Community Development

Table of Contents

Who, What, When, Where and Why of a Rapid Climate Vulnerability Assessment	2
RCVA Planning Process	2-3
Putting the RCVA tool to Work	4
Step 1	4
Step 2	4
Step 3	[
Step 4	ć
Outputs from an RCVA Process	6
Tips and lessons from communities that applied the tool	ć
Appendix A: Worksheets	7-9
Appendix B: Assessment Summary	10
Appendix C: Climate Infographics	1-12
Appendix D: Sample RCVA Workshop Agenda	13
Appendix E: Resource List	14

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Why we created this Rapid Climate Vulnerability Assessment (RCVA) tool.

Communities are places of family, friends, culture, work and play – and they are under tremendous stress. From record development in some places to disinvestment in others, communities are addressing increased traffic and air pollution, aging infrastructure, a lack of affordable housing while facing increased exposure to climate change in the form of flooding, drought, and extreme temperatures. As climate change and its effects grow, the way communities are structured and built becomes more important in counteracting and preventing those effects – for the health and safety of all residents.

RCVAs enable people to see where community vulnerabilities intersect with climate stressors. Vulnerability assessments aren't new. Natural resource managers have been using them to document and adapt to climate change events for over a decade. But use of an RCVA by communities for local planning (development, services, resources) is just beginning. This particular tool was developed for the Strong, Prosperous and Resilient Communities Challenge (SPARCC) to create climate-savvy investments that perpetuate inclusive, equitable, sustainable community development practices that also contribute to community health and well-being. Designed and piloted with some SPARCC communities, the RCVA allows users to quickly identify core challenges, immediate interventions, and resources to support climate informed actions going forward.

What is an RCVA?

This RCVA is a simple, four-step process designed to evaluate community vulnerability to climate change while collaboratively finding solutions. The RCVA starts with the community members' existing local goals and priorities, and helps communities make connects between people and the environment by considering how their activities might be affected by the many impacts of climate change—from hotter summers to rising seas. By considering both existing stressors relating to health, equity or any other community priorities, and the effects of climate change, RCVAs enable people to understand how climate change directly affects their lives. Once those initial links are made, community members collaborate in the workshop (and after) to address

vulnerabilities and foster what the community cares about. That leads to decisions about investment and revitalization that support all members of the community, including the most vulnerable, to better withstand the effects of climate change. RCVAs provide a common language so leaders and advocates across the housing, transportation, environmental, health and social justice fields can collaborate.

Who uses an RCVA?

An RCVA is not conducted for a community, but by a community. Anyone can undertake an RCVA, although they are typically initiated by cities or other regional planning authorities. Increasingly, there is a need for community-focused RCVAs as participation and buy-in across diverse stakeholders results in more equitable solutions, which can be critical for community resilience. The perspective of residents and local leaders in community-focused RCVAs to build solutions grounded in community history and local assets often not represented in external assessments.

What are some examples of how RCVAs have worked in a community?

In Atlanta, community organizations and community members used knowledge gained through the RCVA to foster climate resilient community planning in the Lee Street Corridor in the southwest part of the city. They want to ensure that residents have healthier housing with greater energy security, and that new trees planted in the neighborhood will be able to withstand hotter climates with less predictable precipitation patterns.

In Chicago, where temperatures are projected to increase ~1.4°C by 2040, an RCVA identified the need to explore poor air quality hotspots in residential neighborhoods. For those neighborhoods with high rates for asthma, especially in children, more hot days will create even bigger health concerns. Proposed solutions included advocating for requiring clean freight transportation best practices, planting hedges around new developments to improve air quality, requiring clean air stipulations and community benefits for new developments, and encouraging residents to check air quality before going outside.

What does an RCVA process look like?

Using readily available climate data, local knowledge and simple worksheets, RCVAs guide you from awareness of the risk from climate change for your work to collaboratively developing durable solutions to reduce that risk, while creating a just, healthy and sustainable future.

