



## **Fewzz GIS Inc.**

*Prepared November 2, 2015*

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## DISCLAIMER

This Web Mapping System presents an interactive map showing geographical and demographical information in Harris County. All the data are downloaded or referenced from government agency or open source community. This website represents the information that has been made available for the use of this system and does not necessarily include the most complete and/or accurate data and therefore may reflect:

- Information not yet verified by further investigation
- Information that may include mechanical or human error

Fewzz GIS Inc. does not guarantee (either express or implied) the accuracy, completeness, timeliness, or correct sequencing of the information showing on the website. Fewzz GIS Inc. shall have no liability for any error or omission, or for the use of, or the results obtained from the use of the Web Mapping System. In addition, Fewzz GIS Inc. caution against using the data provided on the map to make decisions/comparisons regarding the safety, real estate hunting or any other commercial activities in Houston area.

This Web Mapping System is built based on open source technologies and Fewzz GIS Inc.'s in-house developed software and toolsets. The website is a prototype and is only created for our customers as a demo. Site users may find bugs in certain tools when using it. Fewzz GIS Inc. may update the website anytime without notices.

The use of the information on this website indicates the site user's unconditional acceptance of all risks associated with the use of the data provided in the Web Mapping System.



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# Help Document

## How to access the website

1. Go to <http://www.fewzz.com/> and click “Demo” on the top right.

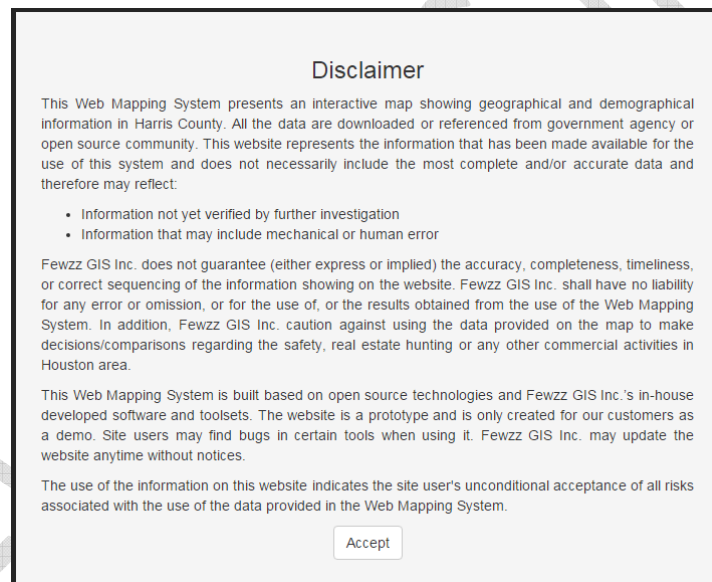


2. Type <http://www.fewzz.com/demo/Houston/> in the browser

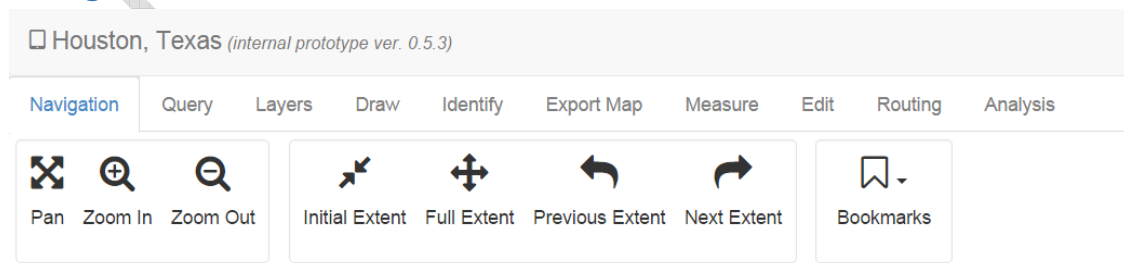


## Disclaimer

User needs to accept the disclaimer to access the website.



