Where Justice and the Environment Meet





Groundwork is where justice, equity, and the environment meet. We expand human connection to urban nature to communities left behind by the environmental movement through stewardship opportunities.





Green Team Program



- Paid high school green workforce program
 - Ages 14-18
 - 18+ Youth Leader
- Environmental education + career preparedness
 - Networking opportunities
 - Travel opportunities
- Hands on Environmental Justice
 - Natural habitat restoration
 - Plant identification
 - Gardening
 - Trail building



Green Team Outcomes

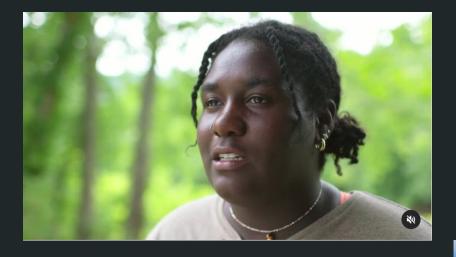


- General career preparedness, intro to many green careers
- Environmental education
- Provided opportunity for personal growth and development



Green Teamers community spaces at the Green Learning Center

In their own words...



Green Team Experience

Yellowstone Experience

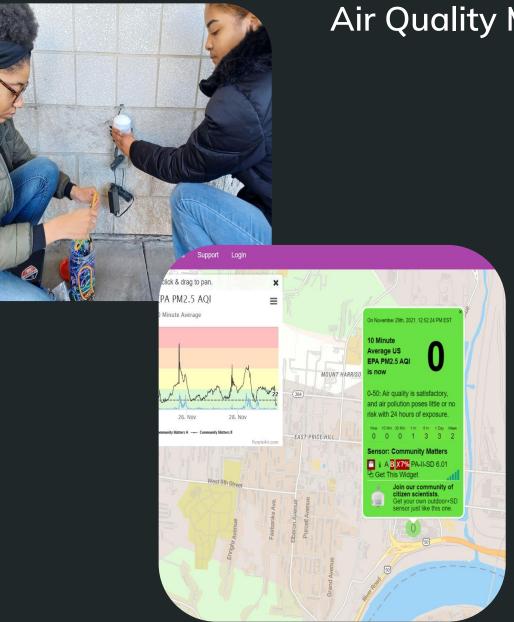


Green Corps Program

- Young adult green workforce program
 Ages 18-28
- Higher skill, more intensive



Anthony learns how to use a trencher in the building of an urban orchard



Air Quality Monitoring Project

Funding from the EPA to monitor air quality in Cincinnati

- Neighborhood Monitoring
- Resident Monitoring
- Green Team Monitoring



Project Description

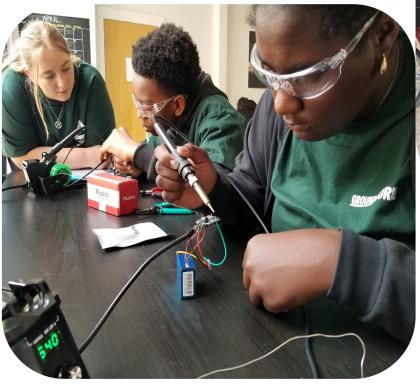
This community-driven monitoring project will compile neighborhood and individual-level air toxin exposure rates and use this data to advocate for mitigation efforts.

- Train **320 youth** employees and **50 neighborhood residents** on Air Quality Monitoring techniques and air pollution health education
- Data collected will be used to pursue funding for air quality mitigation efforts and other green infrastructure projects desired by residents



Youth Air Quality Programming

- Mobile Air Quality Routes
- Building Air Quality Monitors
- Health Education
 - PM2.5







Project Goals

- Establishment of programs that assist in residential air pollution mitigation
- Resident data collection
- 12 months of data evaluating
 - rates of exposure in residential areas will be compiled, analyzed, and made available for public use in a publicly available online dashboard
 - Data and monitoring efforts are adopted by city government as part of the Green Cincinnati Plan, helping to dictate policy





Water Quality Project

- Water quality monitoring team for college students and the Green Corps
- Collect data at 4 sampling sites on the Little Miami River



GIOCODEEN

Vhite Oak

Kenwood

Madeira

Climate Safe Neighborhoods

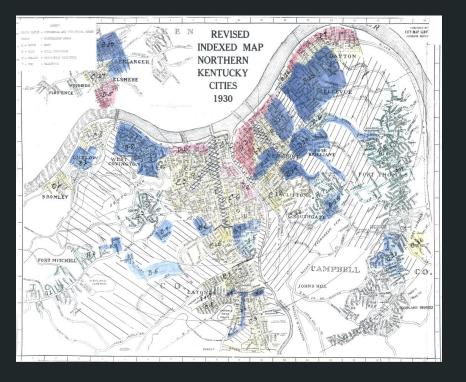
Newtown

Equity and Engagement in Climate Planning

/illa Hills

lincinnati-North KY Int'l Arot

Climate Safe Neighborhoods



A national effort to identify neighborhoods that are more vulnerable to the effects of climate change because of racial and social injustices, spread awareness and educate residents in those neighborhoods, and ignite action towards climate resilience.