You have goals. Will climate change undermine your outcomes? Identify the climate change factors that may affect your goals

Identify the non-climate change factors that may affect your goals Assess how these factors will affect your goals and how they interact Determine what to do to overcome adverse climate change impacts

Outcomes are durable despite changes in climate

4 STEPS TO A CLIMATE SAVVY COMMUNITY

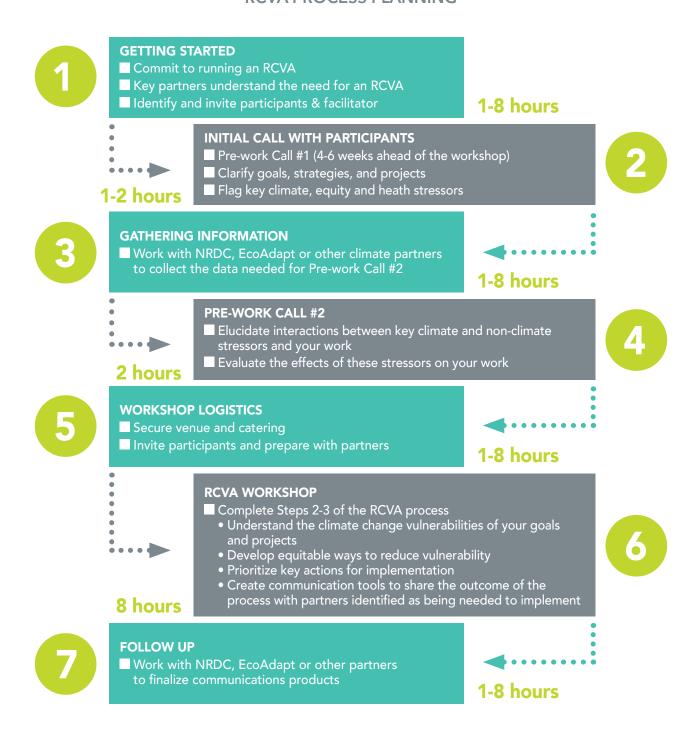
1 4 STEPS TO A CLIMATE SAVVY COMMUNITY

What do you need to get started?

- 1. An existing goal
- 2. Access to locally relevant projections (Use Climate Explorer or the other resources in Appendix E)
- 3. A cohort of partners who are interested in developing a climate-informed plan for achieving your goals. The RCVA process can be conducted as an in-house exercise or it can be undertaken with local stakeholders in a workshop. **Appendix D** provides a sample agenda and supporting guidance for undertaking a workshop. Use the Infographics in **Appendix C** to explore some possible risks of climate for your collective goals.

How do I plan for an RCVA Workshop?

RCVA PROCESS PLANNING



Putting the RCVA tool to work: Using the worksheets to guide solutions

The RCVA worksheets were designed to guide you (alone or with a facilitator) through a 4-step process of identifying climate, health, and racial equity stressors in your community, exploring the ways in which they intersect with each other, how they affect your existing goal or project, and evaluating options to reduce the identified vulnerabilities.

For a community-driven assessment, it is important to consider both climate and non-climate stressors. While participants ground themselves in examining climate exposures, non-climate impacts (such as social determinants of health, racial equity stressors and displacement) are explicitly considered, along with the interactions between them all.

ISSUE AREA + CLIMATE IMPACTS + VULNERABILITIES → IDENTIFY ADAPTATION STRATEGIES

The four worksheets (Appendix A) support the process and the application of the findings from the process.

STEP 1: CLARIFY A GOAL AND HOW YOU ARE ACHIEVING IT

What is your existing organizational or project goal? What strategies do you use to achieve that goal (e.g., what activities are you undertaking)?

EXAMPLE OF A COMPLETED STEP 1 WORKSHEET

Goal	Development of transit accessible, affordable housing near green space
Strategy 1	Build or aquire new housing units along transit lines
Strategy 2	Secure open space designations in target communities
Strategy 3	Support a coalition of affordable housing advocates

STEP 2: IDENTIFY CLIMATE AND NON-CLIMATE STRESSORS

From the list provided, select the most relevant climate and non-climate stressors from each category (climate, health and equity). If you need more information to do this, explore the resource list in **Appendix E**.