## Navigation



- Pan – By activating this tool, user can move the map using mouse



[www.fewzz.com](http://www.fewzz.com)

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- Zoom In – Zoom in current map by 1 level
- Zoom out – Zoom out current map by 1 level
- Initial Extent – Zoom and move map to the initial extent
- Full Extent – Zoom and move map to the full extent
- Previous Extent – Go to the previous extent
- Next Extent – Go to the next extent
- Bookmarks – User can save current extent to local, delete existing bookmark or zoom to existing extent in bookmarks

#### Hints:

- User can zoom out or zoom in the map by scrolling the middle button of the mouse.
- User can zoom in the map by pressing and holding the Shift key on the keyboard and left button of the mouse and drawing a rectangle on the map. When user releases left button of the mouse, the map will zoom in.

#### Query

- Simple Query – User can query target layer by attributes

ID	ADT_1	SEGMENT_1	STREETAD_1	COLLECTI_1	DEPLOYE
traffic_count.679	29492.0000000000	Studemont to Heights Blvd Waugh	3450	MAJOR THOROUGHFARE ADT	JIMMY
traffic_count.667	37722.0000000000	North Loop to Beaumont Highway	5215	MAJOR THOROUGHFARE ADT	JIMMY

1. User can select a target layer in the dropdown list. Only layers which have been checked in the layer tool can be seen in the dropdown list.



Navigation Query **Layers** Draw Identify

Show Layers Add Layer

**Layers**

☐ HCDE Afterschool Programs

☒ **Traffic**

☒ Traffic Count

12 - 3608

3608 - 7784

7784 - 11848

11848 - 15803

15803 - 20600

20600 - 26854

26854 - 34615

34615 - 43666

43666 - 60047

60047 - 87529

☐ Transtar Live Cameras

☐ Transtar Signals

☐ Road Pavement



[www.fewzz.com](http://www.fewzz.com)

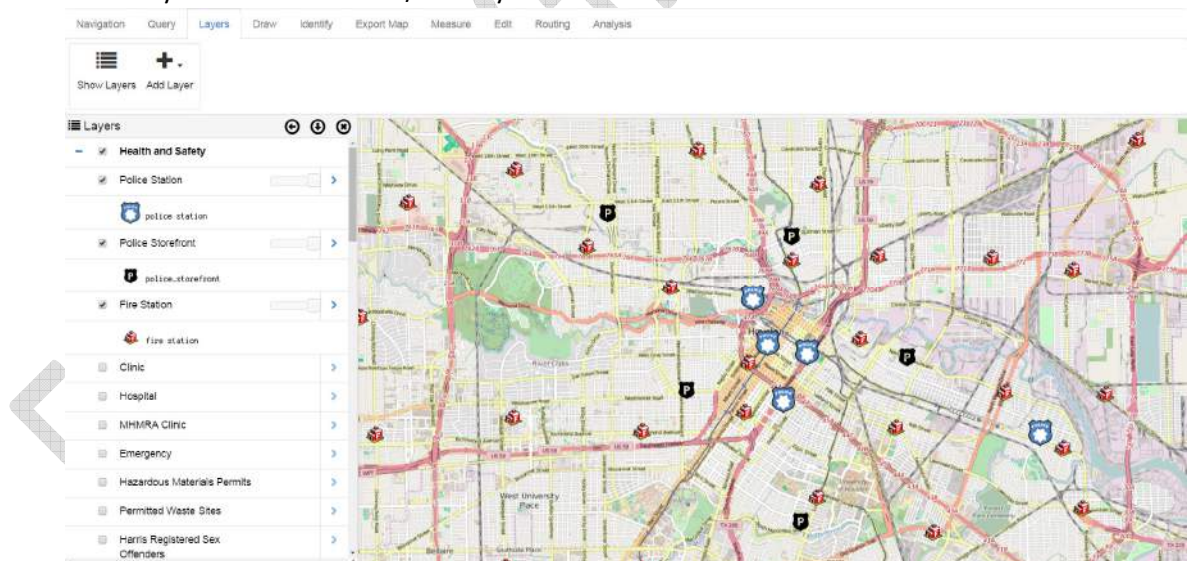
Page 6

2. By clicking the Attribute button, a query condition can be added. User can click “And”, “Or” and “Not” buttons to create more complicated query conditions.
  3. By clicking Query button, query results will be returned.
  4. User can click each result and the map will focus on that result.
- Spatial Query - Advanced users can use spatial query to query target layers using other features
    1. Query features from – Select the target layer
    2. Select features from - Select the layer which will be used as the spatial filter
    3. Spatial Operations – Select a spatial operator
    4. Click on the feature which will be used as the spatial filter using left button on the mouse
    5. Click Query button and results will be returned.
    6. User can click each result and the map will focus on that result.

