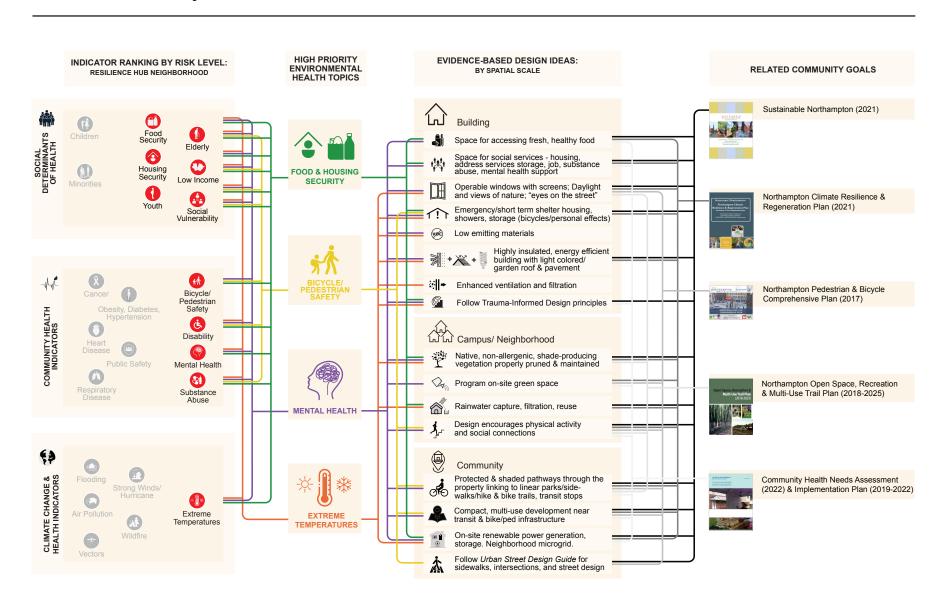
Northampton Resilience Hub

Health Situation Analysis



Introduction to Health Situation Analysis

Health Situation Analysis (HSA) is the "study of a situation that may require improvement. It begins with a **definition of the problem** and an assessment or measurement of its **extent**, **severity**, **causes**, **and impacts upon the community**; it is followed by appraisal of **interactions between the system and its environment** and **evaluations of performance**." (*A Dictionary of Epidemiology*, Miquel Porta, 2014).

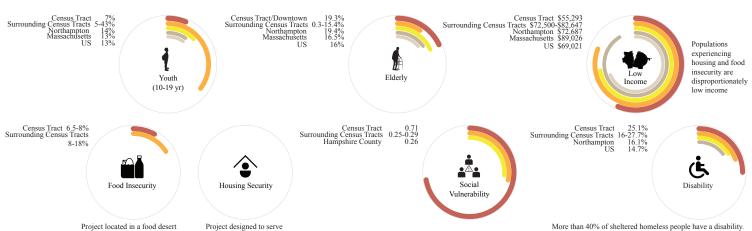
- HSA helps us see the ways that climate change, community health, and social equity interact with each other in the neighborhood.
- We can use that knowledge to write a short list of priority environmental health topics for the project that will guide our
 conversation about which building design ideas are most likely to bring the most benefit to the neighborhood.
- When we use evidence-based design ideas, we can also measure the final design's contribution to community goals, like the
 local climate action plan, sustainability plan, and community health needs assessment/implementation plan.

Environmental Health Risk Factors: Summary by Topic

Note: See the Appendix for details and links to data sources.



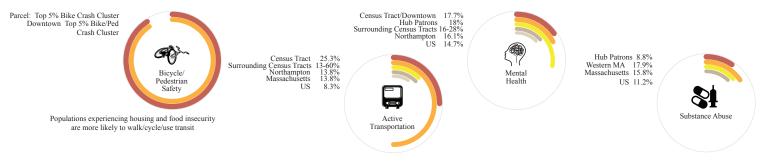
Social Determinants of Health



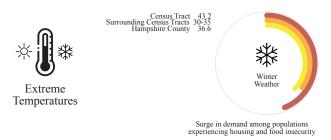


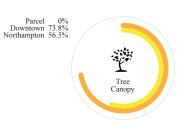
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Current Community Health Indicators



Climate Change and Health Indicators

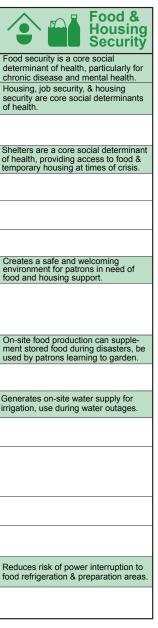






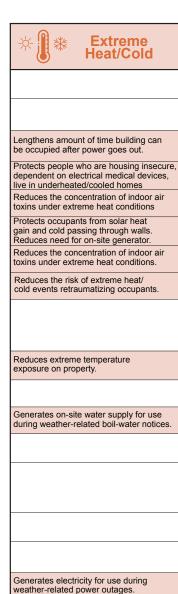


intersections, and street design



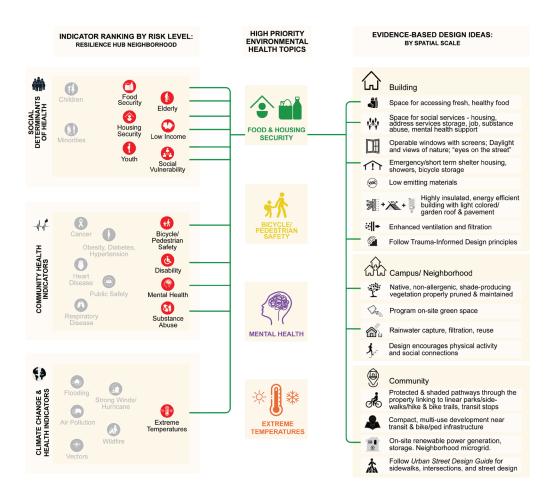
Bicycle/ Pedestrian Safety
Access to public storage lockers lowers barriers to active transportation.
Activating the property with other pedestrians & cyclists increases safety of all forms of active transportation.
Physcially removing nonvehicular
traffic from streets eliminates the risk of traffic-related injury.
Clustering services in a cycling & pedestrian-friendly place encourages active transportation, reduces injury risk.
Many traffic-related cycling & pedestrian injuries can be prevented through design.







FOOD & HOUSING SECURITY









ON-SITE GROCERY/FOOD PRODUCTION: Urban farm, community garden, farmer's market, green grocery run by and/or tailored to the needs of the surrounding community.







SOCIAL SERVICES:

Provide spaces that could be used to support social services, such as housing, address services, storage, job search, substance abuse, and mental health support. Include flexibility in space size and visual and acoustic privacy where possible to maximize the range of services.







TRAUMA-INFORMED DESIGN:

An approach to design that avoids triggering negative memories and promotes a sense of safety, comfort, and community-building.



RESILIENCE HUB:

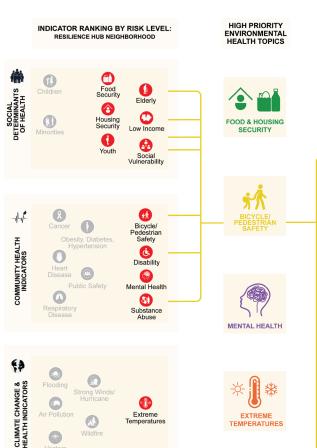
A safe place to gather, charge electric devices, and stay out of the elements during disasters. Image Credit: Urban Sustainability Directors Network, Guide to Developing Resilience Hubs

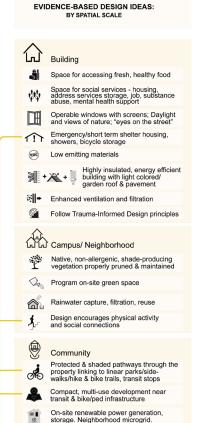


RAINWATER CAPTURE, STORAGE, FILTRATION: Cistern, pond, or underground tank designed to collect rainwater. Filtration system to remove contaminants, so the water can be reused on-site during boil water notices.



