
</tr>
<tr>
<td>$15K–$30K</td>
<td>60%</td>
<td>47%</td>
<td>33%</td>
<td>26%</td>
<td>22%</td>
<td>26%</td>
<td>15%</td>
</tr>
<tr>
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<td>42%</td>
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<td>16%</td>
<td>15%</td>
<td>12%</td>
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<tr>
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<td>8%</td>
</tr>
<tr>
<td>$75K–$100K</td>
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<tr>
<td>$100K–$200K</td>
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<td>4%</td>
<td>2%</td>
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<tr>
<td>$200K+</td>
<td>8%</td>
<td>9%</td>
<td>2%</td>
<td>6%</td>
<td>2%</td>
<td>1%</td>
<td>2%</td>
</tr>
</tbody>
</table>

**BY GEOGRAPHY**

<table>
<thead>
<tr>
<th>Category</th>
<th>JUST GETTING BY</th>
<th>LESS THAN 2MO SAVINGS</th>
<th>NEGATIVE NET WORTH</th>
<th>FOOD INSECURE</th>
<th>UTILITY SHUTOFF THREAT</th>
<th>TRANSPORTATION INSECURE</th>
<th>NO BANK ACCOUNT</th>
</tr>
</thead>
<tbody>
<tr>
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<td>41%</td>
<td>39%</td>
<td>24%</td>
<td>21%</td>
<td>14%</td>
<td>21%</td>
<td>19%</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>36%</td>
<td>38%</td>
<td>22%</td>
<td>14%</td>
<td>12%</td>
<td>14%</td>
<td>10%</td>
</tr>
<tr>
<td>East Haven</td>
<td>32%</td>
<td>36%</td>
<td>16%</td>
<td>11%</td>
<td>14%</td>
<td>14%</td>
<td>6%</td>
</tr>
<tr>
<td>Hamden</td>
<td>32%</td>
<td>35%</td>
<td>19%</td>
<td>12%</td>
<td>10%</td>
<td>15%</td>
<td>8%</td>
</tr>
<tr>
<td>West Haven</td>
<td>42%</td>
<td>46%</td>
<td>24%</td>
<td>18%</td>
<td>12%</td>
<td>15%</td>
<td>14%</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>25%</td>
<td>27%</td>
<td>9%</td>
<td>6%</td>
<td>4%</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Milford</td>
<td>32%</td>
<td>36%</td>
<td>14%</td>
<td>9%</td>
<td>3%</td>
<td>7%</td>
<td>5%</td>
</tr>
</tbody>
</table>
“The New Haven–Milford MSA’s level of income inequality ranked 29th of the 100 largest U.S. metropolitan areas.... the highest-earning 5 percent of households in Greater New Haven earned about $237,500 per year—over 10 times more than the roughly $23,000 per year earned by the poorest 20 percent.”
Housing Stock

In 2017, 60 percent of Greater New Haven households owned the home in which they lived, compared to 67 percent statewide.\(^9\) The region's homeownership rate grew slowly but steadily between 1980 and 2010, from 60 to 64 percent.\(^9\) But this gain was essentially wiped out from 2010 to 2017, when the rate fell back to 60 percent.\(^10\) The recent decline in homeownership, a trend that occurred across Connecticut and nationally, reflects the massive impact of the 2008 housing crash and subsequent Great Recession.

Statewide, cities such as New Haven tend to have lower homeownership rates than surrounding suburbs. Only 28 percent of households in New Haven are owner-occupied, versus 63 percent of Inner Ring households and 81 percent of Outer Ring households.\(^10\) Homeownership rates also vary widely by race in Greater New Haven. In 2017, 72 percent of white households owned their housing, compared to 35 percent of Black households and 31 percent of Latino households.\(^10\)

In 2017, the majority of housing units in Greater New Haven were single-family (58 percent), a lower mark than the statewide share of 65 percent.\(^10\) The region's shifting household structure is affecting the types of housing units being built. Housing units in multi-family residential buildings, traditionally concentrated in urban areas, are increasingly becoming the housing type of choice for young workers, single adults, and other non-traditional households, due to a preference to be nearer to the amenities typical of denser, urban communities; the inability to afford a single-family home; or a desire to downsize.

Developers continue to respond to this shift in housing demand: 73 percent of housing units built between 2014 and 2017 were in multi-family buildings, compared to 61 percent built between 2010 and 2013, and just 28 percent built between 2001 and 2004.\(^10\) The city of New Haven captured 34 percent of the region's new housing construction between 2014 and 2017, compared to 42 percent between 2010 and 2013 and 14 percent between 2001 and 2004.\(^10\)

Housing Affordability

The cost of owning a home in Greater New Haven can be high, particularly in the Outer Ring towns. In 2017, Greater New Haven's median housing value was $279,333, slightly above the statewide median of $270,100.\(^10\) Within Greater New Haven and a few

### Table 2G

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>TOTAL HOUSEHOLDS</th>
<th>OWNER OCCUPIED HOUSEHOLDS</th>
<th>HOMEOWNER RATE</th>
<th>WHITE TOTAL HOUSEHOLDS</th>
<th>WHITE OWNER OCCUPIED HOUSEHOLDS</th>
<th>WHITE HOMEOWNER RATE</th>
<th>BLACK TOTAL HOUSEHOLDS</th>
<th>BLACK OWNER OCCUPIED HOUSEHOLDS</th>
<th>BLACK HOMEOWNER RATE</th>
<th>LATINO TOTAL HOUSEHOLDS</th>
<th>LATINO OWNER OCCUPIED HOUSEHOLDS</th>
<th>LATINO HOMEOWNER RATE</th>
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<tr>
<td>United States</td>
<td>118.8M</td>
<td>75.8M</td>
<td>64%</td>
<td>81.3M</td>
<td>58.2M</td>
<td>72%</td>
<td>14.5M</td>
<td>6.1M</td>
<td>42%</td>
<td>15.1M</td>
<td>7M</td>
<td>46%</td>
</tr>
<tr>
<td>Connecticut</td>
<td>1.4M</td>
<td>906,798</td>
<td>67%</td>
<td>1M</td>
<td>762,221</td>
<td>76%</td>
<td>130,842</td>
<td>51,237</td>
<td>39%</td>
<td>164,460</td>
<td>55,850</td>
<td>34%</td>
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<td>Greater New Haven</td>
<td>176,605</td>
<td>106,429</td>
<td>60%</td>
<td>118,683</td>
<td>85,359</td>
<td>72%</td>
<td>27,727</td>
<td>9,794</td>
<td>35%</td>
<td>20,345</td>
<td>6,350</td>
<td>31%</td>
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<tr>
<td>New Haven</td>
<td>49,987</td>
<td>13,913</td>
<td>28%</td>
<td>17,447</td>
<td>6,398</td>
<td>37%</td>
<td>17,095</td>
<td>4,553</td>
<td>27%</td>
<td>12,182</td>
<td>2,287</td>
<td>19%</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>53,539</td>
<td>33,550</td>
<td>63%</td>
<td>35,420</td>
<td>25,012</td>
<td>71%</td>
<td>9,288</td>
<td>4,382</td>
<td>47%</td>
<td>5,836</td>
<td>2,559</td>
<td>44%</td>
</tr>
<tr>
<td>East Haven</td>
<td>11,270</td>
<td>7,787</td>
<td>69%</td>
<td>9,284</td>
<td>6,685</td>
<td>72%</td>
<td>218</td>
<td>196</td>
<td>90%</td>
<td>1,243</td>
<td>496</td>
<td>40%</td>
</tr>
<tr>
<td>Hamden</td>
<td>22,882</td>
<td>14,857</td>
<td>65%</td>
<td>14,600</td>
<td>10,805</td>
<td>74%</td>
<td>5,015</td>
<td>2,541</td>
<td>51%</td>
<td>1,631</td>
<td>779</td>
<td>48%</td>
</tr>
<tr>
<td>West Haven</td>
<td>19,387</td>
<td>10,906</td>
<td>56%</td>
<td>11,536</td>
<td>7,522</td>
<td>65%</td>
<td>4,055</td>
<td>1,645</td>
<td>41%</td>
<td>2,962</td>
<td>1,284</td>
<td>43%</td>
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<tr>
<td>Outer Ring</td>
<td>73,079</td>
<td>58,866</td>
<td>81%</td>
<td>65,816</td>
<td>53,951</td>
<td>82%</td>
<td>1,344</td>
<td>859</td>
<td>64%</td>
<td>2,327</td>
<td>1,504</td>
<td>65%</td>
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<tr>
<td>Milford</td>
<td>21,634</td>
<td>16,525</td>
<td>76%</td>
<td>18,927</td>
<td>14,962</td>
<td>79%</td>
<td>544</td>
<td>303</td>
<td>56%</td>
<td>958</td>
<td>585</td>
<td>61%</td>
</tr>
</tbody>
</table>
surrounding towns, white homeowners have median home values that are similar to the regional median, while Black and Latino homeowners' median values are only about $189,000.107 The substantial differences in housing values between towns in the region mean that many prospective homeowners are limited to more affordable communities, potentially contributing to the region's neighborhood income inequality. Overall, inflation-adjusted median housing values in the region increased by $44,382, or 19 percent, between 2000 and 2017; the statewide increase during this period was $40,853, or 18 percent.108 New Haven saw a particularly large increase of 27 percent during this period, though the city's median home values still lagged significantly behind the region as a whole.109

In Connecticut in 2017, more than 37,000 mortgages were issued to homebuyers,110 5 percent of which qualified as high-cost. High-cost mortgages have annual percentage rates that exceed by a certain threshold the rate that would be granted to a well-qualified borrower.111 These mortgages are more expensive for borrowers, theoretically increasing the risk of default. In Connecticut, the proportion of mortgages qualifying as high-cost held around 1 percent from 2010 to 2012, peaked at 7 percent in 2014, sharply declined, and now appears to be increasing as of 2016. In Greater New Haven, 6 percent of mortgages in 2017 were high-cost, but the percent of high-cost mortgages varied widely by town, from 12 percent in West Haven and 10 percent in New Haven to 1 percent in Woodbridge and 2 percent in Milford and Madison.112

Historically, Black and Latino homebuyers have received high-cost mortgages more often than white borrowers. In Greater New Haven in 2017, just 4 percent of white borrowers received high-cost mortgages, compared to 13 percent of Latino borrowers and 15 percent of Black borrowers. Statewide in the same year, 4 percent of white borrowers, 12 percent of Black borrowers, and 11 percent of Latino borrowers received high-cost mortgages. These loans are often concentrated in areas with more non-white residents. The average high-cost mortgage in Greater New Haven in 2017 went to a homebuyer in a census tract where 41 percent of the residents were people of color. Non-high cost mortgages were given in census tracts with 24 percent people of color, on average.113

Homebuyers with lower incomes are more likely to receive high-cost mortgages. In Greater New Haven, the median income for high-cost borrowers in 2017 was $66,000, compared to $84,000 for borrowers with non-high cost mortgages. The median loan amount for a high-
cost mortgage was $177,000, compared to $218,000 for other mortgages. In both cases, loan amounts are lower than the median home value of $279,333 in Greater New Haven, suggesting that more affordable housing is in demand.

Housing affordability is a serious issue in Greater New Haven. The 2018 DataHaven Community Wellbeing Survey found that 9 percent of adults in Greater New Haven did not have enough money for housing or shelter at some point in the preceding year. But two of every five Greater New Haven households are either housing cost-burdened (21 percent)—meaning that they spend more than the recommended 30 percent of income on housing—or severely cost-burdened (20 percent), meaning more than 50 percent of their income goes toward housing. Renters are generally at heightened risk: 29 percent of renter-occupied households are severely housing cost-burdened, more than double the 14 percent of owner-occupied households.

The overall cost-burden rate in New Haven County peaked in 2010 during the Great Recession at 43 percent, and has steadily decreased during the post-recession years. While the cost-burden rate for homeowners has actually improved since 2005—currently standing at 31 percent—the rate for renters has actually gone up slightly, from 49 percent to 51 percent.

In 2017, the median rent for a two-bedroom housing unit in Greater New Haven was $1,301 per month, or $15,612 annually. Based on this, the average renting household in Greater New Haven would need to earn $52,040 per year to be able to avoid being cost-burdened—about $10,000 more than the median household income of the region's renter households. This rent affordability shortfall varies across the region, but is particularly high in the Inner Ring towns and in New Haven, where the vast majority of households rent and where affordable housing is scarce.

Renters facing this affordability shortfall may also face the possibility of eviction when their wages are not enough to cover rent. The eviction rate (number of evictions per renter-occupied household) in Connecticut between 2001 and 2016 averaged 3.1 percent, peaking at 3.9 percent in 2003. In 2016, the eviction rate in Connecticut was 3.0 percent—or 13,800 households, slightly higher than the national average that year of 2.3 percent. In Greater New Haven, 3.3 percent, or approximately 2,500 households, were evicted in 2016. Sixty percent of these formal evictions took place in New Haven, where 1,481, or 4.1 percent of renter-occupied households, were evicted in 2016. Madison had the lowest eviction rate, 0.8 percent or 9 households. These rates are derived from the best available nationwide evictions dataset, which

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>MEDIAN HOUSING VALUE</th>
<th>NUMBER OF HOUSEHOLDS</th>
<th>SEVERELY COST BURDENED</th>
<th>SEVERE COST BURDEN RATE</th>
<th>NUMBER OF RENTER HOUSEHOLDS</th>
<th>SEVERELY COST BURDENED</th>
<th>RENTER SEVERE COST-BURDEN RATE</th>
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<td>United States</td>
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<td>118,825,921</td>
<td>17,391,545</td>
<td>15%</td>
<td>42,992,786</td>
<td>10,170,930</td>
<td>24%</td>
</tr>
<tr>
<td>Connecticut</td>
<td>$270,100</td>
<td>1,361,755</td>
<td>223,106</td>
<td>16%</td>
<td>454,957</td>
<td>115,898</td>
<td>26%</td>
</tr>
<tr>
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<td>34,870</td>
<td>20%</td>
<td>70,176</td>
<td>20,450</td>
<td>29%</td>
</tr>
<tr>
<td>New Haven</td>
<td>$189,400</td>
<td>49,987</td>
<td>14,386</td>
<td>29%</td>
<td>36,074</td>
<td>11,678</td>
<td>32%</td>
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<tr>
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<td>$210,804</td>
<td>53,539</td>
<td>10,249</td>
<td>19%</td>
<td>19,989</td>
<td>5,430</td>
<td>27%</td>
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<tr>
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<td>20%</td>
<td>3,483</td>
<td>948</td>
<td>27%</td>
</tr>
<tr>
<td>Hamden</td>
<td>$225,700</td>
<td>22,882</td>
<td>3,809</td>
<td>17%</td>
<td>8,025</td>
<td>2,007</td>
<td>25%</td>
</tr>
<tr>
<td>West Haven</td>
<td>$193,300</td>
<td>19,387</td>
<td>4,246</td>
<td>22%</td>
<td>8,481</td>
<td>2,475</td>
<td>29%</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>$339,544</td>
<td>73,079</td>
<td>10,235</td>
<td>14%</td>
<td>14,113</td>
<td>3,342</td>
<td>24%</td>
</tr>
<tr>
<td>Milford</td>
<td>$303,200</td>
<td>21,634</td>
<td>3,579</td>
<td>17%</td>
<td>5,109</td>
<td>1,390</td>
<td>27%</td>
</tr>
</tbody>
</table>
is based on court-reported filings and whether an eviction took place as a result. Because not all evictions take place through the legal system, and because these data are based solely on available court records, these rates likely do not capture the true magnitude of evictions.122

Evictions, whether formal or informal, do not affect all families equally. The 2018 DataHaven Community Wellbeing Survey found that 16 percent of white adults, 25 percent of Black adults, and 39 percent of Latino adults in Greater New Haven had moved within the past three years; of these adults, who were mostly renters, about 4 percent had been evicted.123 Of those renters who were not evicted, about 1 in 10 adults said they had moved in part because of rent increases at their previous home, and about 1 in 14 said they moved because their landlord would not fix things.124 Low-income adults (earning less than $30,000 per year) and adults living with children were more likely to report having been unable to afford adequate housing. For children in housing-insecure families, educational and cognitive development outcomes are a concern as they must cope with the stress of increased residential mobility and risk of homelessness.125

**Housing Discrimination**

Redlining is the shorthand used to refer to the practice of rating certain neighborhoods as risky or undesirable for investment for reasons historically rooted in the races, ethnicities, occupations, and income levels of the areas’ residents. In the early 1930s, the federal government established the Home Owners’ Loan Corporation (HOLC) to help fund mortgages for homebuyers. HOLC created maps of cities that rated neighborhoods from A (“Best”) to D (“Hazardous”), including large parts of New Haven and the Inner Ring towns.126 Neighborhoods rated as “hazardous” were shaded red and were subsequently considered to be too risky for mortgage loans or other investments.

Today, the impact of redlining on communities across the country remains apparent. Comparing the neighborhoods targeted for investment decades ago to demographics from 2010,127 we notice comparatively high rates of homeownership in higher-grade areas—79 percent in Greater New Haven’s A–grade areas compared to 44 percent overall and just 34 percent in D-grade areas. The areas are also racially segregated, and higher-grade areas were predominantly white in 2010. Seventy-eight percent of people in A-grade areas were white, compared to just 28 percent in D-grade areas.128

Zoning is perhaps the most common and powerful tool policymakers have at their disposal to encourage the development of more and more affordable housing where it is needed most, but local zoning codes are often used instead to prevent the development of affordable units. At their worst, zoning regulations further perpetuate decades of race- and class-based discrimination. A recent Connecticut Mirror/ProPublica article reveals the extent to which zoning regulations in southwest Connecticut prevent willing developers from building affordable housing despite evident need and demand.129 When they are permitted to break ground, these affordable developments are disproportionately located in low-income neighborhoods and communities of color, further reinforcing social and economic segregation. For example, according to the Connecticut Department of Housing, 32 percent of New Haven’s total housing units were given some form of government housing assistance in 2018, compared to about 5 percent of units in Milford and about 11 percent of the state’s housing stock overall.130

**Regional Job and Wage Trends**

Since 2000, the number of jobs in Greater New Haven (represented in this subsection by New Haven County, as data were only available at that level) has ebbed and flowed in line with the larger economic climate. The total job count fell following the early 2000s recession, nearly bounced back by 2007, and sharply decreased following the Great Recession. By 2017, the number of jobs in New Haven County (365,909) had somewhat recovered since the last peak in 2007 (372,606).131 This pattern was similar to the statewide trend over the same time period.

While the total number of jobs in New Haven County in 2017 was similar to the number in 2000, they have shifted dramatically toward a service economy. In the early 2000s, the county’s two largest sectors were health care and social assistance and manufacturing. Since then, manufacturing jobs have plummeted by more than
a third, and health care jobs have grown to 71,000 employees.\textsuperscript{132} Home health aides, nurses, and health care managers and executives are among the most common occupations within this sector.\textsuperscript{133} As New Haven County’s senior population grows, health care and social assistance workers will likely continue to be in high demand. The Connecticut Department of Labor’s most recent 2016 forecast estimates that, statewide, the health care and social assistance sector will grow by an additional 11 percent by 2026.\textsuperscript{134} Both educational services and accommodation and food services also saw growth from 2000 to 2017, adding about 7,400 and 6,600 jobs, respectively.\textsuperscript{135} \textit{SEE FIG 2.20}

In 2017, the average wage in New Haven County was $57,091—nearly $10,000 below the state average.
Between 2000 and 2017, the average wage in New Haven County increased by about 3 percent, outpacing the 1 percent wage growth statewide during that period. In the county’s fast-growing service sectors, wages are generally lower, and since 2000 have been largely stagnant. Meanwhile, wages in some higher-paying sectors, such as finance and insurance, have continued to climb. Educational services, now the second-largest sector, posted wage increases of 16 percent over this period.

While the finance and insurance sector accounts for an outsized share of total payroll in Fairfield and Hartford Counties, the same cannot be said in New Haven County, where the sectors with the largest shares of total payroll in 2017 were educational services and health care and social assistance, at 16 and 17 percent, respectively. These sectors also demonstrated the largest growth in share of total payroll between 2000 and 2017, which tracks with their increasing number of employees over this time period.

Transportation and Job Locations
Transportation is a key factor in access to quality jobs. With Greater New Haven residents holding jobs throughout the county and state, and sometimes even beyond state lines, the importance of reliable and affordable transportation cannot be overstated. As is the case in other large cities, New Haven experiences a large net inflow of higher-wage workers each day due to it having a high concentration of higher-paying jobs, with earnings of at least $40,000 per year, though only 20 percent of these high-wage jobs in New Haven are held by city residents. The issue known as spatial mismatch, in which many workers experience “reverse” commutes to get to lower-paying jobs in outer suburbs, is also a concern. While New Haven has the highest share of residents who hold jobs in the same town that they live in, two-thirds of the lower-income workers who live in the city travel to surrounding towns for work; this is seen in the net inflow of lower-wage workers in the Outer Ring suburbs of Milford (5,500), North Haven (4,500), Orange (3,800), and Branford (1,500).

Regional commuter rail connections, bus services, and walking or biking provide options for some workers, especially those employed in city centers. However, most residents rely on a car to reach the greatest number of available jobs within a reasonable commuting distance, as well as necessary services such as shopping and health care. Results from the 2018 DataHaven Community Wellbeing Survey indicate that 14 percent of Greater New Haven’s adults do not have access to a car when they need it. In the region, 46 percent of adults who earn less than $15,000 per year and 26 percent who earn between $15,000 and $30,000 report not having access to a car when needed.

As detailed in a 2014 report, How Transportation Problems Keep People Out of the Workforce in Greater New Haven, these adults also face much higher levels of underemployment. Additionally, about half of adults who face transportation insecurity also report that they have missed a doctor’s appointment in the past year due to lack of reliable transportation. These survey data underscore the importance of alternative local transportation options.

Lack of car access is far more common for Black residents (21 percent) and Latino residents (26 percent) than among white residents (only 10 percent). As discussed above, the substantial disparity in median household income and family wealth between white households and Black and Latino households in Greater New Haven is one important factor in explaining these differences in car access.

Additionally, it is important to consider the potential trade-offs between housing and transportation costs. Adults who seek lower-cost housing farther from work or services may shoulder a much greater burden of transportation expenses, and have to cope with the many other potentially-negative impacts of longer daily travel times, including those related to employment and health.