**Hints: Only layers which have been checked in the layer tool can be seen in the dropdown list.**

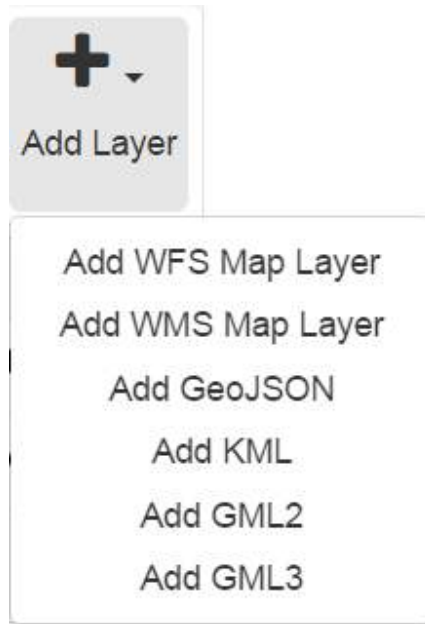
## Layers

- Show Layers – User can show/hide layers



- Add Layer – User can add external layers to the current map





Supported format: WFS, WMS, GeoJSON, KML and GML

## Draw

- User can draw the following shapes on the map: Point, Line, Free Line, Polygon, Free Polygon, Rectangle, Square, and Circle.
- Clear – clear shapes on the map

## Identify

- Point Identify – User can query layer information by clicking on the feature

Q Point Identify

Select features from: fire\_station

ID	NAME	ADDRESS	TYPE	ID	ENGINES	LADDERS	DIST_CHIEF	AMB	AMB_500	MEDIC	SQUAD	EMS_JR	EMS_SR	EMS_DC	RESCUE_TK	CV	ARFF	RES_BOAT
fire_station.82	3.00000000	3735 W ALABAMA	1	3	Eng-3	undefined	undefined	undefined	undefined	undefined	Squad-3	undefined	undefined	undefined	undefined	undefined	undefined	undefined

