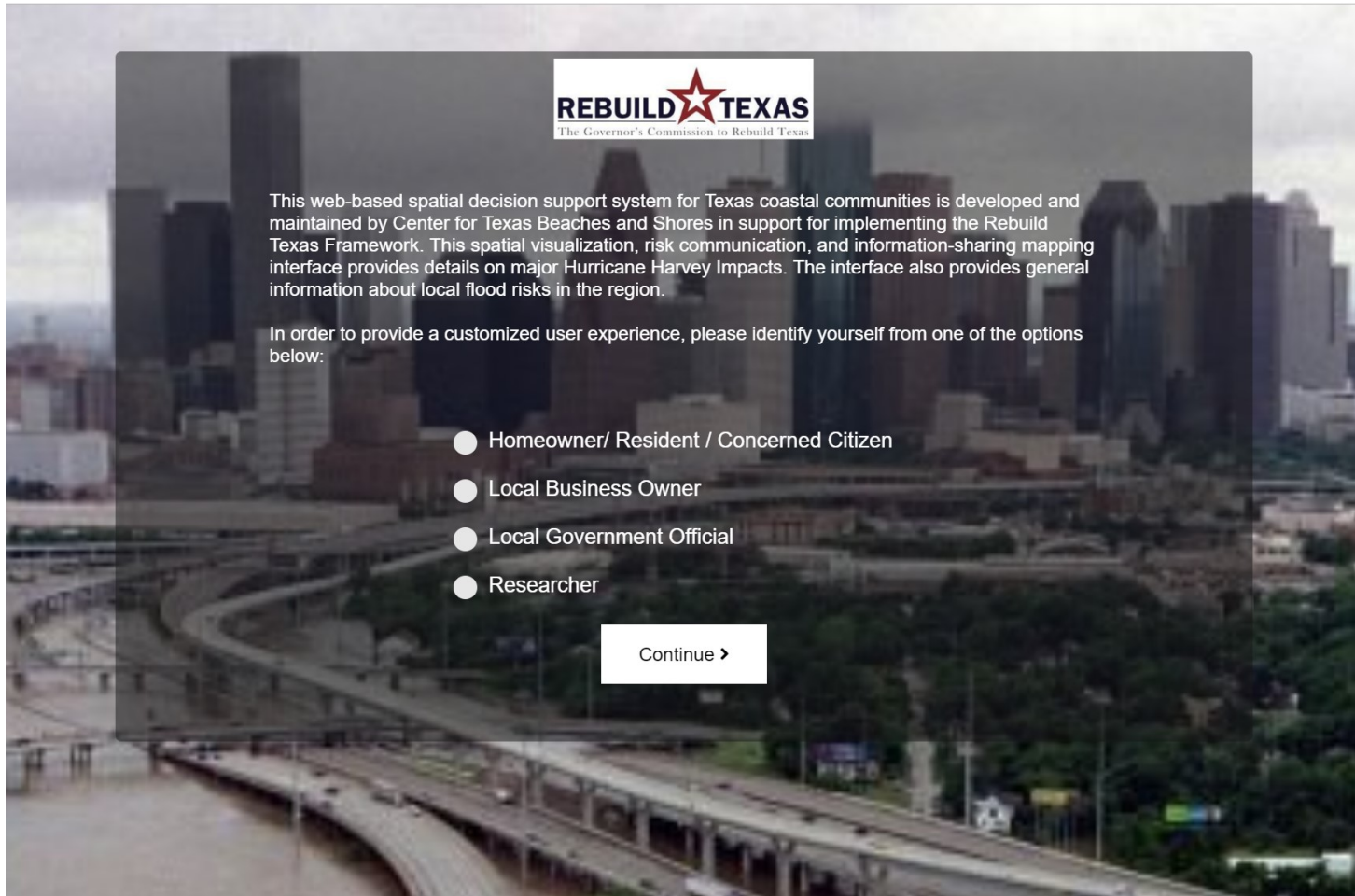


# Institute for a Disaster Resilient Texas

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*Using data analytics to improve disaster management*



