

BRIC DIRECT TECHNICAL ASSISTANCE REQUEST FORM

Subpage to BRIC DTA Webpage: https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities/direct-technical-assistance		
This form is for requesting non-financial direct technical assistance offered through the Building Resilient Infrastructure and Communities (BRIC) program provided by the Federal Emergency Management Agency (FEMA). Eligible communities request hazard mitigation assistance by completing this form. Each community or group of communities may only submit one request.		
COMMUNITY DETAILS AND CONTACT INFORMATION		
What community or communities do you represent in this BRIC DTA application? The River Valley School District is pursuing a BRIC DTA application for assistance in developing a BRIC subapplication. The River Valley School District is located in Sauk and Iowa Counties in Wisconsin and River Valley High School is located at 1660 Varsity Blvd, Spring Green, WI 53588. The Village of Spring Green & multiple villages and townships are all at least partially located within the River Valley School District. The Village of Spring Green, where the school facilities are located, is situated on the banks of the Wisconsin River. Please see the attached Technical Memorandum for further detail about the community.		
Point of Contact Name: Loren Glasbrenner	Community Phone Number: (608) 588-2551	Preferred Email Address: lglasbrenner@rvschools.org
Community Address: 660 W. Daley Street		
City/Town: Spring Green	State, Territory, or Tribal Government: Wisconsin	ZIP/Postal Code: 53588
Are you federally recognized Tribal Government(s)/entity?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are you a non-federally recognized Tribal Government(s)/entity?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Does your community have or participate in a Hazard Mitigation Plan?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unsure
Name the Hazard Mitigation Plan in which your community or communities participates: The Village of Spring Green has participated in the Sauk County Natural Mitigation Plan 2019-2024, however, the River Valley School District has not participated in the Hazard Mitigation Plan. The River Valley School District plans to participate in the upcoming Hazard Mitigation Plan update, along with the Village of Spring Green.		
ELIGIBILITY		
To be eligible for BRIC DTA, you must represent one or more of the options below. Please check all that apply.		
<input type="checkbox"/> City	<input type="checkbox"/> Federally recognized Tribal Nation Government(s)	
<input type="checkbox"/> Township	<input type="checkbox"/> Non-Federally recognized Tribal Nation Government(s)	
<input type="checkbox"/> County/Parish	<input type="checkbox"/> Group of two or more communities that fit the above criteria	
<input checked="" type="checkbox"/> Special District Government		
HAZARD IDENTIFICATION		
Please check the box that describes the nature of the hazard(s) your community is facing. Please check all that apply.		
<input type="checkbox"/> Avalanche	<input checked="" type="checkbox"/> Extreme Heat	<input checked="" type="checkbox"/> Severe Winter Weather
<input checked="" type="checkbox"/> Dam Failure	<input checked="" type="checkbox"/> Flood	<input type="checkbox"/> Storm Surge
<input type="checkbox"/> Drought	<input checked="" type="checkbox"/> Hail	<input type="checkbox"/> Subsidence
<input type="checkbox"/> Earthquake	<input type="checkbox"/> Hurricane Wind	<input checked="" type="checkbox"/> Tornado
<input type="checkbox"/> Erosion	<input type="checkbox"/> Landslide	<input type="checkbox"/> Tsunami
<input type="checkbox"/> Expansive Soils	<input checked="" type="checkbox"/> Lightning	<input type="checkbox"/> Wildfire
<input checked="" type="checkbox"/> Extreme Cold	<input type="checkbox"/> Sea Level Rise	<input checked="" type="checkbox"/> Pandemic

BRIC DTA SUPPORT

Through BRIC DTA, FEMA can provide support for hazard mitigation planning, mitigation project assistance, and BRIC application-specific needs.

Please indicate a primary direct technical assistance need: BRIC Sub-Application Development

If "Other" is selected, explain further:

Please briefly describe any disasters your community has experienced in the past seven years:
In the past seven years, the River Valley School District faced challenges including severe winds causing tree damage and power outages, increased extreme temperature days, and the socio-economic impacts of the COVID-19 pandemic. While not in the past seven years, flash flooding in 2008 & 2013 led to road closures and significant damage. These events highlight the community's vulnerability to natural & societal crises, underscoring the need for proactive disaster preparedness. Securing FEMA DTA would enhance the ability to mitigate future disasters & increase resilience.