### 1. Select Point Identify tool





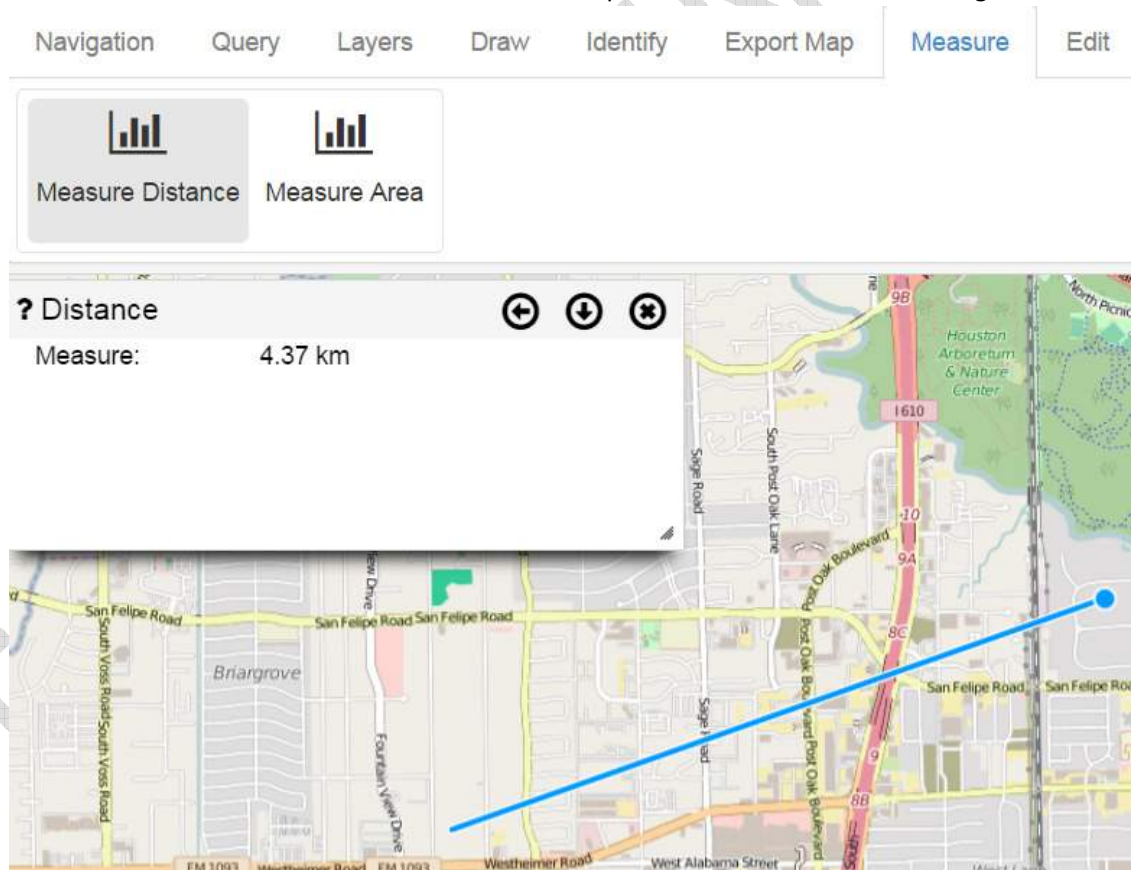
2. Select target layer which you want to query from. Multiple layer query are supported.
  3. Click interested feature and the information will be shown
- Line Identify – Same as Point Identify but by drawing a line to query features
  - Polygon Identify - Same as Point Identify but by drawing a polygon to query features
  - Rectangle Identify - Same as Point Identify but by drawing a rectangle to query features