BICYCLE & PEDESTRIAN SAFETY









PUBLIC STORAGE FACILITIES: Provide secure storage protected from the elements for bicycles and

SHELTER WITH

other personal effects to lower barriers to active transportation.

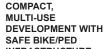


DESIGN TO ENCOURAGE PHYSICAL ACTIVITY & SOCIAL CONNECTIONS:

Provide indoor/ outdoor spaces and landscape design that supports community and draws pedestrians/cyclists through the property.



Image Credit: Architectsea



INFRASTRUCTURE: Locate the project within or near an area with more than one building type (i.e., office, retail, housing, civic, institutional). Contribute to the mix of services in the neighborhood and design the site and links to local transportation networks to maximize safety of pedestrians, cyclists, and transit users.











Follow Urban Street Design Guide for sidewalks, intersections, and street design



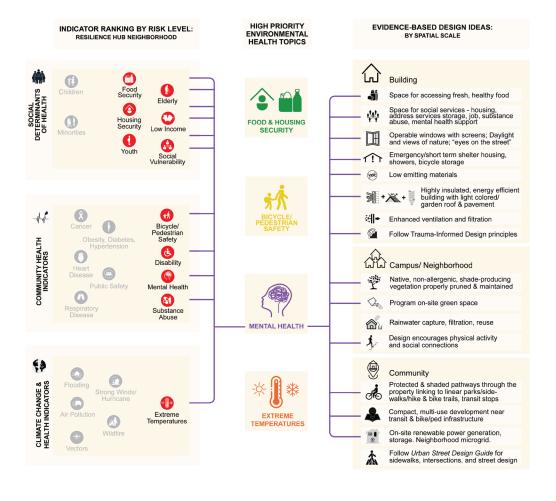


PROTECTED AND SHADED PATHWAYS THROUGH THE PROPERTY:

Mark protected pathways for pedestrians and cyclists to pass through the property in order to access linear parks, sidewalks, hike and bike trails, and transit stops.



MENTAL HEALTH





WALL/ROOF INSULATION: Insulation slows heat transfer during the summer, cold during the winter. Image Credit: Jason Dale



LIGHT COLORED/GAR-**DEN ROOF:** These roofs reflect solar heat rather than absorbing it and warming up the building interior. Garden roofs also increase roof insulation and cool the surrounding air. Image Credit: Lamiot

ENERGY

EFFICIENCY: Design the building

to use the smallest

amount of energy

possible, so the

using renewable

power produced

efficient equipment

include: fluorescent

or LED lights), heat

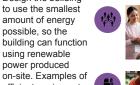
pumps for cooling

and heating.





OPERABLE WINDOWS: Windows that open, are installed with screens, and are located to increase daylighting inside and provide views of nature and neighborhood life outside can lengthen the amount of time the building can be used during a power outage. They also support mental health and enhance public safety.



SOCIAL SERVICES: Provide spaces that could be used to support social services. Include flexibility where possible to maximize the range of services.



ON-SITE GROCERY/FOOD PRODUCTION: Urban farm, community garden, farmer's market, green grocery run by and/or tailored to the needs of the surrounding community.







TRAUMA-INFORMED DESIGN:

An approach to design that avoids triggering negative memories and promotes a sense of safety, comfort, and community-building.

COMPACT,

MULTI-USÉ

DEVELOPMENT







NATIVE PLANTS: Use non-invasive plants to reduce temperature extremes on the property, reduce flood risk, enhance the sense of safety and community spirit in the neighborhood, encourage physical activity, and separate occupants from air pollution & risk of bike/ pedestrian injury caused by street traffic.



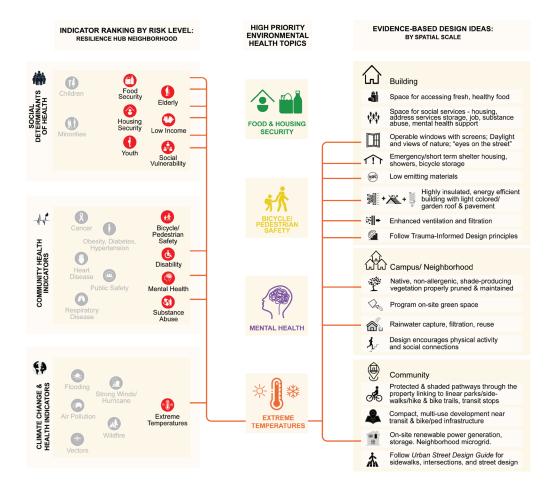
LOW EMITTING MATERIALS: Low VOC paint, sealants, carpet, composite wood (like plywood and MDF), and upholstery release lower concentrations of toxic chemicals into the air



NEAR TRANSIT, **BIKE PATHS,** SIDEWALKS: Extend and enhance nearby linear parks, bike infrastructure, walking paths, and access to transit.



EXTREME TEMPERATURES





WALL/ROOF INSULATION: Insulation slows heat transfer during the summer, cold during the winter. Image Credit: Jason Dale



LIGHT COLORED/GAR-DEN ROOF: These roofs reflect solar heat rather than absorbing it and warming up the building interior. Garden roofs also increase roof insulation and cool the surrounding air. Image Credit: Lamiot







OPERABLE WINDOWS: Windows that open, are installed with screens, and are located to increase daylighting inside and provide views of nature and neighborhood life outside can lengthen the amount of time the building can be used during a power outage. They also support mental health and enhance public safety.



ENERGY EFFICIENCY:

Design the building to use the smallest amount of energy possible, so the building can function using renewable power produced on-site. Examples of efficient equipment include: fluorescent or LED lights), heat pumps for cooling and heating.





FILTRATION: Air filters remove particles and harmful chemicals from the outdoor air entering a building and circulating indoor air. Image Credit: Bruce Blaus







TRAUMA-INFORMED DESIGN:

An approach to design that avoids triggering negative memories and promotes a sense of safety, comfort, and community-building.



RESILIENCE HUB: A safe place to gather, charge electric devices, and stay out of the elements during disasters. Image Credit: Urban Sustainability Directors Network, *Guide to Developing Resilience Hubs*







NATIVE PLANTS: Use non-invasive plants to reduce temperature extremes on the property, reduce flood risk, enhance the sense of safety and community spirit in the neighborhood, encourage physical activity, and separate occupants from air pollution & risk of bike/ pedestrian injury caused by street traffic.





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Low VOC paint, sealants, carpet, composite wood (like plywood and MDF), and upholstery release lower concentrations of toxic chemicals into the air.





RAINWATER CAPTURE, STORAGE,

FILTRATION: Cistern, pond, or underground tank designed to collect rainwater. Filtration system to remove contaminants, so the water can be reused on-site during boil water notices.