Underemployment
Though Greater New Haven’s average unemployment rate from 2013 to 2017 mirrored the statewide and nationwide rates (all 7 percent), there was significant variation by place and race/ethnicity within the region. However, a much greater number of residents—particularly within certain population groups—find economic opportunities to be limited. The unemployment rate counts people without a job but looking for work; it does not consider part-time workers who would prefer full-time work, nor those who are interested in working but not actively searching for a job. The DataHaven Community Wellbeing Survey captures both of
In 2018, 20 percent of Greater New Haven adults reported being underemployed. This figure was slightly higher than that of the state, and triple the region’s official unemployment rate in that same year.\textsuperscript{148} The underemployment rate in Greater New Haven varies; for example, three times the share of adults in New Haven were underemployed (30 percent) as in the Outer Ring suburbs (10 percent).\textsuperscript{149} Across Greater New Haven, adults under age 35 face higher rates of underemployment (27 percent) than adults ages 35 to 64 (15 percent).\textsuperscript{150} Additionally, the disproportionately high rates of underemployment among communities of color may play a role in the more negative outlook regarding economic opportunities reported by Black and Latino residents. Overall, the survey results suggest that Greater New Haven residents who earn more than $75,000 per year are almost twice as likely as residents earning less than $30,000 per year to be optimistic about job opportunities for residents in their area. \textsc{see table 2l}

\begin{table}[h]
\centering
\begin{tabular}{|l|c|c|c|c|}
\hline
\textbf{LOCATION} & \textbf{FEEL AREA HAS GOOD OPPORTUNITIES FOR EMPLOYMENT} & \textbf{FEEL YOUTH HAVE OPPORTUNITIES FOR JOB ADVANCEMENT} & \textbf{UNDEREMPLOYED} & \textbf{HAVE ACCESS TO A CAR} \\
\hline
Connecticut & 50\% & 59\% & 16\% & 98\%

Greater New Haven & 49\% & 56\% & 20\% & 96\%

\hline
\textbf{BY DEMOGRAPHIC WITHIN GREATER NEW HAVEN} & & & & \\
\hline
Male & 49\% & 56\% & 20\% & 97\%

Female & 49\% & 56\% & 19\% & 96\%

Age 18–34 & 49\% & 57\% & 27\% & 92\%

Age 35–49 & 50\% & 57\% & 17\% & 99\%

Age 50–64 & 46\% & 55\% & 13\% & 98\%

Age 65+ & 51\% & 53\% & N/A & 98\%

White & 52\% & 57\% & 14\% & 90\%

Black & 38\% & 47\% & 28\% & 79\%

Latino & 39\% & 52\% & 31\% & 74\%

<$15K & 36\% & 48\% & N/A & 54\%

$15K–$30K & 33\% & 38\% & N/A & 74\%

$30K–$50K & 43\% & 62\% & N/A & 97\%

$50K–$75K & 48\% & 51\% & N/A & 90\%

$75K–$100K & 61\% & 56\% & N/A & 93\%

$100K–$200K & 60\% & 71\% & N/A & 99\%

$200K+ & 64\% & 78\% & N/A & 96\%

\hline
\textbf{BY GEOGRAPHY} & & & & \\
\hline
New Haven & 37\% & 41\% & 30\% & 75\%

Inner Ring & 42\% & 52\% & 20\% & 98\%

East Haven & 49\% & 42\% & N/A & 91\%

Hamden & 53\% & 67\% & N/A & 92\%

West Haven & 28\% & 88\% & N/A & 84\%

Outer Ring & 64\% & 72\% & 10\% & 95\%

Milford & 58\% & 71\% & N/A & 94\%

\hline
\end{tabular}
\caption{Economic opportunity \newline SHARE OF ADULTS, GREATER NEW HAVEN, 2018}
\end{table}
Early Childhood
Children’s experiences in their first five years profoundly affect their life outcomes. Their mother’s access to prenatal care, the quality of their living environment, and their social interactions affect their brain development, overall well-being, and ability to succeed in school and beyond.

According to a 2017 Connecticut Voices for Children report, from 2005 to 2016, the state expanded its childcare funding, with the result that 80 percent of four-year-olds in the state were enrolled in preschool, even though the need for care for infants and toddlers was still well ahead of the available capacity. The report notes that community wealth strongly predicts both whether children go to preschool and the level of their later academic performance, suggesting that greater attention should be paid to the economic barriers that prevent many children from accessing high-quality early childhood education.

In 2017, 6,529 children, or 64 percent of the region’s three- and four-year-olds, were enrolled in preschool, including about 2,700 children in preschool classrooms provided by public school districts. This is a small increase from 61 percent enrollment in 2000. As noted in the DataHaven Community Index, preschool enrollment is higher in the Outer Ring than in the region as a whole. Enrollment is particularly low in East Haven where only 37 percent of preschool-aged children are enrolled.

Additionally, childcare providers in Greater New Haven have a combined capacity of 2,567 slots for infants and toddlers, representing only about 18 percent of the region’s children under age 3, indicating a severe shortage in early childcare options.

According to the United Way ALICE Project, the minimum monthly childcare cost for a young family—a household with two adults, one infant, and one preschooler—is about $1,718 in Greater New Haven. In the Greater New Haven region in 2018, the average childcare facility charged about $239 a week to care for infants and toddlers, and about $220 for preschoolers. According to these figures, the young family described above would spend $23,868 per year on childcare.

These high costs have clear implications for the region’s many working families struggling to make ends meet. According to the 2018 DataHaven Community Wellbeing Survey, of the adults in the region living with children below kindergarten age, 48 percent report that it is either somewhat or very difficult to find high-quality, affordable childcare. In Greater New Haven, childcare is both a great financial burden and a great necessity, as it prepares children for the future and enables parents to work.

K-12 and Postsecondary Education
Greater New Haven is home to 59,517 public school students from preschool to 12th grade, including 2,688 in pre-kindergarten programs, 38,969 kindergarten and elementary school students, and 17,860 high schoolers. More than a third of these students attend New Haven public schools. The region’s public school students are just under half (46 percent) white, 27 percent Latino, 20 percent Black, and 8 percent other races. Notably, the region’s Outer Ring towns have far less diverse student bodies: 78 percent of students in the Outer Ring are white, while only 8 percent are Latino and 3 percent are Black. Three of the larger districts are far more diverse: in New Haven, West Haven, and Hamden, no one racial group constitutes a majority.

Students who take special education classes, who qualify for free or reduced-price meals (FRPM) at school based on family incomes less than 185 percent of the federal poverty level, or who are English Language Learners (ELL) are considered to be high-needs students; students may have more than one of these designations. In the region, 15 percent of students have a special education designation, 45 percent of students qualify for FRPM, and 9 percent of students are ELL. New Haven and the Inner Ring districts serve larger shares of high-needs students than the Outer Ring towns. Special education students make up similar shares of students throughout the region (15 percent in New Haven, 17 percent in the Inner Ring, and 13 percent in the Outer Ring), but ELL students are more concentrated in New Haven (17 percent) and the Inner Ring (10 percent) than the Outer Ring (3 percent), as are FRPM-eligible students (70 percent in New Haven, 52 percent Inner Ring, 18 percent Outer Ring).

On the state’s major standardized test, the Smarter Balanced Assessment Consortium (SBAC), scores rated as meeting or exceeding grade-level goals are considered passing. Since 2015, students in Greater New Haven public school districts have
consistently had passing rates 3 to 6 percentage points below the state’s average in both English/language arts (ELA) and math, though math scores have improved from 33 percent passing in the 2014–15 school year to 43 percent in 2017–18. ELA scores are generally higher: 51 percent of Greater New Haven students passed ELA in the 2017–18 school year, only 1 percentage point above the 2014–15 test.\textsuperscript{163}

Stark disparities in standardized test performance exist throughout Greater New Haven. In the 2017–18 school year, white students had about twice the pass rate (66 percent) of Black (31 percent) and Latino students (34 percent) in ELA; these gaps are even wider in math. Gaps of similar magnitude exist as well between students eligible for FRPM and those ineligible, and are more severe between students in special education and those not, and ELL versus non-ELL students.\textsuperscript{164} \textsuperscript{SEE FIG 2.23}

Though Greater New Haven’s four-year high school graduation rate is about the same as the state average—rising from 80 percent of the class of 2011 to 87 percent of the class of 2017 graduating on time—the region’s achievement gap appears here as well. Of the class of 2017, 91 percent of the region’s white students graduated on time, several percentage points above the rates of Black students (80 percent) and Latino students (79 percent), a pattern mirrored statewide. The gaps are even wider for high-needs students: the four-year high school graduation rate is only 68 percent for special education students, 73 percent for ELL students, and 77 percent for FRPM students in the region.\textsuperscript{165} \textsuperscript{SEE FIG 2.23}

In discussing achievement gaps, it is worth noting the role of school segregation and distribution of resources. There are 14 public school districts within Greater New Haven, but the majority of Black, Latino, FRPM, and ELL students are concentrated in just a few. Three districts—New Haven, Hamden, and West Haven—educate a combined 55 percent of the region’s students, but are home to 93 percent of the region’s Black students, 83 percent of Latino students, 77 percent of FRPM-eligible students, and 85 percent of ELL students.\textsuperscript{166} Sixty-eight percent of the region’s Black students go to school in New Haven alone. These are also towns that have less money available to spend on students and other resources that can support opportunities for young people. \textsuperscript{SEE CHAPTER 4}

One way to level the playing field moving into adulthood might be through post-secondary preparatory programs. Many high schools offer college and career readiness (CCR) programs, including Advanced Placement (AP), International Baccalaureate (IB), career education, and other opportunities. In the 2017–18 school year, 66 percent of Greater New Haven’s 11th- and 12th-graders were in CCR courses and programs—or more than 5,800 upperclassmen. This varies widely between districts, from 90 percent of Madison upperclassmen being in CCR to 46 percent in East Haven; in New Haven, 64 percent are in CCR.\textsuperscript{167}

While three out of four high school graduates in the area enroll in college within a year, and 88 percent of those students re-enroll for a second consecutive year, less than half of the public high school graduates in Greater New Haven have a college degree six years after graduating high school.\textsuperscript{168} A 2019 report from Fairfield County’s Community Foundation highlights the importance of post-secondary certificates offered in expanding job sectors at community colleges.\textsuperscript{169} \textsuperscript{SEE FIGURE 2.24 / SEE TABLE 2M}

The city of New Haven has seen several positive trends in high school and college graduation rates since the introduction of New Haven Promise in 2010. This program provides up to full-tuition college scholarships to qualifying public school students. Since 2010, school enrollment in New Haven public schools increased by 17 percent.\textsuperscript{170} During this time, graduation rates for the district’s Black and Latino students have increased from 61 percent of the class of 2010 to 78 percent of the class of 2017, the highest among Connecticut’s four largest districts.\textsuperscript{171} According to the program, Promise Scholars are completing college within six years at a rate of 65 percent, compared to 48 percent of students in Greater New Haven.\textsuperscript{172} Black students, who comprise nearly half of the Promise Scholars attending four year colleges, have a college graduation rate of 64 percent, more than 20 points higher than the national average, and 63 percent of the students from the lowest household income bracket (under $30,000)—the largest segment of Promise scholars—graduated within six years.\textsuperscript{173}

Adults with high school diplomas or college degrees have more employment options and considerably higher potential earnings, on average, than those who do not finish high school.\textsuperscript{174} In 2017, 9 percent of adults ages 25 and older in the region had less than a high school education. This is about
27,900 people. While 40 percent of adults in the region have four-year college degrees, attainment rates are not as high in some areas, particularly in the city of New Haven where 15 percent of adults 25 years and older lack a high school diploma.\textsuperscript{175} SEE TABLE 1B, 2N

**Risk Factors for Youth**

There is room for improvement regarding chronic absenteeism in Greater New Haven, which is a detriment to academic success, especially when it occurs in early grades. A national study found that over half of chronically-absent kindergarteners became chronically-absent first graders.\textsuperscript{176} Chronic absenteeism is defined as a student missing at least 10 percent of the days for which they were enrolled during a school year. In the 2017–18 school year, 13 percent of students in Greater New Haven were chronically absent from school. This rate included 8 percent of white students, 20 percent of Black students, 18 percent of Latino students, and 9 percent of students of other races/ethnicities. Further, special education students and those eligible for FRPM were more than twice as likely to miss so many days of school as their lower-risk counterparts.\textsuperscript{177} Factors that contribute to chronic absenteeism may include individual- and family-level predictors such as asthma and other chronic diseases, poverty, and parent involvement, as well as school-level factors such as bullying and school maintenance.\textsuperscript{178} SEE FIG 2.23

Academic disadvantages that result from chronic absenteeism are also at play for students who miss class due to in-school or out-of-school suspensions. Students who are suspended or expelled from school are more likely to have negative perceptions of school\textsuperscript{179} and to have lower GPAs.\textsuperscript{180} Perhaps most gravely, they are also more likely to be involved with the juvenile justice system.\textsuperscript{181} Black and Latino students—particularly boys—are expelled or suspended far more frequently than white students,\textsuperscript{182} even as early as preschool.\textsuperscript{183} Even when the confounding effects of socioeconomic status are controlled for, Black students are still disciplined more frequently than their white counterparts.\textsuperscript{184} In Greater New Haven public schools, Black students are suspended or expelled at a rate three times greater than white students and special education students are suspended or expelled more than twice as often as students who are not in special education. \textsuperscript{SEE FIG 2.22}

Adults’ perceptions of what youth in their towns are likely to experience are generally positive, but vary greatly from town to town. For example, in New Haven, adults are much less likely to think that a young person in their town will graduate from high school or get a job with opportunities for advancement compared to adults in the state and surrounding towns. New Haven residents are three times more likely than...
residents statewide to think that a young person in their neighborhood will get arrested for a felony. In addition to perceptual differences by place within the region, adults also perceive youth experiences differently depending on race. Black and Latino adults in Greater New Haven are more than three times as likely as white adults to think that children in their neighborhood will someday be arrested for a felony. Lastly, wealth correlates with more positive perceptions of young people’s future experiences. For example, 43 percent of adults earning under $30,000 think that their neighborhood youth are very likely to get a job with opportunities for advancement, compared to 73 percent of adults earning $100,000 or more who think the same. As a result of factors beyond their control, these children are subject to the effects of differential access to quality education, post-secondary and employment opportunities, and wealth-building opportunities. Those with better access tend to have correspondingly better overall health and higher quality of life than people with limited access to those opportunities. 

The relationship between education and subsequent economic opportunity is apparent. The quality of a child’s education is highly correlated with upward mobility, but a person’s economic future is largely dependent upon the circumstances of their youth. The place a child grows up, their race, and their family’s income will generally determine whether that child will move up the socioeconomic ladder. Children in Connecticut are slightly more advantaged than children nationwide—partially due to the state’s overall wealth—but other disparities are evident. White children in New Haven County, regardless of their family’s income, are more likely than their Black or Latino peers to experience upward economic mobility. In New Haven County, the probability of

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>POPULATION AGES 25+</th>
<th>NO HIGH SCHOOL DIPLOMA</th>
<th>NO HIGH SCHOOL DIPLOMA SHARE</th>
<th>BACHELORS OR HIGHER</th>
<th>BACHELORS OR HIGHER SHARE</th>
<th>MASTERS OR HIGHER</th>
<th>MASTERS OR HIGHER SHARE</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>216,271,644</td>
<td>27,437,114</td>
<td>13%</td>
<td>66,887,603</td>
<td>31%</td>
<td>25,510,535</td>
<td>12%</td>
</tr>
<tr>
<td>Connecticut</td>
<td>2,480,287</td>
<td>242,500</td>
<td>10%</td>
<td>953,199</td>
<td>38%</td>
<td>421,144</td>
<td>17%</td>
</tr>
<tr>
<td>Greater New Haven</td>
<td>317,760</td>
<td>27,884</td>
<td>9%</td>
<td>125,603</td>
<td>40%</td>
<td>61,505</td>
<td>19%</td>
</tr>
<tr>
<td>New Haven</td>
<td>81,047</td>
<td>12,443</td>
<td>15%</td>
<td>27,505</td>
<td>34%</td>
<td>14,920</td>
<td>18%</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>97,435</td>
<td>8,965</td>
<td>9%</td>
<td>31,772</td>
<td>33%</td>
<td>14,830</td>
<td>15%</td>
</tr>
<tr>
<td>East Haven</td>
<td>21,094</td>
<td>2,044</td>
<td>10%</td>
<td>4,999</td>
<td>24%</td>
<td>1,793</td>
<td>9%</td>
</tr>
<tr>
<td>Hamden</td>
<td>40,302</td>
<td>2,440</td>
<td>6%</td>
<td>18,089</td>
<td>45%</td>
<td>9,523</td>
<td>24%</td>
</tr>
<tr>
<td>West Haven</td>
<td>36,039</td>
<td>4,481</td>
<td>12%</td>
<td>8,684</td>
<td>24%</td>
<td>3,514</td>
<td>10%</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>139,278</td>
<td>6,476</td>
<td>5%</td>
<td>66,326</td>
<td>48%</td>
<td>31,755</td>
<td>23%</td>
</tr>
<tr>
<td>Milford</td>
<td>40,468</td>
<td>2,130</td>
<td>5%</td>
<td>16,739</td>
<td>41%</td>
<td>7,088</td>
<td>18%</td>
</tr>
</tbody>
</table>

SEE FIG 2.25

SEE FIG 2.26 DH
“Between 1990 and 2017, the number of immigrants residing in Greater New Haven doubled, increasing by 29,617 individuals.”
Overall, Greater New Haven is a healthy place to call home.
Residents’ average self-reported health and life expectancy are similar to those of the state overall and higher than the country. However, these measures belie more concerning health patterns for both lower-income and Black and Latino residents. Residents of more marginalized neighborhoods of Greater New Haven are less likely to report being in good health; have lower life expectancies—by up to 15 years; shoulder a higher burden of chronic illnesses such as cardiovascular disease—for which middle-aged Black adults are up to ten times more likely than whites to be hospitalized—and childhood asthma; have considerably higher rates of infant mortality; and report higher rates of anxiety and depression. One health struggle that is currently borne to a greater extent by white Greater New Haven residents is the opioid epidemic. The drug overdose death rate has been higher for white residents than people of color, but death rates are increasing more rapidly among people of color in the past few years.

Disparities also exist in health insurance coverage and preventive care. While only 4 percent of white adults are uninsured, 7 percent of Black adults, 12 percent of Latino adults, and 9 percent of adults with incomes under $30,000 lack health insurance. More than two in ten residents reported postponing potentially necessary medical care, citing numerous barriers. These barriers may contribute to residents’ reliance on health care delivered in the emergency room: in 2018, more than a quarter of adults in Greater New Haven reported going to the emergency room at least once. Greater reliance on the emergency room, measured by those who visited an ER at least three times in the past year, was twice as high among lower-income adults as among those with higher incomes.

Analysis of all available data did point to some potential improvements over recent years, including lower rates of non-adequate prenatal care and low-birthweight babies. One potential cause for these decreases could be area disease prevention programs and strategies. Another cautiously optimistic note was seen in 2017 and 2018, when deaths due to opioids decreased; however, there is still much need for improvement regarding opioids. DH

IN THIS CHAPTER

- Greater New Haven is relatively healthy, but there are disparities across its towns and diverse demographic groups.
- Overdose-related deaths are increasing, particularly due to fentanyl.
- Race-based discrimination is an obstacle to residents moving to certain areas, working, and accessing healthcare.
- Patterns of inequity can be seen in barriers to healthcare access and in health outcomes.

Executive Summary

Residents’ average self-reported health and life expectancy are similar to those of the state overall and higher than the country. However, these measures belie more concerning health patterns for both lower-income and Black and Latino residents. Residents of more marginalized neighborhoods of Greater New Haven are less likely to report being in good health; have lower life expectancies—by up to 15 years; shoulder a higher burden of chronic illnesses such as cardiovascular disease—for which middle-aged Black adults are up to ten times more likely than whites to be hospitalized—and childhood asthma; have considerably higher rates of infant mortality; and report higher rates of anxiety and depression. One health struggle that is currently borne to a greater extent by white Greater New Haven residents is the opioid epidemic. The drug overdose death rate has been higher for white residents than people of color, but death rates are increasing more rapidly among people of color in the past few years.

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“In the 2018 DataHaven Community Wellbeing Survey, nearly one in every three adults in Greater New Haven reported knowing someone who has struggled with opioid abuse or addiction in the past three years.”
FIG 3.1
Life expectancy in Greater New Haven is high, but often differs by several years between adjacent neighborhoods

ESTIMATED LIFE EXPECTANCY IN YEARS, GREATER NEW HAVEN, 2010–2015
### FIG 3.2

**Cancers and infant/fetal mortality impact Greater New Haven’s lifespans the most**

**YEARS OF POTENTIAL LIFE LOST BEFORE AGE 75 PER 100,000 RESIDENTS BY CAUSE OF DEATH, GREATER NEW HAVEN, 2010–2014**

<table>
<thead>
<tr>
<th>GENERAL CAUSES</th>
<th>YEARS OF POTENTIAL LIFE LOST TO AGE 75 PER 100K RESIDENTS</th>
<th>AVG. YEARS LOST PER DEATH</th>
<th>DEATHS BEFORE AGE 75</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td></td>
<td>13</td>
<td>2,346</td>
</tr>
<tr>
<td>INFANT/FETAL MORTALITY</td>
<td></td>
<td>74.5</td>
<td>269</td>
</tr>
<tr>
<td>ACCIDENT</td>
<td></td>
<td>30</td>
<td>587</td>
</tr>
<tr>
<td>HEART DISEASE</td>
<td></td>
<td>14</td>
<td>1,221</td>
</tr>
<tr>
<td>DRUGS</td>
<td></td>
<td>32</td>
<td>312</td>
</tr>
<tr>
<td>HOMICIDE</td>
<td></td>
<td>39</td>
<td>136</td>
</tr>
<tr>
<td>SUICIDE</td>
<td></td>
<td>30</td>
<td>185</td>
</tr>
<tr>
<td>CHRONIC LIVER DISEASE</td>
<td></td>
<td>17</td>
<td>172</td>
</tr>
<tr>
<td>DIABETES</td>
<td></td>
<td>12</td>
<td>164</td>
</tr>
<tr>
<td>STROKE</td>
<td></td>
<td>14</td>
<td>135</td>
</tr>
<tr>
<td>SEPSIS</td>
<td></td>
<td>10</td>
<td>181</td>
</tr>
<tr>
<td>CHRONIC LOWER RESPIRATORY DISEASE</td>
<td></td>
<td>19</td>
<td>76</td>
</tr>
<tr>
<td>HIV</td>
<td></td>
<td>10</td>
<td>125</td>
</tr>
<tr>
<td>KIDNEY DISEASE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER TYPES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LUNG</td>
<td></td>
<td>11</td>
<td>618</td>
</tr>
<tr>
<td>BREAST</td>
<td></td>
<td>15</td>
<td>186</td>
</tr>
<tr>
<td>COLORECTAL</td>
<td></td>
<td>14</td>
<td>160</td>
</tr>
<tr>
<td>PANCREATIC</td>
<td></td>
<td>11</td>
<td>152</td>
</tr>
<tr>
<td>ACCIDENT TYPES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POISONING</td>
<td></td>
<td>32</td>
<td>273</td>
</tr>
<tr>
<td>MOTOR VEHICLE</td>
<td></td>
<td>36</td>
<td>143</td>
</tr>
<tr>
<td>FALLS</td>
<td></td>
<td>18</td>
<td>69</td>
</tr>
</tbody>
</table>

Legend:
- Greater New Haven
- Outer Ring
- Inner Ring
- Larger GNH Towns

DataHaven
Greater New Haven Community Index
FIG 3.3
Rates of hospitalizations and ED visits vary by geography
AGE-ADJUSTED AND RELATIVE AGE-ADJUSTED RATES, PER 10,000 RESIDENTS, 2015–2017
FIG 3.4
Preventable hospital visits show large differences across age and gender
CHRONIC DISEASE, ENCOUNTER RATE (PER 10,000 RESIDENTS), 2015–2017