EXAMPLE OF A COMPLETED STEP 2 WORKSHEET

G O A L	S t r a t e g y	S t r a t e g y	S t r a t e g y	Climate Stressors	GOAL	Strate gy	Strate gy	Strategy 3	Pre-existing Conditions: Non-Climate Health Stressors	GOAL		S t r a t e g y		Pre-existing Conditions: Non-Climate Equity Stressors
X	X	X	X					X		X	X			Gentrification/Displacement
		X											X	
	X												X	
	X		X					X						
		X												
				Other (e.g., ocean acidification):	X		X			Х	X		X	
								X						
									Other (e.g., language access, pandemic):					
														Other (e.g., ICE raides):

4 STEPS TO A CLIMATE SAVVY COMMUNITY

3 4 STEPS TO A CLIMATE SAVVY COMMUNITY

3: IDENTIFY VULNERABILITIES AND DEVELOP POSSIBLE SOLUTIONS

evaluate the vulnerabilities of the stated goals and strategies in order to identify potential solutions to

- n 2. These are your vulnerabilities.
- process to ensure they are climate-savvy, healthy and Collect your answers from Steps 1 and 2.

 Enter your Step 2 answers into the three appropriately labeled boxes in Column 2.

 Step 2 answers are entered into the three appropriately labeled boxes in Column 2.

 In Column 3, briefly consider how climate change interacts with the equity and health issues listed in Columr In Column 4, describe how the individual stressors or their interactions may affect your goals and strategies. In Column 5, develop a suite of possible solutions to reduce these identified vulnerabilities.

 Evaluate and prioritize your solutions. Consider evaluating your solutions through this process to ensure they

equitable.

	Possible Solutions	plans, making them accessible for residents and neighbors. • Meet or exceed weatherization guidance to ensure affordability of housing into the future (for the lifetime of the housing) • Include passive heating/cooling in housing design to ensure long-term affordability and safeguard against emergency outages rending housing unlivable. • Include passive heating/cooling in housing design to ensure parks, street trees) in community design requirements. • Design non-motorized transit corridors and mass transit waiting areas to be shaded to ensure suitability during the heat. • Convene community meetings in locations-that are accessible through shaded corridors, at time that are less environmentally (as well as socially) challenging, and reach out to those that cannot attend due to heat, bad air, flooding, work childcare, etc. • Nork to transition mass transit to carbon-free modes (e.g., electric powered by renewable energy). • Incorporate local power generation in project design to reduce energy costs permanently. • Include climate education in community engagement.	Evaluate and prioritize solutions (Circle) those that best fit your goal or are most critical
	Effects and Vulnerabilities (Climate + Equity + Health)	People who may already be experiencing gentrification pressure from new, green development will have this challenge compounded with fewer options to escape the stress from higher temperature and heat vulnerability. Lack of open space/green infrastructure gives water nowhere to go, which increases duration of flooding events and reduces connectivity. More warm days and lack of nonmotorized or mass transit options leads to increased desire to use individual cars to reduce heat and bad air exposure, exacerbating the problem by increasing air pollution and user cost. Less community participation leads to fewer climate savvy decisions being made.	Underline the effects of greatest consequence
ET	Physical Manifestation of Climate Change	Increasing need for cooling, which can reduce affordability of unweatherized or poorly designed housing. Heavier precipitation (or sea level rise) leads to flooding. Higher temperatures and air pollution result in further bad air quality. More inclement weather decreases community engagement and participation.	egy to stressors to ions.
EXAMPLE OF A COMPLETED STEP 3 WORKSHEET	Factors affected by or affecting your project focus	Equity and Social Stressors Gentrification/Displacement Limited Transportation Access Lack of good housing stock Health Stressors Lack of access to greenspace Air pollution Connectivity/Mobility Connectivity/Mobility Storminess/Extreme Weather Storminess/Extreme Weather Altered precipitation Altered precipitation Altered precipitation	Draw lines to show cennections from goal/strategy to stressors to manifestations to effects to solutions.
EXAMPLE OF A COI	Project Goals and Strategies	Goal: Development of transit-accessible, affordable housing near green space new or improve existing housing units along transit lines Secure open space designations in target communities Support a coalition of affordable housing advocates	Draw lines

STEP 4: EVALUATE SOLUTIONS TO REDUCE VULNERABILITY

Use this worksheet to determine how you would implement the solutions identified in Step 3. In Step 4 Column 1, list each circled priority solution from the final column of Step 3.