Redlining map for Northern Kentucky

What is Environmental Justice?

A social movement to address environmental injustices in which marginalized communities have been harmed by hazardous waste, air pollution, climate change impacts, resource extraction, and/or land uses from which they don't benefit.



How is GWORV addressing environmental injustice?

Climate Safe Neighborhood: Goals

- 1. Explore and communicate the relationship between the climate crisis and institutionalized racism.
- 2. Support the capacity of residents to self-advocate for more equitable distribution of resources.
- 3. Develop and implement short-term mitigation measures for extreme heat and flooding.
- 4. Impact policy to prioritize equitable climate resiliency.

Some things to know:

- Effects of climate change are not being felt equally
- Historic policies have targeted certain neighborhoods for disinvestment and fewer amenities
 - National studies on zoning and redlining show that neighborhoods were disinvested in because of their race and income
- Areas historically targeted for disinvestment are hotter and wetter
 - More impervious surfaces, fewer trees, less access to air conditioning
- Extreme heat causes more deaths in the U.S. than all other weather-related causes combined, according to National Oceanic and Atmospheric Administration (NOAA), with the effects more pronounced in urban areas



Roots of Environmental Injustice in Cincinnati

Segregation in Cincinnati's neighborhoods: A brief history



RT THERE

E

Fort

North

College

White Oak

CSN Timeline

Sycamore Twp

Kenwood

The Village of Indian Hill

D N



Identify Vulnerable Neighborhoods

- Gathering geospatial data
- Evaluating neighborhoods using EJ Screen online tool

Bond Hill

Norwood

Fort

iomas



Climate Advisory Group Meetings

- Climate change education
- Mapping activities
- Climate Resiliency Plan

Implementation

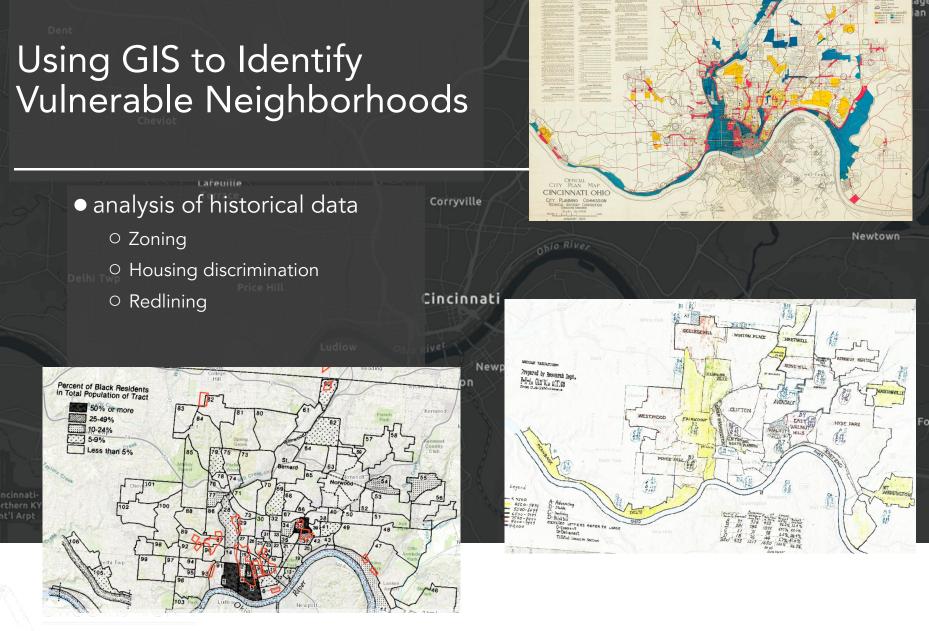
- Neighborhood tree plantings
- Community gardens
- Green roofs