Please provide a brief description of the community's need for BRIC DTA and any challenges you have faced:
River Valley faces pressing needs for BRIC DTA amid climate change impacts & resource constraints common to rural communities. The community encounters significant socio-economic challenges, including significant vulnerable populations, & lack of funding for infrastructure improvements. Because of this, grants are essential for pursuing climate-resilient structures, crucial for community safety & well-being. DTA would provide the resource assistance to pursue these funds. Please see Section 3 of Technical Memo for detail.

Please provide a brief description of proposed deliverables and timelines, including duration of technical assistance:
The goal is to develop a BRIC subapplication for a community tornado safe room & extreme temperature shelter within a duration of approximately 3 months. This would be achieved through collaboration with community partners including the River Valley Commons (community non-profit organization) and the Village of Spring Green. This effort aims to enhance community safety & resilience by providing a safe room during tornadoes & extreme weather events, addressing the urgent need for improved community infrastructure.

PREVIOUS FEMA ASSISTANCE

Have you received a subaward (Project, Advance Assistance, Capability and Capacity Building) under BRIC, the Pre-Disaster Mitigation (PDM) grant program, the Flood Mitigation Assistance (FMA) grant program, or the Hazard Mitigation Grant Program (HMGP) within the past 5 years?

Yes No I don't know

DISADVANTAGED COMMUNITIES

Social vulnerability refers to the potential negative effects on communities caused by external stresses on human health. Such stresses include natural or human-caused disasters, or disease outbreaks. More information and resources regarding the Social Vulnerability Index can be found here <https://www.atsdr.cdc.gov/placeandhealth/svi/index.html>.

Please briefly describe the social vulnerability within your community is potentially facing or has recently faced below:
While the Village of Spring Green and River Valley School District is not identified by the Justice40 CEJST as being a disadvantaged community, there are significant populations of residents who are influenced by several external stresses and social vulnerability factors that can exacerbate the impacts of disasters. Vulnerable populations, particularly the elderly, face heightened risks during disasters, exacerbated by extreme temperatures and climate change impacts. Data from the CDC's Social Vulnerability Index (SVI) and FEMA's National Risk Index highlight significant vulnerabilities, especially in housing type & transportation. Notably, Spring Green's Census Tract 55111000800 exhibits a relatively high level of vulnerability to cold waves, tornadoes, & strong winds. However, limited funds constraints hinder the construction of a new, safer facility. Through DTA, the community is striving to address these vulnerabilities by enhancing emergency preparedness and community resilience, especially for the most vulnerable of the community. Please see Section 5 of the attached Technical Memo for further detail.

Is your community 3,000 or fewer individuals? Yes No

Are you designated as a disadvantaged community as defined by [Executive Order 14008](#), including Tribal Nation Government(s)?

Justice40 No I don't know

POINT OF CONTACT ACKNOWLEDGEMENT

By checking this box I confirm that **if selected** the community or communities referenced in this form agree to: a) sign a Memorandum of Understanding with FEMA before non-financial technical assistance can begin and b) actively participate in BRIC DTA according to a BRIC DTA Plan developed in conjunction with FEMA.

River Valley School District Direct Technical Assistance
Technical Memorandum
2/29/2024

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Executive Summary

The River Valley School District is seeking FEMA Building Resilient Infrastructure & Communities Direct Technical Assistance (DTA) through the FY 2023 grant program. The River Valley School District is interested in pursuing a future community safe room project application that would consist of a multi-purpose concrete community tornado safe room attached to the River Valley High School that would provide near-absolute life safety to residents of the Village of Spring Green and students of River Valley School District. FEMA DTA would be crucial for the Spring Green Community, as it lacks the resources to effectively pursue these funds.