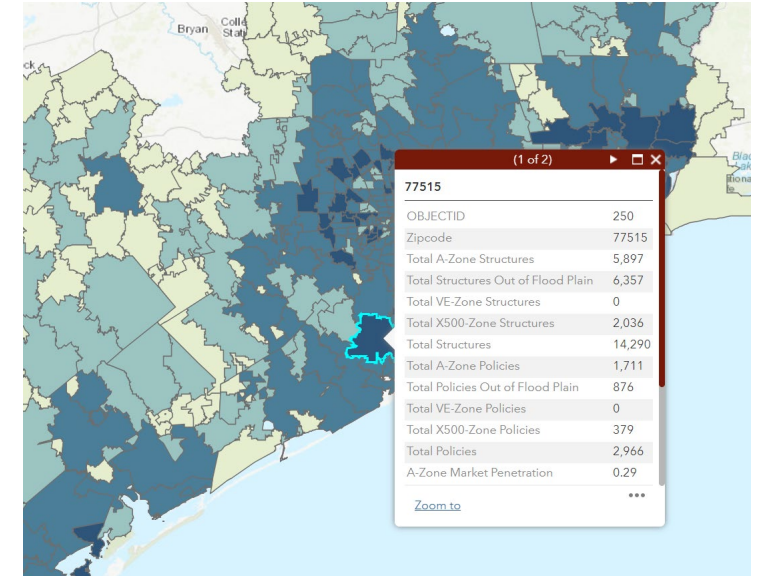
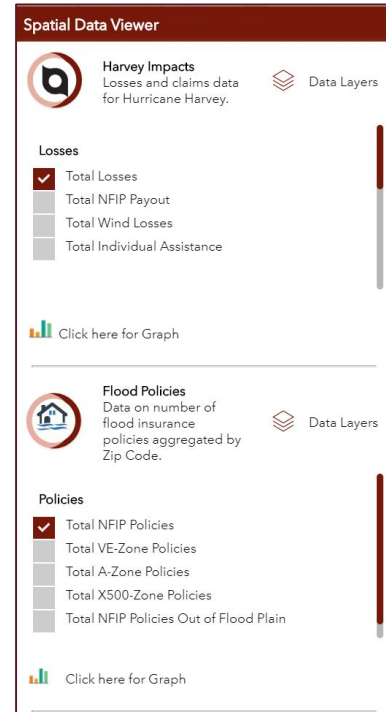
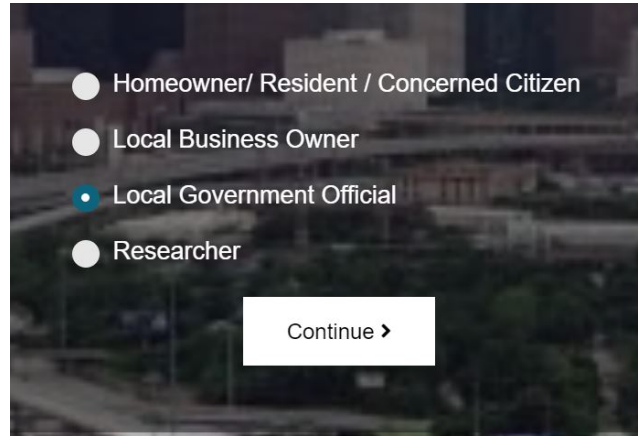


# Dashboard 1

[Resilient-Texas.com](https://Resilient-Texas.com)

- Developed in support of the Governor's Commission to Rebuild Texas following Hurricane Harvey
- Highlights key impacts of Hurricane Harvey, as well as general information on local flood risks
- Customized experience based on the user's role within the community