EXAMPLE OF A COMPLETED STEP 4 WORKSHEET

Solution	Solution Description	How to implement (including policy needed)	Partners and Resources Required	Potential for Success (L,M,H)	How do you measure success? (data needed and source)	Timeframe (e.g., immediate, 5 years, long-term)
Cooling centers	Include community cooling centers in development plans, making them accessible to residents & neighbors	• Make an RFP requirement • Improve local code standards	 Community centers Emergency preparedness Planning office Developers Financers 	Н	 Creation of cooling centers Fewer heat related illnesses or mortalities 	5-10 years
Meet or exceed weatherization guidance	Meet or exceed weatherized guidance to ensure affordability into the future for the lifetime of housing	· Improve state utility programs, especially for low-income and apartment housing	Planning office Developers Financers Energy efficiency orgs	М	 Better weatherization Lower energy bills, more comfortable interior temperatures for occupants 	1-5 years
Include green infrastructure in design	Incorporate green infrastructure (e.g., bioswales, green parks, street trees) in community design requirements	Offer green workforce training Implement local hiring standards	 Planning office Developers Sewer departments Water quality groups 	Н	Green infrastructure projects implemented Fewer flooding events	1-10 years
Design shaded non-motorized transit corridors & mass transit stops	Design shaded non- motorized transit corridors & mass transit waiting areas to ensure usability during heat events	 Make an RFP requirement Map transit route temperatures 	 Planning office Transit department Transit advocacy groups Health organizations Schools 	М	 Installation of shade at transit stops Creation of shaded non-motorized transit corridors Shaded sites are cooler than unshaded locations 	Immediate & S-10 years

Potential Outputs from an RCVA Process

- The Tables. A set of completed tables is not only good for remembering how you developed your ideas, but they can be useful training others.
- An Assessment Summary. Sometimes it is helpful to have a more formal summary of the outcome of the RCVA process. Such a summary can be brief (Appendix B) or it can be a longer document that includes references to all supporting materials.
- Inclusion in other Plans and Processes. The best way to ensure the RCVA outcomes are applied is to include the solutions developed in a workplan or planning document that is part of already required work and management activities.

Tips and Lessons from communities that applied the tool

- The process can be applied as a thought exercise with information on hand or it can include a rigorous data and mapping analysis. A full analysis provides significant useful information, however applying the tool with even local experience can be valuable and may encourage more communities to undertake an RCVA process. In either case the RCVA has led to greater inclusion of climate in local planning.
- Identify a local point of contact on the project team to organize workshop activities, and just as importantly, to lead postworkshop follow-up to ensure that outcomes and next steps become implemented actions.
- Encourage participants to stay present for the full workshop. The tool provides a step-by-step process for understanding and addressing vulnerability. Leaving early or joining late loses the continuity and direction that the RCVA process provides.
- Facilitators and participants recognize the unique value that each person brings to the table. Leave time for all participants to share their expertise, personal, and professional stories and experience with climate vulnerability in their community.
- Remind participants to keep sensitive information confidential.

APPENDIX A: WORKSHEETS

STEP 1 WORKSHEET: CLARIFY A GOAL AND HOW YOU ARE ACHIEVING IT:

What is your existing organizational or project goal? What strategies do you use to achieve that goal (e.g., what activities are you undertaking)?