Health Situation Analysis - Data Description Northampton, MA: Resilience Hub

Census Tract: 25015821903 (dark blue in map) (Secondary Tracts (light blue in map): 25015821904, 25015822000)
Owner: City of Northampton, MA



		<u></u>		Hampshir				
Focus Area	Description	Neighborhood	Northampton	e County	MA	U.S.	Year	Data Source
Social Detern	ninants of Health							
Social	Overall SVI Score	x1903: 0.7084		0.2575			2020	U.S. CDC, 2020 Social Vulnerability
Vulnerability	(Medium to High)	x1904: 0.2497						Index, https://svi.cdc.gov/map.html
		x2000: 0.2900						
Environmental	Minority and Low Income	x1903: Minority, Low					2020	Massachusetts, 2020
Justice Zone		Income						Environmental Justice
		x1904: Minority						neighborhoods,
		x2000: Minority						https://www.mass.gov/info-
								details/environmental-justice-
Race/ethnicity	African American/Black	x1903: 4.4%	2.7%	2.5%	7.3%	12.6%		U.S. Census American Community
	(Very Low)	x1904: 1.7%					5-year	Survey, DP-05,
		x2000: 5.3%					estimate	https://data.census.gov/cedsci/
	Asian	x1903: 1.4%	3.5%	5.2%	6.9%	5.7%	2021	U.S. Census American Community
	(Very Low;	x1904: 1.7%					5-year	Survey, DP-05,
	adjacent to very high in x2000)	x2000: 15.9%					estimate	https://data.census.gov/cedsci/
	Other	x1903: 19.2%	7.8%	6.9%	11.3%	13.5%	-	U.S. Census American Community
	(High)	x1904: 6.7%					5-year	Survey, DP-05,
	100 %	x2000: 10%	00.00/	05.40/	74.50/	00.00/	estimate	https://data.census.gov/cedsci/
	White	x1903: 75%	86.0%	85.4%	74.5%	68.2%		U.S. Census American Community
	(Moderately High)	x1904: 89.9%					5-year	Survey, DP-05,
	11:	x2000: 68.8%	7 40/	0.40/	40.40/	40.40/	estimate	https://data.census.gov/cedsci/
	Hispanic/Latinx	x1903: 18.7%	7.4%	6.1%	12.4%	18.4%		U.S. Census American Community
	(Average; Low in Adjacent	x1904: 2.2% x2000: 8.3%					5-year estimate	Survey, DP-05, https://data.census.gov/cedsci/
	Tracts)		92.6%	93.9%	87.6%	81.6%		•
	Non-Hispanic/Latinx	x1903: 81.3% x1904: 97.8%	92.0%	93.9%	07.0%	01.0%		U.S. Census American Community
	(Average; High in Adjacent Tracts)	x1904: 97.8% x2000: 91.7%					5-year estimate	Survey, DP-05, https://data.census.gov/cedsci/
Median	Median household income in the	x1903: \$55,293	\$72,687	\$76,959	\$89,026	¢60.021	2021	U.S. Census American Community
household	past 12 months	x1903. \$33,293 x1904: \$82,647	\$12,001	\$70,939	\$69,020	φ09,02 i	5-year	Survey, S1901,
income	(Moderately Low;	x2000: \$72,500					estimate	https://data.census.gov/cedsci/
IIICOIIIE	High in Adjacent Tracts)	X2000. \$12,300					estimate	Tittps://data.cerisus.gov/cedsci/
Poverty status	Percent individuals below	x1903: 10.4%	11.4%	10.5%	9.9%	12.6%	2021	U.S. Census American Community
. Overty ctatae	poverty level over the past 12	x1904: 9.2%	11.170	10.070	0.070	12.070	5-year	Survey, S1701,
	months (Moderately Low;	x2000: 4.3%					estimate	https://data.census.gov/cedsci/
	Adjacent to Very Low in x2000)	X2000. 1.070					ootimato	mapo.//data.somodo.gov/oodos//
Chidren	Percent children <5 years old	x1903: 3.4%	2.5%	3.3%	5.1%	5.9%	2021	U.S. Census American Community
	(Very Low; Adjacent to	x1904: 2.7%	,				5-year	Survey, DP05,
	Extremely Low in x2000)	x2000: 0.2%					estimate	https://data.census.gov/cedsci/
Youth	Percent individuals 10-19 years	x1903: 7%	14%	17%	13%	13%	2021	U.S. Census American Community
. Juli	old (Very Low;	x1904: 5%	14 /0	11/0	10/0	13 /0	5-year	Survey, DP05,
	Adjacent to Very High in x2000)	x2000: 43%					estimate	https://data.census.gov/cedsci/
Elderly	Adults >65 years	x1903: 19.3%	19.4%	17.4%	16.5%	16.0%		U.S. Census American Community
Liucity	(Moderately High;	x1903. 19.3% x1904: 15.4%	13.4%	17.470	10.5%	10.0%	5-year	Survey, DP05,
	Adjacent to Very Low in x2000)	x2000: 0.3%					estimate	https://data.census.gov/cedsci/
	Aujaceiii io very Low iii X2000)	X2000. U.3%					commare	mups.//data.census.gov/cedscl/

Focus Area Community H	<u>Description</u>	Neighborhood	Northampton	Hampshir e County	MA U.S.	Year	Data Source
General health	Adult prevalence fair/poor health (Very Low)	x1903: 13% x1904: 9.7% x2000: 6.5%		11.6%	16.19	2021 version	CDC PLACES*, https://www.cdc.gov/places
General physical health	Adult poor physical health over past 14 days (Moderate)	x1903: 9.6% x1904: 7.9% x2000: 5.2%		9.2%	10.9%	2021 version	CDC PLACES*, https://www.cdc.gov/places

				Hampshir				
Focus Area	Description	Neighborhood	Northampton		MA	U.S.	Year	Data Source
Cancer	Adult cancer prevalence	x1903: 5.4%	6.8%	7.1%		7.0%	2021	CDC PLACES*,
	(Excluding Skin Cancer)	x1904: 5.6%					version	https://www.cdc.gov/places
	(Moderately Low)	x2000: 1.2%						
Heart Disease	Adult coronary heart disease	x1903: 4.4%	4.8%	5.2%		6.1%	2021	CDC PLACES*,
	(Moderately Low)	x1904: 3.7%					version	https://www.cdc.gov/places
		x2000: 0.7%						
Mental Health	Adult depression prevalence	x1903: 25.0%	24.1%	23.9%		19.5%	2021	CDC PLACES*,
	(Relatively High)	x1904: 24.4%					version	https://www.cdc.gov/places
	, , ,	x2000: 33.8%						
	Adult near mental bealth aver	x1903: 17.7%	16.1%	16.6%		14.7%	2024	CDC PLACES*,
	Adult poor mental health over past 14 days	x1903: 17.7% x1904: 16.2%	10.1%	10.0%		14.7%	version	https://www.cdc.gov/places
	(Moderately High; Next to Very	x2000: 27.7%					VEISIOII	Tittps://www.cuc.gov/piaces
	High in x2000)	X2000. 21.1 /6						
Obesity,	Located in a food desert	x1903: food desert					2019	USDA Food Access Research
Diabetes,		x1904: not in food desert						Atlas,
Hypertension		x2000: not in food desert						https://www.ers.usda.gov/data-
,,								products/food-access-research-
								atlas/go-to-the-atlas/
	Food Insecurity	x1903: 6.5-7.9%					2021	Gundersen C, Strayer M, Dewey A,
	(Moderate)	x1904: 11.6-18.4%						Hake M, Engelhard E. Map the
		x2000: 7.9-11.6%						meal gap 2021: An analysis of
								county and congressional district
								food
								insecurity and county food cost in
								the United States in 2019. Feeding
	Commute using public transit,	x1903: 25.3%	13.8%	12.4%	13.8%	8.3%	2021	U.S. Census American Community
	walking, or cycling	x1904: 13.6%					5-year	Survey, S0801,
	(Very High; Next to Extremely	x2000: 60.6%					estimate	https://data.census.gov/cedsci
	High in x2000)							
	Adult high blood pressure	x1903: 22.9%	24.4%	25.1%		32.7%	2021	CDC PLACES*,
	(Moderate; Next to Very Low in	x1904: 20.7%					version	https://www.cdc.gov/places
	x2000)	x2000: 6.5%						
	Adult diabetes	x1903: 7.4%	7.4%	7.9%		11.3%	_	CDC PLACES*,
	(Moderately Low; Next to	x1904: 5.9%					version	https://www.cdc.gov/places
	Extremely Low in x2000)	x2000: 1.4%		0		00:	0007	000 DI 4 050±
	Adult obesity	x1903: 26.8%	24.8%	24.2%		33.0%		CDC PLACES*,
	(Moderate; Next to Moderately	x1904: 24.4%					version	https://www.cdc.gov/places
	Low in x2000)	x2000: 16.6%						
	Adult physical inactivity	x1903: 20.2%	18.4%	18.9%		23.7%	_	CDC PLACES*,
	(Moderate)	x1904: 16.1%					version	https://www.cdc.gov/places
		x2000: 14.2%						
Respiratory	Adult Asthma	x1903: 11.6%	11.4%	11.3%		9.7%		CDC PLACES*,
Disease	(Moderately High)	x1904: 11.1%					version	https://www.cdc.gov/places
		x2000: 15.4%						

