*This answer sheet should be used for your VAST Challenge 2019 Mini-Challenge 1 submission. Please export this as .htm format and make sure that all hyperlinks are relative to the answer form.*

*Name the html version of this form "index.htm" for your submission.  Remove these instructions and any other example text below that is highlighted in yellow. Please see the "Submission Instructions" at* [*https://vast-challenge.github.io/2019/*](https://vast-challenge.github.io/2019/)*for more detailed instructions.*

Entry Name:  **"UWB-Smith-MC1"**

**VAST Challenge 2019  
Mini-Challenge 1**

**Team Members:**

*Replace this list of team members with the names, affiliations, and email addresses of your own team. Indicate the primary point of contact.  Example:*

Marion Smith, University of West Birmingham, [smith@westbirmingham.ac.uk](mailto:smith@westbirmingham.ac.uk)     PRIMARY  
Paul White, University of Northeastern Washington, [white@unew.edu](mailto:white@unew.edu) 

**Student Team:** *Please enter YES or NO*

**Tools Used:**

*Provide a list of tools used.  Examples:*

Tableau

Excel

Spinviz, developed by the University of West Birmingham CS 459 Information Visualization class, taught Spring 2011 by Dr. Smith, and adapted by the student team for the challenge.

**Approximately how many hours were spent working on this submission in total?**

*Provide an estimate of the total number of hours worked on this submission by your entire team.*

**May we post your submission in the Visual Analytics Benchmark Repository after VAST Challenge 2019 is complete?***Please enter a YES or NO*

**Video**

*Provide a link to your video.  Example:*

[**http://www.westbirmingham.ac.uk/uwb-smith-mc2-video.wmv**](http://www.westbirmingham.ac.uk/uwb-smith-mc2-video.wmv)

**Questions**

**1** – Emergency responders will base their initial response on the earthquake shake map. Use visual analytics to determine how their response should change based on damage reports from citizens on the ground. How would you prioritize neighborhoods for response? Which parts of the city are hardest hit? Limit your response to 1000 words and 10 images.

***Provide your answer and corresponding images here.***

**2** – Use visual analytics to show uncertainty in the data. Compare the reliability of neighborhood reports. Which neighborhoods are providing reliable reports? Provide a rationale for your response. Limit your response to 1000 words and 10 images.

***Provide your answer and corresponding images here.***

**3** – How do conditions change over time? How does uncertainty in change over time? Describe the key changes you see. Limit your response to 500 words and 8 images.

***Provide your answer and corresponding images here.***

**4** –– The data for this challenge can be analyzed either as a static collection or as a dynamic stream of data, as it would occur in a real emergency. Describe how you analyzed the data - as a static collection or a stream. How do you think this choice affected your analysis? Limit your response to 200 words and 3 images.

***Provide your answer and corresponding images here.***