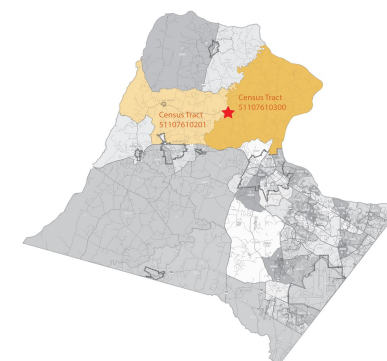


Health Situation Analysis - Data Description

Waterford, VA: Waterford Mill Historic Adaptive Reuse Concept

Census Tract: 51107610300 (Secondary Tract: 51107610201)

Owner: Waterford Foundation



Focus Area	Description	Neighborhood	Waterford	Loudoun County	Virginia	U.S.	Year	Data Source
Social Determinants of Health								
Social Vulnerability	Overall SVI Score (extremely low)	x6103: 0.067 x6102.01: 0.0876		0.0952			2018	U.S. CDC, 2018 Social Vulnerability Index, https://svi.cdc.gov/map.html
Race/ethnicity	African American/Black (very low)	x6103: 2.8% x6102.01: 0.6%	0.0%	7.7%	19.0%	12.6%	2020 5-year estimate	U.S. Census American Community Survey, DP-05, https://data.census.gov/cedsci/
	Asian (low)	x6103: 3.7% x6102.01: 2.6%	0.0%	19.2%	6.7%	5.6%	2020 5-year estimate	U.S. Census American Community Survey, DP-05, https://data.census.gov/cedsci/
	Other (average)	x6103: 10.2% x6102.01: 4.1%	7.0%	10.7%	8.0%	11.3%	2020 5-year estimate	U.S. Census American Community Survey, DP-05, https://data.census.gov/cedsci/
	White (extremely high)	x6103: 83.3% x6102.01: 92.8%	93.0%	62.4%	66.3%	70.4%	2020 5-year estimate	U.S. Census American Community Survey, DP-05, https://data.census.gov/cedsci/
	Hispanic/Latinx (very low)	x6103: 8.9% x6102.01: 6.0%	0.0%	13.6%	9.5%	18.2%	2020 5-year estimate	U.S. Census American Community Survey, DP-05, https://data.census.gov/cedsci/
	Non-Hispanic/Latinx (very high)	x6103: 91.1% x6102.01: 94.0%	100.0%	86.4%	90.5%	81.8%	2020 5-year estimate	U.S. Census American Community Survey, DP-05, https://data.census.gov/cedsci/

Focus Area	Description	Neighborhood	Waterford	Loudoun County	Virginia	U.S.	Year	Data Source
Median household income	Median household income in the past 12 months <i>(extremely high)</i>	x6103: \$196,336 x6102.01: \$151,750		\$147,111	\$76,398	\$64,994	2020 5-year estimate	U.S. Census American Community Survey, S1901, https://data.census.gov/cedsci/
Poverty status	Percent individuals below poverty level over the past 12 months <i>(extremely low)</i>	x6103: 2.0% x6102.01: 2.4%	0.0%	3.2%	10.0%	12.8%	2020 5-year estimate	U.S. Census American Community Survey, S1701, https://data.census.gov/cedsci/
Children	Percent children <5 years old <i>(average)</i>	x6103: 7.0% x6102.01: 6.2%	2.3%	7.0%	6.0%	6.0%	2020 5-year estimate	U.S. Census American Community Survey, DP05, https://data.census.gov/cedsci/
Elderly	Adults >65 years <i>(average in census tract; very high in Waterford Place)</i>	x6103: 12.9% x6102.01: 19.0%	64.1%	9.4%	15.4%	16.0%	2020 5-year estimate	U.S. Census American Community Survey, DP05, https://data.census.gov/cedsci/

Focus Area	Description	Neighborhood	Waterford	Loudoun County	Virginia	U.S.	Year	Data Source
Community Health								
General health	Adult prevalence fair/poor health <i>(very low)</i>	x6103: 9.1% x6102.01: 9.2%		9.2%		18.6%	2021 version	CDC PLACES*, https://www.cdc.gov/places
General physical health	Adult poor physical health over past 14 days <i>(moderate)</i>	x6103: 7.0% x6102.01: 7.1%		6.4%		12.5%	2021 version	CDC PLACES*, https://www.cdc.gov/places
Cancer	Adult cancer prevalence (excluding skin cancer) <i>(moderate)</i>	x6103: 6.6% x6102.01: 6.8%		5.5%		7.1%	2021 version	CDC PLACES*, https://www.cdc.gov/places
Heart Disease	Adult coronary heart disease <i>(moderately low)</i>	x6103: 4.6% x6102.01: 4.8%		4.1%		6.2%	2021 version	CDC PLACES*, https://www.cdc.gov/places
Mental Health	Adult depression prevalence <i>(average)</i>	x6103: 17.6% x6102.01: 17.6%		15.5%		18.8%	2021 version	CDC PLACES*, https://www.cdc.gov/places