Heart Disease

Diabetes

Hypertension, Uncontrolled

Diabetes, Uncontrolled

Asthma

COPD
FIG 3.5
Preventable hospital visits show large differences across age and gender
OTHER HEALTH ISSUES, ENCOUNTER RATE (PER 10,000 RESIDENTS), 2015–2017
FIG 3.6
Growing inequality in rates of hospital encounters
CHRONIC DISEASE, AGE-ADJUSTED RATE OF HOSPITALIZATIONS AND ED ENCOUNTERS (PER 10,000 RESIDENTS), 2012–2014 TO 2015–2017
FIG 3.7
Growing inequality in rates of hospital encounters
OTHER HEALTH ISSUES, AGE-ADJUSTED RATE OF HOSPITALIZATIONS AND ED ENCOUNTERS (PER 10,000 RESIDENTS), 2012–2014 TO 2015–2017
### FIG 3.8

**Across groups, large shares of adults say youth susceptibility to drug and alcohol abuse is a toss-up**

**Residents’ rating of likelihood that youth in their area will abuse drugs or alcohol, percent of respondents by race and income, Greater New Haven, 2018**

<table>
<thead>
<tr>
<th>TOTAL</th>
<th>CONNECTICUT</th>
<th>NOT AT ALL LIKELY</th>
<th>NOT VERY LIKELY</th>
<th>A TOSS UP</th>
<th>VERY LIKELY</th>
<th>ALMOST CERTAIN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7%</td>
<td>21%</td>
<td>42%</td>
<td>21%</td>
<td>8%</td>
<td>8%</td>
</tr>
<tr>
<td></td>
<td>6%</td>
<td>21%</td>
<td>43%</td>
<td>20%</td>
<td>8%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12%</td>
<td>32%</td>
<td>34%</td>
<td>14%</td>
<td>8%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RACE/ETHNICITY</th>
<th>WHITE</th>
<th>NOT AT ALL LIKELY</th>
<th>NOT VERY LIKELY</th>
<th>A TOSS UP</th>
<th>VERY LIKELY</th>
<th>ALMOST CERTAIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHITE</td>
<td>5%</td>
<td>18%</td>
<td>48%</td>
<td>23%</td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td>BLACK</td>
<td>14%</td>
<td>27%</td>
<td>38%</td>
<td>10%</td>
<td>10%</td>
<td></td>
</tr>
<tr>
<td>LATINO</td>
<td>12%</td>
<td>26%</td>
<td>24%</td>
<td>17%</td>
<td>20%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INCOME</th>
<th>UNDER $30K</th>
<th>NOT AT ALL LIKELY</th>
<th>NOT VERY LIKELY</th>
<th>A TOSS UP</th>
<th>VERY LIKELY</th>
<th>ALMOST CERTAIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNDER $30K</td>
<td>16%</td>
<td>29%</td>
<td>30%</td>
<td>13%</td>
<td>13%</td>
<td></td>
</tr>
<tr>
<td>$30K–75K</td>
<td>4%</td>
<td>25%</td>
<td>46%</td>
<td>20%</td>
<td>4%</td>
<td></td>
</tr>
<tr>
<td>$75K–100K</td>
<td>4%</td>
<td>22%</td>
<td>50%</td>
<td>16%</td>
<td>7%</td>
<td></td>
</tr>
<tr>
<td>$100K+</td>
<td>3%</td>
<td>8%</td>
<td>51%</td>
<td>26%</td>
<td>11%</td>
<td></td>
</tr>
</tbody>
</table>
**FIG 3.9**

Overdose death rates have skyrocketed, but are beginning to subside again

AGE-ADJUSTED MONTHLY RATE OF DRUG OVERDOSE DEATHS PER 1 MILLION RESIDENTS, 2012–2018

**FIG 3.10**

Fentanyl's steep rise coincided with overall increasing drug overdoses

COUNT OF DRUG OVERDOSE DEATHS AT 6-MONTH INTERVALS BY PRESENCE OF FENTANYL, WITH PERCENTAGE OF DEATHS THAT ARE FENTANYL-RELATED, GREATER NEW HAVEN, 2012–2018
FIG 3.11
Residents often see their race as major reason for discrimination in multiple areas of their lives

PERCENT OF ADULTS REPORTING PERCEIVED REASONS FOR THEIR DISCRIMINATION, OF ADULTS CITING A REASON FOR EXPERIENCES OF DISCRIMINATION, GREATER NEW HAVEN, 2018

<table>
<thead>
<tr>
<th>Reason</th>
<th>Total</th>
<th>White</th>
<th>Black</th>
<th>Latino</th>
<th>Some Other Aspect of Physical Appearance</th>
<th>Health</th>
<th>Insurance Status</th>
<th>Gender</th>
<th>Age</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unfair Police Stops</td>
<td>52%</td>
<td>28%</td>
<td>46%</td>
<td>44%</td>
<td>30%</td>
<td>28%</td>
<td>23%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prevented From Moving</td>
<td>46%</td>
<td>11%</td>
<td>12%</td>
<td>8%</td>
<td></td>
<td>9%</td>
<td>8%</td>
<td>8%</td>
<td></td>
</tr>
<tr>
<td>Unequal Access to Healthcare</td>
<td>44%</td>
<td>12%</td>
<td>8%</td>
<td>9%</td>
<td></td>
<td>8%</td>
<td></td>
<td>8%</td>
<td></td>
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<tr>
<td>Workplace Discrimination</td>
<td>30%</td>
<td>28%</td>
<td>18%</td>
<td>10%</td>
<td></td>
<td></td>
<td></td>
<td>4%</td>
<td>4%</td>
</tr>
</tbody>
</table>

FIG 3.12
Black, Latino, and lower-income adults with less education disproportionately experience negative encounters with police

PERCENT OF GREATER NEW HAVEN ADULTS REPORTING UNFAIR POLICE STOPS, SEARCHES, OR OTHER MISTREATMENT AND FREQUENCY OF INCIDENTS, BY RACE AND EDUCATION, 2018

<table>
<thead>
<tr>
<th>Race/Education</th>
<th>At Least One Incident</th>
<th>Multiple Incidents in Past 3 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>11%</td>
<td>4%</td>
</tr>
<tr>
<td>CT</td>
<td>12%</td>
<td>4%</td>
</tr>
<tr>
<td>Greater New Haven (GNH)</td>
<td>18%</td>
<td>8%</td>
</tr>
<tr>
<td>New Haven (NH)</td>
<td>8%</td>
<td>8%</td>
</tr>
<tr>
<td>White</td>
<td>8%</td>
<td>9%</td>
</tr>
<tr>
<td>Black</td>
<td>23%</td>
<td>20%</td>
</tr>
<tr>
<td>Latino</td>
<td>20%</td>
<td>14%</td>
</tr>
<tr>
<td>High School or Less</td>
<td>14%</td>
<td>4%</td>
</tr>
<tr>
<td>Some College or Associate’s Degree or Higher</td>
<td>15%</td>
<td>5%</td>
</tr>
<tr>
<td>Bachelor’s Degree or Higher</td>
<td>10%</td>
<td>3%</td>
</tr>
</tbody>
</table>
Chapter 3   Creating a Healthier Region

CONNECTING HEALTH AND WEALTH

As in the nation as a whole, the health of Greater New Haven’s residents helps drive their high quality of life and economic vitality. Children and adults who have the resources they need to reach their full health potential face fewer barriers to success in school and in the workforce, and experience fewer health care costs. Over the long term, employers and individual households prefer to establish themselves in areas where they can benefit from this resulting prosperity. Furthermore, any healthy population is going to be stronger, more innovative, and better able to overcome adversity than one facing greater barriers to health.

According to the 2018 DataHaven Community Wellbeing Survey, 58 percent of Greater New Haven’s adults reported being in very good health—a figure that was similar to the statewide average (59 percent)\textsuperscript{189}, and above the most recent national rate (51 percent).\textsuperscript{190} This measure of self-rated health is widely used, as it is one of the most reliable ways to predict a population’s quality of life and lifespan.\textsuperscript{191}

Similarly, most Greater New Haven residents can expect to live long and healthy lives. The average life expectancy in the region was 79.8 years from 2010 to 2015, above the national average of 78.7 years, and fairly similar to the statewide average of 80.3 years.\textsuperscript{192}

There are many opportunities to improve the region even further by reducing or removing the barriers that prevent all residents from reaching their full health potential. The conditions that shape the health a person experiences throughout their lifespan are known as the social determinants of health.

While the U.S. is financially prosperous overall, its income-related health differences are among the highest of all middle- or high-income nations in the world. Nationally, wealthier residents (i.e., those earning $100,000 or more annually) are nearly half as likely as middle-income residents to rate their health as fair or poor, and the percent of low-income residents who reported not being able to access health care due to the cost was 16 percentage points higher than among wealthy residents.\textsuperscript{193} Income-related differences in health are also evident in Greater New Haven, where 73 percent of adults earning $100,000 or more per year report being in excellent or very good health, compared to just 42 percent of adults who earn less than $30,000 per year.\textsuperscript{194}

Income and employment status often drive differences in access to healthcare, the likelihood of getting preventative screenings as recommended, the affordability of life-saving medicines, and the ability to purchase other goods and services, including high-quality housing. These differences can compound over generations, as children who grow up in higher-income households are more likely to succeed in school and obtain jobs with greater potential for advancement.

Factors such as racial or gender-based discrimination, sleep deprivation, health literacy, linguistic isolation, family social history, excessive debt, and variations in the quality of the built environment—all of which can underlie income differences—also play a role in disparate health outcomes. Poor health can worsen as these factors interact with each other.

On the other hand, communities may enact policies and provide resources that can improve the health status of all people. These “protective factors” include stable and affordable housing, accessible childcare, reliable transportation options, green spaces and places to exercise, effective public health services, and policies such as paid family leave. Region-wide efforts to align policies, unify monitoring and data collection systems, and address gaps in services can help begin to create conditions in which everyone can achieve their full health potential.

Information collected during the 2019 Community Health Needs Assessment process—including data on life expectancy, adverse conditions, and self-rated health, as well as interviews and focus groups with hundreds of residents and local experts—reveal that concerns around well-being and the social determinants of health vary significantly from neighborhood to neighborhood within Greater New Haven. Residents and policymakers can use these local data to further elevate the health and prosperity of Greater New Haven.

Greater New Haven’s 15-Year Difference in Life Expectancy

While Greater New Haven’s average life expectancy of 79.8 years is high, it masks a dramatic difference within the region. While the average Greater New Haven resident lives one year longer than the
typical American, life expectancy in one of New Haven’s low-income neighborhoods is just 71 years—nearly 15 years lower than that of the neighborhood with the highest life expectancy (85.8 years, in Orange).219 Town-wide averages range from a maximum of 83.4 years in Orange to a minimum of 77.8 years in West Haven and 78.2 years in New Haven, a difference of more than 5 years.220

Differences within cities and towns are also significant. Within New Haven, life expectancies in the Westville (83.9 years), Wooster Square (83.5 years), and East Rock (82.8 years) neighborhoods are well above the state average of 80.3 years. Those of the Dixwell (73.2 years), Newhallville (71.7 years), and several other neighborhoods are far lower.221 Large differences in life expectancy are also found within the Inner Ring suburbs and in Milford.

These variations in life expectancy can be explained by differences in the rates of premature death within the population—calculated based on the number of years of potential life lost by residents before they reach their 75th birthdays (YPLL-75). In Greater New Haven, cancers, fetal and infant mortality, cardiovascular diseases, opioid use disorders, suicides, motor vehicle crashes, and homicides are most prominent among the causes of premature death as measured by YPLL-75. See Fig 3.2

To illustrate the impact of the differences in the rates of premature death in Greater New Haven, consider the more than five year difference in life expectancy between the adjacent towns of West Haven and Orange. For every 100,000 residents under the age of 75, a total of 6,646 years of potential life were lost due to all premature deaths in West Haven each year from 2010 to 2014, compared to 2,967 in Orange. Heart disease, one of the leading causes of premature death, cost 1,073 years of life per 100,000 residents in West Haven (based on 38 premature deaths each year, with an average age at death of 60) and 517 in Orange (seven premature deaths each year, with an average age at death of 65). Injury, a cause of premature death including overdoses, motor vehicle crashes, homicide, and suicide, led to the loss of 1,231 years of life per 100,000 residents in West Haven (21 premature deaths from injury each year, with an average age at death of 44), and 501 in Orange (three premature deaths per year, with an average age at death of 51). See Table 3a

Leading Causes of Death: Cancer, Heart Disease, and Injuries
Cancers were among the most common causes of premature death in Greater New Haven from 2010 to 2014, with lung cancer by far the most common cause of cancer-related premature mortality. Premature death rates from lung cancer in most of Greater New Haven’s towns and cities were not statistically different from the statewide average of 297 years lost per 100,000 residents. Also,

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>ALL PREMATURE DEATHS</th>
<th>ALL CANCERS</th>
<th>INFANT AND FETAL DEATH</th>
<th>HEART DISEASE</th>
<th>DRUG-RELATED DEATHS</th>
<th>SUICIDE</th>
<th>MOTOR VEHICLE CRASHES</th>
<th>HOMICIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>5,418</td>
<td>1,284</td>
<td>828</td>
<td>802</td>
<td>451</td>
<td>287</td>
<td>259</td>
<td>158</td>
</tr>
<tr>
<td>Greater New Haven</td>
<td>5,579</td>
<td>1,408</td>
<td>930</td>
<td>770</td>
<td>457</td>
<td>255</td>
<td>237</td>
<td>245</td>
</tr>
<tr>
<td>New Haven</td>
<td>7,055</td>
<td>1,263</td>
<td>1,588</td>
<td>924</td>
<td>589</td>
<td>223</td>
<td>265</td>
<td>697</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>5,644</td>
<td>1,484</td>
<td>875</td>
<td>813</td>
<td>380</td>
<td>253</td>
<td>208</td>
<td>187</td>
</tr>
<tr>
<td>East Haven</td>
<td>6,153</td>
<td>1,740</td>
<td>395</td>
<td>895</td>
<td>420</td>
<td>292</td>
<td>112</td>
<td>125</td>
</tr>
<tr>
<td>Hamden</td>
<td>4,476</td>
<td>1,201</td>
<td>796</td>
<td>533</td>
<td>399</td>
<td>204</td>
<td>188</td>
<td>200</td>
</tr>
<tr>
<td>West Haven</td>
<td>6,648</td>
<td>1,660</td>
<td>1,204</td>
<td>1,073</td>
<td>338</td>
<td>286</td>
<td>276</td>
<td>205</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>4,551</td>
<td>1,432</td>
<td>495</td>
<td>663</td>
<td>410</td>
<td>276</td>
<td>236</td>
<td>43</td>
</tr>
<tr>
<td>Milford</td>
<td>5,555</td>
<td>1,601</td>
<td>550</td>
<td>855</td>
<td>595</td>
<td>297</td>
<td>192</td>
<td>104</td>
</tr>
</tbody>
</table>
Greater New Haven residents experienced rates of lung cancer-related encounters at hospitals and emergency departments that were similar to those of residents statewide. However, elevated rates of premature mortality due to lung cancer were measured in West Haven, East Haven, and Branford (405, 411, and 456 years lost per 100,000 residents, respectively).

Premature deaths due to other specific types of cancer were, for the most part, not statistically different from statewide averages, so few substantial differences within the region were observed beyond the fact that cancer death rates overall were slightly lower in wealthier towns. Other than lung cancer, the most notable difference was that premature death rates due to liver cancer in New Haven and West Haven (117 and 124 years lost per 100,000 residents, respectively) were twice the state average (61 years lost per 100,000 residents). This is equivalent to about eight “excess premature deaths” per year—defined as the number of premature deaths every year from liver cancer over and above what the number would have been if it had corresponded with the statewide average.

Cigarette smoking is one notable risk factor for cancer, causing an estimated 48.5 percent of all deaths from 12 major types of cancer combined. It is a contributing factor in up to 90 percent of lung cancer deaths, as smokers are 15 to 30 times more likely to die of lung cancer than non-smokers, as well as half of bladder cancer deaths. While smoking rates have fallen during the past two decades, they remain relatively high in parts of the region. Obesity, unhealthy diets, alcohol consumption, and physical inactivity are also considered to be significant risk factors for cancer.

Heart disease and other cardiovascular diseases cause one-third of U.S. deaths overall, and are also a leading cause of premature death in Greater New Haven. In 2010 to 2014, rates of premature mortality due to heart disease in the city of New Haven were 46 percent higher than the rates in the Outer Ring.

Injury is also a leading cause of death, particularly among younger adults and children. From 2010 to 2014, the impact of injuries on premature death rates was similar to that of cancer in most towns. Higher premature death rates in New Haven were in large part attributable to the 19 residents who lost their lives due to homicide during each of those five years, on average, with an average age at death of just 28 years. Since 2014, the number of homicides in New Haven has substantially declined. However, the opioid crisis throughout the region has made injuries even more significant as a cause of reduced life expectancy in recent years. Topics related to the leading causes of death are discussed below in more detail.

**INFANT AND CHILD HEALTH**

**Healthy Birth Outcomes**

A person’s childhood is formative in almost every way. For instance, the health of a child in the first few years of their life strongly determines how healthy they will be as an adult. This path begins while the child is still in the womb—with the health of the child’s mother.

Since the dawn of modern public health, statistics on infant outcomes have been considered one of the most effective indicators of the overall health of a community. Despite rising life expectancy overall due to medical advances, rates of infant mortality in the U.S. remain very high relative to what they are in many other advanced economies. In 2017, France, Spain, Italy, the Czech Republic, South Korea, and Hong Kong had infant mortality rates of between 2.6 and 3.3 deaths per 1,000 live births—about half the rate of 5.8 deaths per 1,000 live births experienced in the U.S. that year. In 2015, the rate of infant mortality in Greater New Haven was 5.3 deaths per 1,000 live births; within New Haven, this rate was higher, at 6.3 deaths per 1,000 live births. These rates were not significantly different from the state average of 5.6 deaths per 1,000 live births, but are still considered high by international standards.

Regional and city-level averages mask large disparities by race and ethnicity. In Greater New Haven between 2011 and 2015, the average infant mortality rate of babies born to Black mothers was 10.5 per 1,000 live births, higher than the 6.9 per 1,000 births to Latina mothers, and 2.7 times higher than the rate of 3.9 per 1,000 babies born to white mothers. These differences follow a pattern observed statewide and nationally.

The two most significant causes of infant mortality are birth defects and conditions related to preterm birth or low birthweight. Birth defects have many causes, some of which are unknown,
but some of the most preventable risk factors may include a lack of folic acid, alcohol use and smoking, obesity, and uncontrolled diabetes. Similarly, the causes of premature birth and low birthweight are complex, but some are related to health inequities such as a lack of adequate prenatal care, poor nutrition, and factors that exacerbate the risk of chronic diseases. As shown elsewhere in this report, the rates at which women face these conditions diverge along socioeconomic, racial, and geographic lines.

The rate of low birthweight babies—defined as the percentage of infants born that weigh fewer than roughly five and a half pounds—has been significantly improving throughout most of Greater New Haven during the past decade. Between 2006–2010 and 2011–2015, the five-year periods used for our analysis of local area data, the rate of low birthweight babies in Greater New Haven improved, falling from 8.8 percent to 7.5 percent. Statewide, the rate of low birthweight babies fell from 8.0 percent to 7.8 percent during that same time period. The low birthweight rate varied from 5.6 percent of infants in the Outer Ring to 8.6 percent in New Haven, but these areas saw large improvements relative to the statewide trend. West Haven also experienced a fairly high rate and was the only large town without a substantial improvement; its low birthweight rate held steady at between 8.2 and 8.4 percent of infants during that time period. See Table 3B

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TOTAL BIRTHS</td>
<td>PERCENT LOW BIRTHWEIGHT</td>
<td>PERCENT NON-ADEQUATE PRENATAL CARE</td>
</tr>
<tr>
<td>Connecticut</td>
<td>200,357</td>
<td>8.0%</td>
<td>20%</td>
</tr>
<tr>
<td>Greater New Haven</td>
<td>26,183</td>
<td>8.8%</td>
<td>18%</td>
</tr>
<tr>
<td>New Haven</td>
<td>10,460</td>
<td>10.1%</td>
<td>24%</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>8,380</td>
<td>8.4%</td>
<td>16%</td>
</tr>
<tr>
<td>East Haven</td>
<td>1,500</td>
<td>8.8%</td>
<td>15%</td>
</tr>
<tr>
<td>Hamden</td>
<td>3,248</td>
<td>8.3%</td>
<td>14%</td>
</tr>
<tr>
<td>West Haven</td>
<td>3,632</td>
<td>8.4%</td>
<td>19%</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>7,343</td>
<td>7.4%</td>
<td>12%</td>
</tr>
<tr>
<td>Milford</td>
<td>2,448</td>
<td>7.7%</td>
<td>12%</td>
</tr>
</tbody>
</table>

The rate of non–adequate prenatal care—meaning that the mother went to fewer than 80 percent of the expected prenatal care visits or did not start the visits until her second trimester—rose from 18 to 19 percent of births in Greater New Haven between 2006–2010 and 2011–2015, similar to the trend observed statewide during that time period (an increase from 20 to 23 percent). The increase in the region was significantly smaller than that seen in the state primarily because New Haven was one of the few places in Connecticut that saw an improvement in its rate of non–adequate prenatal care, with the share of births with non–adequate care in that city declining from 24 percent to 23 percent between 2006–2010 and 2011–2015. For comparison, in the similarly-sized cities of Bridgeport and Stamford, non–adequate prenatal care rates were 33 percent in the 2011–2015 period.

Environmental Threats

While lead—a dangerous neurotoxin—is toxic to everyone, lead poisoning is of particular concern to children under the age of six due to rapid development in early childhood. Health problems related to lead are a constant concern in areas with older housing stock that contain lead paint. As such, regulations that aim to limit children’s exposure have been tightened. Even at relatively low levels, however, lead poisoning can cause behavioral changes and cognitive impairment in
children. As of May 2013, the state’s reference level is 5 micrograms of lead per deciliter of blood (μg/dL); a child under six years old with a level higher than that is classified as lead poisoned. In 2016, there were 399 children under six years old in Greater New Haven with blood lead concentrations higher than the reference, or 4.4 percent of those tested. The vast majority of these cases were among children living in New Haven (314 cases). That city’s rate of lead poisoning has declined, from 9.0 percent of all children tested in 2013 to 7.6 percent in 2016, but still has one of the highest rates in the state. By comparison, in the Inner Ring and Outer Ring suburbs of Greater New Haven, rates of lead poisoning were 2.5 percent and 0.9 percent, respectively, in 2016.

