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# Village of Wappingers Falls: Climate Adaptation and Resilience Survey

The Village of Wappingers Falls is seeking your input on its climate action planning process, which includes a Climate Vulnerability Assessment and Adaptation Plan. Please share your observations, concerns, and ideas by filling out this anonymous survey to the best of your ability. Please consult the Village website to learn more: <https://wappingersfallsny.gov/climate/>. If you choose to complete this paper copy, please return it to the Village Hall or Grinnell Public Library once completed.

Note: This survey is for residents of the Village of Wappingers Falls only. Please only complete this survey once, and if you have already completed it in a different format or language, please do not complete it again.

Additionally, your written responses may be anonymously shared in the final Climate Vulnerability Assessment and Adaptation plan document for the Village of Wappingers Falls. Thank you!

## Impacts of Climate Change on Wappingers Falls

**Q1:** Over the past 10 years, which of the following natural hazard events have you experienced in Wappingers Falls? *Check all that apply.*

- Extremely hot days (maximum temperature of 95°F or hotter)
- Heat wave (5+ days of 95°F or hotter temperatures)
- Flooding - Roads, land/yard, stormwater
- Flooding - Basement
- Flooding - First floor or above
- Severe storms (tornado, thunderstorm, hail, high wind, hurricane)
- Severe winter weather (blizzard, freezing rain)
- Poor air quality
- Drought
- Wildfire
- None

**Q2:** Due to climate change, Wappingers Falls is expected to experience higher temperatures and more extreme heat events than it used to. What is your level of concern about the following impacts/aspects of rising temperatures and extreme heat events in Wappingers Falls? *Please check only one response per row.*

	Not concerned	Somewhat concerned	Moderately concerned	Very concerned	Extremely concerned
Hotter temperatures in downtown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Health risks (heat stress, mental health impacts, worsening chronic illness)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loss of electricity due to overloading of the electrical grid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Higher energy bills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Threats to the health and survival of trees, wildlife, and natural areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cancellation of community events and outdoor recreation programming	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increased pests (e.g. ticks, mosquitoes) and invasive species in the Village	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Poor air quality, particularly in combination with wildfire smoke	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage to medical equipment and prescription medicines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Childcare provision (in case of school/program closures, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Cooling shelter accessibility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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**Q3 (Optional):** For **rising temperatures and extreme heat events**, are there other impacts on people, critical infrastructure, ecosystems, the economy, or government services that concern you that we did not ask about in this survey? If so, share them here.

**Q4:** Due to climate change, Wappingers Falls is expected to experience more heavy rainfall and flooding than it used to. What is your level of concern about the following impacts/aspects of **heavy rainfall and flooding** in Wappingers Falls? *Please check only one response per row.*

	Not concerned	Somewhat concerned	Moderately concerned	Very concerned	Extremely concerned
Flood damage to public buildings, infrastructure, homes, and businesses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reduced water quality due to polluted runoff and sediment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage to water and sewer infrastructure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trail wash-outs and damage to parks/green spaces	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Road wash-outs, flooding, blockages, closures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increased emergency response time/disruption of essential services (social, medical, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Supply chain disruptions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage to medical equipment and prescription medicines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Childcare provision (in case of school/program closures, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access to temporary housing accommodations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q5 (Optional):** For **heavy rainfall and flooding**, are there other impacts on people, critical infrastructure, ecosystems, the economy, or government services that concern you that we did not ask about in this survey? If so, share them here.

**Q6:** Due to climate change, Wappingers Falls could experience more frequent and intense **severe storms** than it used to. What is your level of concern about the following impacts/aspects of **severe storms** in Wappingers Falls? *Please check only one response per row.*

	Not concerned	Somewhat concerned	Moderately concerned	Very concerned	Extremely concerned
Storm damage (due to e.g. high winds, snow) to public buildings, infrastructure, homes, and businesses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Downed trees/power lines/traffic lights/streetlights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Road blockages and closures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Increased emergency response time/disruption of essential services (social, medical, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Supply chain disruptions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reduced water quality due to salting of roads and sidewalks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage to medical equipment and prescription medicines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Childcare provision (in case of school/program closures, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access to temporary housing accommodations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q7 (Optional):** For **severe storms**, are there other impacts on people, critical infrastructure, ecosystems, economy, or government services that concern you that we did not ask about in this survey? If so, share them here.