## Export Map

- Export map – export the map in current extent to a PNG file

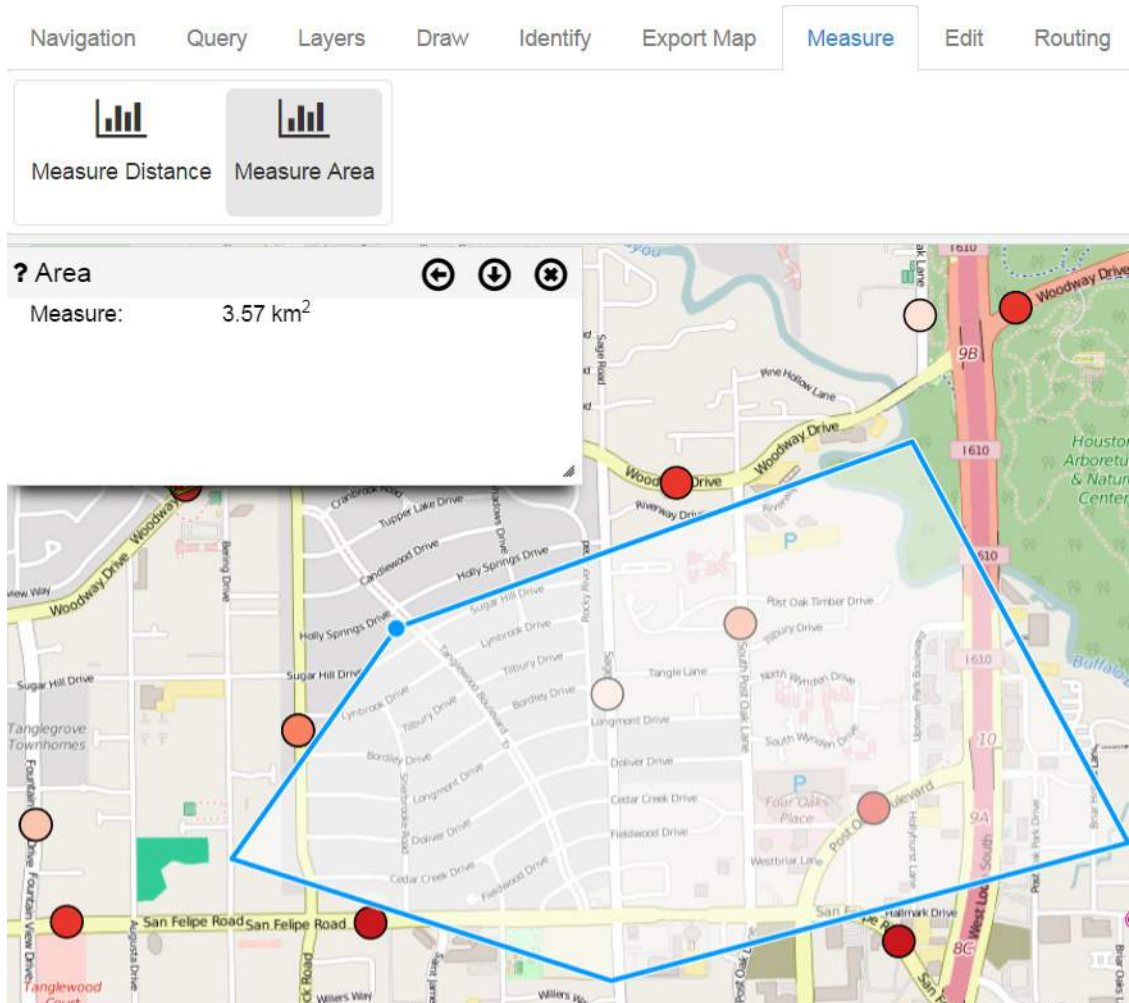
## Measure

- Measure Distance – User can draw a line on the map and this tool will show the length



- Measure Area – User can draw a polygon