Children are also at increased risk of asthma exacerbations due to environmental factors, including cockroaches, mold, and traffic pollution. Childhood asthma affects children’s quality of life and performance in school and it can be fatal if left untreated. According to the State of Connecticut Department of Public Health’s School-Based Asthma Surveillance Report of 2019, levels of childhood asthma are generally lower in Greater New Haven public schools than statewide between 2012 and 2014; however, there are noticeable differences from town to town. Across Connecticut, one in seven children in the public school system had asthma (about 14 percent). Rates of childhood asthma in most Greater New Haven public school districts fell below the statewide average, including in Orange, Woodbridge, and Milford where the rates were lower than 8 percent. On the other hand, New Haven, East Haven, and West Haven had the highest rates among public school districts in Greater New Haven. Rates of hospital and emergency room encounters for asthma among children four years old and younger also differ from town to town across the region. See Table 3C

### Health Risk Factors

#### Inadequate Access to Health and Dental Care

Health-related challenges begin with access to healthcare. In 2018, the percentage of uninsured adults in Greater New Haven was the same as that of Connecticut overall (5 percent), yet there are notable disparities. While only 4 percent of Greater New Haven’s white population lacks insurance, the numbers jump to 7 percent for its Black population and 12 percent for Latinos. See Table 3E

Having health insurance, however, does not guarantee timely or high-quality medical care. Reasons for foregoing medical care are complex and overlapping, and lower-income residents may disproportionately be faced with the challenge of pursuing medical care in lieu of other basic necessities. In 2018, 22 percent of Greater New Haven adults reported having postponed necessary medical care within the past year, and 9 percent reported having failed to get care altogether. They cited myriad reasons. Nearly half of survey respondents who missed or postponed care cited having been too busy with work or other commitments (48 percent), not feeling their issues were serious enough (45 percent), or fearing the cost would be too high (40 percent). Scheduling problems can disrupt care: 30 percent of adults who missed or postponed care could not get an appointment soon enough, and 20 percent could not get to a provider during their open hours. Insurance not paying for treatment was an issue for 21 percent of adults missing or delaying care, and insurance not being accepted was an issue for 15 percent. Additionally, 19 percent of those with disrupted care cited their caregiving obligations.

---

**TABLE 3C**

<table>
<thead>
<tr>
<th>SCHOOL DISTRICT</th>
<th>ASTHMA PREVALENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>14.3%</td>
</tr>
<tr>
<td>Greater New Haven</td>
<td>12.0%</td>
</tr>
<tr>
<td>New Haven</td>
<td>14.7%</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>11.7%</td>
</tr>
<tr>
<td>East Haven</td>
<td>13.1%</td>
</tr>
<tr>
<td>Hamden</td>
<td>10.5%</td>
</tr>
<tr>
<td>West Haven</td>
<td>12.2%</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>9.7%</td>
</tr>
<tr>
<td>Milford</td>
<td>7.9%</td>
</tr>
</tbody>
</table>

CT DPH SCHOOL-BASED ASTHMA SURVEILLANCE, 2012–2014
In Greater New Haven, 12 percent of adults—including 21 percent of young adults—lack a medical home, meaning that they do not have any person or place that they consider to be their personal doctor, who they see on an ongoing basis.\(^{216}\)

Lacking affordable medical care may play a role in residents relying on the emergency room. In 2018, 26 percent of Greater New Haven adults reported receiving care in a hospital emergency room at least once.\(^{217}\) While only 5 percent of adults in the region did so three or more times during the past year, this figure was more than double among those earning less than $30,000 per year (11 percent).\(^{218}\) Lack of transportation, food insecurity, and unstable housing also contribute to frequent use of emergency rooms. In Greater New Haven, residents lacking health insurance were slightly more likely than those with insurance to be frequent users of an emergency room last year, but residents who experienced food or transportation insecurity were substantially more likely to have visited an emergency room than other residents.\(^{219}\) [SEE TABLE 3D]

Affordability is a challenge for many residents. In 2018, 15 percent of Greater New Haven residents earning less than $30,000 per year did not get prescription medicines last year because they could not afford to get more of them.\(^{220}\)

Dental care is also important because oral health affects many other areas of life, including overall well-being and performance at school and in work. Good oral health helps prevent infections, heart disease, stroke, adverse birth outcomes, and other serious conditions, and has other impacts on quality of life.\(^{222}\) According to the CDC, over 40 percent of US adults experience mouth pain each year, causing many people to miss work for emergency dental care. In Connecticut, about 16 percent of elementary school-age children have untreated tooth decay.\(^{223}\)

In 2018, 28 percent of Greater New Haven adults said they had not been to the dentist in the past year. This rate was substantially higher among younger adults (34 percent), New Haven residents (34 percent), and residents earning less than $30,000 per year (44 percent).\(^{224}\) [SEE TABLE 3D]

Emergency room encounters related to preventable dental conditions are considered an incidence proxy for the lack of timely and adequate oral health care. Seeking acute care at a hospital for a severe tooth infection, for example, may not address the underlying need for preventive dental care. Overall, from 2015 to 2017, Greater New Haven had slightly lower rates of emergency room encounters and hospitalizations for preventable dental conditions than the state average. However, New Haven had higher reported rates, with 98
encounters per 100,000 residents per year across all age groups, compared to 58 per 100,000 statewide. The greatest burden of encounters for preventable dental conditions fall in the under 45 age groups. New Haven also saw remarkably higher rates in the 0–19 age group compared to the statewide average, with signs that this burden is growing among children and youth. See Fig 3.3, 3.4, 3.5, 3.6, 3.7

Experiences of Discrimination
In 2018, the DataHaven Community Wellbeing Survey included for the first time a sequence of questions about experiences of discrimination (EOD), drawn from a body of scientific work pioneered largely by David Williams of the Harvard School of Public Health. Discrimination is a social stressor that impacts mental and physical health both directly and indirectly, especially within the broader context of structural, institutional, and cultural racism. In Greater New Haven, some adults reported that discrimination affected their ability to get the health care they needed. In 2018, 10 percent of all adults in the region said that, when seeking health care, they had been treated with less respect, or received worse care than what others received. For these adults, health insurance status and race were the two most commonly reported reasons for discrimination. Most of these adults experienced this issue repeatedly: 64 percent said such incidents had happened multiple times in the past 3 years.

LGBTQ individuals, as a group, have a higher risk for a variety of conditions, including sexually-transmitted diseases, poor mental health, homelessness, harassment, violence, and social isolation. They also face stigmas, lack of cultural competency in healthcare providers, and exclusionary insurance policies. Transgender people in particular often have difficulty simply accessing care: statewide, only 57 percent of self-identifying transgender participants in the DataHaven Community Wellbeing Survey reported that their primary care provider can provide them with trans-inclusive services, and 44 percent said they had forgone medical care in the past year for fear of harassment or mistreatment. These findings match research done nationally by organizations seeking to understand the concrete ways discrimination and lack of access to resources impair the health of LGBTQ people.

In addition to asking about health care discrimination, the 2018 survey probed residents’ experiences with negative interactions with and unfair stops by police, differential treatment while searching for housing, and unfair treatment when seeking employment or a promotion. Combining the survey items into an experiences-of-discrimination scale suggests a link between discrimination and poor health in Greater New Haven. In a future report, we will complete a more rigorous statistical analysis of these data. See Fig 3.11, 3.12 / See Table 3F

Adverse Childhood Experiences
According to the Connecticut Department of Public Health, adverse childhood experiences (ACEs) can affect a child’s social, emotional, and cognitive
development; their adoption of risky behavior later in life; and their chances of disease and even early death. Three of five adults across the state reported having had at least one ACE—ranging from an incarcerated household member or sexual abuse to the more prevalent household drinking problems, divorced parents, and emotional abuse. Two-thirds of those who had had at least one ACE had experienced multiple ACEs.232

In the 2018 Community Wellbeing Survey, Greater New Haven residents expressed general concerns for youth living in their neighborhoods. Among all the adults in the region, 27 percent thought it was likely that youth would abuse drugs or alcohol, 9 percent thought it was likely that youth would join a gang, and 12 percent felt the same about the chances of youth getting arrested for felonies.233 These data varied by town and neighborhood, however. In the city of New Haven, the corresponding figures were 44 percent, 24 percent, and 30 percent, respectively. SEE FIG 2.25, 3.8

Nutrition, Physical Activity, and Substance Use
Attaining and maintaining good health requires not only access to high quality medical services, but also engagement in daily behaviors that promote health. However, broader issues of income, education, employment, and racial and gender discrimination can pose obstacles to living a healthy lifestyle. Being able to afford nutritious food costs money. Taking full advantage of preventive screenings through regular checkups, to say nothing of exercising regularly, takes time. While tobacco use, poor diets, lack of exercise, and substance use—modifiable behavioral risk factors that are sometimes referred to as the “actual” causes of death—are critical to understand, they should be considered in the context of a growing body of literature that documents their connections to poverty, inequality, and other social issues.

Statistical modeling has revealed the extent to which body weight is influenced by neighborhood factors such as access to healthy foods and walking spaces. Social context can also influence health-related behaviors: for example, if you live in a neighborhood where smoking is prevalent, you are more likely to take up smoking yourself. Or, if recreational sports are important to the fabric of your community, you may be more active. The effects of these ecological drivers on children and adolescents can impact the development of obesity later in life.234 Consequently, there is a need to intervene on these pervasive drivers of health risks that also contribute to cancer, depression, diabetes, heart disease, stroke, injury, and other conditions that can reduce life expectancy and quality of life.

In Connecticut, 29 percent of adults have a body mass index that classifies them as obese. Connecticut's obesity rate has increased dramatically since 1990, when it was estimated to be only 10 percent.235 Between 2015 and 2018, the prevalence of obesity among Greater New Haven adults stayed around 30 percent, while obesity rates rose statewide from 26 percent in 2015 to 29

| TABLE 3F |
| Experiences of discrimination |
| SHARE OF ADULTS HAVING EVER EXPERIENCED DISCRIMINATION, GREATER NEW HAVEN, 2018 |

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>WORKPLACE</th>
<th>POLICE STOPS</th>
<th>PREVENTED FROM MOVING</th>
<th>RECEIVED POOR SERVICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>27%</td>
<td>11%</td>
<td>4%</td>
<td>10%</td>
</tr>
<tr>
<td>Greater New Haven</td>
<td>28%</td>
<td>12%</td>
<td>5%</td>
<td>9%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BY DEMOGRAPHIC WITHIN GREATER NEW HAVEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
</tr>
<tr>
<td>Female</td>
</tr>
<tr>
<td>Age 18–34</td>
</tr>
<tr>
<td>Age 35–49</td>
</tr>
<tr>
<td>Age 50–64</td>
</tr>
<tr>
<td>Age 65+</td>
</tr>
<tr>
<td>White</td>
</tr>
<tr>
<td>Black</td>
</tr>
<tr>
<td>Latino</td>
</tr>
<tr>
<td>Under $30K</td>
</tr>
<tr>
<td>$30K-$75K</td>
</tr>
<tr>
<td>$75K+</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BY GEOGRAPHY</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Haven</td>
</tr>
<tr>
<td>Inner Ring</td>
</tr>
<tr>
<td>East Haven</td>
</tr>
<tr>
<td>Hamden</td>
</tr>
<tr>
<td>West Haven</td>
</tr>
<tr>
<td>Outer Ring</td>
</tr>
<tr>
<td>Milford</td>
</tr>
</tbody>
</table>
percent in 2018 according to the DataHaven Community Wellbeing Survey,\textsuperscript{236} and from 25 percent in 2015 to 27 percent in 2017 according to the Behavioral Risk Factor Surveillance System.\textsuperscript{237} The share of Greater New Haven adults who reported exercising fewer than three days per week increased slightly, from 38 percent to 42 percent, between 2015 and 2018.\textsuperscript{238} Childhood obesity is also a major concern, though Connecticut’s estimated 11.9 percent obesity rate among youth ages 10 to 17 is lower than the U.S. rate of 15.8 percent.\textsuperscript{239} Local, state, and national rates are calculated based on self-reported or parent and caregiver-reported height and weight, and likely underestimate the actual obesity rate by a few percentage points. Despite major reductions in cigarette smoking over the past several decades, there is still room for significant progress. The connection between smoking and cancer is discussed above, and smoking and secondhand smoke have been linked to many other health issues including infant health, asthma, and stroke. More adults smoke cigarettes in Greater New Haven (16 percent) than in the state overall (14 percent). The region’s smoking rate increased slightly between 2015 and 2018, but is still relatively high among residents earning less than $50,000 per year, and is 19 percent in East Haven and New Haven.\textsuperscript{240}
patterns by age, as of 2018, 19 percent of the region’s adults between the ages of 18 and 34 reported that they currently smoke cigarettes.\textsuperscript{241} Vaping is becoming more common, particularly among young adults. In 2018, 10 percent of adults in Greater New Haven reported using e-cigarettes or vaping more than once a month, slightly above the statewide rate of 8 percent; among adults age 18 to 34, 36 percent had tried e-cigarettes as of 2018.\textsuperscript{242} SEE TABLE 3G

Some in the region struggle with alcohol, marijuana, and opioid use disorders. In 2018, 8 percent of adults reported drinking heavily (more than four drinks at once for women or five drinks for men) at least six times in the past month. Eight percent of adults—including 14 percent of those ages 18 to 34—reported using marijuana more than 10 times during any given month.\textsuperscript{243} Drinking too much can dramatically change mood and behavior, and long-term alcohol use can damage organs including the heart and liver, increasing the risk of cancers and other diseases.\textsuperscript{244} Like alcohol, marijuana is associated with depression and anxiety, though it is not yet known whether this is a causal relationship.\textsuperscript{245} The opioid crisis, which has connections to the use of other substances such as alcohol, is covered below.

The Opioid Crisis

The opioid crisis has made headlines across the country, with some of the highest overdose death rates occurring in the northeast U.S. In 2016, Connecticut ranked 11th among all states in the country in the rate of overdose deaths, and several nearby states—including New Hampshire, Massachusetts, Rhode Island, and Maine—fell within the top 10.\textsuperscript{246} Thousands of Americans die of opioid overdoses each month, including an average of 67 Connecticut residents per month from 2015 to 2018. Between 2015 and 2018, Greater New Haven averaged 23 drug overdose deaths per 100,000 residents per year, just below the state’s rate of 24.2 per 100,000; filtered for just opiate- and opioid-related deaths, these rates become 21.6 and 22.8, respectively.\textsuperscript{247,248} SEE TABLES 3H, 3I

The full effect of the opioid crisis is not captured in the comprehensive 2010–2014 premature mortality data that we used toward the beginning of this chapter. Over just a few years, the number of deaths from drug overdoses in Greater New Haven increased by 80 percent, from 67 deaths in 2014 to 121 deaths in 2016; this increase was driven mostly by a steep rise in opiate- and opioid-related deaths.\textsuperscript{249} The weight of overdose deaths comes not only from sheer numbers, but also from the epidemic’s reach: the median age for fatal overdoses in Greater New Haven is 44, about 36 years younger than the region’s overall life expectancy.\textsuperscript{250} When ranking major causes of premature death by years of potential life lost prior to age 75 (YPLL-75) in Greater New Haven, we estimate that deaths from opioid-related overdoses between 2015 and 2018 would rank 5th highest after cancer, infant and fetal mortality, accidents, and heart disease.\textsuperscript{251} SEE FIG 3.9, 3.10

The Centers for Disease Control and Prevention characterizes the epidemic as multilayered with three distinct waves.\textsuperscript{252} Prescription opioids were the main drivers of the first wave (1990s); heroin was largely responsible for the rise in 2010; and synthetic opioids, such as fentanyl, have driven the current wave, which began in 2013.\textsuperscript{253}

\begin{table}
\centering
\caption{Overdose deaths by substance}
\label{table:overdose_substance}
\begin{tabular}{|l|c|c|c|c|}
\hline
LOCATION & ANY SUBSTANCE COUNT & ANY SUBSTANCE RATE & OPIATE/OPIOID COUNT & OPIATE/OPIOID RATE \\
\hline
Connecticut & 3,423 & 24.2 & 3,202 & 22.8 \\
Greater New Haven & 432 & 23.0 & 405 & 21.6 \\
Inner Ring & 147 & 24.8 & 141 & 24.0 \\
Outer Ring & 131 & 19.6 & 127 & 19.0 \\
\hline
\end{tabular}
\end{table}

\begin{table}
\centering
\caption{Overdose deaths by race and ethnicity}
\label{table:overdose_race}
\begin{tabular}{|l|c|c|c|c|c|}
\hline
LOCATION & WHITE COUNT & WHITE RATE & BLACK COUNT & BLACK RATE & LATINO COUNT & LATINO RATE \\
\hline
Connecticut & 2,673 & 29.5 & 296 & 18.9 & 393 & 19.1 \\
Greater New Haven & 324 & 29.1 & 69 & 22.6 & 33 & 12.9 \\
Inner Ring & 123 & 37.1 & 16 & 14.1 & 8 & 8.6 \\
\hline
\end{tabular}
\end{table}
These patterns hold true in Greater New Haven, where the death rate from drug overdoses has mirrored the upward trend seen throughout the state and country, generally staying tied with the statewide rate. Similar also is the skyrocketing prominence of fentanyl: the substance was detected in only four of Greater New Haven’s 110 overdose deaths (under 4 percent) in 2012 and 2013, but in 118 of the 223 deaths (53 percent) in 2017 and 2018. One positive note for the region is that unlike most other regions of the state, Greater New Haven’s overdose death rate began trending back downward around late 2017; the region’s monthly death rate continued declining for all of 2018.254

As is the case elsewhere, men make up much larger shares of drug overdose deaths in Greater New Haven than women: since 2012, women have never accounted for more than a third of the region’s overdose deaths in a given year. Rates for white residents are higher as well: between 2015 and 2018, white residents’ age-adjusted overdose death rate was 29.1 per 100,000 residents per year, higher than Black residents’ rate of 22.8 and Latinos’ 12.9.255

For every person who dies of an opioid overdose, many more seek treatment, often multiple times. Between the 2014 and 2018 fiscal years, Greater New Haven residents were admitted to opioid treatment programs a total of 20,140 times, averaging 4,028 admissions per year, or 865 admissions per 100,000 residents per year. East Haven, New Haven, and West Haven had rates above the regional average; the rate in East Haven was 1.8 times as high, at 1,540 admissions per 100,000 residents per year. The majority of these admissions were to programs funded by the state Department of Mental Health and Addiction Services. Though harder to track, people often are admitted to programs multiple times within one year.256

Many residents also seek or receive care for substance use disorders at area hospitals and emergency rooms. For hospital and emergency room encounters related to substance use, a category that includes diagnoses related to use of opioids and other drugs, rates in Greater New Haven are comparable to those of statewide averages, although the rate has been increasing more slowly between the 2012–2014 and 2015–2017 time periods. A greater burden of substance use encounters exists within towns in the New Haven Inner Ring (173 encounters per 10,000 residents per year) compared to those in the Outer Ring (105 encounters per 10,000 residents). Rates in New Haven were the highest in the region and grew considerably from 412 encounters per 10,000 residents annually in 2012–2014 to 454 in 2015–2017, even as rates declined in Outer Ring towns. Statewide trends across age groups and genders are also reflected in the Greater New Haven region, with greater burden on male populations in the 20–44 and 45–64 age groups.257

SEE FIG 3.3, 3.4, 3.5, 3.6, 3.7

The reach of the opioid crisis goes beyond just people who have struggled with addiction themselves. In the 2018 DataHaven Community Wellbeing Survey, nearly one in every three adults in Greater New Haven reported knowing someone who has struggled with opioid abuse or addiction in the past three years. Out of that one-third of respondents, 6 percent said they themselves were struggling with opioids, 40 percent cited a family member, 38 percent cited a close friend, and 44 percent cited an acquaintance. These numbers include adults who knew multiple people dealing with addiction.258

Of all Greater New Haven adults, 25 percent reported knowing at least one person who died of an opioid overdose. Twenty-one percent of these adults lost a family member to an opioid overdose, 44 percent lost a close friend, and 60 percent lost an acquaintance.259

A 2019 New England Public Policy Center report found that counties with the lowest rates of opioid prescribing are also those with the lowest rates of fatal overdoses.260 Additionally, some research has suggested a relationship between opioid misuse and frequent drinking261 and tobacco use.262 The frequent use of these substances has been associated with higher pain intensity, which may increase the person’s likelihood of developing an opioid dependency. In particular, many studies of alcohol use disorders have established that heavy drinking is a strong predictor of opioid misuse.263 In addition to improving our understanding of addiction and expanding access to prevention and treatment services, strategies to address the opioid crisis may include the promotion of overdose-reversing drugs such as naloxone, improved prescription monitoring, evidence-based pain management, and public education.
Early Onset of Chronic Diseases

According to the Centers for Disease Control and Prevention (CDC), six out of every ten adults in the U.S. live with a chronic disease, and four out of every ten have two or more concomitant chronic conditions.264 These conditions include heart disease, cancer, chronic lung disease, chronic kidney disease, stroke, Alzheimer’s, and diabetes. Ninety percent of healthcare expenditures go towards the treatment of chronic and mental health conditions, and in 2010, chronic diseases comprised seven of the top ten causes of mortality in the U.S., accounting for over 65 percent of all deaths.265, 266 According to the Hospitalization Cost and Utilization Project (HCUP), from 2006 to 2011, emergency department visits for common chronic conditions such as diabetes, pulmonary and heart disease, and essential hypertension increased significantly among adults, with the greatest increase observed in adults 85 and over.267 Disproportionately more clinical visits to physicians’ offices, hospital outpatient services, and hospital emergency departments occur for patients who are in the oldest age groups and those who are more prone to experiencing chronic diseases.268

While chronic diseases are a relatively common experience for older adults, they may develop much earlier in life, sometimes even in childhood. As described above, the data on Greater New Haven’s neighborhood life expectancy and premature mortality reveal large disparities in health and well-being within the region. However, mortality data only tell us about people who die; they do not provide a complete picture of the impact of chronic diseases on people’s quality of life throughout youth and middle age. Our analyses of the data collected through the DataHaven Community Wellbeing Survey and of the records of residents’ visits to statewide hospitals and emergency rooms over the past six years create a clearer picture of the full burden of these conditions. SEE FIG 3.3, 3.4, 3.5, 3.6, 3.7 / SEE TABLE 3J

Between the 2012–2014 and 2015–2017 periods, hospital encounter rates for diabetes, COPD, and hypertension increased more quickly than they did statewide. In general, the greatest increases in encounter rates were seen within the 65–84 age groups. Across the region, towns with a greater burden of chronic disease often saw larger increases in their per capita hospital encounter rates over this six-year time period than healthier towns.269 This suggests that health-related inequalities, as measured by the impact that these conditions have on residents of different towns and demographic groups, may have increased in recent years.