Goal	
Strategy 1	
Strategy 2	
Strategy 3	

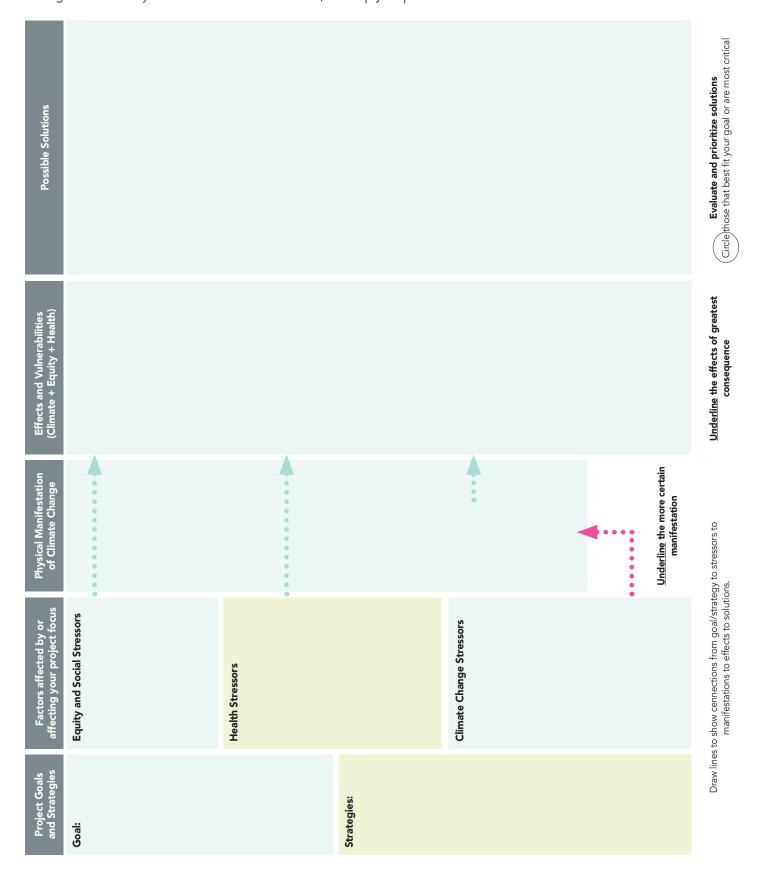
STEP 2 WORKSHEET: IDENTIFY EMERGING CLIMATE AND PRE-EXISTING NON-CLIMATE STRESSORS:

From the list provided, select the most relevant climate stressors and pre-existing non-climate stressors from each category (climate, health and equity).

GOAL	S t r a t e g y	S t r a t e g y	S t r a t e g y	Climate Stressors	GOAL	S t r a t e g y	g y	у	Pre-existing Conditions: Non-Climate Health Stressors	Α	У	S t r a t e g y	У	Pre-existing Conditions: Non-Climate Equity Stressors
														Gentrification/Displacement
														Homelessness, Poverty, wage theft, declining social safety net
														Economic Insecurity/Un/underemployment
														Limited utility access (electric, internet, phone)
														Limited goods and services access
				Other (e.g., ocean acidification):										Limited transportation access
														Unmaintained/constrained/missing infrastructure
														Lack of good housing stock
									Other (e.g., language access, pandemic):					Insufficient neighborhood quality
														Other (e.g., ICE raides):

STEP 3: IDENTIFY VULNERABILITIES AND DEVELOP POSSIBLE SOLUTIONS:

Insert answers from STEP 1 and 2 in Columns 1 and 2, respectively. In Column 3, briefly consider how climate change will interact with health and equity. In Column 4, describe how the individual stressors or their interactions may affect your goals and strategies. These are your vulnerabilities. In Column 5, develop your possible solutions to reduce those vulnerabilities.



STEP 4: EVALUATE SOLUTIONS TO REDUCE VULNERABILITY

List each circled priority solution from the final column of STEP 3 in Column 1 of STEP 4. Use this worksheet to determine how you would implement each solution.

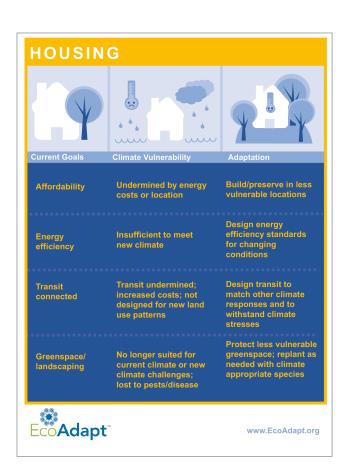
Timeframe (e.g., immediate, 5 years, long-term)		
How do you measure success? (data needed and source)		
Potential for Success (L,M,H)		
Partners and Resources Required		
How to implement (including policy needed)		
Solution Description		
Solution		