Section 1: Community of River Valley School District

The River Valley School District is located in Sauk and Iowa Counties in Wisconsin. The School District is located at 660 Varsity Blvd, Spring Green, WI 53588. The Villages of Spring Green, Plain, Arena, and Lone Rock and the Townships of Arena, Spring Green, Bear Creek, Franklin, Clyde, Wyoming, and Buena Vista are all at least partially located within the River Valley School District. The Village of Spring Green, where the school facilities are located, is situated on the banks of the Wisconsin River, as shown in Figure 1. The Village of Spring Green has a population of 1,538 people, according to the American Community Survey.¹

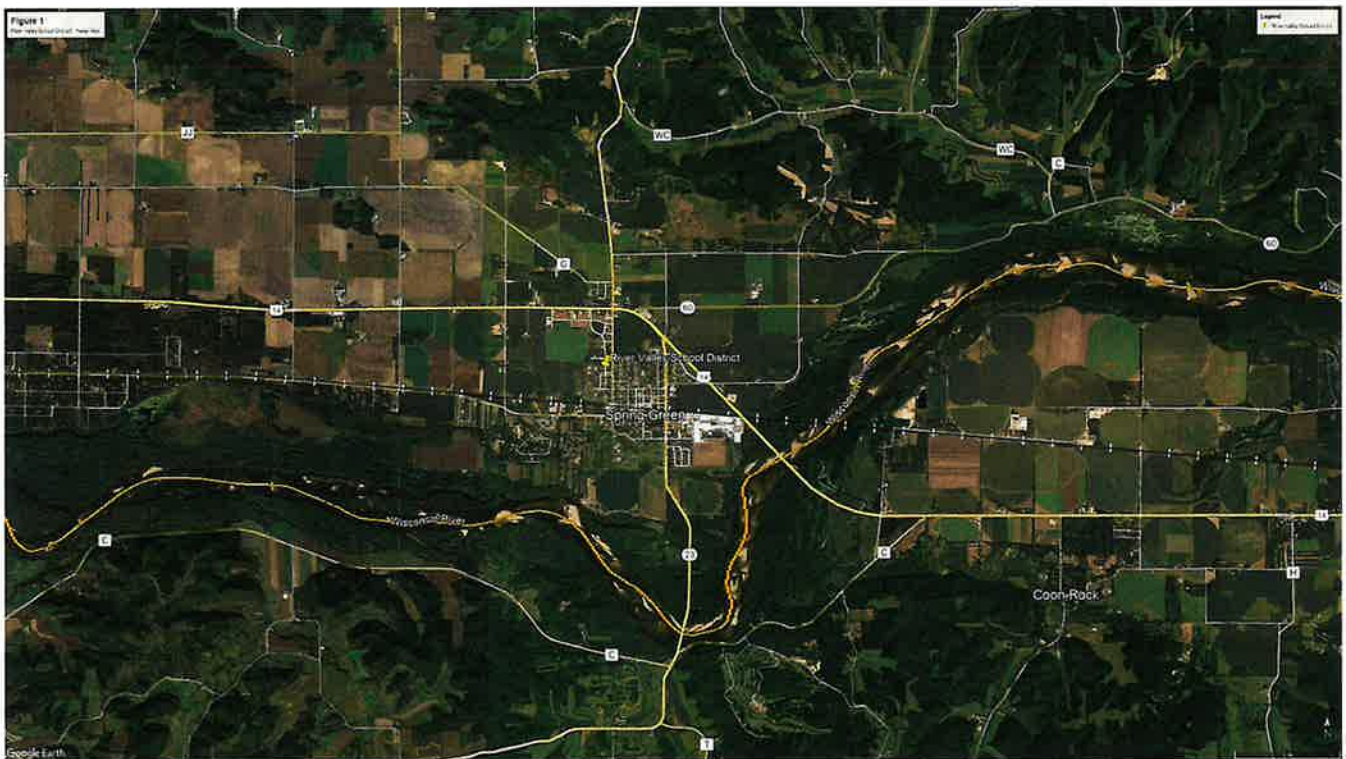


Figure 1: Aerial map showing the location of the River Valley School District, within Sauk County. (Google Earth)

¹ United States Census Bureau. "American Community Survey 2022 5-Year Estimates Data Profiles DP05: ACS Demographic and Housing Estimates for the Village of Spring Green, WI."