Examining data from hospitals and other sources by age, gender, and race/ethnicity reveals disparities in the extent to which chronic diseases develop early in populations that face greater levels of economic and social adversity. For cardiovascular disease, disparities between Black and white adults are particularly pronounced. A 2010 study found that nationally, 28 percent of cardiovascular disease deaths among Black adults occurred among persons younger than 65 years of age, compared to just 13 percent of white adults.270 Consistent with statewide and national averages, in Greater New Haven the greatest burden of hospitalization and emergency department visits from 2015 to 2017 due to heart disease fell on older age groups. However, there were some exceptions to this rule that are likely driven by racial and ethnic disparities. Residents in the 45–84 age range in New Haven also experienced particularly high rates of hospital encounters related to heart disease. Compared to the trends observed in Connecticut as a whole, New Haven experienced considerable increases in hospital visits for lung disease, diabetes, and asthma. While available hospital encounter data has limitations when it comes to fully capturing the race/ethnicity of patients, our analysis suggests that middle-aged Black adults aged 20 to 84 are several times more likely than whites of the same age to be hospitalized for cardiovascular disease.271

Several of the region’s wealthier towns, such as Orange, Bethany, Madison and Woodbridge saw remarkably small increases across the various chronic diseases. If sustained over time, these trends show how disease prevention efforts or other factors in these towns may be shifting the burden of chronic disease.272
TABLE 3J

Selected hospital encounters and hospital encounters by age

RATES OF HOSPITALIZATIONS AND ED VISITS PER 10,000 RESIDENTS PER YEAR, 2015–2017

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>DEPRESSIVE DISORDER</th>
<th>DIABETES</th>
<th>FALLS</th>
<th>HEART DISEASE</th>
<th>HYPERTENSION</th>
<th>MENTAL DISORDER</th>
<th>SUBSTANCE ABUSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>326</td>
<td>639</td>
<td>328</td>
<td>240</td>
<td>1,261</td>
<td>694</td>
<td>178</td>
</tr>
<tr>
<td>Greater New Haven</td>
<td>288</td>
<td>709</td>
<td>346</td>
<td>272</td>
<td>1,346</td>
<td>659</td>
<td>215</td>
</tr>
<tr>
<td>New Haven</td>
<td>456</td>
<td>1,460</td>
<td>458</td>
<td>441</td>
<td>2,345</td>
<td>1,038</td>
<td>454</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>287</td>
<td>711</td>
<td>322</td>
<td>276</td>
<td>1,325</td>
<td>640</td>
<td>173</td>
</tr>
<tr>
<td>East Haven</td>
<td>360</td>
<td>723</td>
<td>381</td>
<td>300</td>
<td>1,402</td>
<td>799</td>
<td>227</td>
</tr>
<tr>
<td>Hamden</td>
<td>237</td>
<td>598</td>
<td>268</td>
<td>244</td>
<td>1,169</td>
<td>541</td>
<td>123</td>
</tr>
<tr>
<td>West Haven</td>
<td>301</td>
<td>834</td>
<td>352</td>
<td>282</td>
<td>1,448</td>
<td>664</td>
<td>201</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>208</td>
<td>375</td>
<td>282</td>
<td>203</td>
<td>896</td>
<td>469</td>
<td>105</td>
</tr>
<tr>
<td>Milford</td>
<td>216</td>
<td>421</td>
<td>313</td>
<td>218</td>
<td>881</td>
<td>482</td>
<td>129</td>
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<tbody>
<tr>
<td>Connecticut</td>
<td>223</td>
<td>908</td>
<td>1,895</td>
<td>23</td>
<td>193</td>
<td>670</td>
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<tr>
<td>Greater New Haven</td>
<td>250</td>
<td>1,088</td>
<td>1,956</td>
<td>22</td>
<td>250</td>
<td>766</td>
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<tr>
<td>New Haven</td>
<td>423</td>
<td>2,855</td>
<td>3,725</td>
<td>34</td>
<td>582</td>
<td>1,384</td>
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<tr>
<td>Inner Ring</td>
<td>211</td>
<td>1,095</td>
<td>2,114</td>
<td>18</td>
<td>243</td>
<td>850</td>
</tr>
<tr>
<td>East Haven</td>
<td>215</td>
<td>1,153</td>
<td>1,816</td>
<td>12</td>
<td>266</td>
<td>880</td>
</tr>
<tr>
<td>Hamden</td>
<td>171</td>
<td>889</td>
<td>1,883</td>
<td>16</td>
<td>187</td>
<td>793</td>
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<tr>
<td>West Haven</td>
<td>253</td>
<td>1,283</td>
<td>2,580</td>
<td>23</td>
<td>288</td>
<td>896</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>87</td>
<td>430</td>
<td>1,209</td>
<td>12</td>
<td>116</td>
<td>496</td>
</tr>
<tr>
<td>Milford</td>
<td>80</td>
<td>544</td>
<td>1,388</td>
<td>N/A</td>
<td>148</td>
<td>591</td>
</tr>
</tbody>
</table>

Note: See Figures 3.4 and 3.5 for additional age- and gender-specific rates.
Mental Health
As described in the introduction to this report, reducing the frequency at which residents experience depression or other mental health disorders represents one of the greatest opportunities to improve the overall well-being of Greater New Haven. Depression may be rooted within many different social, medical, and environmental factors, including substance use, traumatic experiences, and social isolation. In addition, not only is depression underdiagnosed among racial and ethnic minorities, including Black, Latino, and Asian Americans, but these groups are also less likely to have access to and receive adequate care for depression.273

Depression is a risk factor or cause of many other health problems, including chronic pain, insomnia, and conditions that are exacerbated when patients have difficulty accessing medical care or taking medications according to the instructions of health care providers.274

In the 2018 DataHaven Community Wellbeing Survey, 14 percent of Greater New Haven adults reported being anxious most or all of the time, and 11 percent reported feeling down, depressed, or hopeless more than half of the days during the past two weeks, rates that were similar to the statewide average and had changed little since our 2015 survey. Residents with low incomes experienced higher rates of anxiety and depression. Among adults earning less than $30,000 per year, 21 percent reported feeling anxious more than half of the days during the past two weeks, and 21 percent reported this level of depression. Among adults earning $100,000 or more, the rates of these levels of anxiety and depression are only 11 percent and 6 percent, respectively.275

Depression and other mental health disorders are significant factors in Greater New Haven’s residents’ decisions to seek or receive care within the state’s hospitals and emergency rooms. Statewide and throughout the region, hospital encounters for mental disorders rose considerably between 2012–2014 and 2015–2017, and also increased for depressive disorders. While Greater New Haven on average experienced lower rates compared to CT averages, New Haven and East Haven had markedly higher rates, while towns such as Bethany, Madison and Orange were among those with the lowest rates. Similar to the trends seen in other encounters, towns with greater burden of disease typically experienced greater increases, suggesting a growing inequality in the prevalence of these diseases. The considerably higher rates in New Haven can in part be attributed to drastically higher rates among the 45–64 age group. However, overall within Greater New Haven, the greatest increases in mental disorders were seen in the 85-and-over age group, while for depressive disorders, there were marked increases for the 65–74 age group. A difference was also observed by gender: in Greater New Haven, females experienced higher rates than males across all age groups for depressive and mental disorders. However, New Haven remained an exception with disproportionately higher rates of encounters among men in the 45–64 age group.

Injuries
Intentional and unintentional injuries, including drug overdoses (covered above), falls, assaults, and suicide, are the leading causes of death in the U.S. for people between the ages of 1 and 44. They also have major consequences on quality of life, as there are 13 hospitalizations and 129 emergency room encounters for every death.276 Injuries, including the costs of resulting physical and mental disabilities, have a negative impact on productivity and quality of life. Data on hospital and emergency room encounters help illustrate the extent of this burden within Greater New Haven. See Fig 3.3, 3.4, 3.5, 3.6, 3.7

Falls are the most common cause of non-fatal injury in the U.S. and within Greater New Haven. Rates of hospital and emergency room encounters are particularly high among older seniors, with slightly higher rates in females compared to males. According to the CDC, one in four adults ages 65 and up will fall each year, and 20 percent of falls will induce a serious injury such as a hip fracture or traumatic brain injury, which can be debilitating and sometimes life-threatening.277 Extensive and costly treatment may often be required, with greater burden on older adults for whom costs average $30,000 per fall, making them among the 20 most expensive medical conditions.278 Fall prevention strategies, physical rehabilitation and close assessments of risk factors offer effective mechanisms for reducing the burden of these types of encounters.279 As such, fall encounters offer a lens into access to preventive care, safe housing, and ambulatory processes among older populations. Residents of New Haven experience higher rates of hospital encounters due to falls.
Statewide and across most towns in Greater New Haven, the rates of these encounters did not change drastically from 2012–2014 to 2015–2017 time periods.

The burden of injuries related to motor vehicle crashes is also considerable. In 2013, among high-income countries, the U.S. experienced the highest rates of road traffic deaths and second highest in crash deaths related to alcohol. Motor vehicle accidents are preventable using interventions that improve seat belt use, create safer streets for vulnerable road users, and enhance the enforcement of traffic safety laws, especially among youth who are at risk. The rate of road crash-related hospital encounters in Greater New Haven is slightly higher to that of the state as a whole, but the burden is drastically higher in New Haven compared to the Outer Ring. The highest rates are seen in the 20–44 age group, both statewide and within the region. Overall, rates within the region appear to be decreasing over time.

Intentional injuries, such as those related to youth violence, domestic violence, and suicide attempts, are also troubling. Within Greater New Haven, rates of hospital encounters related to homicide and assault were slightly higher than statewide averages, with the greatest rates in New Haven. As with statewide trends, these rates were highest among the 20–44 age group, and slightly higher among males compared to females. Most towns did not experience significant changes in these rates between 2012–2014 and 2015–2017. On the other hand, hospital encounters related to suicide and self-harm decreased during this time period. For suicide and self-harm encounters, the greatest burden was on females ages 0 to 19, and on both men and women ages 20 to 44. Strikingly, New Haven saw disproportionately high rates of homicide/assault and suicide/self-harm among males in the 45–64 age group. The Connecticut Suicide Prevention Plan (PLAN 2020) contains detailed information on suicide and self-harm data and prevention.

**Infectious Diseases**

Sexually transmitted infections (STIs) are a concern in Greater New Haven, as throughout the state and nation. Like other infectious organisms, STIs can have long-term implications for health, including reproductive health problems and certain types of cancers. Generally speaking, reported infection rates in Connecticut for chlamydia, the most common STI, are nearly double what they were 15 years ago. In 2011 and 2015, reported chlamydia infection rates in New Haven (973 per 100,000 persons in 2015) were between 2.6 and 3.1 times higher than the statewide average, and about twice as high as the region’s rate (458 per 100,000 people in 2015). Gonorrhea infections in Greater New Haven have slightly declined over the past two decades. While rates are generally too small to be reportable for smaller towns, reported gonorrhea infection rates in New Haven in 2015 (190 per 100,000 persons) were still more than twice the region’s rate and three times the state average. STIs can increase the risk of transmission and acquiring diseases such as HIV or hepatitis C. According to analysis provided by the New Haven Health Department, in the city of New Haven in 2017, 63 percent of new HIV diagnoses were among Black residents, followed by 25 percent that were among Latino residents. The primary transmission pathway was via men who have sex with men (MSM) at 63 percent; overall, 84 percent of all new HIV diagnoses were among men. STI prevention continues to be a focus area for many local health departments and partners.

Other infectious diseases are also important to the health of the region. The Connecticut Department of Public Health routinely tracks reports of certain infectious diseases such as Lyme disease, West Nile virus, and tuberculosis in order to identify trends and help prevent and control outbreaks. Vaccine Preventable Diseases (VPDs) continue to be a major concern, as these diseases can be prevented via adherence to the CDC’s immunization schedules. VPDs include measles, mumps, hepatitis A and B, influenza, pertussis, tetanus, and others. For example, as of August 2019, there have been over 1,000 confirmed measles cases in the United States, even though in the year 2000, the CDC had declared measles eliminated from the United States. In 2019, the Greater New Haven region experienced measles exposure scenarios related to outbreaks propagated by poor vaccine compliance and international travel. The growing concern of reduced vaccination compliance is applicable to most VPDs, as herd immunity, in which the majority of a community is immunized against the disease, mitigates the spread of infection. DH
Civic life, defined broadly as the attitudes, activities, and investments that build on the collective resources, skills, expertise, and knowledge of citizens to improve the quality of life in communities, is a powerful dimension of our overall health and well-being.
Executive Summary
This chapter looks at three key components of civic life.

_Stewardship of the Public Realm_ includes how municipalities provide essential services to their residents. In Connecticut, municipal revenue consists primarily of grants and property tax receipts. Reliance on property taxes presents a challenge to Connecticut’s larger cities, which tend to house more tax-exempt properties—including colleges and hospitals—and thus impose a higher tax burden on their residents. In addition, as Connecticut’s property tax rate is the same regardless of income level, it is regressive and therefore results in lower-income households’ taxes consuming a greater share of their income. As a result, wealthier towns generate higher tax receipts, which fund higher-quality public resources, including education, which then attract additional wealthy residents. When considering residents’ perceptions of their local governments’ stewardship, 48 percent of Greater New Haven adults felt positively about the responsiveness of their local government to the needs of residents, and 70 percent responded positively about the condition of area parks and public recreational facilities. Just over one-quarter of adults felt the area in which they lived was improving. Overall, residents’ wealth influences their perceptions, with higher-income residents reporting greater access to and satisfaction with community resources.

_Community Trust and Appreciation:_ a strong majority of Greater New Haven residents reported trusting neighbors, having reliable social support networks, and feeling satisfied with where they live. While most white residents rated the police positively in terms of keeping residents safe, this measure was not as high among minority residents. Minority residents were also more likely to report experiencing unfair or abusive treatment by police multiple times in the past three years.

_Participation in Public Life,_ including volunteering, voting, and using available cultural resources, was more common among higher-income residents and those with more education. This contributed to voter turnout rates that were considerably higher in the wealthier Outer Ring suburbs compared to the city of New Haven. Since 2015, adults statewide reported a significant increase in their perceived ability to influence local government decision-making, a positive trend seen within Greater New Haven as well, and which may be due, at least in part, to a national increase in young voters’ political engagement.
FIG 4.1
Wealthier towns net more money from property values and spend more money on education

NOTE: OTHER THAN MUNICIPAL GAP, VALUES ARE GIVEN BY FISCAL YEAR.
FIG 4.2

In towns with more surplus money, residents rate neighborhood assets and facilities more highly

**NEIGHBORHOOD ASSETS INDEX VS MUNICIPAL SURPLUS PER CAPITA**

FIG 4.3

Towns that spend more on their libraries see greater library use

**AVERAGE TOWN PUBLIC LIBRARY VISITS PER CAPITA AND CIRCULATION PER CAPITA VERSUS TOTAL LIBRARY EXPENSES PER CAPITA, 2017–2018**
FIG 4.4

Voter turnout is high for national and state elections, but much lower in municipal ones

PERCENT OF ELIGIBLE VOTERS WHO VOTED IN ELECTIONS, WITH GREATER NEW HAVEN HIGHEST AND LOWEST TOWN RATES, 2016–2018

DataHaven Greater New Haven Community Index
INTRODUCTION

Civic life, defined broadly as the attitudes, activities, and investments that build on the collective resources, skills, expertise, and knowledge of citizens to improve the quality of life in communities, is a powerful dimension of our overall health and well-being.\textsuperscript{286} We view civic life broadly, encompassing both engagement and trust, as the sum of all efforts that promote the common good within communities. These range from the more recognizable—like informed local voting and volunteering—to the less obvious, such as access to and quality of public resources, design and upkeep of public parks, and residents’ sense of safety in their neighborhoods. Measures of civic life provide insight as to how residents feel about their communities, the ways they choose to get involved, and opportunities for improving life in the cities and towns they share.

As a growing body of research continues to illuminate the strength of the link between civic life and community health and well-being, we are reminded that our connection to and involvement in our communities is inextricably linked to quality of life.\textsuperscript{287} Higher levels of civic trust, participation, and engagement are correlated with both more equitable economic outcomes and many positive health outcomes, such as lower mortality rates, improved mental and physical health, and lower crime rates.\textsuperscript{288, 289, 290, 291} Based on this body of work, we chose to frame our Civic Life section using three key domains: Stewardship of the Public Realm, Community Trust and Appreciation, and Participation in Public Life.\textsuperscript{292}

Greater New Haven towns and cities each have a unique sense of community, with varying traditions, public resources, and physical spaces. Each reader should reflect on the dynamics of civic life within their particular community as they read this section, in order to recognize local assets and identify specific ways in which they can strengthen their communities.

STEWARDSHIP OF THE PUBLIC REALM

Investment in Public Resources: Municipal Financial Capacity

Residents rely on their local governments to provide a wide array of resources. While public education, social and health services, public safety, and infrastructure may come to mind as the key municipal responsibilities, local governments offer many additional programs and services—like public libraries and related programming, transportation assistance, and adult education—which underserved or at-risk populations may disproportionately rely on. The fiscal health of local governments directly impacts their ability to invest in such programs and services. These resources are truly a cornerstone of civic life, helping to mitigate socioeconomic inequalities, bridging social divides, and ultimately, fostering trust in the responsiveness of government to community needs.\textsuperscript{293}

Local government revenue comes from municipal taxes and fees (almost exclusively property tax in Connecticut), as well as state and federal grants. On a per capita basis, Connecticut’s wealthier suburbs—able to draw on stronger tax bases—are the biggest spenders.\textsuperscript{294} For example, in 2017 Woodbridge spent the most per resident of Greater New Haven’s municipalities at $5,557—much higher than the $3,139 spent per resident in West Haven, the region’s lowest-spending municipality.\textsuperscript{295} Between 2002 and 2015, spending in the state’s wealthiest communities increased much faster than spending in the poorest communities.\textsuperscript{296} In some ways, a more telling figure is expenditures per daytime “resident”—that is, the spending done to support the number of people present in a town during the average workday. This helps illustrate the spending towns must do to meet the needs of people who work, but do not live, in that town, such as road maintenance and public safety needs. In municipalities with large inflows of workers, this measure of per-capita spending drops; bigger cities that act as regional job centers are most impacted. It is a fiscal challenge for these urban areas to provide the resources necessary to support a large inflow of workers while being unable to draw on these workers as an asset to their taxbase. In New Haven, the city with the largest net inflow of workers in the region, municipal spending in 2017 was well above the
regional average at $4,572 per resident, but spending per daytime population was only $3,189, below the regional average of $3,694.\textsuperscript{297} See Table 4A.

Research has confirmed that disparities in towns’ “municipal gap”—the difference between a town’s costs of providing public services and its ability to pay for such services—are driven primarily by differences in revenue-raising capacity.\textsuperscript{298} Wealthier municipalities with greater tax-generating ability can afford to fund more high-quality public resources, while fiscally distressed municipalities may experience challenges in meeting the needs of their residents.\textsuperscript{299} Among most of Greater New Haven’s Outer Ring towns, which generally have larger tax bases, this municipal gap becomes a surplus, with towns taking in more dollars per person in revenue than they need to spend; meanwhile, New Haven operates on a gap of more than $1,100 per resident.\textsuperscript{300} There is a strong correlation between the size of a municipality’s equalized net grand list per capita (an estimate of the market value of all taxable property per resident) and overall spending; even when they do not have high tax rates, towns with more taxable wealth are able to spend more money on resources for residents. In Greater New Haven, Outer Ring suburbs have higher equalized net grand lists; in 2017 Guilford, Madison, and Orange had equalized net grand lists per capita in excess of $200,000, compared to between $69,000 and $101,000 in the Inner Ring towns and the city of New Haven.\textsuperscript{301}

Connecticut municipalities’ reliance on property taxes to generate revenue is particularly troublesome for larger cities, many of which are home to a disproportionate number of tax-exempt state-owned and private properties, like hospitals and colleges.\textsuperscript{302} For example, over 54 percent of New Haven’s 2016 total grand list was tax-exempt—the highest share of any major city in Connecticut; to compare, this figure ranges between 6 and 8 percent in the region’s towns with the highest equalized net grand lists per capita (Guilford, Madison, and Orange).\textsuperscript{303} While state payment in lieu of taxes (PILOT) grants were designed to partially reimburse municipalities for funds lost due to tax-exempt properties, these reimbursements have declined in recent years.\textsuperscript{304, 305} A 2017 report estimated that New Haven should have received $107.2 million in PILOT reimbursements for tax-exempt hospitals and colleges based on state statutory obligations for the 2015–16 fiscal year, but actually received only $43.5 million—a $63.7 million shortfall.\textsuperscript{306}

Local property taxes play an important role in funding public schools; in Connecticut, 58 percent of all education funding comes from this source.\textsuperscript{307} Though spending per student varies widely, even among municipalities with similar populations, the state’s wealthiest suburbs generally spend more per student than its largest cities.\textsuperscript{306, 309} In Greater New Haven, the city of New Haven spent above the regional average in 2017, at a similar level as the region’s wealthier towns (but still below the level of spending in the state’s wealthiest suburbs in Fairfield County). While the Inner Ring towns of West Haven and East Haven spent below the regional average, Hamden spent more per student than any town except Milford. While most towns in Greater New Haven spent at levels similar to the regional average ($17,485), there were disparities between the extremes; for example, West Haven spent $13,903 per student, while Milford spent over $19,000.\textsuperscript{310} See Figure 4.1 / See Table 4A.