APPENDIX B: ASSESSMENT SUMMARY		
There are many ways to summarize your assessment.	This form provides a simple option. You may choo	ose another.
The [] asses	ssed the vulnerability of [] due t
City, Neighborhood, or Group Name	location	
climate change stressors including [
	climate change stressors selected in Step 2	
Our ability to [d by [
goal or strategy listed in	s Step 1	
projected or obse	rved effect from Step 3	
		a non climato hoalth an
	j. LAISUIII	g non-climate nearth an
equity stressors affecting this project include [
	non-climate health and equity stressors from St	tep 2
]. They current	tly [
effects of these nor	n-climate health and equity stressors from Step 3	
Climate change may interact with these non-climate h		interactions from Step 3
	•	
]. The v	unerability identified as
being of greatest concern was [
	underlined effects of greatest consequence from Step 3	
•••••		••••
This project will not be affected by these vulnerabi	lities because	
_		
These vulnerabilities are of concern, particularly [_		
	include example of an effect of the climate stress on the lo	cation or project, could
include an interaction with a non-climate stressor.]. Adaptation strategies that	t can be implemented to
		,
reduce this vulnerability, include [adaptation strategy from Step 4	
In order to implement this strategy we will need [dauptation addings, not to be	
In order to implement this strategy, we will need [partners, funds, mandate or other features identified in St	ер 4
needed to bring about implementation, or indicate that it could be	done internally with resources already on hand	
To make this happen, we are [
·	to implement this strategy, including possible opportunities as	ssociated with upcoming

4 STEPS TO A CLIMATE SAVVY COMMUNITY 4 STEPS TO A CLIMATE SAVVY COMMUNITY 10

planning cycles or refinement of current work plan activities













APPENDIX E: RESOURCE LIST

SAMPLE AGENDA:

8:30 AM Breakfast

9:00 AM Welcome and Orientation to the Day

Introduction to the overall goal of process and the day

Introductions around the room or table—consider doing this as part of an energizer activity

9:30 AM How Climate Savvy are you?

Interactive presentation to understand the opportunities created by considering climate in your work,

includes example actions

10:00 AM Pre-work Presentation

Create agreement and common understanding of topics to be covered based on results from

RCVA STEP 1 and 2. Review pre-work results for all present

10:30 AM Resource Pool

Offer examples of the types of data resources available to advise the RCVA process. Invite those

present to share additional resources. Demonstrate how to use the most relevant.

11:00 AM Rapid Climate Vulnerability Assessment (Breakout Groups)

Evaluate your vulnerability by completing the first four columns of RCVA STEP 3 in breakout groups

with common goals.

12:30 AM LUNCH

This can be a working lunch if the Assessment step is still underway.

1:30 PM Identifying Adaptation Actions to Reduce Vulnerability (Breakout groups)

In the same breakout groups, discuss local actions (in the context of your existing goals and activities)

that can be taken to reduce the identified vulnerabilities.

2:30 PM Prioritization of Actions (Plenary)

Breakout teams report back on their list of potential adaptation actions to reduce the vulnerability of

their work to climate change. Look for opportunities to collaborate across solutions and discuss how

to prioritize actions.

3:00 PM BREAK

3:15 PM Next Steps (as Breakout Groups or Plenary)

Determine what needs to happen to accomplish your priority actions with the help of the

STEP 4 table.

4:00 PM Group Exchange (Plenary)

Agree on priority actions and how they will be implemented.

4:45 PM Thanks and Appreciation

Explicitly thank all who attended and will make the work happen going forward.