Section 2: Community Disasters

Notably, the community has grappled with strong winds that wrought havoc by uprooting trees, downing branches, and causing power outages. These events underscore the vulnerability of the region to severe weather events, highlighting the importance of proactive disaster preparedness and mitigation efforts.

Additionally, the COVID-19 pandemic has compounded existing vulnerabilities within the community. Economic strains resulting from the pandemic-induced recession have heightened financial challenges for residents, while disruptions to social networks have exacerbated feelings of isolation and stress. The lack of a sufficiently large community center further complicates pandemic response efforts, as there is limited space to accommodate CDC social distancing recommendations for essential activities such as testing and community meetings.

While not within the seven-year timeframe, the memory of flash flooding that beset Spring Green in both 2008 and 2013, looms large. The resultant inundation and road closures underscore the recurrent threat of natural disasters in the region, emphasizing the imperative of bolstering resilience and preparedness initiatives. In light of these past experiences, securing FEMA Direct Technical Assistance through the FY2023 BRIC grant program would enable the River Valley School District to fortify its capacity to mitigate, respond to, and recover from future disasters, safeguarding the well-being and resilience of the community.

Section 3: Community Need - Direct Technical Assistance

River Valley's need for BRIC Direct Technical Assistance (DTA) is critical in addressing pressing challenges exacerbated by climate change impacts and resource constraints common to rural communities. The community encounters significant socio-economic challenges, including significant vulnerable populations, & lack of funding for infrastructure improvements. These challenges are further amplified by the escalating effects of climate change, leading to more frequent and severe weather events that exacerbate existing vulnerabilities.

Limited financial and staffing resource restrictions pose a significant obstacle to addressing these infrastructure challenges. Securing grants through the BRIC program is vital for overcoming these funding barriers and ensuring the safety and well-being of Spring Green residents.

BRIC DTA offers invaluable resource assistance to navigate the complex process of securing funding for critical infrastructure projects. By providing technical expertise and guidance, DTA empowers communities like Spring Green to effectively pursue available funding opportunities and develop robust grant applications. With DTA support, the River Valley School District can access the resources needed to bolster its resilience against climate change impacts and enhance community safety for current and future generations.

In summary, BRIC DTA is essential for River Valley School District to address its infrastructure needs in the face of climate change and resource constraints. By leveraging technical assistance to pursue funding opportunities, the community can work towards replacing aging infrastructure with climate-resilient alternatives, ultimately safeguarding the safety and well-being of its residents.

Section 4: Proposed Deliverables and Timelines

The goal of this Direct Technical Assistance is to develop a BRIC subapplication for a multi-purpose community tornado safe room & extreme temperature shelter. The River Valley School District believes this would require approximately 3 months of assistance. The application development would be achieved through collaboration with important community partners including the River Valley Commons (non-profit organization) and the Village of Spring Green. This effort aims to enhance community safety & resilience by providing a safe room during tornadoes & extreme weather events, addressing the urgent need for improved community infrastructure.

Over the proposed three month engagement, the project will focus on achieving several critical milestones toward establishing a BRIC subapplication for a multi-purpose community tornado safe room and extreme temperature shelter. The first milestone entails conducting an Occupancy Study to determine the size requirements of the safe room based on population data. Concurrently, the project will enter the Conceptual Schematic Design phase, collaborating with architects and engineers to develop the layout and features of the shelter. These efforts will ensure that FEMA requirements are being met and the application will be eligible for consideration in a future BRIC grant cycle.

As progress continues, efforts will culminate in the development of a comprehensive BRIC application. This process involves synthesizing data from the Occupancy Study and design considerations into a compelling narrative that highlights the urgent need for the safe room and its benefits for community safety and resilience. Close collaboration with community partners and stakeholders will be integral to integrating their insights and support into the application.

Through rigorous planning, consultation, and collaboration, the project aims to submit a finalized BRIC application that effectively communicates the vision and garners support for funding. This application will articulate the commitment to enhancing community resilience and safeguarding the well-being of residents in the face of natural disasters and extreme weather events. Achieving these milestones lays the groundwork for realizing a vital infrastructure project that will serve as a cornerstone of safety and resilience for the community.