on the map and this tool will show the area





## Edit

User can use this tool to edit features online

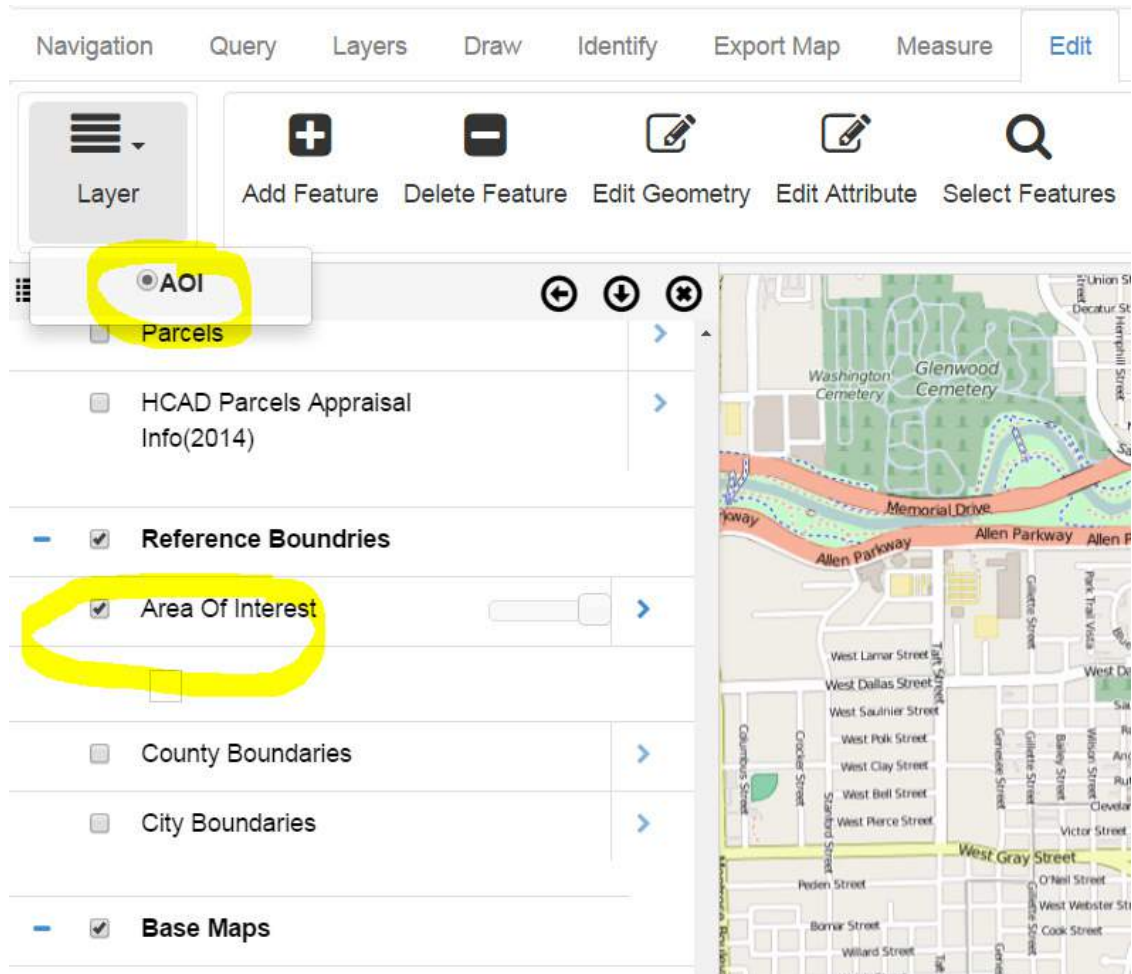
- Layer – Select the layer to be edited. User has to check “Area Of Interest” layer in the Show Layers tool first.