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>MUNICIPAL GAP OR SURPLUS PER CAPITA</th>
<th>EXPENDITURE PER DAYTIME POPULATION</th>
<th>EQ. NET GRAND LIST PER CAPITA</th>
<th>SCHOOL SPENDING PER PUPIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>N/A</td>
<td>$3,816</td>
<td>$150,956</td>
<td>$16,592</td>
</tr>
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<td>Greater New Haven</td>
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<td>$122,562</td>
<td>$17,485</td>
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<td>$5,473</td>
<td>$151,991</td>
<td>$18,246</td>
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<td>Branford</td>
<td>$+319</td>
<td>$3,726</td>
<td>$184,471</td>
<td>$17,978</td>
</tr>
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<td>$4,413</td>
<td>$100,960</td>
<td>$15,596</td>
</tr>
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<td>Guilford</td>
<td>$+641</td>
<td>$5,025</td>
<td>$200,984</td>
<td>$18,378</td>
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<td>$-336</td>
<td>$4,277</td>
<td>$90,103</td>
<td>$18,786</td>
</tr>
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<td>$4,859</td>
<td>$231,330</td>
<td>$18,094</td>
</tr>
<tr>
<td>Milford</td>
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<td>$3,433</td>
<td>$176,043</td>
<td>$19,261</td>
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<tr>
<td>New Haven</td>
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<td>$3,189</td>
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<td>$170,883</td>
<td>$15,941</td>
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<tr>
<td>Orange</td>
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<td>$3,780</td>
<td>$201,609</td>
<td>$17,941</td>
</tr>
<tr>
<td>West Haven</td>
<td>$-750</td>
<td>$3,498</td>
<td>$186,448</td>
<td>$17,726</td>
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</table>

Note: Other than municipal gap, values are given by fiscal year.
Cities and towns with lower property values may be forced to levy higher property taxes to fund public education and other critical municipal programs and services. For example, based on the most updated mill rates for the 2019 fiscal year, the owner of a $200,000 home would pay $3,926 of property taxes in Madison, but $6,017 in the city of New Haven.311 Nonetheless, research shows that the property tax has the largest impact on Connecticut households of any state or municipal tax and is indeed regressive, meaning low-income households pay a higher share of their incomes than wealthy households because assessed property value, rather than income level, determines the tax.312

| TABLE 4B | Perceived access to and quality of community resources |
| Neighboring Assets Index: Share of Adults by Component, and Composite Score, Greater New Haven, 2018 |

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>Government is Responsive</th>
<th>Good to Raise Kids</th>
<th>Good Condition of Parks</th>
<th>Safe Sidewalks</th>
<th>Safe Biking</th>
<th>Rec Facilities Available</th>
<th>Neighborhood Assets Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>51%</td>
<td>75%</td>
<td>75%</td>
<td>61%</td>
<td>63%</td>
<td>70%</td>
<td>556</td>
</tr>
<tr>
<td>GNH</td>
<td>48%</td>
<td>73%</td>
<td>70%</td>
<td>68%</td>
<td>70%</td>
<td>72%</td>
<td>553</td>
</tr>
<tr>
<td>By Demographic Within Greater New Haven</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>47%</td>
<td>72%</td>
<td>73%</td>
<td>70%</td>
<td>73%</td>
<td>75%</td>
<td>538</td>
</tr>
<tr>
<td>Female</td>
<td>49%</td>
<td>72%</td>
<td>70%</td>
<td>66%</td>
<td>67%</td>
<td>89%</td>
<td>556</td>
</tr>
<tr>
<td>Age 18-34</td>
<td>42%</td>
<td>69%</td>
<td>63%</td>
<td>73%</td>
<td>74%</td>
<td>73%</td>
<td>441</td>
</tr>
<tr>
<td>Age 35-49</td>
<td>48%</td>
<td>72%</td>
<td>69%</td>
<td>70%</td>
<td>70%</td>
<td>74%</td>
<td>540</td>
</tr>
<tr>
<td>Age 50-64</td>
<td>44%</td>
<td>73%</td>
<td>71%</td>
<td>62%</td>
<td>68%</td>
<td>72%</td>
<td>464</td>
</tr>
<tr>
<td>Age 65+</td>
<td>60%</td>
<td>80%</td>
<td>82%</td>
<td>66%</td>
<td>67%</td>
<td>89%</td>
<td>681</td>
</tr>
<tr>
<td>White</td>
<td>52%</td>
<td>78%</td>
<td>74%</td>
<td>64%</td>
<td>67%</td>
<td>72%</td>
<td>579</td>
</tr>
<tr>
<td>Black</td>
<td>31%</td>
<td>58%</td>
<td>62%</td>
<td>82%</td>
<td>77%</td>
<td>72%</td>
<td>367</td>
</tr>
<tr>
<td>Latino</td>
<td>42%</td>
<td>57%</td>
<td>60%</td>
<td>82%</td>
<td>73%</td>
<td>78%</td>
<td>431</td>
</tr>
<tr>
<td>Under $30K</td>
<td>38%</td>
<td>57%</td>
<td>61%</td>
<td>75%</td>
<td>68%</td>
<td>85%</td>
<td>403</td>
</tr>
<tr>
<td>$30K-$100K</td>
<td>50%</td>
<td>74%</td>
<td>73%</td>
<td>72%</td>
<td>73%</td>
<td>73%</td>
<td>550</td>
</tr>
<tr>
<td>$100K+</td>
<td>58%</td>
<td>82%</td>
<td>79%</td>
<td>59%</td>
<td>67%</td>
<td>76%</td>
<td>641</td>
</tr>
<tr>
<td>By Geography</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Haven</td>
<td>54%</td>
<td>45%</td>
<td>55%</td>
<td>85%</td>
<td>76%</td>
<td>74%</td>
<td>291</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>42%</td>
<td>57%</td>
<td>55%</td>
<td>85%</td>
<td>69%</td>
<td>88%</td>
<td>468</td>
</tr>
<tr>
<td>East Haven</td>
<td>48%</td>
<td>76%</td>
<td>53%</td>
<td>83%</td>
<td>84%</td>
<td>82%</td>
<td>506</td>
</tr>
<tr>
<td>Hamden</td>
<td>53%</td>
<td>79%</td>
<td>80%</td>
<td>79%</td>
<td>55%</td>
<td>77%</td>
<td>616</td>
</tr>
<tr>
<td>West Haven</td>
<td>28%</td>
<td>54%</td>
<td>55%</td>
<td>74%</td>
<td>57%</td>
<td>86%</td>
<td>290</td>
</tr>
<tr>
<td>Outer Ring</td>
<td>62%</td>
<td>92%</td>
<td>81%</td>
<td>57%</td>
<td>66%</td>
<td>74%</td>
<td>699</td>
</tr>
<tr>
<td>Milford</td>
<td>59%</td>
<td>87%</td>
<td>80%</td>
<td>81%</td>
<td>76%</td>
<td>78%</td>
<td>712</td>
</tr>
</tbody>
</table>

Perceived Access to and Quality of Community Resources

On the whole, Greater New Haven respondents to DataHaven’s 2018 Community Wellbeing Survey indicated general satisfaction with the quality of and access to public resources while acknowledging room for improvement. When asked about the responsiveness of their local government, 48 percent of adults in Greater New Haven described it as “excellent” or “good,” lower than the statewide average (51 percent).313 When asked whether the area in which they lived was getting better or worse, 27 percent indicated that it was getting much or somewhat better, while 51 percent
reported that it was about the same.\textsuperscript{274} Seventy percent rated the condition of public parks and other public recreational facilities as “excellent” or “good,” a few points below the state average.\textsuperscript{275}

Disaggregating survey results by respondents’ town and income levels reveals that wealthier individuals and residents of wealthier towns report greater access to and satisfaction with goods and services, cultural events, and recreational facilities in their communities.\textsuperscript{276} \textsuperscript{SEE FIG 4.2 / SEE TABLE 4B}

Food deserts, defined as areas where it is difficult to purchase fresh fruits, vegetables, and other healthful whole foods, typically occur in economically distressed urban areas.\textsuperscript{277} The low-income people who live in those areas are less likely to have the car access needed to get to grocery stores across the region.\textsuperscript{278} In 2018, only 58 percent of adults in both New Haven and West Haven reported good or excellent access to affordable, high-quality fruits and vegetables, contrasted with 83 percent of Hamden and 81 percent of Outer Ring adults.\textsuperscript{279}

\textbf{Highlight: Public Libraries}

Public libraries are invaluable anchor institutions that transcend their traditional role of lending books. While their utilization and functions vary greatly from community to community, they often act as centers for educational programming, incubators for entrepreneurs and ideas, hubs for technology and digital learning, and platforms for civic engagement and arts education and appreciation. Overall, library spending in Greater New Haven in fiscal years 2017 and 2018 averaged $51 per resident—below the state average of $60.\textsuperscript{280} However, some towns spent much less, while others spent more; Milford spent $31 per capita, while Woodbridge spent $109.\textsuperscript{281}

Town that spend more on their libraries generally see higher use; in other words, towns with higher total library expenses per capita tend to experience more visits and have higher circulation per capita than lower-spending towns. For example, in 2017 and 2018, East Haven’s public library had 4.3 visits per capita and a circulation per capita of 3.0, while Woodbridge’s public library had 6.8 visits per capita and a circulation per capita of 15.8.\textsuperscript{282} Greater New Haven’s Outer Ring suburbs spent $56 per capita, compared to $34 among Inner Ring towns; the higher-spending Outer Ring suburbs also saw slightly more library use than the Inner Ring towns. \textsuperscript{SEE FIG 4.3}

As libraries have evolved over the years, the way residents interact with and utilize them is changing: statewide, library circulation per capita has trended downward since the early 2000s, decreasing from averaging 8.5 in 2001 and 2002 to 6.7 in 2017 and 2018.\textsuperscript{283} For lower-income residents—less likely to own an internet connected device or have wifi access at home—library computers are a critical resource. In 2017 and 2018, Greater New Haven’s higher-spending Outer Ring towns had more public library computers available per 10,000 residents (10.6) than the region’s Inner Ring towns (5.6).\textsuperscript{284} The city of New Haven has made a strong investment in computers, with 17.4 available per 10,000 residents.\textsuperscript{285}

\textbf{Highlight: Climate Stewardship}

Carbon dioxide and other greenhouse gas emissions, driven by human activity, are increasing global temperatures and thus contributing to issues that have major implications for Greater New Haven: damage to ecosystems, severe storms, extreme flooding, and more heat waves.\textsuperscript{286} One study projects that the average summer high temperature in New Haven in 2050 will be 85.8 degrees, an increase of 4.5 degrees since 2000.\textsuperscript{287} With a substantial shoreline, Greater New Haven is particularly vulnerable to the dangers of sea level rise, coastal storms, and flooding.\textsuperscript{288} Estimates suggest New Haven County’s “100-year flood height”—the level of flooding that statistically has a 1 percent chance of occurring any given year—is 5.8 feet above the high tide line.\textsuperscript{289, 290} The region is home to more than 15,062 residents that live in areas six feet or less above the high tide line, meaning their property would be at risk of exposure if a 100-year flood were to occur; an estimate puts the property value in this exposure zone at $2.7 billion.\textsuperscript{291} One risk model estimates a 49 percent chance of a 100-year flood that reaches 6 feet or more above the local high tide line in New Haven County occurring between 2016 and 2050.\textsuperscript{292}

Looking at the bigger picture, efforts to address climate change should lead to changes that reduce emissions, such as more efficient housing, transportation, and land use. Currently, the estimated annual carbon footprint of each Greater New Haven household ranges from roughly 35 metric tons of emissions in the central areas of New Haven, to between 60 and 75 metric tons in Orange, Woodbridge, Bethany, Guilford, and Madison.\textsuperscript{293}
“Between 2002 and 2015, spending in the state’s wealthiest communities increased much faster than spending in the poorest communities.”
COMMUNITY TRUST AND APPRECIATION

At a fundamental level, civic trust helps to bridge divides and foster cooperation—conditions necessary for both political engagement and economic development; in fact, research has shown strong, positive correlations between regions’ levels of civic trust and economic performance. Higher levels of civic trust also lead to healthier and more cohesive communities, encouraging the growth of social organizations—some of which promote equitable access to much-needed local programs and services in education, transportation, community health, and recreation.

Overall, Greater New Haven adults report feelings of trust in one another, good relationships with friends and family, and appreciation for the communities in which they live. The 2018 DataHaven Community Wellbeing Survey showed that 83 percent of adults agreed that people in their neighborhood could be trusted, 69 percent usually or always receive the social support they need, and 82 percent were satisfied with where they live. Greater New Haven adults also indicated they felt safe in their communities, as 75 percent rated the job done by police to keep residents safe as excellent or good, and 67 percent felt safe walking in their neighborhoods at night—similar to statewide rates for both measures.

However, about 60 percent of both Black and Latino adults in the region said local police are doing a good or excellent job, compared to 83 percent of white adults. This may stem from these communities’ interactions with the police force: 23 percent of Black adults and 20 percent of Latino adults reported experiencing an unfair stop, search, or other incident of mistreatment by the police at least once, compared to only 8 percent of white adults. SEE FIG 3.12 / SEE TABLE 4C

Highlight: Local News Coverage

Local news coverage is a vital tool for encouraging political participation and accountability. A growing body of literature has documented the effect of news coverage on measures of local civic trust and engagement. Areas with fewer local news outlets and declining coverage tend to have lower levels of civic participation and voter turnout. Individuals who are more likely to volunteer, vote, and be active in their communities, are also more likely than less engaged residents to use and value local news. Cities served by newspapers experiencing sharp declines in staffing see reduced political competition in mayoral elections. Additionally, declining local news coverage has been linked to a reduction in community political knowledge and participation, and ongoing research suggests that the closure of a local newspaper may actually increase cost of government due to reduced journalistic scrutiny of deals and spending.

In recent years, local political news coverage has continued to diminish as the industry’s revenue declines, with well over a thousand local newspapers being shuttered across the U.S. over the last 15 years. According to the 2018 Pew Research Center’s Local News Survey, 89 percent of adults living in the New Haven-Milford MSA did not pay for local news during the past year. Only 67 percent of adults reported that they follow the local news very or somewhat closely.

It is important to note that several new nonprofit digital journalism platforms are available in Connecticut. We can get an idea of the demand for local journalism in Greater New Haven by looking at data for usage of The Connecticut Mirror, a nonprofit media organization headquartered in Hartford that focuses on public policy and political issues in the state. Between July 2018 and July 2019, CT Mirror recorded over 205,000 readers in Greater New Haven, a 25 percent increase from the previous year.
## Table 4C: Community trust and appreciation
SHARE OF ADULTS, GREATER NEW HAVEN, 2018

<table>
<thead>
<tr>
<th>Location</th>
<th>Satisfied w/ Area</th>
<th>Police Approval</th>
<th>Safe Walking at Night</th>
<th>Trust Neighbors</th>
<th>Positive Role Models</th>
<th>Receive Social Support</th>
</tr>
</thead>
<tbody>
<tr>
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<td>82%</td>
<td>78%</td>
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<td>85%</td>
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<td>71%</td>
</tr>
<tr>
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<td>75%</td>
<td>87%</td>
<td>83%</td>
<td>77%</td>
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### By Demographic Within Greater New Haven

<table>
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<tr>
<th>Demographic</th>
<th>Satisfied w/ Area</th>
<th>Police Approval</th>
<th>Safe Walking at Night</th>
<th>Trust Neighbors</th>
<th>Positive Role Models</th>
<th>Receive Social Support</th>
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<td>81%</td>
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<tr>
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<td>83%</td>
<td>72%</td>
<td>86%</td>
<td>81%</td>
<td>73%</td>
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<tr>
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<td>80%</td>
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<td>81%</td>
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<td>90%</td>
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### By Geography

<table>
<thead>
<tr>
<th>Geography</th>
<th>Satisfied w/ Area</th>
<th>Police Approval</th>
<th>Safe Walking at Night</th>
<th>Trust Neighbors</th>
<th>Positive Role Models</th>
<th>Receive Social Support</th>
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</thead>
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<td>81%</td>
<td>71%</td>
<td>87%</td>
</tr>
<tr>
<td>East Haven</td>
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<td>73%</td>
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<td>73%</td>
<td>71%</td>
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<tr>
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<td>83%</td>
<td>71%</td>
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<td>84%</td>
</tr>
<tr>
<td>West Haven</td>
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<td>87%</td>
<td>81%</td>
<td>78%</td>
<td>83%</td>
<td>87%</td>
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<tr>
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<td>80%</td>
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<td>74%</td>
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<tr>
<td>Milford</td>
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<td>80%</td>
<td>79%</td>
<td>94%</td>
<td>88%</td>
<td>72%</td>
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</tbody>
</table>
PARTICIPATION IN PUBLIC LIFE

Community and civic engagement can take many forms, from more commonly cited activities—like volunteering and voting—to the vast array of opportunities provided by arts and cultural events, community and school meetings, and religious organizations. As different as they may be, these forms of participation in public life arise from a shared sense of responsibility and belonging, as well as investment and ownership in the local, regional, national, and international communities to which residents belong. The quality of our communities, and our democracy, depend on participation and citizen engagement across the various dimensions of public life.

Opportunities for, and rates of, civic participation are impacted by socioeconomic status in both Connecticut and Greater New Haven; rates of volunteering, voting, and using cultural resources were lower for individuals with lower incomes and levels of educational attainment, indicating that structural inequalities may create obstacles to actively participating in public life.

Volunteering
In 2018, 39 percent of Greater New Haven adults reported having volunteered in the past year, about equal to the state level. However, statewide data reveals that some residents volunteer more than others. As educational attainment and personal income increase, so do rates of volunteering. For example, only 29 percent of adults with a high school degree or less reported volunteering, compared to 48 percent of those with a bachelor’s degree or higher; 27 percent of adults earning less than $30,000 per year volunteered, compared to 54 percent of adults earning over $100,000.

The DataHaven Community Wellbeing Survey attempts to capture neighborhood engagement beyond formal volunteering; the survey asks about collective efficacy, such as whether people nearby are involved in trying to improve their neighborhood, and how likely it is that they would organize to prevent the closing of a local fire station. In 2018, 79 percent of Greater New Haven adults felt their neighbors were invested in improving the neighborhood, while 87 percent believed neighbors would organize to prevent the closing of a fire station. Though difficult to measure at the local level, “informal volunteering”—such as supporting family and friends or doing favors for neighbors—is also an important aspect of community life. According to the Corporation for National and Community Service, in 2018, national rates for these activities were 43 percent and 51 percent, respectively.

Arts and Culture
Community-based arts and cultural resources serve as venues for creativity, innovation, dissent, and dialogue; nurture cultural movements; cultivate public imagination; and drive and inspire authentic civic engagement. From film festivals to theatre groups and museums, these assets provide opportunities for bringing together diverse groups of people and building social capital—both between people and across organizations, like block associations, civic groups, congregations, and political and business groups. By providing the physical and experiential space for people to

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>VOLUNTEER</th>
<th>UTILIZE ARTS &amp; CULTURAL RESOURCES</th>
<th>NEIGHBORS INVOLVED IN IMPROVING AREA</th>
<th>NEIGHBORS WOULD ORGANIZE FOR FIRE STATION</th>
<th>CAN INFLUENCE LOCAL GOVERNMENT</th>
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<tr>
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<td>84%</td>
<td>72%</td>
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<tr>
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<td>78%</td>
<td>87%</td>
<td>73%</td>
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<tr>
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<td>71%</td>
<td>81%</td>
<td>69%</td>
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<tr>
<td>Inner Ring</td>
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<td>72%</td>
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<tr>
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<td>87%</td>
<td>79%</td>
</tr>
</tbody>
</table>
connect, build trust, and cultivate understanding, local arts and cultural resources act as platforms for public dialogue and engagement—critical elements of a healthy democracy.\textsuperscript{359}

Research has shown access to arts and culture fosters stewardship, participation, and civic trust. People who partake in the arts and cultural activities were 12 percent more likely to donate money to a local organization, 14 percent more likely to attend local events, and 21 percent more likely to rate local leaders as effective.\textsuperscript{360} In 2018, 67 percent of Greater New Haven adults utilized arts and cultural resources in the area—such as concerts, museums and cultural events—at least a few times over the past year, which was similar to the statewide rate.\textsuperscript{361} As with volunteering, statewide data show that individuals with higher levels of educational attainment and personal income utilize arts and cultural resources more often: 51 percent of adults with a high school degree or less compared to 70 percent with a bachelor’s degree or higher, and 56 percent of individuals earning less than $30,000 per year versus 70 percent of those earning above $100,000.\textsuperscript{362}

**Voting**

As is the trend nationally, voter turnout in Greater New Haven varies by type of election, with greater turnout for higher-office elections. The region’s turnout rate was 73 percent in the 2016 presidential election, 67 percent in the 2018 midterm election, and only 31 percent in the 2017 municipal election.\textsuperscript{363} These rates were similar to the statewide marks, and higher than national levels. In Greater New Haven, turnout for the 2016 presidential election increased only slightly from that in 2012, while turnout for the 2018 midterm election was 14 percentage points higher than for the 2014 midterms.\textsuperscript{364} Nationally, turnout in the 2018 midterms was the highest in four decades, reversing a trend of declining interest in midterm elections and likely reflecting the tumultuous political landscape following the 2016 presidential election.\textsuperscript{365} But turnout in local elections has continued to trend downward in both the state and Greater New Haven over time. In the 2007 municipal elections, 41 percent of registered Greater New Haven residents cast a ballot—10 percentage points higher than turnout for the 2017 municipal election a decade later.\textsuperscript{366}

Town-level voter turnout rates reinforce the finding that socioeconomic status affects participation in public life. Across the three most recent major elections, turnout rates were lowest in the city of New Haven, near or above the Greater New Haven average in the Inner Ring, and highest in the Outer Ring. New Haven’s recent voter turnout rates were 58 percent in the 2018 midterm, 21 percent in the 2017 municipal elections, and 54 percent in the 2016 presidential election. Meanwhile, recent turnout rates for Outer Ring suburbs were higher, at 71 percent, 34 percent, and 81 percent, respectively.\textsuperscript{367} Low voter turnout is driven by a range of factors, including a lack of basic information on elections, distance to polling stations and hours of operation, inflexible work schedules, limited transportation, and other barriers that disproportionately affect economically distressed communities and communities of color.

Between 2015 and 2018, Greater New Haven adults’ perceived ability to influence local government decisionmaking increased substantially, a trend also seen statewide. The share of residents believing they had at least a little influence on local government increased by 11 percentage points—from 62 percent to 73 percent for Greater New Haven (and from 62 percent to 70 percent statewide).\textsuperscript{368} This jump may reflect the recent surge in political energy and interest across the nation, and particularly among younger voters; voter turnout for adults ages 18 to 29 increased a whopping 79 percent between the 2014 and 2018

---

**TABLE 4E**

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>2018 MIDTERM</th>
<th>2017 MUNICIPAL*</th>
<th>2016 PRESIDENTIAL</th>
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</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>65%</td>
<td>30%</td>
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<tr>
<td>Greater New Haven</td>
<td>67%</td>
<td>31%</td>
<td>73%</td>
</tr>
<tr>
<td>New Haven</td>
<td>58%</td>
<td>21%</td>
<td>54%</td>
</tr>
<tr>
<td>Inner Ring</td>
<td>66%</td>
<td>34%</td>
<td>80%</td>
</tr>
<tr>
<td>East Haven</td>
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<td>75%</td>
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<tr>
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</tr>
<tr>
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<tr>
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</tr>
<tr>
<td>Milford</td>
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<td>28%</td>
<td>78%</td>
</tr>
</tbody>
</table>

* Unofficial Results: note, only towns holding November municipal elections were included in these rates.

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\textsuperscript{359} See Fig 4.4 / See Table 4E

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Midyear 2016 election, and only 31 percent in the 2017 municipal election.\textsuperscript{363} These rates were similar to the statewide marks, and higher than national levels. In Greater New Haven, turnout for the 2016 presidential election increased only slightly from that in 2012, while turnout for the 2018 midterm election was 14 percentage points higher than for the 2014 midterms.\textsuperscript{364} Nationally, turnout in the 2018 midterms was the highest in four decades, reversing a trend of declining interest in midterm elections and likely reflecting the tumultuous political landscape following the 2016 presidential election.\textsuperscript{365} But turnout in local elections has continued to trend downward in both the state and Greater New Haven over time. In the 2007 municipal elections, 41 percent of registered Greater New Haven residents cast a ballot—10 percentage points higher than turnout for the 2017 municipal election a decade later.\textsuperscript{366}

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Between 2015 and 2018, Greater New Haven adults’ perceived ability to influence local government decisionmaking increased substantially, a trend also seen statewide. The share of residents believing they had at least a little influence on local government increased by 11 percentage points—from 62 percent to 73 percent for Greater New Haven (and from 62 percent to 70 percent statewide).\textsuperscript{368} This jump may reflect the recent surge in political energy and interest across the nation, and particularly among younger voters; voter turnout for adults ages 18 to 29 increased a whopping 79 percent between the 2014 and 2018
midterm elections nationwide. Similarly, the share of Greater New Haven residents ages 18 to 34 who felt they had at least a little influence on local government increased 17 percentage points between 2015 and 2018 to 75 percent.

**Highlight: Community Design**

The design of neighborhoods and public spaces impacts residents’ civic health. Cycling, walking, and access to nature and green spaces are all connected to civic trust and participation; urban parks are particularly important, as they promote inclusion and strengthen social networks across diverse groups of people. Individuals residing in walkable neighborhoods report higher levels of civic trust and participation, while those with access to parks and green space are more likely to trust their neighbors and believe community members are willing to help one another.