Section 5: Social Vulnerability Within The Community

While the Village of Spring Green and River Valley School District is not identified by the Justice40 CEJST as being a disadvantaged community, there are significant populations of residents who are influenced by several external stresses and social vulnerability factors that can exacerbate the impacts of disasters. The community holds significant populations of vulnerable populations, particularly those residing in nursing homes and assisted living shelters. These individuals, often elderly or disabled, face heightened challenges during emergencies, such as tornadoes, floods, and extreme weather events. Elderly individuals often face greater health risks associated with temperature extremes, including heat stress, dehydration, and exacerbation of pre-existing medical conditions. Moreover, many elderly residents may live alone or have limited access to resources, making them particularly susceptible to the impacts of extreme heat or cold. The pursuit of a safe room project would prioritize the well-being of elderly community members by providing a designated, climate-controlled space where they can seek refuge and protection from extreme temperatures during emergencies.

In addition to the most vulnerable subpopulations of Spring Green, the entire community has a measured vulnerability to a number of natural hazards. A copy of the EJSCREEN reports for a 1 mile ring around the River Valley School District is included in the Appendix. To further describe the population impacted and associated vulnerability/risk, various data-sources were utilized:

- Centers for Disease Control and Prevention (CDC) Social Vulnerability Index (SVI) - Link: <https://www.atsdr.cdc.gov/placeandhealth/svi/index.html>:
 - The 2020 Nationwide Overall SVI score for Sauk County is 0.2292, which indicates an overall low level of vulnerability. The 2020 Statewide Overall SVI score for Sauk County is 0.6620, which indicates a medium to high level of vulnerability. However, there are census-tracts within the County and proposed project impact area that have higher SVI scores. The Census Tract that the Village of Spring Green is located in, Census Tract 55111000800, has a 2020 Statewide Overall SVI Score of 0.3837. This score indicates a low to medium level of vulnerability.² A map showing the overall Sauk County SVI and the Sauk County SVI fact sheet are included in the Appendix.
 - The 2020 Statewide Housing Type & Transportation Score for the Village of Spring Green's Census Tract 55111000800 is 0.6999, which indicates a medium to high level of vulnerability.
- FEMA National Risk Index – Link: <https://hazards.fema.gov/nri/>: Although the National Risk Index for the 55111000800 Census Tract is relatively low at 49.86, the specific Hazard Risk Rating for a Cold Wave is relatively high at 93.2. Additionally, the Census Tract's Hazard risk Rating for Strong Winds and Tornadoes are relatively high at 85.3 and 79.2, respectively.³
- FEMA Resilience Analysis and Planning Tool (RAPT) – Link: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>: The Community Resilience Challenges Index - Percentile for Census Tract 55111000800, in Spring Green, WI is 15 of 100.

² Center for Disease Control & Prevention (CDC)/Agency for Toxic Substances & Disease Registry (ATSDR) Social Vulnerability Index (SVI), https://www.atsdr.cdc.gov/placeandhealth/svi/interactive_map.html

³ FEMA National Risk Index, Census Tract 55111000800, Sauk County, WI, <https://hazards.fema.gov/nri/map>

Appendix:

EPA EJ Screen Community Report

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Spring Green, WI

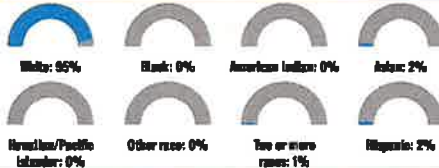
1 mile Ring Centered at 43.180186,-90.077384
Population: 1,749
Area in square miles: 3.14



COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to total due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	97%
Spanish	2%
Other Asian and Pacific Island	1%
Total Non-English	3%