^{*} Crude rate, because available at census tract level

Focus Area	Description	Neighborhood	Northampton	Hampshir e County	MA U.S.	Year	Data Source
Climate Chan	ge	· •	<u> </u>				
Overall Climate Risk	Very Low; next to extremely low in x2000	x1903: 22.06 x1904: 9.88 x2000: 2.29			16.9	2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/
Expected Annual Loss	Very Low	x1903: very low x1904: very low x2000: very low		relatively low		2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/
Social Vulnerability	Very Low	x1903: relatively high x1904: relatively low x2000: very low		relatively low		2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/
Community Resilience	Relatively Moderate	x1903: very high x1904: very high x2000: very high		very high		2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/
Air Quality	Population near major roadway with little to no tree buffer (Moderate)	HUC 12 ID: 010802010606: 81.34 Adjacent: HUC 12 ID: 010802010610: 468.79				various, accessed 2022	EPA EnviroAtlas, https://enviroatlas.epa.gov/enviroatl as/interactivemap/
	Respiratory risk (hazard index) due to cumulative air toxics	x1903: 0.32 x1904: 0.32 x2000: 0.31	Page 2 of 4			various, accessed 2022	EPA EnviroAtlas, https://enviroatlas.epa.gov/enviroatl as/interactivemap/

Focus Area	Description	Neighborhood		Hampshir e County	MA U	S. Year	Data Source
Bike/	High Risk	Located in Top 5%		e County	IVIA U	2011-	MassDOT Top Crash Locations,
Pedestrian Safety	riigii rusk	Bicycle Crash Cluster in Northampton	of overlapping top 5% pedestrian and bicycle			2022	https://gis.massdot.state.ma.us/top
Earthquake	Very Low	x1903: 39.3 x1904: 36.6 x2000: 17.5		62.8		2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/
Flooding	Not Located in Flood Plain (low risk)					2018 version	FEMA Flood Map Service Center, https://msc.fema.gov/portal/
	Riverine Flooding (Relatively Low)	x1903: 45.1 x1904: NR x2000: 32.3		59			
	Impervious Surface (Moderately High)	50-86%				2021 version	USGS Multi-Resolution Land Characteristics Consortium, NLCD Impervious Surface 2021 CONUS, https://www.mrlc.gov/viewer/
Heat	Overall Vulnerability (Relatively Low Risk)	x1903: 19.2 x1904: 17.4 x2000: 16.9		29.5		2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/
	Extreme Heat Vulnerability (Moderate Risk)	x1903: 0.63 x1904: 0.16 x2000: 0.28		0.23		2022	Extreme Heat Vulnerability Mapping Tool, https://geoxc-apps2.bd.esri.com/Climate/HeatVulnerability/index.html (From NIHHS Heat.gov; https://www.heat.gov/pages/tools-information)
	Tree Canopy Average (Moderately High; next to Moderately Low)	HUC 12 ID: 010802010606: Percent tree canopy : 73.818 Adjacent: HUC 12 ID: 010802010610: Percent tree canopy : 38.790				various, accessed 2022	EPA EnviroAtlas, https://enviroatlas.epa.gov/enviroatlas/interactivemap/
	Street Tree Inventory	Large site with no street trees				2021	Northampton TreeKeeper, https://northamptonma.treekeepers oftware.com/index.cfm?deviceWidth =1728
	Access to parks and green space (Moderate)	Across New South Street from Pulaski Park 1/4 mile from Veterans Field and Manhan Rail Trail				2018	Northampton Open Space, Recreation & Multi-Use Trail Plan (2018-2025) https://www.northamptonma.gov/DocumentCenter/View/1812/Open-Space-Recreation-Plan-2018-2025 approved-EOEEA-05-7-
Vector-borne Disease	Tickbome Disease (Relatively High Risk)			4.3-16.29 per 10,000 population		2019- 2022	Massachusetts Department of Public Health, Tick-borne Disease Syndromic Surveillance, https://www.mass.gov/lists/monthly- tick-borne-disease-reports
Hurricane							FEMA National Risk Index, https://hazards.fema.gov/nri/
Strong Wind	Relatively Moderate	x1903: 50.4 x1904: 39.5 x2000: 32.1	x1904: 39.5 version https://ha				
Tornado	Relatively Low	x1903: 42.9 x1904: 34.8 x2000: 24.3		51.9		2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/
Wildfire	High Wildfire Likelihood		Greater risk than 32% of communities in Hampshire County		Greater risk than 29% of states in U.S.	various, accessed 2022	USGDA Forest Service, Wildfire Risk to Communities data portal, https://wildfirerisk.org/explore

				Hampshir				
Focus Area	Description	Neighborhood	Northampton	e County	MA	U.S.	Year	Data Source
	High Wildfire Risk to Homes		Greater risk		Greater		various,	USGDA Forest Service, Wildfire Risk
			than 34% of		risk than		accessed	to Communities data portal,
			communities		29% of		2022	https://wildfirerisk.org/explore
			in Hampshire		states in			
			County		U.S.			
Winter Weather	Moderate	x1903: 43.2		36.6			2021	FEMA National Risk Index,
		x1904: 34.8					version	https://hazards.fema.gov/nri/
		x2000: 30.4						

Health Situation Analysis - Data Description
Northampton, MA: Resilience Hub
Census Tract: 25015821903 (dark blue in map) (Secondary Tracts (light blue in map): 25015821904, 25015822000)
Owner: City of Northampton, MA