Focus Area	Description	Neighborhood	Waterford	Loudoun County	Virginia	U.S.	Year	Data Source
	Adult poor mental health over past 14 days <i>(high)</i>	x6103: 11.1% x6102.01: 11.0%		10.7%		13.6%	2021 version	CDC PLACES*, https://www.cdc.gov/places
Obesity, Diabetes, Hypertension	Not located in a food desert	<20 miles from supermarket (rural definition)					2019	USDA Food Access Research Atlas, https://www.ers.usda.gov/data-products/food-access-research-atlas/go-to-the-atlas/
	Commute using public transit, walking, or cycling <i>(extremely low)</i>	x6103: 2.9% x6102.01: 9.3%	0.0%	4.6%	6.8%	7.7%	2020 5-year estimate	U.S. Census American Community Survey, S0801, https://data.census.gov/cedsci
	Adult high blood pressure <i>(average)</i>	x6103: 28.8% x6102.01: 29.3%		26.1%		32.6%	2021 version	CDC PLACES*, https://www.cdc.gov/places
	Adult diabetes <i>(moderate)</i>	x6103: 8.1% x6102.01: 8.1%		8.4%		11.0%	2021 version	CDC PLACES*, https://www.cdc.gov/places
	Adult obesity <i>(average)</i>	x6103: 30.1% x6102.01: 29.7%		27.9%		31.3%	2021 version	CDC PLACES*, https://www.cdc.gov/places
	Adult physical inactivity <i>(very high)</i>	x6103: 14.6% x6102.01: 14.9%		16.1%		26.0%	2021 version	CDC PLACES*, https://www.cdc.gov/places
Respiratory Disease	Adult Asthma <i>(average)</i>	x6103: 8.7% x6102.01: 8.7%		8.2%		8.9%	2021 version	CDC PLACES*, https://www.cdc.gov/places

* Crude rate, because available at census tract level

Focus Area	Description	Neighborhood	Waterford	Loudoun County	Virginia	U.S.	Year	Data Source
Climate Change								
Overall Climate Risk	Very Low	x6103: 12.12 x6102.01: 11.49			6.5	16.91	2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/

Focus Area	Description	Neighborhood	Waterford	Loudoun County	Virginia	U.S.	Year	Data Source
Expected Annual Loss	Relatively Low	Relatively Low		Relatively Moderate			2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/
Social Vulnerability	Very Low	Very Low		Very Low			2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/
Community Resilience	Relatively Moderate	Relatively Moderate		Relatively Moderate			2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/
Air Quality	Population near major roadway with little to no tree buffer (<i>Moderate</i>)	742.85 (HUC 12 ID 020700080301)					various, accessed 2022	EPA EnviroAtlas, https://enviroatlas.epa.gov/enviroatlas/interactivemap/
	Respiratory risk (hazard index) due to cumulative air toxics	x6103: 27.36 x6102.01: 26.82		29.83			various, accessed 2022	EPA EnviroAtlas, https://enviroatlas.epa.gov/enviroatlas/interactivemap/
	NAAQs			Metro non-attainment area			2022	EPA NAAQS, https://www.epa.gov/naaqs