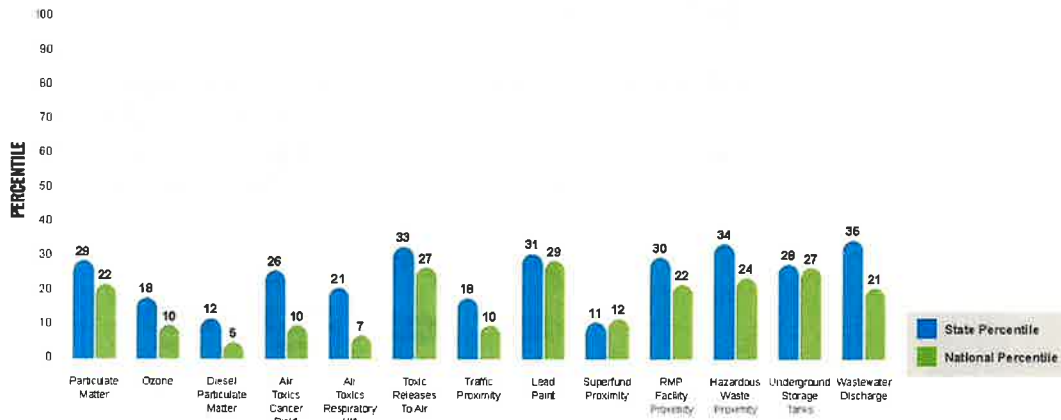
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

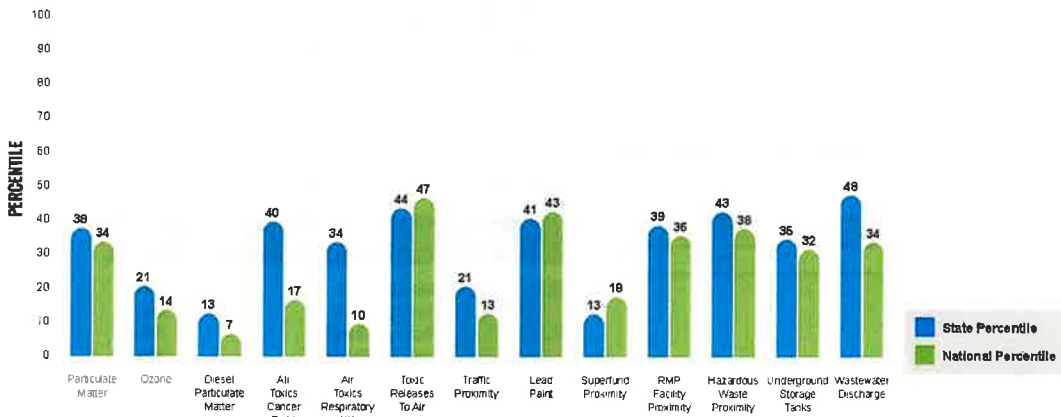
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for 1 mile Ring Centered at 43.180186,-90.077384

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	7.95	7.98	41	8.08	43
Ozone (ppb)	57	58.6	24	61.6	18
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.0775	0.179	15	0.261	9
Air Toxics Cancer Risk* (lifetime risk per million)	20	19	12	25	6
Air Toxics Respiratory HI*	0.2	0.21	7	0.31	4
Toxic Releases to Air	1,500	8,100	50	4,600	67
Traffic Proximity (daily traffic count/distance to road)	8.6	320	20	210	15
Lead Paint (% Pre-1960 Housing)	0.33	0.4	48	0.3	61
Superfund Proximity (site count/km distance)	0.025	0.12	15	0.13	24
RMP Facility Proximity (facility count/km distance)	0.14	0.59	37	0.43	43
Hazardous Waste Proximity (facility count/km distance)	0.42	1.4	44	1.9	47
Underground Storage Tanks (count/km ²)	0.43	3.3	38	3.9	38
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00059	0.028	55	22	44
SOCIOECONOMIC INDICATORS					
Demographic Index	9%	24%	16	36%	8
Supplemental Demographic Index	8%	12%	31	14%	24
People of Color	5%	21%	28	39%	13
Low Income	13%	26%	23	31%	24
Unemployment Rate	2%	4%	40	6%	31
Limited English Speaking Households	0%	1%	0	5%	0
Less Than High School Education	7%	8%	57	12%	44
Under Age 5	6%	5%	60	6%	59
Over Age 64	23%	18%	76	17%	76
Low Life Expectancy	20%	19%	62	20%	52