Design files Search Part Service Servi				al Health	Focus Area	s	
Description (See Section 2014) Seption (Companies of the Companies of the		Food/ Housing	Bicycle/ Pedestrian	Mental	Extreme		
Society Part Control of Part C	Design Ideas			Health	Temperatures	Metric	Relevant Community Metric
Sustainable Normangen, Coal 143-1006, to and homelessomes. Dijector 4. Actuables rovines cumminty available for food and shaller, stranty service gas, Park 125-1006, program and stilling price of present and straining of present and for pre	Building						
Space for social services X	Space for accessing fresh, healthy food	x		x			Sustainable Northampton, Goal H-3: Work to end homelessness. Objective 4. Articulate services currently available for food and shelter, identify service gaps, fill those gaps. Goal IC-2: Program and utilize public buildings for maximum efficiency and availability. Objective 1. Establish a collaborative administration of city buildings and facilities to maximize utilization of space, improve operational efficiencies, and ensure a transparent process for public use of public facilities. Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Resilience and Regeneration Plan. - Resilience Pathway 4: Healthy and Equitable Communities - Action Plan Waste 1B: Establish comprehensive food waste prevention, donations, and composing programs in schools and large institutions - Action Plan Waste 1B: Establish comprehensive food waste prevention, donations, and composing programs in schools and large institutions - Action Plan Health and Safety 1D: Assess tree, forest ecosystem, agriculture, and food systems for resilience Mass General Brigham Cooley Dickinson Hospital Community Health Needs Assessment (2022). https://www.cooleydickinson.org/wp-content/uploads/2022/10/Cooley-Dickinson-2022-Community-Health-Needs-Assessment-v2.pdf - Access to healthy food is a prioritized health need. 14,000 residents in Pioneer Valley receive SNAP benefits. More are eligible but do not receive them. 7% residents in Hampshire County receive SNAP benefits, compared with 11% in MA. USDA: 69% limited income people in CHNA service area have low access to healthy food. Feeding America: 8% Hamshire County are food insecure, 36% of whom have incomes >200% of federal poverty line so ineligible for SNAP. 3,000 children in the service area who are food insecure. "Mass General Brigham provided a fouryear grant to the Food Bank to increase access to food for patients who qualify based on social determinant of health screening and a secondary clinic screen." Healthy Incentives Program: "replaces money on EBT
- Action Plan Energy 2E: Encourage resilience and regeneration building and site improvements Daylight and	services	x			х	services, including multi-purpose rooms, offices, kiosks, treatment rooms, etc.	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton, Goal H-3: Work to end homelessness. Objective 4. Articulate services currently available for food and shelter, identify service gaps, fill those gaps. Goal IC-2: Program and utilize public buildings for maximum efficiency and availability. Objective 1. Establish a collaborative administration of city buildings and facilities to maximize utilization of space, improve operational efficiencies, and ensure a transparent process for public use of public facilities. Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Resilience and Regeneration Plan. - Resilience Pathway 4: Healthy and Equitable Community Health Implementation Plan (2019-2022) https://www.cooleydickinson.org/wp-content/uploads/2019/10/2019-2022-implementation-plan.pdf Social Environment. Need for Increased Culturally Sensitive Care. Focus: Information and Referral. Goal: Ensure access to services through collaboration with a community-based organization to provide health and social service information and referral that is bilingual Spanish Health Conditions and Behaviors. Focus: Prevention of substance use. Population: youth. Goal: Support prevention coalitions through the provision of funding to collect data on behavior and risk and protective factors Health Conditions and Behaviors. Focus: Opioid use disorder. Goal: Support community initiatives aimed at reducing use and impact of opioids while also continuing to implement programs, change practices, and educate patients, families, and providers in our health care system. Chronic Health Conditions. Focus: Provide housing and social supports for people living with HIV/AIDS Population: People living with HIV/AIDS. Goal: Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Resilience and Regeneration Plan.
	D 11 14					1550 13	
	Daylight and views of nature			x		LEED credit	

			al Health	Focus Area	ns	
	Food/ Housing	Bicycle/ Pedestrian	Mental	Extreme		
Design Ideas	Security	Safety	Health	Temperatures	Metric	Relevant Community Metric
Design increases "eyes on the street"			x		the site perimeter. Design features include: main entrance, windows, and porches facing public thoroughfares Metric: Percent of 1st floor windows, porches, and entrances facing a public thoroughfare Landscaping that invites community members onto	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton, Goal LU-2: Create and preserve high quality, built environments in the downtown and village centers. Objective 1. Parks, green space, agriculiture. 6. Mix of commercial, civic, and cultural uses. Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Resilience and Regeneration Plan. - Resilience Pathway 4: Healthy and Equitable Communities - Action Plan Equity 1A: Support Climate Champions and Strong and Healthy Neighborhoods Programs Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Open Space, Recreation & Multi-Use Trail Plan, Seven Year Action Plan. 10. Convert Unloved Pavement to Beloved Parks. Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Pedestrian and Bicycle Plan. Goal T-1: Ensure the safe and efficient transportation of goods and people by motor vehicles, bicycle, foot, and any other means Goal T-2: Improve circulation system to accommodate development and encourage bicycle and pedestrian transit Goal T-3: Improve and expand public transit Goal T-5: Provide appropriate bicycle and vehicle parking to support local businesses
Emergency/short	x	×	×	×	the site (such as designating an area as a public parklet) and provides clear lines of sight both from the street and within the property Metric: Percent of site open to the public and vegetated to provide clear lines of sight Design for a mix of activities on the site that take place at different times of day and days of the week, preferably including outdoor activities and indooroutdoor activities Metric: Number of activities planned for different times of day/days of the week Designated an emergency shelter and/or short-term	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
term shelter housing, showers, bicycle storage	X	X	X	×		Sustainable Northampton, Goal EEC 4: Develop strategies to protect the City from the impacts of natural hazards. Objective 4. Encourage passive survivability standards of new structures to increase survival of natural disasters for all public and private buildings. Goal H-3: Work to end homelessness. Objective 4. Articulate services currently available for food and shelter, identify service gaps, fill those gaps." Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Resilience and Regeneration Plan. - Resilience Pathway 4: Healthy and Equitable Communities - Resilience Pathway 6: Hazard Mitigation and Emergency Preparedness - Action Plan, Energy 10: Continue building out distinbuted energy resources for critical services
					Number of beds Number of showers Number of restrooms (toilets, urinals, lavatories) Number of all purpose lockers Number of secured bicycle storage areas	The state of the s
Low emitting materials			x	x	LEED credit	
Net zero upgrades to insulation			x	x	% reduction greenhouse gas emissions compared with code minimum. Equation: estimated annual greenhouse gas emissions / code threshold for annual greenhouse gas emissions. Metric: tons carbon equivalent	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton, Goal EEC 4: Develop strategies to protect the City from the impacts of natural hazards. Objective 4. Encourage passive survivability standards of new structures to increase survival of natural disasters for all public and private buildings. Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Resilience and Regeneration Plan. - City committed to becoming net carbon neutral by 2050. - City govenment buildings committed to becoming net carbon neutral by 2030. - Regeneration Pathway 1: Reduce Energy Demand - Efficiency and Conservation - Regeneration Pathway 4: Net Zero Energy Buildings - Resilience Pathway 2: Resilient Building and Energy Systems - Action Plan, Energy 2A: Encourage the real estate market to place greater value on building energy features, inlouding deep energy retrofits and zero energy new buildings