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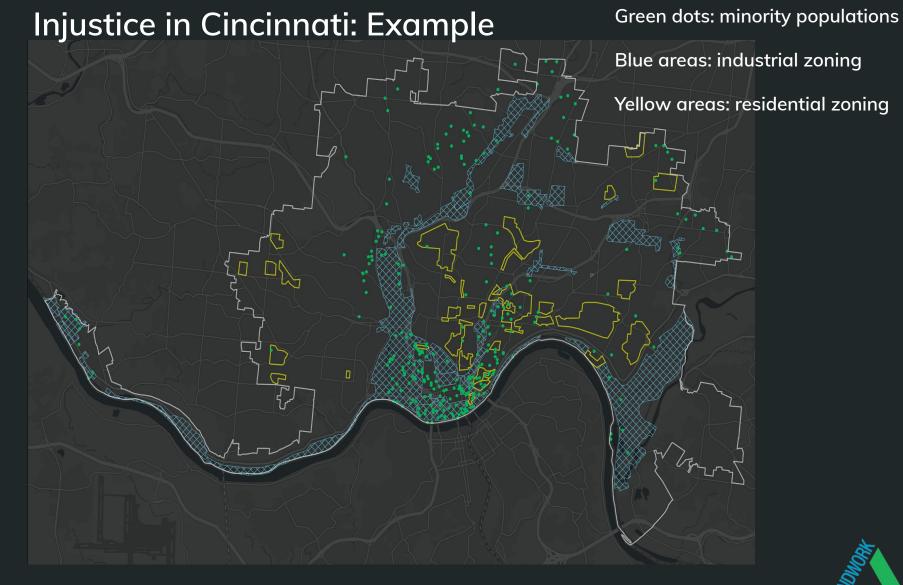


GROUNDWORK



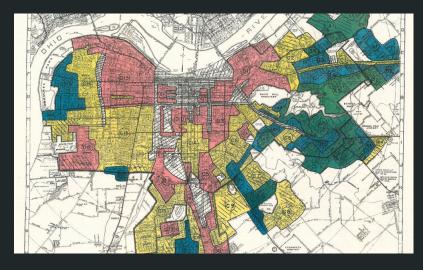
° Ohio River Valley

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ORV ®

1925 zoning designations & minority neighborhoods of 1930 Groundwork Ohio River Valley



SPAR SELV (COLOR INDICATE SETTLED GRADE)