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics emission sources and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/air/aq/aq-air-toxics-data-update>

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	3
Air Pollution	0
Brownfields	0
Toxic Release Inventory	0

Other community features within defined area:

Schools	3
Hospitals	1
Places of Worship	4

Other environmental data:

Air Non-attainment	No
Impaired Waters	No

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (EJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	No

Report for 1 mile Ring Centered at 43.180186,-90.077384

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	20%	19%	62	20%	52
Heart Disease	6.2	5.8	62	6.1	54
Asthma	9.3	9.9	26	10	33
Cancer	7.7	6.6	81	6.1	84
Persons with Disabilities	12.4%	12.1%	56	13.4%	49

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	14%	9%	79	12%	76
Wildfire Risk	0%	0%	0	14%	0

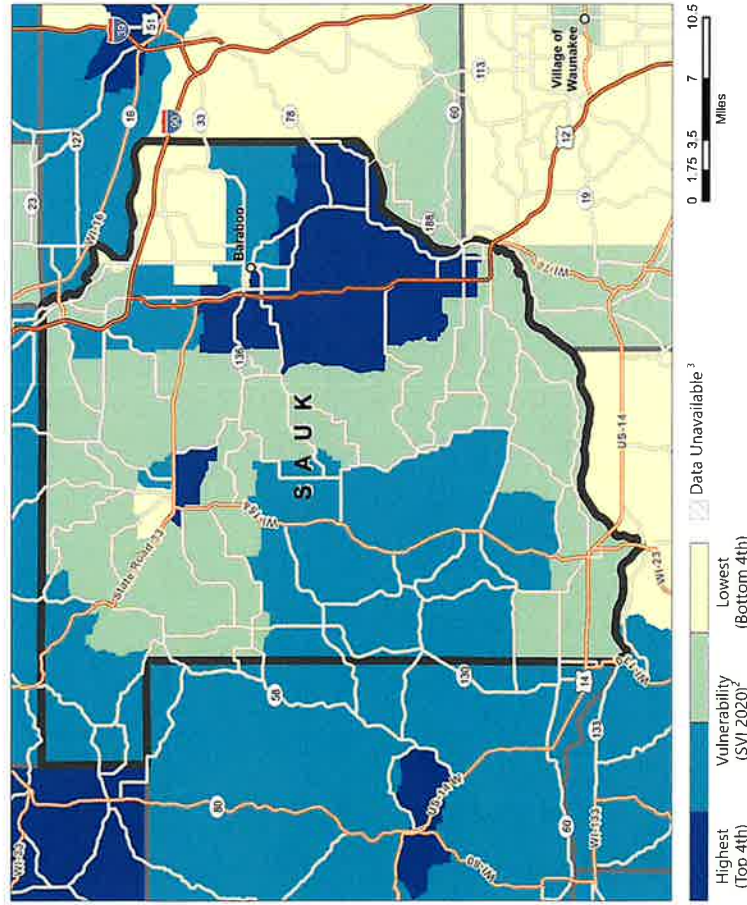
CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	15%	14%	62	14%	63
Lack of Health Insurance	6%	6%	64	9%	44
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	No	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for 1 mile Ring Centered at 43.180186,-90.077384

CDC/ATSDR Social Vulnerability Index 2020

SAUK COUNTY, WISCONSIN

Overall Social Vulnerability¹



Social vulnerability refers to a community's capacity to prepare for and respond to the stress of hazardous events ranging from natural disasters, such as tornadoes or disease outbreaks, to human-caused threats, such as toxic chemical spills. The CDC/ATSDR Social Vulnerability Index (CDC/ATSDR SVI 2020)² County Map depicts the social vulnerability of communities, at census tract level, within a specified comprehensive assessment.