# How it Works

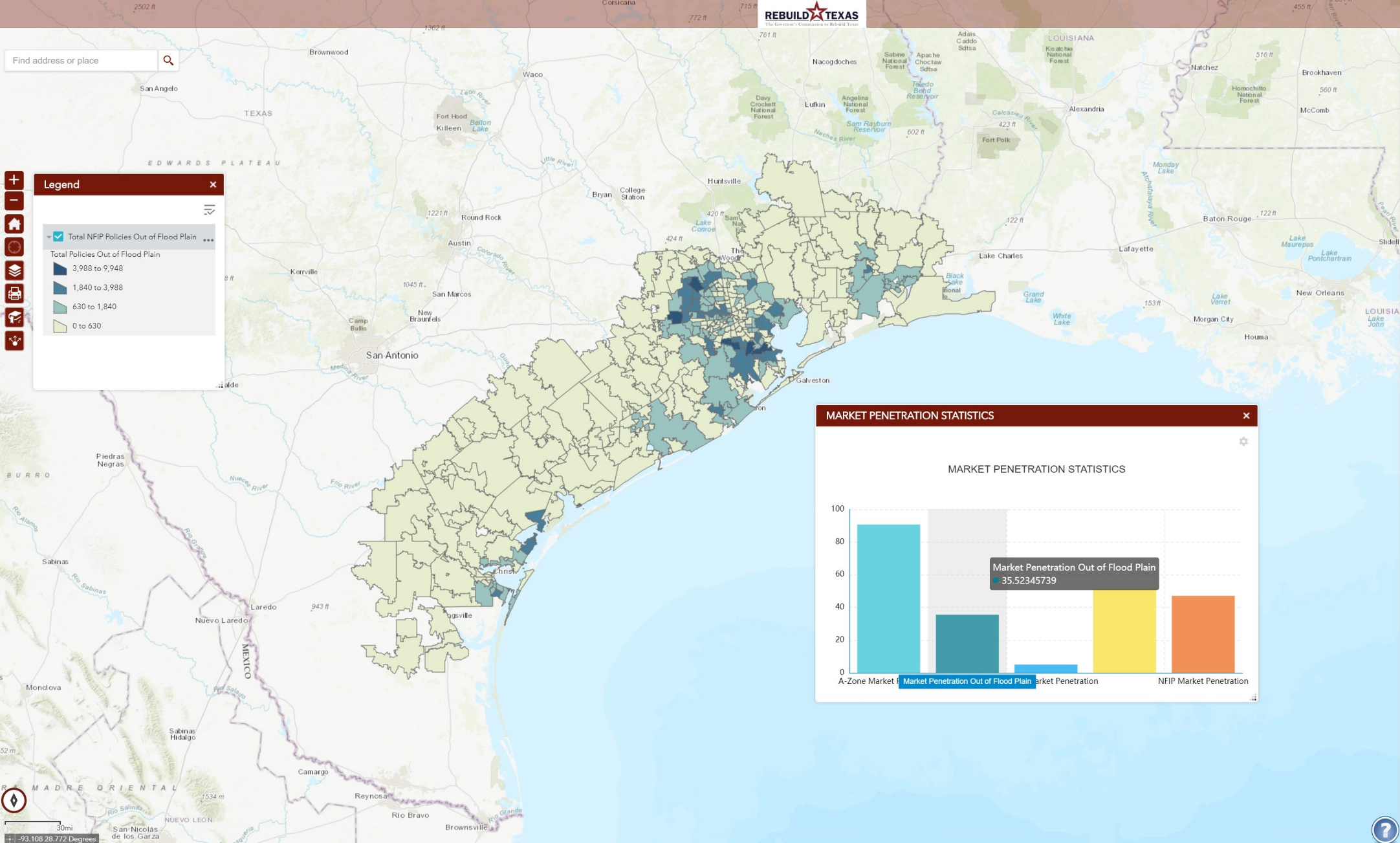


Select Role

Choose Layers

Explore Data





Spatial Data Viewer

**Harvey Impacts**  
Losses and claims data for Hurricane Harvey.

Data Layers

**Flood Policies**  
Data on number of flood insurance policies aggregated by Zip Code.

Data Layers

**Policies**

- ☐ Total NFIP Policies
- ☐ Total VE-Zone Policies
- ☐ Total A-Zone Policies
- ☐ Total X500-Zone Policies
- ☒ Total NFIP Policies Out of Flood Plain

[Click here for Graph](#)