5:00 PM Adjourn

Materials needed for workshop:

- Venue: plenary space and at least tables for breakout groups (one room can be sufficient)
- Food: breakfast, lunch and snacks (It's a full day)
- Audio/Visual: Projector, screen, computer, wifi
- RCVA worksheet packets (comprised of Appendices A and B) one per participant
- Copies to share (one per breakout group) of key resources and supporting documents Maps and local data

Climate infographics (Appendix C)

- Markers and highlighters in at least two different colors
- Flip charts (one per breakout group)
- Sign-in sheet so you can stay connected after the event and check in on progress

CLIMATE DATA

- Climate Explorer https://crt-climate-explorer.nemac.org/ Access county level climate data to help you evaluate what change will look like in your community. This includes temperature and precipitation projections.
- NOAA Sea Level Rise Viewer https://coast.noaa.gov/slr/ A web mapping tool to visualize community-level impacts from coastal flooding or sea level rise.
- Climate Central Surging Seas Risk Finder https://riskfinder.climatecentral.org/

Provides local information to help you understand and respond to the risks of sea level rise and coastal flooding, includes social vulnerability data and contaminated sites in some regions.

ADAPTATION AND VULNERABILITY

 Climate Adaptation Knowledge Exchange https://www.CAKEx.org

An online database and networking resource for the adaptation community, with vulnerability assessments, adaptation plans and case studies from communities with challenges similar to yours.

- Communities and Resilience: A New Way to Measure
 Vulnerability http://www.sparcchub.org/2018/12/21/rcva/
 This article gives perspective on using the RCVA.
- Georgetown Climate Center Adaptation Clearinghouse https://www.adaptationclearinghouse.org/
 An online database and networking site that serves policymakers and others who are working to help communities adapt to climate change.
- NRDC Guide to Community Climate Vulnerability
 Assessments

A primer for communities and community partners on how to complete a climate vulnerability assessment, including developing a vulnerability index, which allows for visualization of potential vulnerabilities in a map.

EQUITY AND CLIMATE

- NAACP Equity and Resilience https://bit.ly/2PvGRXb
 A sample list of indicators/measures of vulnerability and
 resilience to foster equitable adaptation, relating to
 infrastructure, community, policies, services, protocols,
 governance, and decision making.
- Guide to Equitable, Community Climate Preparedness https://bit.ly/39i1fmR
 Guidance to local governments in designing and implementing a more inclusive, equitable planning process.
- Climate Justice Alliance https://climatejusticealliance.org/ Building local alternatives that center traditional ecological and cultural knowledge, and create a pathway for a regenerative future.

- Thriving Earth Exchange http://thrivingearthexchange.org/ Thriving Earth Exchange is a platform with tools, resources and opportunities that help projects from collaborative idea formulation to implementing co-designed solutions.
- Planning for an Equitable Los Angeles: A Guide to Shaping LA's New Community Plans https://bit.ly/3a7FnKA
 A guide for community-based organizations and residents to advance equitable development through active engagement of community plan update processes.
 Created for Los Angeles but applicable broadly.
- Climate Adaptation Knowledge Exchange Equity Resource Page

https://www.cakex.org/resources/sector/climate-justice-481 A consolidated search of all of CAKE's climate and justice related content, including case study examples of adaptation that includes climate justice, as well as guidance, tools and relevant experts.

• Georgetown Climate Center Clearinghouse Adaptation Equity Portal

https://www.adaptationclearinghouse.org/networks/adaptation-equity-portal/

A membership portal to support policy focused on the physical impacts of climate change and how they can support rather than further harm frontline communities.

HEALTH AND CLIMATE

- CDC Climate and Health Resources https://www.cdc.gov/climateandhealth/default.htm Outlines effects of climate change on health and the CDC Building Resilience Against Climate Effects framework.
- Center for Climate Change and Health http://climatehealthconnect.org/
 Provides resources such as an action framework; climate change, health, and equity guides for health departments and physicians; and climate and health posters.
- Climate Adaptation Knowledge Exchange Public Health Resource Page https://www.cakex.org/resources/sector/public-health-492 A consolidated search of all of CAKE's climate and health related content, including case study examples of healthrelated adaptation, guidance, reports on public health impacts, tools and relevant experts.
- Georgetown Climate Center Adaptation Clearinghouse Health Resource Page:
 https://www.adaptationglearinghouse.org/sectors/public

https://www.adaptationclearinghouse.org/sectors/publichealth/

Resources to help policymakers understand, plan, and prepare for the impacts of climate change on public health systems, including planning guides, reports on public health impacts, and best practices for public health response.