Research has shown that even the presence of a community garden in easy walking distance is associated with increased participation in public life and more informed local voting. Access to well-maintained green spaces, safe sidewalks, and quality cycling infrastructure are positively associated with many indicators that promote well-being, like increased physical activity, lower levels of stress, stronger social connections, and even reduced mortality. Investment in well-designed and equitable communities is not simply about making neighborhoods more visibly desirable, but about using the built environment as a tool to deliver increased well-being to residents.
“The 2018 DataHaven Community Wellbeing Survey showed that 83 percent of Greater New Haven adults agreed that people in their neighborhood could be trusted.”
Behind every number in this document are people, families, and communities that are far more complex than a few summary statistics. Human beings never match all the averages used to describe them.
Data can help us tell stories, but they cannot tell complete stories on their own.

**THE 2020 CENSUS**

- “With $10.7 billion dollars in annual federal funding to the state on the line, an accurate count of the people living in Connecticut is crucial.”
  Susan Bysiewicz, Lieutenant Governor of Connecticut

- “The Constitution requires that every ten years, the nation undertakes what is arguably its most essential task: ensuring a fair and valid count of every single one of its now 330 million residents.... The products of these efforts are data sets that characterize our population, create political districts, and enable virtually all other ongoing data collection efforts.”

**Conclusion**

Connecticut is changing: our population is growing older and more diverse, our neighborhoods are becoming more stratified, our coastline faces rising sea levels. Data help us understand these changes, and increased data literacy brings more people and new approaches into that work. But the undercurrents of inequality and segregation that define much of life in Connecticut are not absolute. Our neighborhoods are always more than just two-dimensional places of either never-ending hardship or trouble-free affluence. Our attempts at presenting a more nuanced view are nowhere near perfect. Any researchers, ourselves included, have blindspots that influence what we prioritize and what we leave out of our analysis.

Data are never truly objective, either. They might help identify patterns and connect bits of information, but every decision that goes into how data are defined, measured, interpreted, and acted upon is subject to the same bias we know exists in our society. In a time of climate change denial, re-politicization of the Census, and fake news—both the accusation used to deflect criticism and the actual, webclick-optimized phenomenon—dry facts are not enough in pushing for a more just, equitable, and sustainable society.

Data are even used in ways that deepen inequality. Mortgage approvals and bail amounts are made by black-box algorithms that their subjects do not even know about. Data tools, such as the Constitutionally-mandated Census count or the geographical demarcation of where you vote and how much your vote matters, can be used to include and support people, or to render them uncounted, unheard, and invisible. The fact that data can be used in these ways shows just how powerful they can be, and why it is important to understand that social prejudice is often reflected in something presented as impartial.

Our hope is that you will help make this document more whole. Critique it. Find its blind spots, take its conclusions in different directions, and use it to think more critically about the world around you. Share an interesting fact you read here with your neighbor, and see how you might both relate to it differently. Fill in the gaps between data points with your stories. Work with neighbors to help ensure a more equitable and complete population count during the 2020 Census.

Above all, not everything important can be measured. Take what is on the pages here and bring it to life and to action. DH

**THE 2020 CENSUS**

- “With $10.7 billion dollars in annual federal funding to the state on the line, an accurate count of the people living in Connecticut is crucial.”
  Susan Bysiewicz, Lieutenant Governor of Connecticut

- “The Constitution requires that every ten years, the nation undertakes what is arguably its most essential task: ensuring a fair and valid count of every single one of its now 330 million residents.... The products of these efforts are data sets that characterize our population, create political districts, and enable virtually all other ongoing data collection efforts.”
SECTION 1. NOTES ON FIGURES AND TABLES

GENERAL NOTE ON DATAHAVEN COMMUNITY WELLBEING SURVEY

One of the major sources used in this report is the DataHaven Community Wellbeing Survey (CWS). This survey was most recently carried out from March to November 2018, during which 16,000 randomly-selected adults were interviewed, including residents from all 169 towns in Connecticut; the 2015 iteration had a similar sample size and scope. Questions on the CWS are compiled from local, national, and international sources and best practices, and are developed with input from an advisory committee of leading experts in survey research. All reported CWS estimates are weighted in order to accurately represent the underlying adult population within each region, town, or neighborhood. For more information and crosstabs of data, see https://ctdatahaven.org/reports/datahaven-community-wellbeing-survey

GENERAL NOTE ON GEOGRAPHY

Greater New Haven is made up of 13 towns within New Haven County: Bethany, Branford, East Haven, Guilford, Hamden, Madison, Milford, New Haven, North Branford, North Haven, Orange, West Haven, and Woodbridge. Within this, we often compare New Haven to its Inner Ring suburbs (East Haven, Hamden, and West Haven) and its Outer Ring suburbs (Bethany, Branford, Guilford, Madison, Milford, North Branford, North Haven, Orange, and Woodbridge). When possible, we also highlight larger individual towns, often New Haven, the Inner Ring towns, and Milford.

Analysis of U.S. Census Bureau public use microdata sample (PUMS) data is done for combinations of public use microdata areas (PUMAs), the smallest geographic unit for which PUMS data is available. No combination of PUMAs line up with the town boundaries of Greater New Haven exactly. Instead, we use a proxy of the Connecticut PUMAs with FIPS codes 00906, 00907, 00908, and 00909. This proxy adds the nearby towns of Ansonia, Derby, and Seymour, and loses the 13-town Greater New Haven region used elsewhere.

Chapter 1

FIG 1.1. COMPONENTS OF THE DATAHAVEN COMMUNITY INDEX, 2017

DataHaven analysis (2019). The 12 indicators used in the Community Index include: (1) Opportunity youth, or the share of people ages 16 to 19 who are neither in school nor working; (2) the unemployment rate; (3) the overall poverty rate; (4) the share of children ages 0 to 5 living in poverty; (5) the share of adults with a high school education or more; (6) the share of people with health insurance; (7) severe housing cost burden, or the share of households paying 50 percent or more of their income towards housing costs; (8) the share of three- and four-year-olds enrolled in preschool; (9) average life expectancy; (10) the share of workers whose commutes are 30 minutes or less; (11) youthful workforce, or the share of the population ages 25 to 44; and (12) median household income.

The Community Index assigns each of the 12 component indicators a relative value from 0 to 1,000, where 1,000 is assigned to the best/preferred outcome. In other words, the value is generated relative to the areas with the highest and lowest indicator values. This helps to control for the different distributions of each indicator, but may exaggerate the effect of outliers. Colors indicate how each area ranks relative to other locations in the analysis as better or worse than average. Data tables contain “N/A” where information is not available. In addition to major geographic regions, the larger towns or regions with the best and worst values are displayed to the right of the chart.

Because the data used for these indicators are available at different geographic levels nationwide, local neighborhoods, towns, and regions in Connecticut were compared not just to each other, but to U.S. averages and metropolitan areas. See Table 1 for more details on metropolitan areas.


Life expectancy is a prediction of the number of years a person born today might expect to live given the mortality rate among all age groups in the area in which they are born. Because of the interrelated nature of health and socioeconomic status, life expectancy can be understood as a measure of health and a measure of social well-being. The latest available data for life expectancy covers the period from 2010 to 2015 and is summarized here as the population-weighted average life expectancy for each geographic area based on the census tracts within that area. See Table 1 for a more granular analysis of life expectancy data.

The Community Index uses Census ACS estimates for health insurance coverage to allow for nationwide comparisons at many geographic levels. Elsewhere in this report, health insurance coverage is reported from the DataHaven Community Wellbeing Survey.

The average (mean) of the 12 scaled indicators represents the area’s Community Index score. Five-year averages for 2008–2012 and 2013–2017 were used because they represent non-overlapping estimate ranges; only the 2013–2017 values are shown in figures. See Table 1 for more details on metropolitan areas.

FIG 1.2. COMPOSITE SCORE OF THE DATAHAVEN COMMUNITY INDEX BY AREA, 2017

See Figure 1.1 for methodology behind the Community Index. Metropolitan areas are defined by the federal Office of Management and Budget. While metropolitan areas from around the country were used in ranking values, only those in New England states with at least 300,000 people, and New York, NY, are displayed here.

Within New Haven, Census tracts were clustered into neighborhood groups, with New Haven lower-income neighborhoods as tracts 140200, 140300, 140400, 140500, 140600, 140700, 141300, 141400, 141500, 141600, 142300, 142400, 142500, and 142601; and New Haven other neighborhoods as tracts 140100, 140800, 140900, 141000, 141100, 141200, 141800, 141900, 142000, 142100, 142200, 142303, 142604, 142700, 142800, 361401, and 361402. Index components were then calculated for these clusters with the same methods as for towns and other regions. All tracts are within New Haven County (FIPS code 09009).
FIG 1.3. COMPONENTS OF THE DATAHAVEN COMMUNITY INDEX BY RACE/ETHNICITY, 2017
SEE FIG 1.1 Many American Community Survey subtables are available for individual racial/ethnic groups; these were used to calculate Community Index indicators by race/ethnicity. For indicators not available through American Community Survey tables (severe housing cost burden, and the share of workers with short commutes), additional DataHaven analysis (2019) of U.S. Census Bureau American Community Survey 2017 5-year public use microdata sample (PUMS) data was conducted. Analysis of PUMS data involves weighting survey responses to reflect overall population demographics. For life expectancy, results are reported as the population-weighted life expectancy for tracts by racial/ethnic group comprising the largest share of population in that tract. Due to low sample sizes, age ranges for preschool enrollment differ between population-level tables and subtables. Since the two are not comparable, that indicator is removed from this Index.


FIG 1.4. DATAHAVEN PERSONAL WELLBEING INDEX VS COMMUNITY INDEX; DATAHAVEN PERSONAL WELLBEING INDEX VS NEIGHBORHOOD ASSETS INDEX
SEE FIG 1.1 FOR COMMUNITY INDEX DETAILS / SEE TABLE 1C FOR PERSONAL WELLBEING INDEX DETAILS The Neighborhood Assets Index is an aggregate of 2018 DataHaven Community Wellbeing Survey participants’ positive ratings on 6 indicators about the area where they live: (1) condition of local parks, (2) quality of the area as a place to raise children, (3) responsiveness of local government, (4) availability of recreation facilities, and the presence of (5) safe places to bike and (6) safe sidewalks and crosswalks. Likert-style responses (e.g. “excellent,” “very good,” “good,” “fair,” “poor”) were converted to scaled numeric values, averaged, and used for factor analysis to get a single composite score for each location and demographic group. These scores were then scaled to range from 0 (lower ratings of health) to 1,000 (higher ratings of health).

TABLE 1B. DATAHAVEN COMMUNITY INDEX AND ITS COMPONENTS BY AREA AND NEIGHBORHOOD, 2017
SEE FIG 1.1

TABLE 1C. DATAHAVEN INDEX SCORES BY DEMOGRAPHIC GROUP AND TOWN, 2017
DataHaven analysis (2019) of questions from 2018 DataHaven Community Wellbeing Survey. The Personal Wellbeing Index is an aggregate of survey participants’ positive ratings on four indicators about their health: (1) current anxiety, (2) current happiness, (3) satisfaction with their life, and (4) overall self-rated health. Likert-style responses (e.g. “excellent,” “very good,” “good,” “fair,” “poor”) were converted to scaled numeric values, averaged, and used for factor analysis to get a single composite score for each location and demographic group. These scores were then scaled to range from 0 (lower ratings of health) to 1,000 (higher ratings of health).

TABLE 1A. DATAHAVEN COMMUNITY INDEX SCORES FOR LARGE U.S. METROPOLITAN AREAS AND LOCAL CITIES, TOWNS, AND NEIGHBORHOODS, 2012 AND 2017
SEE FIG 1.1 FOR METHODOLOGY AND DETAILS The top-ranking 35 metropolitan areas are reported, along with the seven bottom-ranking areas and select areas in New England. Metropolitan areas’ boundaries change periodically, most recently in 2015. This analysis considers all U.S. metropolitan areas using 2015 geographic boundaries with populations of at least 500,000 in 2017.
and worked an average of at least 35 hours per week. Median income is defined as each group’s median earnings from work, excluding other non-work sources of income. **See Fig 2.9 for detail on construction of geographies for PUMS analysis**

**Fig 2.11. Distribution of population by neighborhood income level, 1980–2017**

DataHaven analysis (2019) 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 2001 figures from the 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 neighborhood-level geographic boundaries constant over time. 2017 values are calculated from U.S. Census Bureau American Community Survey 2017 5-year estimates Tables B01003, Total Population; B19101, Family Income in the Past 12 Months (in 2017 Inflation-Adjusted Dollars); and B19127. Available at [https://factfinder.census.gov](https://factfinder.census.gov).

**Fig 2.12. Median household income, 1980–2017**


**Fig 2.13. Median housing value by town, 2017**


**Fig 2.14. Cost-burden and severe cost-burden rates by tenure, 2005–2017**

DataHaven analysis (2019). All figures are from U.S. Census Bureau American Community Survey, 2005 values are from Tables B25070 and B25091. 2010 and 2015 figures are from 5-year estimates, Tables B25074, Household Income by Gross Rent as a Percentage of Household Income in the Past 12 Months; and B25091. Available at [https://factfinder.census.gov](https://factfinder.census.gov).

2005 ACS data is only available for the largest towns in Connecticut; as such, values here are for New Haven County for each year shown.

**Fig 2.15. Median renter household income and minimum household income to afford 2BR housing, 2017**

DataHaven analysis (2019) of U.S. Census Bureau American Community Survey 2017 5-year estimates, Tables B25031, Median Gross Rent by Bedrooms; B25042, Tenure by Bedrooms; and B25119, Median Household Income the Past 12 Months (in 2017 Inflation-Adjusted Dollars) by Tenure. Available at [https://factfinder.census.gov](https://factfinder.census.gov). For comparison, we only studied two-bedroom apartments, both for median rent and median household income. Because some towns have few renters, leading to larger margins of error, values were filtered to only include towns with relatively small margins of error compared to median rent and where at least 20 percent of households were renter-occupied. Rent is considered affordable based on Federal Department of Housing and Urban Development (HUD) guidelines that housing costs total no more than 30 percent of a household’s total income. We calculated the minimum household income needed for the median rent of a two-bedroom apartment to be affordable under this guideline, and consider the shortfall to be the difference between this minimum household income and the median income of a renter household in a two-bedroom apartment.


**Fig 2.16. Homeownership rate by historic redlining grade, 2010**

DataHaven analysis (2019). To calculate current demographics data of areas by HOLC grade, we used digitized versions of historical HOLC maps from Mapping Inequality [see reference below](https://www.census.gov/programs-surveys/historical-census-geographies/maps/files.html), which were then aggregated 2010 Decennial Census data, the most recent data available at the block level, for each of these graded areas. Homeownership data comes from U.S. Census Bureau 2010 Decennial Census SF1 Table H4, Tenure, available at [https://factfinder.census.gov](https://factfinder.census.gov). See Fig 2.16 for local recreation of HOLC maps.

DATAHAVEN ANALYSIS (2019) OF U.S. CENSUS BUREAU 2010 DECENNIAL CENSUS SF1 TABLE P5, HISPANIC OR LATINO ORIGIN BY RACE, AVAILABLE AT HTTPS://FACTFINDER.CENSUS.GOV; AND NELSON, ET AL.

Mapping Inequality. White population is defined as non-Hispanic white residents of each area. See Fig. 2.16 for spatial analysis methodology. See Fig. 2.18 for local recreation of HOLC Maps.

FIG 2.19. NET INFLOW OF WORKERS BY TOWN AND WAGE, 2015
DataHaven analysis (2019) of U.S. Census Bureau Longitudinal-Employer-Household Dynamics Origin-Destination Employment Statistics (LODES) to construct a directional network of workers moving between pairs of towns in the region. LODES data reports the census block in which workers live and the census block in which they are employed, though employer locations are based on the location of payroll and other financial offices, rather than physical place of employment. Presumably, workers work in the same town as the financial office that represents the employer. The analysis includes people who 1) both live and work in Connecticut; 2) live in New York, and have employed a study to examine these cases, annual values are the mean of that year's available quarters. Numbers shown at each endpoint are their respective years' annual averages, not quarterly counts. QWI data is only available at county levels; therefore, numbers here are for all of New Haven County.

FIG 2.21. COUNT OF K–12 STUDENTS BY RACE, PER 100 STUDENTS, 2018–2019
DataHaven analysis (2019) of 2018–2019 school year enrollment data from the Connecticut State Department of Education, accessed via EdSight at http://edvisions.ct.gov. For this and other indicators based on public school districts, regional districts were included as parts of regions to which their sending towns belong; in some cases, these towns also run their own districts for elementary school, but send middle and/or high school students to the regional district. Greater New Haven values include Regional School District 5, commonly known as Amity and comprised of middle and high school students from the towns of Bethany, Orange, and Woodbridge.

FIG 2.22. PERCENTAGE OF STUDENTS SUSPENDED OR EXPELLED AT LEAST ONCE, K–12 DISTRICTS, 2017–2018
DataHaven analysis (2019) of 2017–2018 school year discipline data from the Connecticut State Department of Education, accessed via EdSight at http://edvisions.ct.gov. Numbers here represent the share of students who have been suspended (in-school or out-of-school) or expelled in the past school year, not duplicated suspension rates. See Fig. 2.21 for details on regional districts.

FIG 2.23. SHARE OF PUBLIC K–12 STUDENTS MEETING ACHIEVEMENT MEASURES, 2017–2018
DataHaven analysis (2019) of data from the Connecticut State Department of Education, accessed via EdSight at http://edvisions.ct.gov. Graduation rates presented are four-year cohort graduation rates, giving the percentage of students in the graduating class of 2017 who earned a high school diploma alongside the cohort with which they started 9th grade. A student is considered chronically absent if they miss at least 10 percent of the school days for which they were enrolled in a year for any reason; the chronic absenteeism rate is then the percentage of enrolled students who are chronically absent in a year. The Smarter Balanced Assessment Consortium (SBAC) standardized test is the Common Core-aligned test used in Connecticut since 2015 for both English/language arts (ELA) and math. Students are considered to pass a test if they score as meeting or exceeding grade-level goals; proficiency rates here are the share of students taking each test who passed. Chronic absenteeism and SBAC proficiency rates are from the 2017–2018 school year. See Fig. 2.21 for details on regional districts.

FIG 2.24. NUMBER AND SHARE OF STUDENTS ENROLLING IN, PERSISTING IN, AND GRADUATING FROM COLLEGE
DataHaven analysis (2019) of data from the Connecticut State Department of Education, accessed via EdSight at http://edvisions.ct.gov. Enrollment rates are defined as the percentage of students from a given graduating class who enroll in college within one year of graduation. Persistence rates are defined as the percentage of students who, after enrolling in college within one 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 six years of graduating high school, out of the entire high school graduating class. The most recent available data is shown here, which is the high school graduating class of 2014 for graduation, enrollment, and persistence rates, and the class of 2010 for degree attainment rates. See Fig. 2.21 for details on regional districts.

FIG 2.25. SHARE OF ADULTS RATING AS ALMOST CERTAIN OR VERY LIKELY THAT YOUNG PEOPLE IN THEIR AREA HAVE THE FOLLOWING EXPERIENCES, 2018
DataHaven analysis (2019) of questions from the 2018 DataHaven Community Wellbeing Survey. Indicators show percentage of survey participants who believe the chances of each experience are almost certain or very likely, disaggregated by location, self-reported race/ethnicity, and income. See community wellbeing survey note at the start of this section.

FIG 2.26. PROBABILITY (%) OF REACHING TOP 20% OF HOUSEHOLD INCOMES AS ADULTS BY RACE AND CHILDHOOD HOUSEHOLD INCOME
DataHaven analysis (2019) of data from Chetty, R., Friedman, J. N., Hendren, N., Jones, M. R., & Porter, S. R. (2018). The Opportunity Atlas: Mapping the Childhood Roots of Social Mobility. Table 5: All Outcomes by County, Race, Gender and Parental Income Percentile. See paper and data at https://opportunityinsights.org/paper/the-opportunity-atlas. Chetty et al. used deidentified Census data to model the upward mobility of people of different demographic groups, based on the percentile of household income of the household in which they grew up. Percentages here represent the share of children of each racial group born between 1978 and 1983 whose childhood household was low-income (at the national 25th percentile), middle-income (50th percentile), or high-income (75th percentile) who then lived in households with incomes in the top 20 percentile nationally in 2014 and 2015.
to lack of reliable transportation. Likewise, food insecurity is defined as the share of participants reporting that at some point in the past 12 months, they were unable to afford to buy food they needed. Utility shutoffs are based on participants who reported having received a utility shutoff warning or losing power during the past 12 months. Values are disaggregated by location and self-reported demographic groups. SEE COMMUNITY WELLBEING SURVEY NOTE AT THE BEGINNING OF THIS SECTION

TABLE 2G. HOMEOWNERSHIP, 2017
DataHaven analysis (2019) of U.S. Census Bureau American Community Survey 2017 5-year estimates, Tables B25003, Tenure; B25003B, Tenure (Black or African American Alone Householder); B25003H, Tenure (White Alone, Not Hispanic or Latino Householder); and B25003I, Tenure (Hispanic or Latino Householder). Tables available at https://factfinder.census.gov

TABLE 2H. HOUSING UNITS AND NEW HOUSING PERMITS
DataHaven analysis (2019). Counts of housing unit types, and shares of all housing units, are from U.S. Census Bureau American Community Survey 2017 5-year estimates, Table B2502A, Units in Structure. Available at https://factfinder.census.gov. Data on housing permits from Connecticut Department of Economic and Community Development, available at https:/\%2F\%2Fdata.ct.gov\%2FDatasets\%2FDocuments\%2Fpermit\%2Fpermit\%2F2018 Monthly Building Unit Data. Available at https://www.ct.gov/dep\%2Fportal\%2Fdefault\%2Fcontent\%2Fdep\%2Fbuilding\%2FDocuments\%2F2018 Monthly Building Unit Data. Numbers of permits are averaged over four-year periods to smooth out fluctuations in construction from year to year, for example when a single large building is built.

TABLE 2I. HOUSING COSTS, 2017

TABLE 2J. WAGE TRENDS BY SECTOR, 2000–2017
DataHaven analysis (2019) of U.S. Census Bureau Quarterly Workforce Indicators, available at http://qwiexplorer.ces.census.gov at county level. Average wages are given, and are calculated here as means of total annual payroll over annual average employment by sector. 2000 wages are adjusted for inflation in order to accurately calculate changes in average wages over time. Industries are categorized based on the North American Industry Classification System (NAICS); those shown are sectors in which there were at least 10,000 workers in the region in 2017. SEE FIG 2.20 FOR DETAILS ON GEOGRAPHY

TABLE 2K. CHANGING INDUSTRY FOOTPRINT, 2000–2017
DataHaven analysis (2019) of U.S. Census Bureau Quarterly Workforce Indicators, available at http://qwiexplorer.ces.census.gov at county level. Each share is given as that sector’s divided by the region’s total payroll across all sectors. This includes the sectors with fewer than 10,000 workers that were excluded from Fig 2.20. SEE FIG 2.20 FOR DETAILS ON GEOGRAPHY

TABLE 2L. ECONOMIC OPPORTUNITY, 2018
DataHaven analysis (2019) of questions from the 2018 DataHaven Community Wellbeing Survey. Access to good opportunities for employment is the share of survey participants rating the ability of residents to obtain suitable employment as excellent or good. Youth opportunities for job advancement is the share of participants estimating that it is almost certain or very likely that young people in their area will get a job with opportunity for advancement. Car access is the share of participants saying they very often or fairly often have access to a car when they need it. Underemployment is calculated as the share of participants not working within the past 30 days but wanting to work, plus the share working part-time but preferring full-time work. SEE COMMUNITY WELLBEING SURVEY NOTE AT THE BEGINNING OF THIS SECTION

TABLE 2M. COLLEGE ENROLLMENT, PERSISTENCE, AND COMPLETION
SEE FIG 2.24 / SEE FIG 2.21 FOR DETAILS ON REGIONAL DISTRICTS

TABLE 2N. EDUCATIONAL ATTAINMENT, 2017
Chapter 3

Section 3.1: Estimated Life Expectancy in Years, 2010–2015

Section 3.2: Years of Potential Life Lost Before Age 75 Per 100,000 Residents by Cause of Death, 2010–2014
DataHaven analysis (2019) of data from the Connecticut Department of Public Health. For Years of Potential Life Lost (YPLL), we created annualized YPLL rates or “Premature Death Rates”) by cause using the 2010–2014 dataset at the town level; geographies presented here include the state, county, 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)*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 CDPH data 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 causes of death.