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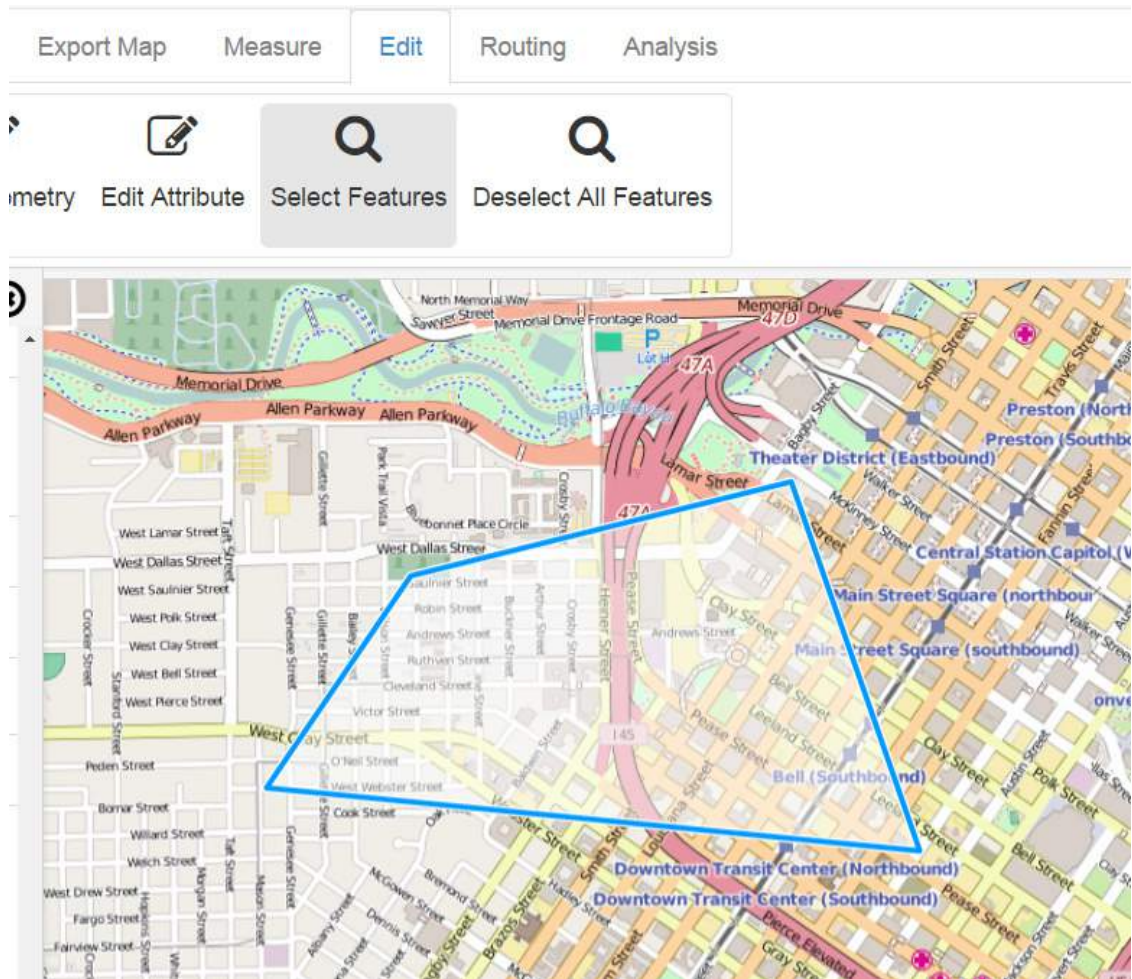
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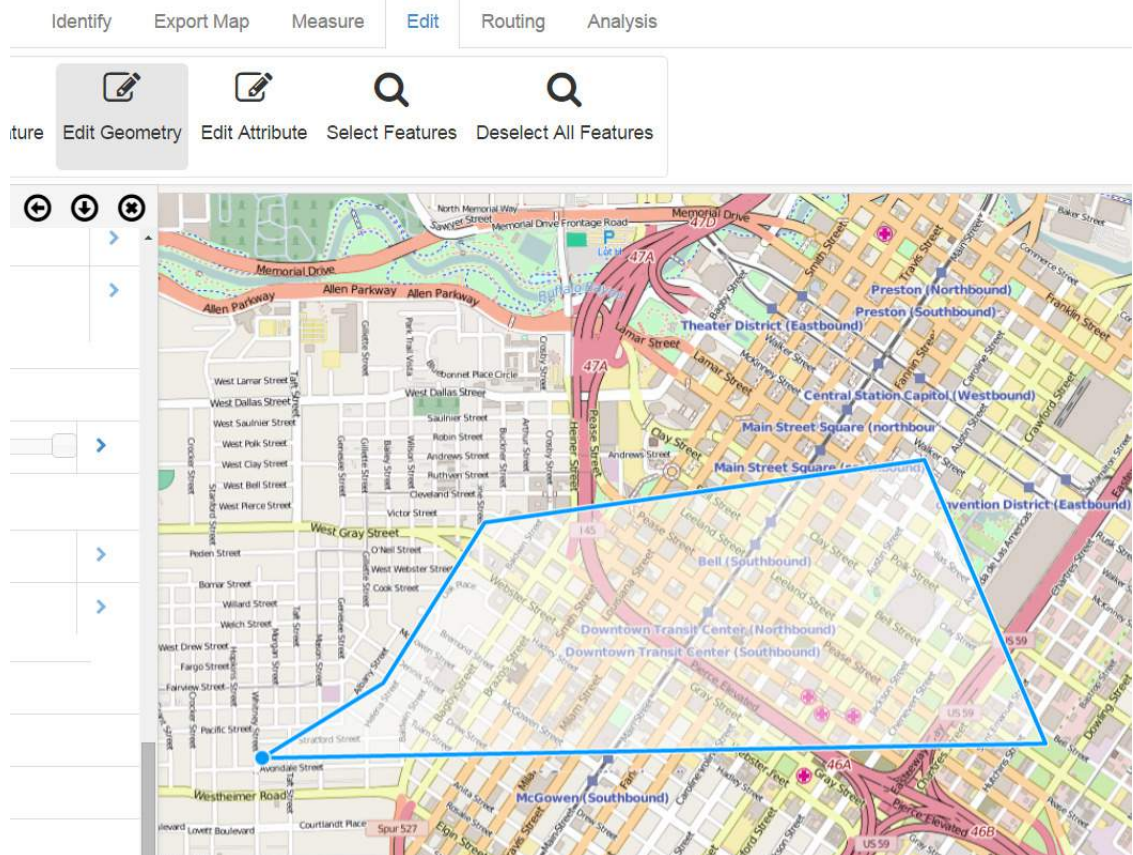
- Add Feature – User can draw a polygon on the map. When finished, double click on the left button on the mouse. The new feature will be saved and any user using the website can see this new feature
- Delete Feature & Select Feature – User can select a feature by activating Select Features tool and Click Delete Feature button to delete it. After the delete any user using the website cannot see this feature anymore.