PREPARED BY

D FOURTH GRADE

-CITY OF-RICHMOND VIRGINIA AND EVEROD

Understanding Context



Mapping Inequality



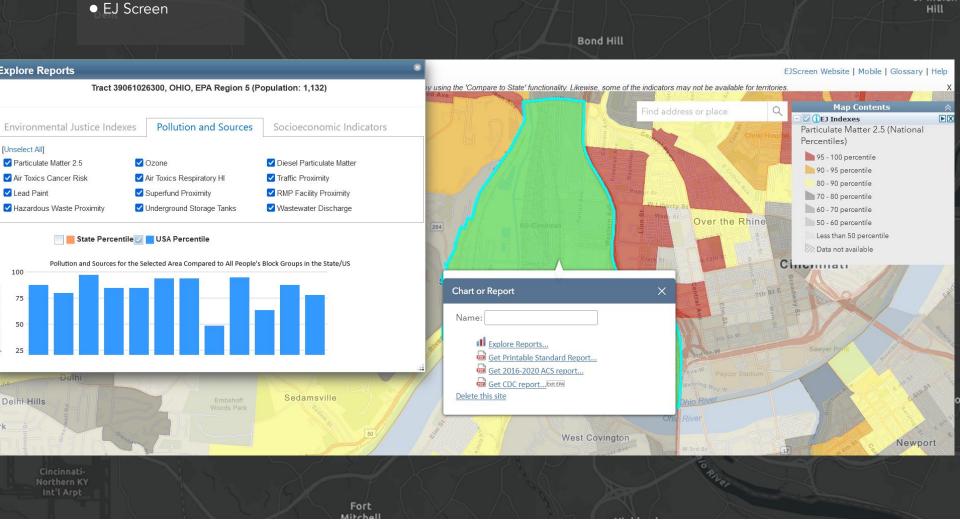


North College Reading

Sycamore

Evaluation of environmental vulnerabilities

The Village of Indian Hill



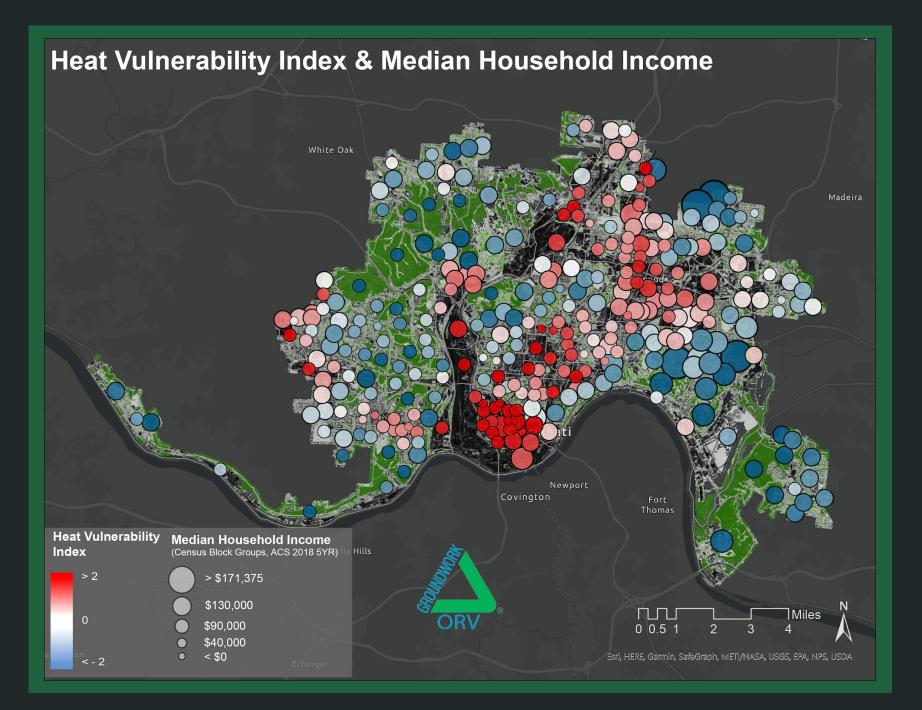
Climate Equity Indicators

Urban Heat Islands

Climate impacts do not hit everyone or every neighborhood equally

Urban Tree Canopy 87.81 78.9'F 24% Mode Boundary 18%8% 9% 10% 2010 Existing Canopy by Community < 10% 11 - 20% 21 - 30% 25 31 - 40% 41 - 67% KAPWA CONSULTING adaptation • EQUITY SUSTAINABILITY COMMUNITY





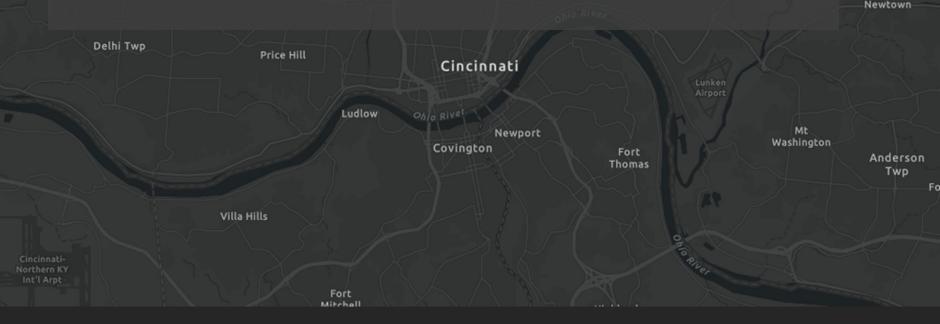
Kenwood

The Village of Indian

Ongoing CSN GIS

Advocacy and education

- <u>CSN Dashboard</u>- presenting easy to digest data related to climate change.
- Combine EJ Screen data with community members' lived experiences





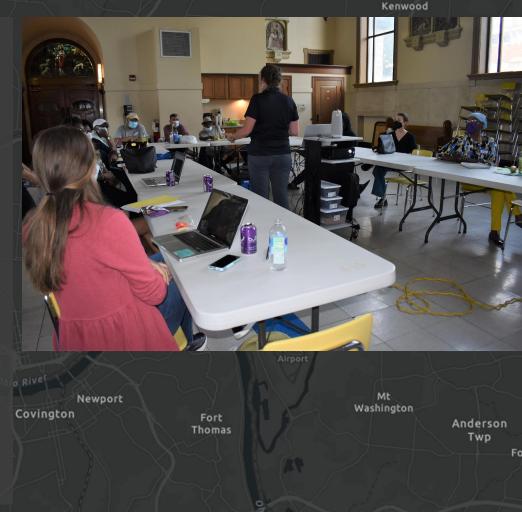
Climate Advisory Group

ycamore Twp

- An intensive climate cohort designed to elevate community voices in planning processes.
- CAG members are paid to participate in meetings.