			al Health	Focus Area	s	
	Food/ Housing	Bicycle/ Pedestrian	Mental	Extreme		
Design Ideas	Security	Safety	Health	Temperatures	Metric	Relevant Community Metric
Net zero upgrades to mechanical systems			x	x	% reduction greenhouse gas emissions compared with code minimum. Equation: estimated annual greenhouse gas emissions / code threshold for annual greenhouse gas emissions. Metric: tons carbon equivalent	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton, Goal EEC 4: Develop strategies to protect the City from the impacts of natural hazards. Objective 4. Encourage passive survivability standards of new structures to increase survival of natural disasters for all public and private buildings. Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Resilience and Regeneration Plan. - City committed to becoming net carbon neutral by 2050. - City govenment buildings committed to becoming net carbon neutral by 2030. - Regeneration Pathway 1: Reduce Energy Demand - Efficiency and Conservation - Regeneration Pathway 4: Net Zero Energy Buildings - Regeneration Pathway 5: Electrification of Thermal Loads - Resilience Pathway 2: Resilient Building and Energy Systems - Action Plan, Energy 2A: Encourage the real estate market to place greater value on building energy features, inlcuding deep energy retrofits and zero energy new buildings - Action Plan, Energy 2B: Expand program for building electrification to convert from oil and natural gas heat to heat pumps or other electric sources
Net zero upgrades to lighting			х	x	% reduction greenhouse gas emissions compared with code minimum. Equation: estimated annual greenhouse gas emissions / code threshold for annual greenhouse gas emissions. Metric: tons carbon equivalent	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton, Goal EEC 4: Develop strategies to protect the City from the impacts of natural hazards. Objective 4. Encourage passive survivability standards of new structures to increase survival of natural disasters for all public and private buildings. Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Resilience and Regeneration Plan. - City committed to becoming net carbon neutral by 2050. - City govenment buildings committed to becoming net carbon neutral by 2030. - Regeneration Pathway 1: Reduce Energy Demand - Efficiency and Conservation - Regeneration Pathway 4: Net Zero Energy Buildings - Resilience Pathway 2: Resilient Building and Energy Systems - Action Plan, Energy 2A: Encourage the real estate market to place greater value on building energy features, inlcuding deep energy retrofits and zero energy new buildings - Action Plan, Energy 2D: Require that all new buildings are built to Net Zero Energy standards and advocate for higher Building Code standards
High albedo and			х	x	LEED credit	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
planted roof/pavement						Resilience and Regeneration Plan. - Action Plan Energy 2E: Encourage resilience and regeneration building and site improvements - Action Plan Health and Safety 1A: Mitigate heat by expanding cooling opportunities at open space and streetscapes
Enhanced Ventilation				x	LEED credit	
Enhanced Filtration				х	LEED credit	
Follow Trauma- Informed Design Principles	х		х	x	Design follows the organizing principles in Architectural Principles in the Service of Trauma Informed Design and the stakeholder engagement process outlined in Trauma Informed Design Manual. http://shopworksarc.com/tid/	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton, Goal SE-1: Invest in all segments of the community to retain a population with a diverse demographic and income levels. Objective 1. Ensure a safe and secure environment for all. 3. Reach out to marginalized populations to ensure all feel welcome in the City. 4. Ensure civic and physical accessibility for all. Mass General Brigham Cooley Dickinson Hospital Community Health Implementation Plan (2019-2022) https://www.cooleydickinson.org/wp-content/uploads/2019/10/2019-2022-implementation-plan.pdf Health Conditions and Behaviors. Mental Health and Substance Use. Focus: Trauma Informed Care. Goal: Increase awareness of impact of trauma and ways
Campus/Neighborl					LEED credit	
Native, non- allergenic, shade- producing, well- drained vegetation properly pruned and maintained	x		x	x	LEED MEUR	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton, Goal EEC-1: Protect valuable and sensitive ecological resources (land, air, water habitat, plants, and animals. Objective 9. Minimize the loss of tree canopy throughout the City and increase tree canopy in urbanized areas to maintain a higher quality environment in all areas. Resilience and Regeneration Plan. - Regeneration Pathway 9: Carbon Sequestration and Offsets - Resilience Pathway 3: Healthy and Resilient Natural Ecosystems - Resilience Pathway 4: Resilient and Connected Landscapes - Action Plan Energy 2E: Encourage resilience and regeneration building and site improvements - Action Plan Energy 3A: Adopt city open space management practices for soil carbon storage - Action Plan Energy 3B: Protect, grow, and enhance the city's forestland and public lands and their capacity to store carbon - Action Plan Health and Safety 1A: Mitigate heat by expanding cooling opportunities at open space and streetscapes - Action Plan Health and Safety 1D: Assess tree, forest ecosystem, agriculture, and food systems for resilience Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning

	Fnv	vironmenta	al Health	Focus Area	9	
	Food/	Bicycle/				
	Housing	Pedestrian	Mental	Extreme		
Design Ideas	Security	Safety	Health	Temperatures	Metric	Relevant Community Metric
Partner to			x		Number of partnering organizations	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
program on-site					Number of programs	Resilience and Regeneration Plan.
green space					\$/hour x expected hours in operation x number of	- Resilience Pathway 4: Healthy and Equitable Communities
					staff	- Action Plan Energy 3C: Support education and training in regenerative agriculture, agroforestry, silvopasture, and urban forestry
						- Action Plan Equity 1A: Support Climate Champions and Strong and Healthy Neighborhoods Programs
						Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
						Pedestrian and Bicycle Plan.
						Goal T-6: Increase walking and bicycling trips through education, encouragement, enforcement and evaluation programs
						Mass General Brigham Cooley Dickinson Hospital Community Health Needs Assessment (2022). https://www.cooleydickinson.org/wp-
						content/uploads/2022/10/Cooley-Dickinson-2022-Community-Health-Needs-Assessment-v2.pdf
						- Access to physical activity is a prioritized health need.
						Mass General Brigham Cooley Dickinson Hospital Community Health Implementation Plan (2019-2022) https://www.cooleydickinson.org/wp-content/uploads/2019/10/2019-2022-implementation-plan.pdf
						Contentuppioads/2019/10/2019-2022-implementation-plan.pdr Social Environment, Azheimer's disease and dementia. Goal: Increase opportunities for social connections through collaboration with community-based
Rainwater	х			x	Gallons of rainwater captured, filtered, and stored for	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
storage and					reuse.	Sustainable Northampton, Goal EEC-2: Minimize the impacts of infrastructure systems on environmental resources. Objective 7. Conserving the supply of
filtration for						potable water for actual or anticipated shortages and when deemed necessary for health, welfare or safety.
potable use						
						Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
						Resilience and Regeneration Plan.
- ·					LEEDONELL III	- Resilience Pathway 6: Hazard Mitigation and Emergency Preparedness
Design encourages		x	x		LEED/WELL credit	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton, Goal LU-3: Maintain a distinction between rural areas, residential neighborhoods, and urban areas. Objective 6. Create Northampton
physical activity						Sustainable wormanipion, Goal EU-S. Maintain a utilitieum between rural areas, residential reignborhoods, that provide pedestrian scales, connections to goods and services, and connections to multiple modes of travel.
and social						ineignbothoods, that provide pedestian scales, connections to goods and services, and connections to multiple modes of daver.
connections						Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning. Resilience and Regeneration Plan.
						- Resilience Pathway 4: Healthy and Equitable Communities
						- Action Plan Energy 2E: Encourage resilience and regeneration building and site improvements
						- Action Plan Energy 3A: Adopt city open space management practices for soil carbon storage
						- Action Plan Energy 3B: Protect, grow, and enhance the city's forestland and public lands and their capacity to store carbon
						- Action Plan Transportation/Land Use 1A: Advance equitable transportation access
						- Action Plan Transportation/Land Use 1B: Expand bicycling options
						- Action Plan Health and Safety 1A: Mitigate heat by expanding cooling opportunities at open space and streetscapes
						Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
						Open Space, Recreation & Multi-Use Trail Plan, Seven Year Action Plan. 3. Open Space to Serve People. 9. Develop Multi-Use Trails for Easy Public Access. 10.
						Convert Unloved Pavement to Beloved Parks.
						Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning. Pedestrian and Bicycle Plan.
						Goal T-1: Ensure the safe and efficient transportation of goods and people by motor vehicles, bicycle, foot, and any other means
						L
						Mass General Brigham Cooley Dickinson Hospital Community Health Implementation Plan (2019-2022) https://www.cooleydickinson.org/wp-
						content/uploads/2019/10/2019-2022-implementation-plan.pdf Social Environment. Access to Healthy Food. Transportation, and Places to be Active. Goal: Increase opportunities to access affordable, fresh, healthy food
Community						SOCIAL ENVIRONMENT, ACCESS TO REALTHY FOOD, TRANSPORTATION, and Places to be ACTIVE, GOAL: Increase opportunities to access affordable, fresh, nealthy food