**Insured Structures**  
Data on number of structures with flood insurance aggregated by Zip Code.

Data Layers

**Flood Insurance Market**  
Market Penetration of flood insurance market.

Data Layers

**Natural Hazards**  
Spatial extent of various natural hazards that threaten this region.

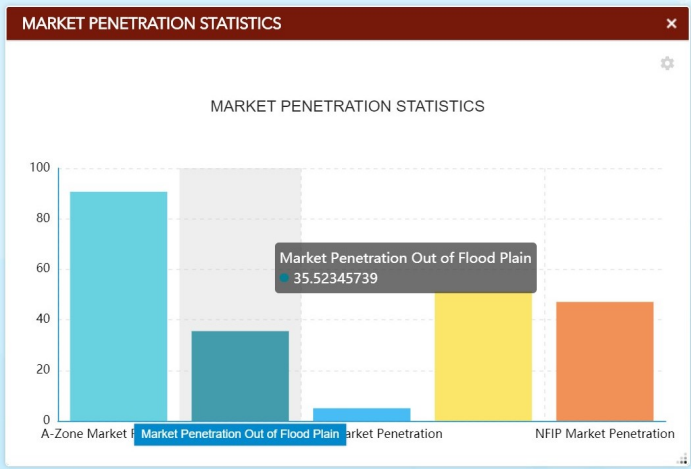
Data Layers

**Demographics**  
Population and households as per US Decennial Census Data

Data Layers

**Political Boundaries**  
Various Jurisdictional Boundaries

Data Layers





## Buyers BeWhere

Buyer Be-Where is an on-line system to help prospective home buyers and sellers understand their risk relative to other properties in the area. Anyone with an Internet connection can enter a street address and receive a graphic and statistical risk assessment for a specific property. Comprehensive, easy to understand information delivered on-the-fly will provide a critical resource for existing and future property owners interested in making sound and safe investment decisions.

Go To Harris, Texas ▶

Go To Galveston, Texas ▶

Go To Miami-Dade, Florida ▶

Go To Dallas City, Texas ▶

Go To New Orleans, Louisiana ▶

Go To Seattle, Washington ▶

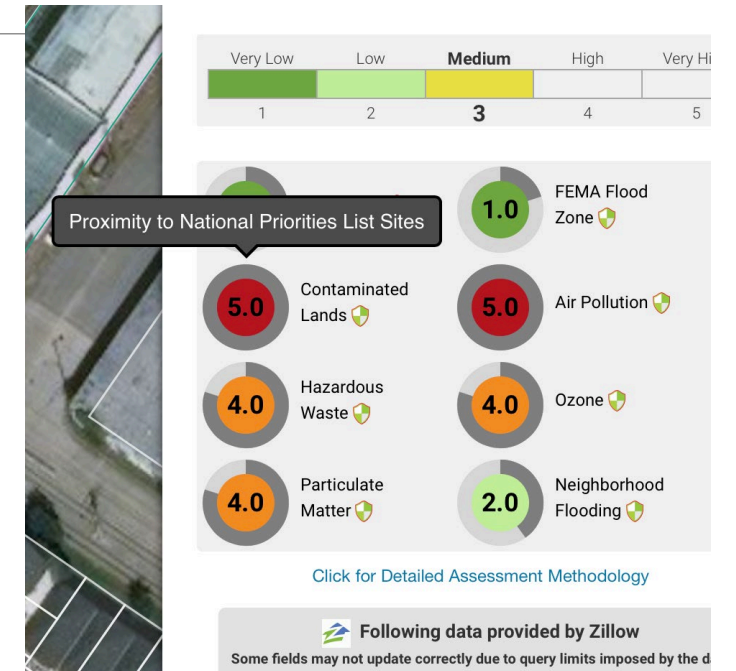
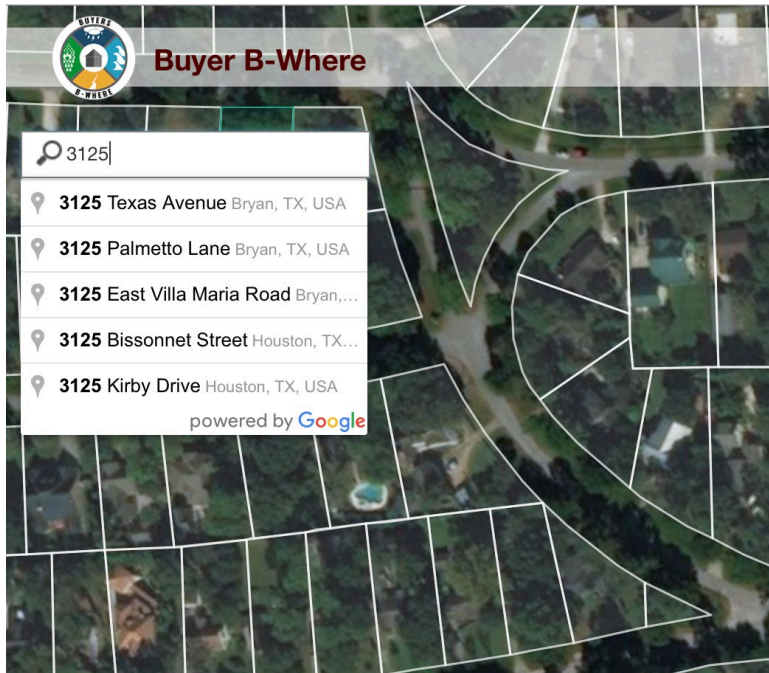
Go To Los Angeles County, California ▶