• Goals

- 1. Understand climate change and its impacts in their neighborhood.
- 2. Create a Climate Resiliency Plan that meets the needs of their community.





Bond Hill + Roselawn Climate Advisory Group

Dat	
е	Торіс
10/27	Roselawn + Bond Hill History & Current Priorities
11/3	Climate Change Intersectionality
11/10	Climate Change Adaptation
11/17	Local Climate Work
12/1	Resilience Map Review and Vote
12/8	Community Listening Session

Examples of homework: neighborhood surveys, climate impact mapping, climate adaptation mapping

The Village of Indian

Newtown

Anderson

Twp

Mapping activities

Mapping Activity 1: Neighborhood Observations & **Experiences** \boxtimes

Instructions.

There are a wide variety of ways that climate change will impact Roselawn and Bond Hill; these will exacerbate already existing issues. For the next two weeks, mark on he map using the symbols where you notice issues listed in the legend to the right. If there is an issue that you think we should know about but isn't listed in the legend, please add it anyway.

Take pictures of your impact maps and send them to Kelsey at khawkins-johnson@groundworkorv .org or text them to 513.301.0310 by 5pm, Monday (11/8)

Additionally, there is a drop box at the Bond Hill Community Center for the physical copies at the front desk. You will have to tell the front desk staff that you are a part of the Climate Advisory Group.

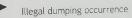
CHANGING LIVES

LEGEND:

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- Landslide Occurrence
- Flood Occurrence inside of building
- Street Flooding occurs following rainfall
- Area is noticably hotter than <u>-%</u>the rest of the neighborhood

Ability to breathe worsens in this area due to air pollution



- Pedestrian Hazard: Dangrous intersection
- Pedestrian Hazard: No sidewalk, M difficult to walk along the road
 - Retaining wall crumbling or in disrepair

(if other):

Mapping Activity 2: Adaptation Recommendations

Instructions:

There are a wide variety of ways that climate change will impact Roselawn and Bond Hill: these will exacerbate already existing issues. For the next two weeks, mark on the map using the symbols where you notice issues listed in the legend to the right. If there is an issue that you think we should know about but isn't listed in the legend, please add it anyway.

- When you get into the climate impacts surveys with your neighbors, make sure to add their observations to the map!
- Take pictures of your impact maps and send them to Kelsey at khawkins-johnson@groundworkorv.o rg or texting them to 513.301.0310 by 5pm, Monday (11/8)

Additionally, there is a drop box at Community Center for

LEGEND:

Street Trees

Rain Garden

Community Greenspace

₹₿} Community Garden

Green Roof



Green Parking Lot



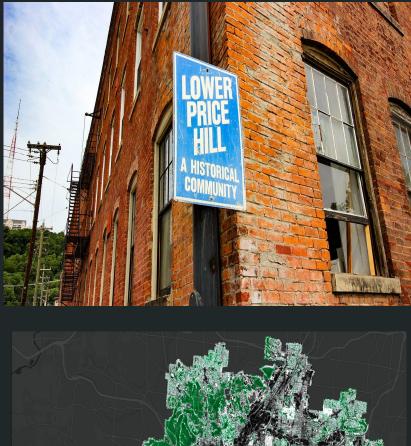
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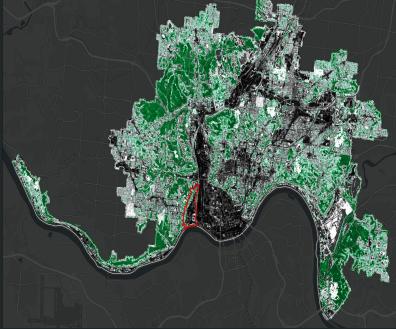




Climate Safe Neighborhood Profile: Lower Price Hill

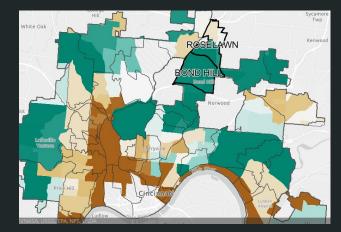
- 93% live below poverty line
- Food desert
- One of the lowest life expectancies in the city
- Most racially diverse neighborhood in the city
- Queen City Barrel Fire