	En	vironment	al Health	Focus Area	IS .	
	Food/ Housing	Bicycle/ Pedestrian	Mental	Extreme		
Design Ideas	Security	Safety	Health	Temperatures	Metric	Relevant Community Metric
Protected and shaded pathways through the site linking to linear parks/sidewalks/ hike and bike trails, transit stops		x	x x	Temperatures	Number of protected bike/ped infrastructure with direct connection through the site Number of transit stops within 1/4 mile of main entrances and protected path into the property	Relevant Community Metric Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton, Goal LU-3: Maintain a distinction between rural areas, residential neighborhoods, and urban areas. Objective 6. Create Northampton neighborhoods, that provide pedestrian scales, connections to goods and services, and connections to multiple modes of travel. Goal T-1: Ensure the safe and efficient transportation of goods and people by motor vehicles, bicycle, goot, and any other means. Objective 5. Ensure that safety is a primary goal in transportation improvements, systems, and operations, both to reduce crashes and to ensure that both vehicular and non-vehicular modes of traffic are safe and attractive to all users on all roads. Goal T-2: Improve circulation system to accommodate development and encourage bicycle and pedestrian transit. Objective 6. Ensure pedestrian, bicycle, non-motorized travel, and transit are addressed in every development project. Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning. Resilience and Regeneration Plan. - Resilience Pathway 4: Healthy and Equitable Communities - Action Plan Energy 38: Encourage resilience and regeneration building and site improvements - Action Plan Energy 39: Fortect, grow, and enhance the city's forestaind and public lands and their capacity to store carbon - Action Plan Transportation/Land Use 18: Expand bicycling options - Action Plan Transportation/Land Use 18: Expand bicycling options - Action Plan Health and Safety 11A: Mitigate heat by expanding cooling opportunities at open space and streetscapes Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Open Space, Recreation & Multi-Use Trail Plan, Seven Year Action Plan. 3. Open Space to Serve People. 9. Develop Multi-Use Trails for Easy Public Access. 10. Convert Unloved Pavement to Beloved Parks. Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/
Compact, multi- use development near transit and bike/ped infrastructure		x	x		Linear feet of sidewalks and protected bike lanes Number of transit stops within 1/4 mile of main entrances	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton, Goal LU-2: Create and preserve high quality, built environments in the downtown and village centers. Objective 5. Define and support a critical mass of retail, cultural, and office space. Resilience and Regeneration Plan. - Regeneration Pathway 7: Transportation Mode Shift - Regeneration Pathway 8: Land Use Patterns - Action Plan Transportation/Land Use 1A: Advance equitable transportation access - Action Plan Transportation/Land Use 2A: Encourage dense, mixed-use, and transit-oriented development. Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Pedestrian and Bicycle Plan. Goal T-1: Ensure the safe and efficient transportation of goods and people by motor vehicles, bicycle, foot, and any other means Goal T-2: Improve circulation system to accommodate development and encourage bicycle and pedestrian transit Goal T-3: Improve and expand public transit 3-B. Bike Share Program Goal T-4: Support Federal and State investments in transportation improvements 4-A. MassCentral Rail Trail access at North Street Goal T-5: Provide appropriate bicycle and vehicle parking to support local businesses Mass General Brigham Cooley Dickinson Hospital Community Health Needs Assessment (2022). https://www.cooleydickinson.org/wp-content/uploads/2022/10/Cooley-Dickinson-2022-Community-Health-Needs-Assessment-v2.pdf - Public transportation is a prioritized health need. Insufficient and intermittent public transportation. "A higher share of household income goes towards transportation than in almost any other region of the state." Northampton: 25% transportation + 40% housing = 65% combined. (Ref: Center for Neighborhood

Environmental Health Focus Areas							
	Food/	Bicycle/			Ĭ		
Daniel Ideas	Housing	Pedestrian	Mental	Extreme		P. Laurence and P. Martin	
Design Ideas	Security	Safety	Health	Temperatures	Metric	Relevant Community Metric	
Resilience hub	x		x	x	Designated resilience hub by local office of emergency management	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton, Goal EEC 4: Develop strategies to protect the City from the impacts of natural hazards. Objective 4. Encourage passive survivability standards of new structures to increase survival of natural disasters for all public and private buildings. Goal IC-2: Program and utilize public buildings for maximum efficiency and availability. Objective 1. Establish a collaborative administration of city buildings and facilities to maximize utilization of space, improve operational efficiencies, and ensure a transparent process for public use of public facilities. Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Resilience and Regeneration Plan.	
						- Resilience Pathway 4: Healthy and Equitable Communities - Resilience Pathway 6: Hazard Mitigation and Emergency Preparedness - Action Plan, Energy 1C: Continue building out distirbuted energy resources for critical services - Action Plan Energy 2E: Encourage resilience and regeneration building and site improvements - Action Plan Health and Safety 1D: Assess tree, forest ecosystem, agriculture, and food systems for resilience	
						Mass General Brigham Cooley Dickinson Hospital Community Health Needs Assessment (2022). https://www.cooleydickinson.org/wp-content/uploads/2022/10/Cooley-Dickinson-2022-Community-Health-Needs-Assessment-v2.pdf Lack of resources to meet basic needs is a prioritzed health need. Increases stress. Lowers access to medical services (cost, time, insurance). "Northampton Resilience Hub will help people access basic needs such as a meal, shower, a	
						place to store important papers."	
					Designated cooling center by local health department	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Resilience and Regeneration Plan. - Resilience Pathway 4: Healthy and Equitable Communities	
						- Resilience Pathway 6: Hazard Mitigation and Emergency Preparedness - Action Plan, Energy 1C: Continue building out distributed energy resources for critical services	
						- Action Plan Energy 2E: Encourage resilience and regeneration building and site improvements	
Anchor	x		x	x	kW generation from on-site renewables	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning	
community on- site solar						Resilience and Regeneration Plan City committed to becoming net carbon neutral by 2050.	
microgrid						- City government buildings committed to becoming net carbon neutral by 2030.	
						- Regeneration Pathway 2: Electricity from Renewable/Low-Carbon Sources	
						- Regeneration Pathway 4: Net Zero Energy Buildings - Regeneration Pathway 5: Electrification of Thermal Loads	
						- Resilience Pathway 2: Resilient Building and Energy Systems	
						- Resilience Pathway 4: Healthy and Equitable Communities	
						- Resilience Pathway 6: Hazard Mitigation and Emergency Preparedness - Action Plan, Energy 1B: Procure more renewable energy projects on city property and through city partnerships	
						- Action Flan, Energy 10: Continue building out distributed energy projects on any property and unbounding partnerships - Action Plan, Energy 10: Continue building out distributed energy resources for critical services	
						- Action Plan Energy 2E: Encourage resilience and regeneration building and site improvements	
0 " 1 " 0					I NAM	- Action Plan, Energy 2F: Accelerate community adoption of energy efficient & high-performance building improvements with a focus on more equitable access	
On-site battery & wiring to island	x		x	х	kWh storage	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Resilience and Regeneration Plan.	
site during power						- City committed to becoming net carbon neutral by 2050.	
outage						- City govenment buildings committed to becoming net carbon neutral by 2030.	
						- Regeneration Pathway 2: Electricity from Renewable/Low-Carbon Sources - Regeneration Pathway 4: Net Zero Energy Buildings	
						- Regeneration Pathway 5: Electrification of Thermal Loads	
						- Resilience Pathway 2: Resilient Building and Energy Systems	
						- Resilience Pathway 6: Hazard Mitigation and Emergency Preparedness - Action Plan, Energy 1B: Procure more renewable energy projects on city property and through city partnerships	
						- Action Plan, Energy 1C: Continue building out distirbuted energy resources for critical services	
						- Action Plan, Energy 2B: Expand program for building electrification to convert from oil and natural gas heat to heat pumps or other electric sources	
Fallow Urban					Devent on site sidewalks intersections and drives	- Action Plan Energy 2E: Encourage resilience and regeneration building and site improvements	
Follow Urban Street Design		x			Percent on-site sidewalks, intersections, and drives following <i>Urban Street Design Guide</i> requirements	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Sustainable Northampton, Goal LU-3: Maintain a distinction between rural areas, residential neighborhoods, and urban areas. Objective 6. Create Northampton	
Guide for						neighborhoods, that provide pedestrian scales, connections to goods and services, and connections to multiple modes of travel. Goal T-1: Ensure the safe and	
sidewalks,						efficient transportation of goods and people by motor vehicles, bicycle, good, and any other means. Objective 5. Ensure that safety is a primary goal in	
intersections, and street design						transportation improvements, systems, and operations, both to reduce crashes and to ensure that both vehicular and non-vehicular modes of traffic are safe and attractive to all users on all roads. Goal T-2: Improve circulation system to accommodate development and encourage bicycle and pedestrian transit. Objective 1. Ensure that all new privately built streets include sidewalks. Objective 6. Ensure pedestrian, bicycle, non-motorized travel, and transit are addressed in every development project.	
						Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning Pedestrian and Bicycle Plan.	
						Goal T-1: Ensure the safe and efficient transportation of goods and people by motor vehicles, bicycle, foot, and any other means Goal T-2: Improve circulation system to accommodate development and encourage bicycle and pedestrian transit Goal T-3: Improve and expand public transit	
						Goal T-4: Support Federal and State investments in transportation improvements Goal T-5: Provide appropriate bicycle and vehicle parking to support local businesses	