Section 3.3: Age-Adjusted and Relative Age-Adjusted Encounter Rates Per 10,000 Residents, 2015–2017
DataHaven analysis (2019) of CHIME data. 2018. Data about residents’ visits to hospitals and emergency rooms may be used as a tool to examine variations in health and quality of life by geography and within specific populations. Unless otherwise noted, all information from this source is based on a DataHaven analysis of 2012–2014 and 2015–2017 CHIME data provided by the 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 over 10,000,000 Connecticut hospital and emergency department encounters incurred by any residents of any town in Connecticut during the six year period studied. 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. Each encounter observation had a unique encounter ID 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 under-reported in some cases.

Annualized encounter rates were calculated for the indicator flags assigned within the dataset including Asthma, COPD, Substance Abuse, and many other conditions. Analyses in this document describe data on “all hospital encounters” including inpatient, emergency department (ED), and observation encounters. Annualized encounter rates per 10,000 persons were calculated for the three-year period 2012–2014 and the three-year period 2015–2017 by merging CHIME data with population data. For each geographic area and indicator, our analysis generally included an annualized encounter rate for populations in each of six age strata (0–19, 20–44, 45–64, 65–74, 75–84, and 85+ years), and by gender, as well as a single age-adjusted annualized encounter rate. It is important to note that there is no way to discern the unique number of individuals in any zip code, 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. To better examine encounter rates for asthma, a more appropriate set of age groupings was used (0–4, 5–19, 20–44, 45–64, 65–74, and 75+ years), so age-adjusted rates were not calculated for asthma. Please contact DataHaven for further information.

Section 3.4: Chronic Disease, Encounter Rates Per 10,000 Residents 2015–2017
See Fig 3.3

Section 3.5: Other Health Issues, Encounter Rates Per 10,000 Residents, 2015–2017
See Fig 3.3

Section 3.6: Chronic Disease, Age-Adjusted Rate of Hospitalizations and ED Encounters Per 10,000 Residents, 2012–2014 To 2015–2017
See Fig 3.3

Section 3.7: Other Health Issues, Age-Adjusted Rate of Hospitalizations and ED Encounters Per 10,000 Residents, 2012–2014 To 2015–2017
See Fig 3.3

Section 3.8: Residents’ Rating of Likelihood That Youth In Their Area Would Use Drugs Or Alcohol, By Race And Income, 2018
DataHaven analysis (2019) of questions from the 2018 DataHaven Community Wellbeing Survey. Indicators show percentage of survey participants guessing that chances of each experience are of each likelihood shown, disaggregated by location and self-reported race/ethnicity and income. Unlike similar questions where the focus was the percentage of adults estimating each event as almost certain or very likely, on this indicator, we chose to focus instead on participants’ uncertainty, illustrating that the risk of drug and alcohol abuse is a problem seen across demographic groups. See Fig 2.25 for other questions in this bank, and Community Wellbeing Survey Note

Section 3.9: Age-Adjusted Monthly Rate of Drug Overdose Deaths Per 1 Million Residents, 2012–2018
DataHaven analysis (2019) of data from the Connecticut Office of the Chief Medical Examiner, available at https://data.ct.gov/resource/rvby-njyf. Data is given for each individual to have died in Connecticut of a drug overdose from 2012 to 2018. For this analysis, data was filtered to only include people with a Connecticut town listed as their place of residence at the time of death and with their age on record. Monthly counts by age were used to calculate crude rates of overdose deaths per 1 million residents of each age group. To get age-adjusted rates, crude rates by age group were then weighted with the U.S. Centers for Disease Control and Prevention (CDC) 2000 U.S. Standard Population 18 age group weights available at https://seer.cancer.gov/stdpopulations. The rates shown here are 6-month rolling averages; that is, the rate for any given point shown in the chart represents the age-adjusted overdose death rate for that month averaged with the rates of the five months preceding it.

Section 3.10: Count of Drug Overdose Deaths At 6-Month Intervals By Presence Of Fentanyl, With Percentage Of Deaths That Are Fentanyl-Related, 2012–2018
DataHaven analysis (2019) of data from the Connecticut Office of the Chief Medical Examiner, available at https://data.ct.gov/resource/rvby-njyf. In data on drug overdose deaths, individuals are marked for several common substances that may be found by the medical examiner, and may also have a more detailed cause of death written out. The categories in the data include heroin, fentanyl, and generic names of several opioids, such as oxycodone and hydromorphone. We used text mining techniques to find additional names of opiates and opioids from the cause of death text in order to fill in cases where those substances were not checked off otherwise, relevant substances didn’t fit into a given category, or where substances were misspelled or abbreviated. In total, more than a dozen substances were included as search terms to mark a death as opiate- or opioid-related; these deaths may have involved non-opiates as well. Similarly, cases were marked as fentanyl-related if either checked categories or text fields reported fentanyl or any fentanyl-analogues being found. See also Fig 3.9
Chapter 4

FIG 4.1. MEASURES OF PER-PERSON MUNICIPAL ASSETS AND SPENDING
DataHaven analysis (2019). Equalized net grand list (ENG), total expenditures, and education spending data are from the fiscal years 2013–2017 municipal fiscal indicators database from the Connecticut Office of Policy and Management (OPM), available at https://portal.ct.gov/OPM/IGP-MUNINFSP/Municipal-Financial-Services/Municipal-Fiscal-Indicators. Each of these values included are for fiscal year 2017. ENG is divided by 2017 town populations to get per-capita values. Education spending is divided by the number of enrolled public school students in each town; in cases of regional school districts that span more than one town, their pupils were allocated to towns by weighting by each town’s population under age 18. OPM’s website gives details on which types of expenditures are included or excluded in calculating education spending. Total expenditures are divided by towns’ daytime population, calculated as a town’s population plus the number of people who work in that town minus the number of residents who leave the town for work; this better captures the financial strains put on towns with large numbers of incoming commuters. Municipal gap/surplus comes from the New England Public Policy Center. Municipal surplus per capita is the difference between a town’s municipal capacity per resident, or the amount of money from tax revenue available to that municipality, and municipal cost per resident, or the amount of money needed to cover the town’s estimated public expenses. Negative values signify a gap in funding available to a town’s estimated public expenses. Negative values signify a gap in funding available to the town’s estimated public expenses. Note that the years differ in which presidential, midterm, and local elections are held; as such, the most recent data for each type of election was used. As of 2019, this includes the 2018 state elections, including Congressional midterms; 2017 municipal elections, held in most towns; and 2016 national elections, including votes for president. Participants in the 2018 DataHaven Community Wellbeing Survey also answered a question regarding their registration to vote.

TABLE 4A. MUNICIPAL EXPENDITURES AND FINANCIAL CAPACITY INDICATORS, FY2017

FIG 4.2. NEIGHBORHOOD ASSET INDEX VS MUNICIPAL SURPLUS PER CAPITA
DataHaven analysis (2019). SEE FIG 1.4 FOR DEFINITION OF NEIGHBORHOOD ASSET INDEX / SEE FIG 4.1 FOR DEFINITION OF MUNICIPAL GAP/SURPLUS. Towns may have a negative surplus (i.e. a gap), in which case they are shown to the left of $0 along the bottom axis. Towns to the right of $0 operate on a surplus, or higher capacity than cost per person.

FIG 4.3. AVERAGE TOWN PUBLIC LIBRARY VISITS PER CAPITA AND CIRCULATION PER CAPITA VS TOTAL LIBRARY EXPENSES PER CAPITA, 2017–2018
DataHaven analysis (2019) of Connecticut State Library Statistical Profiles, available at http://libguides.ctstatelibrary.org/dlid/stats. Data for fiscal years 2017 and 2018 were averaged to control for single-year major spending (such as on facility renovations). Expenses per capita is the average of the total expenditure divided by the total population, as given by the State Library profiles. Similarly, averages of total units circulated and visits are divided by the population given by the State Library profiles.

FIG 4.4. PERCENT OF ELIGIBLE VOTERS WHO VOTED IN ELECTIONS, BY REGION AND WITH HIGHEST AND LOWEST TOWN RATES, 2016–2018
DataHaven analysis (2019) of voter turnout data from the Connecticut Secretary of the State, available at https://cttempspublic.pcttg.net. Voter turnout is defined as the percentage of officially registered voters who are documented as having voted. This includes overseas ballots but does not include absentee voters. Note that the years differ in which presidential, midterm, and local elections are held; as such, the most recent data for each type of election was used. As of 2019, this includes the 2018 state elections, including Congressional midterms; 2017 municipal elections, held in most towns; and 2016 national elections, including votes for president. Participants in the 2018 DataHaven Community Wellbeing Survey also answered a question regarding their registration to vote.

SECTION 2. TEXT ENDNOTES
5 SEE NOTES FOR FIG 1.1
6 SEE NOTES FOR FIG 1.2
7 SEE NOTES FOR FIG 1.1
8 The Community Index uses Census American Community Survey estimates for health insurance coverage to allow for nationwide comparisons at many geographic levels. Elsewhere in this report, health insurance coverage is reported from Data Haven’s Community Wellbeing Survey.
9 Inner Ring towns include East Haven, West Haven, and Hamden. Outer Ring towns include Bethany, Branford, Guilford, Madison, Milford, North Branford, North Haven, Orange, and Woodbridge.
10 U.S. Census Bureau. American Community Survey 2012 and 2017 5-year estimates, Table B14003, Sex by School Enrollment by Type of School By Age for the Population 3 Years and Over. This and all other Census tables available at https://factfinder.census.gov unless otherwise noted.
11 U.S. Census Bureau. American Community Survey 2017 5-year estimates, Tables B25070, Gross Rent as a Percentage of Household Income in the Past 12 Months; and B25091, Mortgage Status by Selected Monthly Owner Costs as a Percentage of Household Income in the Past 12 Months.
13 U.S. Census Bureau. American Community Survey 2017 5-year estimates, Table B17001, Poverty Status in the Past 12 Months by Sex by Age.


15 For life expectancy, results are reported as the population-weighted life expectancy for tracts by the plurality of population by race/ethnicity in that tract.

16 U.S. Census Bureau. American Community Survey 2017 5-year estimates, Tables B19013B, B19013D, B19013H, and B19013I, Median Household Income in the Past 12 Months (in 2017 Inflation-Adjusted Dollars). Census data used here references the race of the head of household, which may differ from other members of the household. For purposes of simplicity, “white households” means households with a white head of household.


18 U.S. Census Bureau. American Community Survey 2017 5-year estimates, Table B08303, Travel Time to Work.


20 SEE NOTES FOR FIG 1.1


24 U.S. Census Bureau. American Community Survey 2017 5-year estimates, Table B01001, Sex by Age.

25 SEE NOTES FOR TABLE 2A Median age of the region is determined by taking the mean of all the towns’ median ages weighted by town populations.

26 Ibid.

27 Ibid.

28 SEE NOTES FOR FIG 2.1

29 Ibid.

30 Ibid.

31 Ibid.

32 Ibid.

33 Ibid.

34 Ibid.

35 Ibid.

36 SEE NOTES FOR FIG 2.3

37 Ibid.

38 Ibid.

39 Ibid.

40 SEE NOTES FOR FIG 2.2

41 Ibid.

42 SEE NOTES FOR FIG 2.4

43 SEE NOTES FOR FIG 2.5

44 Ibid.


46 SEE NOTES FOR FIG 2.5

47 Ibid.

48 Ibid.

49 U.S. Census Bureau. American Community Survey 2017 5-year estimates, Table B05001, Nativity and Citizenship Status in the United States.

50 Ibid.

51 U.S. Census Bureau. American Community Survey 2017 5-year estimates, Table B05007, Place of Birth by Year of Entry by Citizenship Status for the Foreign-Born Population.

52 Ibid.

53 DataHaven analysis (2019) of Ruggles et al. American Community Survey 2016 5-year Census microdata. SEE ALSO NOTE ON GEOGRAPHY IN THE TABLE AND FIGURE NOTES

54 Ibid.

55 U.S. Census Bureau. American Community Survey 2017 5-year estimates, Table B06007, Place of Birth by Language Spoken at Home and Ability to Speak English in the United States.

56 Ibid.

57 Reynolds, D. (2017, January 12). Gallup Poll: A Record Number of Americans Identify as LGBT. Advocate. Retrieved from https://www.advocate.com. While our preference, and what we use elsewhere, is the grouping “lesbian, gay, bisexual, transgender, or queer” (LGBTQ), we follow the language used in sources such as this one.

58 In data from the U.S. Census Bureau and represented here, a household is defined as one or more people who occupy a house, apartment, or other group of rooms with separate living quarters.

59 SEE NOTES FOR FIG 2.6

60 Ibid.

61 SEE NOTES FOR TABLE 2C

62 Ibid.

63 SEE NOTES FOR FIG 2.8

64 SEE NOTES FOR FIG 2.12


66 SEE NOTES FOR FIG 2.8

67 SEE NOTES FOR FIG 2.9

68 SEE NOTES FOR FIG 2.10

69 Ibid.

70 DataHaven analysis (2019) of Ruggles et al. American Community Survey 2016 5-year Census microdata. SEE ALSO NOTE ON GEOGRAPHY IN THE TABLE AND FIGURE NOTES

71 Ibid.

72 Ibid.


75 SEE NOTES FOR TABLE 2F
91 In 2017, approximately 12 percent of Greater New Haven’s population lived below the federal poverty line, slightly above the statewide rate of 10 percent and below the nationwide rate of 15 percent. U.S. Census Bureau. American Community Survey 2017 5-year estimates, Table C17002, Ratio of Income to Poverty Level in the Past 12 Months.


93 SEE NOTES FOR FIG 2.7

94 SEE NOTES FOR FIG 2.7 AND TABLE 2E


97 SEE NOTES FOR TABLE 2F

98 SEE NOTES FOR TABLE 2G


100 Ibid.

101 SEE NOTES FOR TABLE 2G

102 Ibid.

103 SEE NOTES FOR TABLE 2H

104 Ibid.

105 Ibid.

106 U.S. Census Bureau. American Community Survey 2017 5-year estimates, Table B25077, Median Value (Dollars). SEE ALSO FIG 2.14

107 DataHaven analysis (2019) of Ruggles et al. 2017 ACS 5-year Census microdata. SEE ALSO NOTE ON GEOGRAPHY IN THE TABLE AND FIGURE NOTES


109 Ibid.


111 Ibid.


113 Ibid.

114 Ibid.

115 DataHaven. (2018). DataHaven Community Wellbeing Survey. SEE SURVEY NOTE IN THE TABLE AND FIGURE NOTES


117 SEE NOTES FOR FIG 2.14

118 Ibid. Note that due to availability in the 2005 ACS, values for cost burden trends are for New Haven County, not the 13-town region.

119 Ibid.

120 SEE NOTES FOR FIG 2.15

121 Ibid.

122 DataHaven analysis (2019) of data from The Eviction Lab at Princeton University, a project directed by Matthew Desmond and designed by Ashley Gromis, Lavar Edmonds, James Hendrickson, Katie Krywokulski, Lilian Leung, and Adam Porton. The Eviction Lab is funded by the JPJ, Gates, and Ford Foundations as well as the Chan Zuckerberg Initiative. More information is found at evictionlab.org

123 DataHaven. (2018). DataHaven Community Wellbeing Survey. SEE SURVEY NOTE IN THE TABLE AND FIGURE NOTES The DCWS asked adults about their experience with their last apartment, whereas the Eviction Lab data referenced above summarizes court-reported filings by address. These rates are therefore not directly comparable, but are provided to supplement our understanding of formal and informal evictions in the region.

124 Ibid.


127 Because the HOLC maps use very small geographical units, 2010 data was used because it is available at correspondingly small geographies.

128 SEE NOTES FOR FIG 2.16 AND 2.17


131 SEE NOTES FOR FIG 2.20

132 Ibid.


135 SEE NOTES FOR FIG 2.20

136 SEE NOTES FOR TABLE 2J

137 Ibid.

138 Ibid.

139 SEE NOTES FOR TABLE 2K

140 SEE NOTES FOR FIG 2.19

141 SEE NOTES FOR TABLE 2L

142 Ibid.


144 SEE NOTES FOR TABLE 2L

145 Ibid.


147 SEE NOTES FOR FIG 1.1 AND 1.3

148 SEE NOTES FOR TABLE 2L

149 Ibid.

150 Ibid.


153 DataHaven analysis (2019) of data from the 2-1-1 Child Care Annual Capacity, Availability and Enrollment Survey. Available at https://www.211childcare.org/reports/annual-survey-2018


156 Ibid.

157 DataHaven. (2018). DataHaven Community Wellbeing Survey. SEE SURVEY NOTE IN TABLE AND FIGURE NOTES


159 SEE NOTES FOR FIG 2.21


161 Ibid.

162 Ibid.


164 Ibid.


168 SEE NOTES FOR FIG 2.24


171 Ibid.

172 Ibid.

173 Ibid.


175 SEE NOTES FOR FIG 2.23


177 SEE NOTES FOR FIG 2.23
Chapter 5  Conclusion and Endnotes


179 Steinberg, M. P., Allensworth, E., & Johnson, D. W. (2013). What conditions jeopardize and support safety in urban schools? The influence of community characteristics, school composition and school organizational practices on student and teacher reports of safety in Chicago. Retrieved from https://escholarship.org/uc/item/2m8x6c0x


185 SEE NOTES FOR FIG 2.25


188 SEE NOTES FOR FIG 2.26

189 DataHaven. (2018). DataHaven Community Wellbeing Survey. SEE SURVEY NOTE IN TABLE AND FIGURE NOTES


192 SEE NOTES FOR FIG 3.1


194 SEE NOTES FOR TABLE 3G

195 SEE NOTES FOR FIG 3.1 The tract with the lowest life expectancy (71.0 years) is 09009140200 in New Haven’s Hill neighborhood; the tract with the highest (85.8 years) is 09009157300.

196 ibid.

197 ibid.

198 SEE NOTES FOR FIG 3.2, 3.3, AND TABLE 3A


201 Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion. (2019). Division for Heart Disease and Stroke Prevention at a glance. Available at https://www.cdc.gov/chronicdisease/resources/publications/aag/heart-disease-stroke.htm


203 SEE NOTES FOR TABLES 3A AND 3B Local data on the overall impact of fetal and infant deaths are included above, in the section on premature mortality.

204 ibid.


207 ibid.


210 SEE NOTES FOR FIG 3.4

211 Prevalence estimate not available for Bethany.

212 SEE NOTES FOR TABLE 3G

213 ibid.

214 SEE NOTES FOR TABLE 3E

215 DataHaven. (2018). DataHaven Community Wellbeing Survey. SEE SURVEY NOTE IN TABLE AND FIGURE NOTES

216 SEE NOTES FOR TABLE 3E

217 SEE NOTES FOR TABLE 3D

218 ibid.

219 ibid.

220 DataHaven. (2018). DataHaven Community Wellbeing Survey. SEE SURVEY NOTE IN TABLE AND FIGURE NOTES

221 ibid.


224 DataHaven. (2018). DataHaven Community Wellbeing Survey. See survey note in Table and Figure Notes.


227 See survey note for Table 3F and Fig. 3.11


230 DataHaven. (2018). DataHaven Community Wellbeing Survey. See survey note in Table and Figure Notes.


233 See survey notes for Fig. 2.25


241 DataHaven. (2018). DataHaven Community Wellbeing Survey. See survey note in Table and Figure Notes.

242 Ibid.

243 Ibid.


247 See survey note for Fig. 3.9 and Table 3H

248 Ibid.

249 Ibid.

250 Ibid.

251 Ibid.


253 Ibid.

254 See survey notes for Fig. 3.10

255 See survey notes for Table 3I


257 See survey notes for Figs. 3.3, 3.4, 3.5, 3.6, and 3.7

258 DataHaven. (2018). DataHaven Community Wellbeing Survey. See survey note in Table and Figure Notes.

259 Ibid.


269 SEE NOTES FOR FIGS 3.4, 3.5, 3.6, AND 3.7


271 SEE NOTES FOR FIGS 3.4 AND 3.5

272 SEE NOTES FOR FIGS 3.6. AND 3.7


275 DataHaven. (2018). DataHaven Community Wellbeing Survey. SEE SURVEY NOTE IN TABLE AND FIGURE NOTES


281 Ibid.

282 SEE NOTES FOR FIGS 3.4 AND 3.5


284 DataHaven analysis (2019) of data from the Connecticut Department of Public Health, STD statistics in Connecticut. Available at https://portal.ct.gov/DPH/Infectious-Diseases/STD/STD-Statistics-in-Connecticut. Rates were not calculated if fewer than 20 cases were reported.


292 Adapted from the Center for Active Design’s Four Key Civic Life Outcomes framework. Retrieved from https://centerforactiveciviclife.org/assembly


295 SEE NOTES FOR FIG 4.1 AND TABLE 4A


297 SEE NOTES FOR FIG 4.1


300 SEE NOTES FOR FIG 4.1

301 Ibid.


303 Ibid. SEE ALSO NOTES FOR FIG 4.1


310 SEE NOTES FOR FIG 4.1


313 SEE NOTES FOR TABLE 4B

314 Ibid.

315 Ibid.

316 Ibid.


318 DataHaven. (2018). DataHaven Community Wellbeing Survey. SEE SURVEY NOTE IN TABLE AND FIGURE NOTES

319 Ibid.

320 SEE NOTES FOR FIG 4.3

321 Ibid.

322 Ibid.

323 Ibid.

324 Ibid.

325 Ibid.


331 Ibid.

332 Ibid.


336 SEE NOTES FOR TABLE 4C

337 Ibid.

338 Ibid.

339 Ibid. SEE ALSO NOTES FOR FIG 3.12


348 Ibid.


353 SEE NOTES FOR TABLE 4D

354 Ibid.


Kayaking the region’s waterways. Photo Credit: Photo credit: Ian Christmann
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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.

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The Community Foundation for Greater New Haven was established in 1928 as the community’s permanent charitable endowment. For more than three generations, thousands of donors have built this endowment by establishing permanent funds or making gifts to existing funds that distribute grants to a broad variety of issues and organizations. In addition to its grantmaking, The Community Foundation helps build a stronger community by leading on issues and supporting donors and nonprofits in creating a community of opportunity for all.

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