Climate Safe Neighborhood Profile: Roselawn & Bond Hill

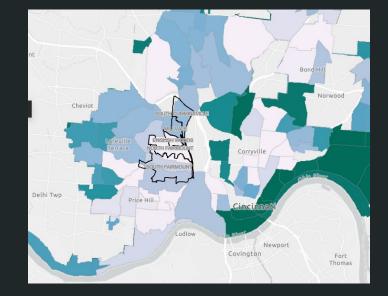
- 40-60% live below poverty line
- Predominately Black American neighborhoods (85-96%)
- High traffic volume
- Low walkability
- Flooding
- \circ Some of the lowest life expectancies in the city (72)
- Blockbusting and white flight
- Low green space (30th and 28th) and tree canopy (40th and 42nd) (Maketwah Country Club).
- Many brownfields
- Lead in soil





Climate Safe Neighborhood Profile: Beekman Corridor

- 40-60% live below poverty line
- Predominately Black American neighborhoods (50-93%)
- High traffic volume
- Low walkability
- Flooding
- Some of the lowest life expectancies in the city (66-72)
- Lunkenheimer brownfield

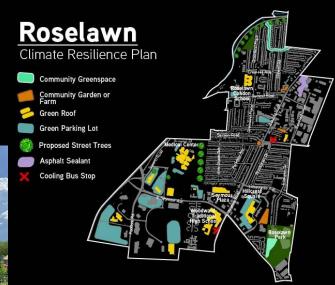












Bond Hill + Roselawn in Action

- Partnerships with community organizations
 - (Great Parks Summit Nature Center and Community Council:
- Spring Tree Giveaway
- Education & Outreach (Soil Testing with UC)
- Media Coverage from Spectrum News and Cincinnati Enquirer.



Margaux Roberts, pictured Thursday, June 30, 2022, in Bond Hill, is Groundwork Ohio River Valley's community organizer for the Bond Hill and Roselawn neighborhoods. Stephanie Scarbrough/The Enquirer



Avondale CAG

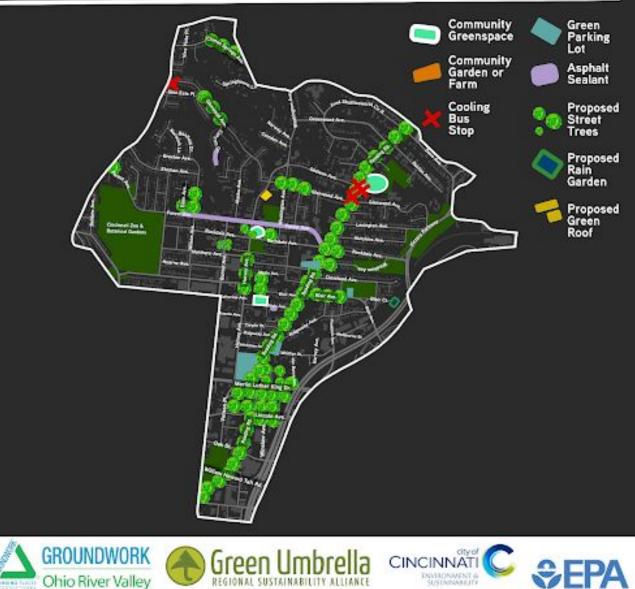


Resilience statement

"We believe that a sustainable community is one that is economically viable, socially equitable, and ecologically integrated. Our community can become what we deserve. We are committed to taking action to protect our environment, improve our quality of life, and create a better future for our residents and businesses. Awareness is key to empowering Avondale families for better health. We hope to achieve climate justice for all residents of Avondale."



Avondale Neighborhood Climate Action Plan



REGIONAL SUSTAINABILITY ALLIANCE

Ohio River Valley

CREATE AN AVAILABLE

ENVERONMENT &



Norwood CAG



Resilience Statement

"As citizens of the city of Norwood, this Climate Advisory Group seeks to create an actionable climate resilience plan that provides a system through which we are able to address the unique climate issues that our community faces both today and into the future. No matter your ward, age, sex, or creed, these issues impact us all. We understand that green infrastructure is an essential tool in enhancing our community's ability to adapt to the impacts of climate change. Specifically, West Norwood will encourage residents to utilize available resources like solar power, rain collection, composting, and fellow community members. We will work toward correcting past missteps in hopes of alleviating flooding issues, as well as creating a pleasant environment for all residents to enjoy."



Norwood Ward 1 Climate Action Plan

Norwood Ward 4 Climate Action Plan



COOL!!!





Green Umbrella

€EPA

NORWOOD

COOL!!!



CSN & Policy

Pursuing Equity in Climate Planning





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