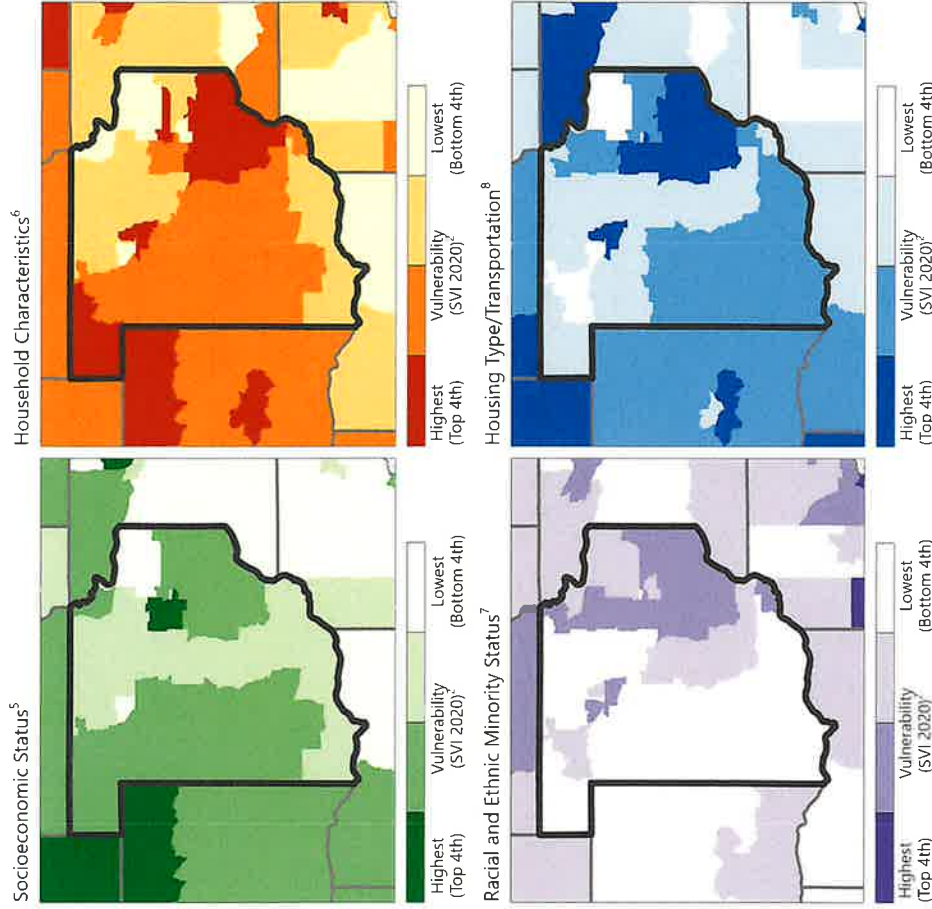
ATSDR
Agency for Toxic Substances
and Disease Registry

GRASP
Geospatial Research, Analysis, and
Services Program

CDC/ATSDR SVI 2020 – SAUK COUNTY, WISCONSIN



CDC/ATSDR SVI Themes



Data Sources: CDC/ATSDR/GRASP U.S. Census Bureau, Esri's StreetMap TM Premium. **Note:** "Overall Social Vulnerability: All 16 census tracts in Sauk County are in the "Lowest" category. Below 15% of the population." The CDC/ATSDR SVI combines percentile rankings of US Census American Community Survey (ACS) 2016-2020 variables for the state at the census tract level. **Population:** 159K. **Household Type:** Single Person Household, English as a Second Language, No Health Insurance, Household Characteristics, Aged 65 and Older, Aged 17 and Younger, Cuban with a Disability, Single Parent Household, English as a Second Language, Race/Ethnicity: Hispanic or Latino (of any race), Black and African American, Not Hispanic or Latino, American Indian and Alaska Native, Not Hispanic or Latino, Asian, Not Hispanic or Latino, Native Hawaiian and Other Pacific Islander, Not Hispanic or Latino, Two or More Races, Not Hispanic or Latino, Other Races, Not Hispanic or Latino, **Housing Type/Transportation:** Multi Unit Structures, Mobile Homes, Crowding, No Vehicle, Group Quarters. **Projections:** NAD 1983 Wisconsin TM US Ft. **References:** Flanagan, B. E. et al. A Social Vulnerability Index for Disaster Management. *Journal of Homeland Security and Emergency Management*, 2011. 8(1). CDC/ATSDR SVI web page: <https://www.atsdr.cdc.gov/picodancehealth/svindex.html>