## Disaster Preparedness

**Q8:** How do you receive information about natural disasters (e.g. heat wave, winter storm)? *Check all that apply.*

- Internet
- Social media
- Village website
- Village newsletter
- Village notification system- <https://public.govdelivery.com/accounts/NYVWAPPINGERSFALLS/subscriber/new>
- TV news
- Radio news
- Print newspapers
- Friends/family/neighbors
- Dutchess County Emergency Notification System
- Dutchess County e-bulletins
- Dutchess County Department of Public Safety mobile app
- Other: \_\_\_\_\_

**Q9:** Which language(s) do you and your household prefer to receive emergency information in? *Check all that apply.*

- English
- Spanish
- Other (*please specify*)

**Q10 (Optional):** If you chose "Other" for Q9, please specify: \_\_\_\_\_

## Adaptation Measures

**Q11:** Wappingers Falls believes it is important to prepare for and adapt to climate change. What is your level of support for the following adaptation measures in the Village? *Please check only one response per row.*

	Not supportive	Somewhat supportive	Very supportive
Measures that strengthen the protection of our recreational areas, open spaces and natural assets, including parks and water ecosystems (such as Wappingers Lake) through policy, codes, & standards.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Measures directed at better understanding and strengthening the protection of Wappingers' drinking water through groundwater studies and potential additional protections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Replacing or updating aging water distribution and/or sewer systems and potentially consolidating wastewater treatment. (Example: switching residents with septic tanks to the municipal system.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Measures to improve energy resiliency (example: constructing an "islanded microgrid" that utilizes a variety of energy sources and is less vulnerable to storm damage), constructing backup generators at emergency centers/shelters, and/or transitioning to buried power lines.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Measures to manage and restore the village's natural ecosystems, such as planting trees and vegetation along streams/creeks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
More educational initiatives within the Village on how residents can prepare for hazards/emergencies and access flood insurance, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Continue on following page.			

Measures to address flooding in the municipality, such as restoring ecosystems along streams/creeks, updating storm drainage networks and retention basins, and “green infrastructure” to reduce runoff.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood management efforts that allow local government more control over flood-prone areas (such as a zoning amendment to control development in areas with steep slopes to prevent runoff and municipal purchase of waterfront properties that are up for sale).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Updating emergency plans to include potential implementation of additional emergency centers/shelters (like cooling centers) with emergency power supplies (Note: current cooling centers include Town of Poughkeepsie Town Hall, Town of Wappinger Town Hall, Adriance Library, and the Police Station).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expanding support to local social service organizations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reviewing and updating multi-lingual communication platforms that provide advanced warning as part of emergency response.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Building and strengthening partnerships & collaboration with local businesses, community groups, our utilities, neighbors (Town of Wappinger, Town of Poughkeepsie, etc.).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q12 (Optional):** For **adaptation measures**, do you have any additional ideas for strategies not listed above? Your creativity is encouraged!



**Q13:** How important do you believe the following characteristics of an adaptation plan are for the Village of Wappingers Falls? An adaptation plan should...

	Not important	Somewhat important	Very important
Actively involve residents of the Village in every step of the planning process and implementation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Address social, economic, and health disparities across diverse communities to promote equity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Strengthen regional collaboration/partnerships with other local governments and stakeholders from different municipalities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Promote economic development and solicit feedback from business owners.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Protect natural resources and enhance outdoor recreation areas such as Wappinger Lake.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preserve/enhance the enduring historical character of the Village and its buildings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Be responsive to updated resident concerns, climatic conditions, and scientific projections and allow for adjustments to scope and timeline as needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q14:** (Optional): Are there any other considerations for an adaptation plan that you believe are important to emphasize?

## Demographic Questions

**Q15:** How long have you lived in the Village of Wappingers Falls?

- Less than 1 year
- 1-5 years
- 6-9 years
- More than 10 years

**Q16:** How old are you?

- Under 18
- 18-25
- 26-34
- 35-49
- 50-64
- 65+

**Q17:** Which race or ethnicity best describes you?

- Asian or Pacific Islander
- Black or African American
- Hispanic or Latino
- Native American or Alaska Native
- White or Caucasian
- Multiracial or Biracial
- A race/ethnicity not listed here or prefer not to answer

**Q18:** (Optional): If you chose "not listed" for Q17, please specify: \_\_\_\_\_

**Q19:** How many people live in your household?

- 1-2
- 2-4
- 4-6
- 7+

**Q20:** If you are employed, do you work inside or outside of the Village of Wappingers Falls?

- Inside of the Village
- Outside of the Village
- Not applicable

\*(Optional) Would you be interested in signing up for a newsletter to continue your engagement with this plan?

If so, please provide your preferred email here: \_\_\_\_\_

\*Note: If you provide your email, the survey will no longer be anonymous.

Thank you for completing this survey! If you have any other comments, please share them below.