	Env	vironmenta	al Health	Focus Area	s	
	Food/	Bicycle/	Mandal	F		
Design Ideas	Housing Security	Pedestrian Safety	Mental Health	Extreme Temperatures	Metric	Relevant Community Metric
					Percent of perimeter sidewalks following Urban Street	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
						Sustainable Northampton, Goal ED-1: Ensure vibrant and distinctive downtown, commercial, and village centers. Objective 4. Preserve/enhance the public
						services and amenities that draw people downtown and ensure that they are safe, pedestrian friendly, and welcoming to the diversity of Northampton residents. Goal
						T-1: Ensure the safe and efficient transportation of goods and people by motor vehicles, bicycle, goot, and any other means. Objective 5. Ensure that safety is
						a primary goal in transportation improvements, systems, and operations, both to reduce crashes and to ensure that both vehicular and non-vehicular modes of traffic are safe and attractive to all users on all roads. Goal T-2: Improve circulation system to accommodate development and encourage bicycle and pedestrian
						are sare and advanced to an users on an users on an users of an user of
						addressed in every development project.
						Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
						Pedestrian and Bicycle Plan.
						Goal T-1: Ensure the safe and efficient transportation of goods and people by motor vehicles, bicycle, foot, and any other means
						Goal T-2: Improve circulation system to accommodate development and encourage bicycle and pedestrian transit
						Goal T-3: Improve and expand public transit
						Goal T-4: Support Federal and State investments in transportation improvements Goal T-5: Provide appropriate bicycle and vehicle parking to support local businesses
					Percent of bike paths/lanes adjacent to the property	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
					following Urban Street Design Guide requirements	Sustainable Northampton, Goal ED-1: Ensure vibrant and distinctive downtown, commercial, and village centers. Objective 4. Preserve/enhance the public
						services and amenities that draw people downtown and ensure that they are safe, pedestrian friendly, and welcoming to the diversity of Northampton residents. Goal
						T-1: Ensure the safe and efficient transportation of goods and people by motor vehicles, bicycle, goot, and any other means. Objective 5. Ensure that safety is a primary goal in transportation improvements, systems, and operations, both to reduce crashes and to ensure that both vehicular and non-vehicular modes of traffic
						are safe and attractive to all users on all roads. Goal T-2: Improve circulation system to accommodate development and encourage bicycle and pedestrian
						transit. Objective 1. Ensure that all new privately built streets include sidewalks. Objective 6. Ensure pedestrian, bicycle, non-motorized travel, and transit are
						addressed in every development project.
						Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
						Pedestrian and Bicycle Plan.
						Goal T-1: Ensure the safe and efficient transportation of goods and people by motor vehicles, bicycle, foot, and any other means Goal T-2: Improve circulation system to accommodate development and encourage bicycle and pedestrian transit
						Goal 1-3: Improve and expand public transit Goal 7-3: Improve and expand public transit Goal 7-3: Improve and expand public transit
						Goal T-4: Support Federal and State investments in transportation improvements
					Percent of street intersections adjacent to the	Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
					I *	Sustainable Northampton, Goal ED-1: Ensure vibrant and distinctive downtown, commercial, and village centers. Objective 4. Preserve/enhance the public
					requirements	services and amenities that draw people downtown and ensure that they are safe, pedestrian friendly, and welcoming to the diversity of Northampton residents. Goal
					•	T-1: Ensure the safe and efficient transportation of goods and people by motor vehicles, bicycle, goot, and any other means. Objective 7. Ensure that the
						needs of transit services, bicycle, pedestrian, and wheelchairs are considered and addressed in the design, construction, and management of every project affecting
						the transportation system. Goal T-2: Improve circulation system to accommodate development and encourage bicycle and pedestrian transit. Objective 1.
						Ensure that all new privately built streets include sidewalks. Objective 6. Ensure pedestrian, bicycle, non-motorized travel, and transit are addressed in every development project.
						Sustainable Northampton Comprehensive Plan (2021), https://northamptonma.gov/957/Planning
						Sussainable Nortnampton Comprehensive Plan (2021), https://nortnamptonma.gov/95//Planning Pedestrian and Bicycle Plan.
						Goal T-1: Ensure the safe and efficient transportation of goods and people by motor vehicles, bicycle, foot, and any other means
						Goal T-2: Improve circulation system to accommodate development and encourage bicycle and pedestrian transit
						Goal T-3: Improve and expand public transit
						Goal T-4: Support Federal and State investments in transportation improvements
						Goal T-5: Provide appropriate bicycle and vehicle parking to support local businesses Goal T-6: Increase walking and bicycling trips through education, encouragement, enforcement and evaluation programs
						CH Consult Editors and Dryving tips industrict ductation, disording interest, disordinate and stated in programs CH Consults Editors and Commission