Focus Area	Description	Neighborhood	Waterford	Loudoun County	Virginia	U.S.	Year	Data Source
Bike/ Pedestrian Safety	Relatively moderate	1 ped hit/run accident (2019)	Vehicle speeds up to 2x posted speed (2022) Traffic volumes on town roads have doubled - quadrupled between 2003-2019	3.2 motor vehicle crash deaths per 100,000 (2020)			2015-2022	Virginia Department of Transportation, https://www.virginiaroads.org/datasets/crashdata-basic-1/explore?location=39.185507%2C-77.607299%2C16.00 Waterford: Preserving the Landmark, https://www.loudoun.gov/DocumentCenter/View/172338/FINAL_Waterford_Preserving-the-Landmark_Aug-2022 2022 Loudoun Community Health Needs Assessment, https://www.inova.org/sites/default/files/about-inova/community/Inova_CHNA_Loudoun_2022.pdf
Earthquake	Very Low	x6103: 4.39 x6102.01: 5.77		0 <i>(very low)</i>			2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/
Flooding	Flood Plain <i>(high risk)</i> Riverine Flooding <i>(Relatively Low Relatively Moderate)</i> Impervious Surface <i>(Low)</i>	100-year flood plain (Zone AE) x6103: 11.08 x6102.01: 11.66 x6103: 27% x6102.01: 0%		7.04% in FEMA flood hazard area 0 <i>(very low)</i> <i>Low</i>			2018 version 2019 version	FEMA Flood Map Service Center, https://msc.fema.gov/portal/ National Environmental Public Health Tracking Network, https://ephtracking.cdc.gov USGS Multi-Resolution Land Characteristics Consortium, NLCD Impervious Surface 2019 CONUS, https://www.mrlc.gov/viewer/

Focus Area	Description	Neighborhood	Waterford	Loudoun County	Virginia	U.S.	Year	Data Source
Heat	Overall Vulnerability (relatively low risk)	x6103: 10.94 x6102.01: 9.86		0 (extremely low risk)			2018 estimate	Extreme Heat Vulnerability Mapping Tool, https://geoxc-apps2.bd.esri.com/Climate/HeatVulnerability/index.html
	Emergency Department & Urgent Care Visits from May - September (Very High, >50)			72 (2022) 71 (2021) 41 (2020) 73 (2019) 68 (2018) 43 (2017) 77 (2016) 43 (2015)			2015-2022	Virginia Department of Health Heat-Related Illness Surveillance, https://www.vdh.virginia.gov/surveillance-and-investigation/syndromic-surveillance/hri-surveillance/
	Extreme Heat Vulnerability (Extremely Low Risk)	x6103: 0.089 x6102.01: 0.049		0.090 (extremely low risk) projected max 17 total days above 95° in 2020			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 low)			30.45% (HUC 12 ID 020700080301)	32.2% (Land covered by forest, 2021)			various, accessed 2022
	Tree canopy average (moderate)	16% tree canopy at the site; 70% near the creek					2016	USGS Multi-Resolution Land Characteristics Consortium, NLCD Tree Canopy, 2016 CONUS, https://www.mrlc.gov/viewer/

Focus Area	Description	Neighborhood	Waterford	Loudoun County	Virginia	U.S.	Year	Data Source	
	Access to parks and green space (<i>moderate</i>)	Phillips Farm within 1 mile radius						2022	Google Maps, https://www.google.com/maps/
Vector-borne Disease	Lyme Disease (<i>very high</i>)			118 - 223	2nd highest number of cases, Frederick County: 19 (2020)		2010-2017	Virginia Department of Health Communicable Disease Dashboard, https://www.vdh.virginia.gov/data/communicable-diseases/	
Hurricane	Relatively Low (<i>Very Low</i>)	x6103: 7.56 x6102.01: 6.85		0	(<i>very low</i>)		2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/	
Strong Wind	Relatively Moderate	x6103: 25.71 x6102.01: 23.64		0.01	(<i>very low</i>)		2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/	
Tornado	Relatively Low	x6103: 25.26 x6102.01: 23.10		0.01	(<i>very low</i>)		2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/	
Wildfire	High Wildfire Likelihood		Greater risk than 97% of communities in Loudoun County	Greater risk than 33% of counties in Virginia	Greater risk than 46% of states in U.S.		various, accessed 2022	USGDA Forest Service, Wildfire Risk to Communities data portal, https://wildfirerisk.org/explore	
	High Wildfire Risk to Homes		Greater risk than 100% of communities in Loudoun County	Greater risk than 34% of counties in Virginia	Greater risk than 42% of states in U.S.		various, accessed 2022	USGDA Forest Service, Wildfire Risk to Communities data portal, https://wildfirerisk.org/explore	
Winter Weather	Relatively Moderate	x6103: 12.51 x6102.01: 11.22		0.01	(<i>very low</i>)		2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/	
	Cold Wave (<i>relatively low</i>)	x6103: 11.17 x6102.01: 9.98		0.01	(<i>very low</i>)		2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/	

Focus Area	Description	Neighborhood	Waterford	Loudoun County	Virginia	U.S.	Year	Data Source
	Ice Storm <i>(very low)</i>	x6103: 7.75 x6102.01: 7.01		0 <i>(very low)</i>			2021 version	FEMA National Risk Index, https://hazards.fema.gov/nri/