# Buyers Be-Where

[Buyers-BeWhere.com](http://Buyers-BeWhere.com)

- Offers on-demand and easy to understand information on a range of hazards
- Allows for customizable risk score for individual parcels relative to surround properties
- Provides solutions to mitigate risks and increase potential long-term value

# How it Works



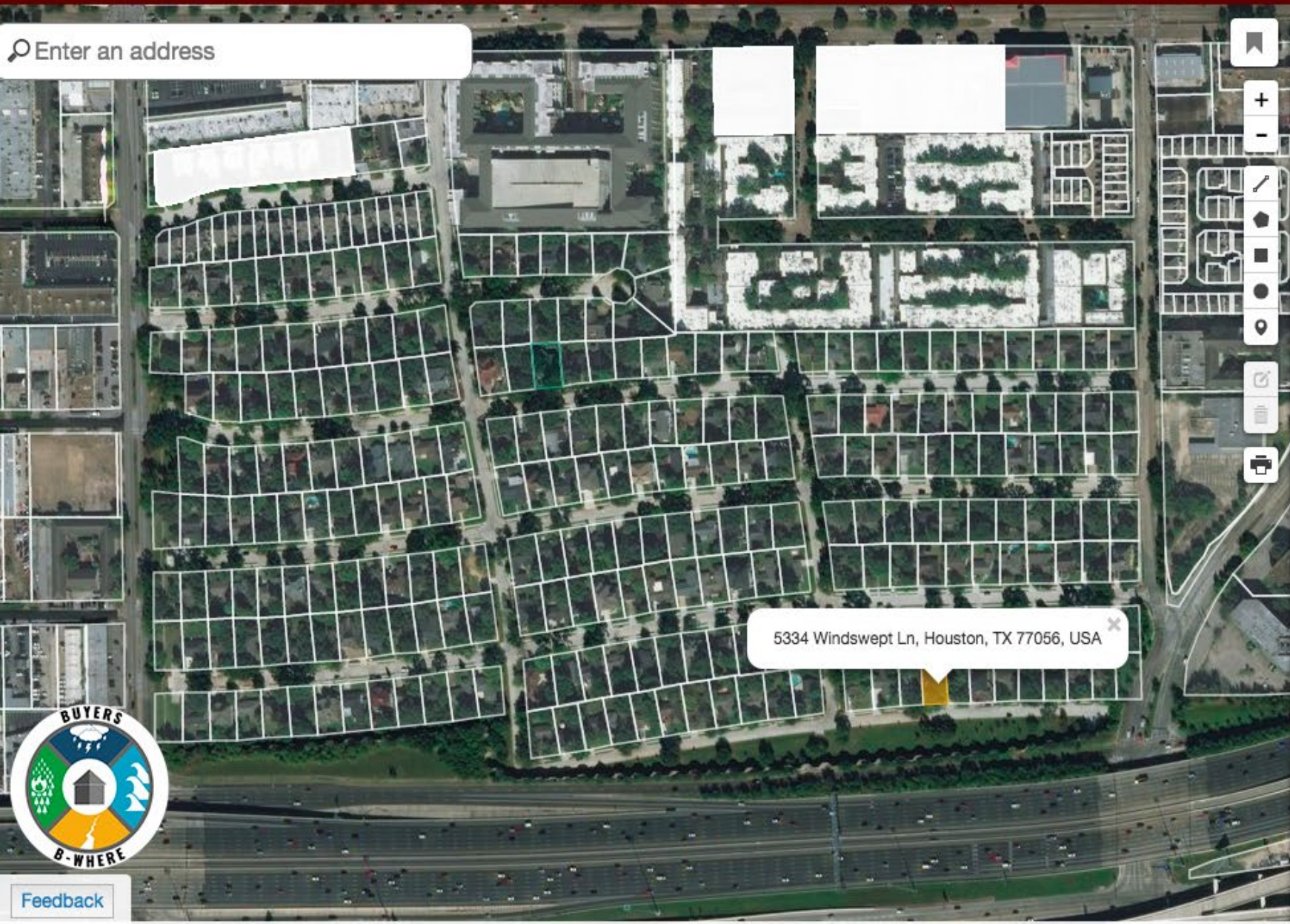
Search an Address

Select the Hazards

Understand the Indicators

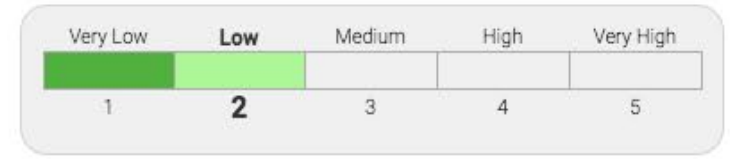


Enter an address



5334 Windswept Lane  
Houston, Texas, 77056

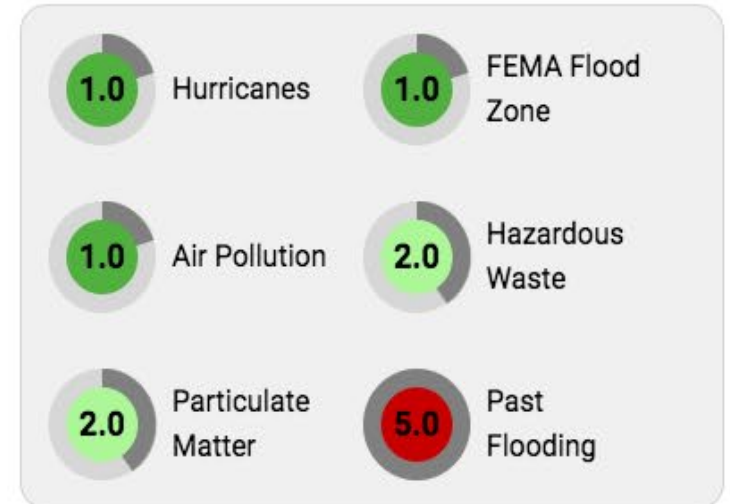
OVERALL HAZARD RISK SCORE [Click for Details](#)



SPECIFIC HAZARD RISK ASSESSMENT [Click for Details](#)

Select Hazard Risks using the dropdown below

6 selected ▼



Feedback



# Institute for a Disaster Resilient Texas

The Institute will seek to:

- Develop data analytics tools to support disaster planning, mitigation, response, and recovery;
- Create and maintain web-based analytical and visual tools to communicate disaster risks and ways to reduce those risks;
- Provide evidence-based information and solutions; and
- Collect, display, and communicate comprehensive flood-related information.

*By working with Texas A&M System partners, other institutions of higher education, public agencies, and other entities, the Institute will become the leader in developing analytical tools that support more disaster-resilient communities.*





# Institute for a Disaster Resilient Texas- Supporting State Organizations

- Provide a conduit for agencies interested in data analytics
- Support state agencies in providing disaster information and developing tools that improve decision making
- Act as an interface between researchers and decision making
- Provide assistance and fill-in the gaps:
  - not recreate or complicate existing efforts



# Texas Disaster Information System

An interactive, web-based spatial data system designed to support Preparedness, Response, Recovery and Mitigation for the State of Texas.

- Statewide system will employ cutting-edge data analytics and mapping technologies.
- Provide residents, policy makers, local jurisdictions, and other stakeholders with the most current and accurate information available to assess related disaster risks, impacts, and mitigation strategies.





# Logistics

- Administratively tied to Texas A&M, Galveston Campus
- Physically located in Houston
- Act and operate at a system and state-wide level
- Transdisciplinary and multi-institutional
- Funded by project-based grants/contracts and indirect return