- **Edit Geometry** – User can edit the geometry of an existing feature. After activating the tool, user can click a feature to be edited. By holding left button on the mouse and dragging an edge on the feature, user can reshape the feature. Click any place except the feature itself to save the editing. After the editing, any user using the website will see this new edited feature.





- Edit Attribute – Disable by Administrator for now.
- Deselect All Features – Deselect all selected features by users

## Routing

- Point-Point – Calculate the optimal path between start and destination

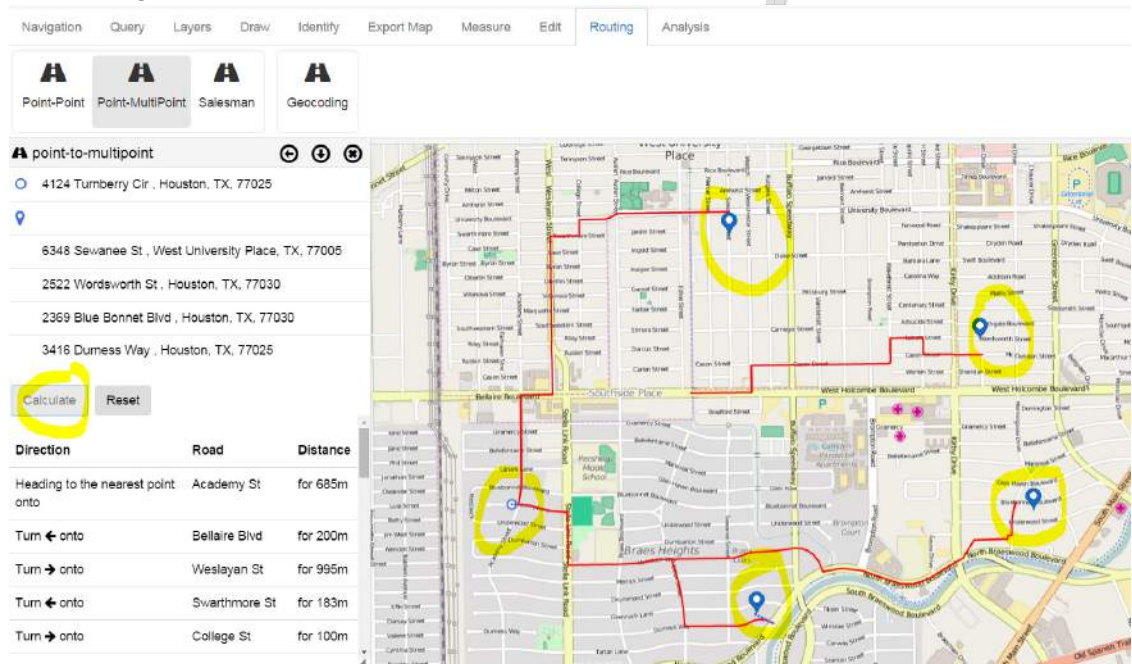
Direction	Road	Distance
Heading to the nearest point onto	Merrick St	for 314m
Turn left onto	Braes Blvd	for 109m
Turn right onto	Aberdeen Way	for 1109m
Turn right onto	Buffalo Speedway	for 264m
Turn left onto	Blue Bonnet Blvd	for 545m
Turn right onto	Brompton St	for 219m
Turn left onto	Bellefontaine St	for 524m
Turn right onto	Kelly Ave	for 418m

[www.fewzz.com](http://www.fewzz.com)

1. Activate Point – Point tool
2. Click a location on the map as start
3. Click a location on the map as destination
4. Click Calculate button to calculate the optimal path
5. Click Reset to restart

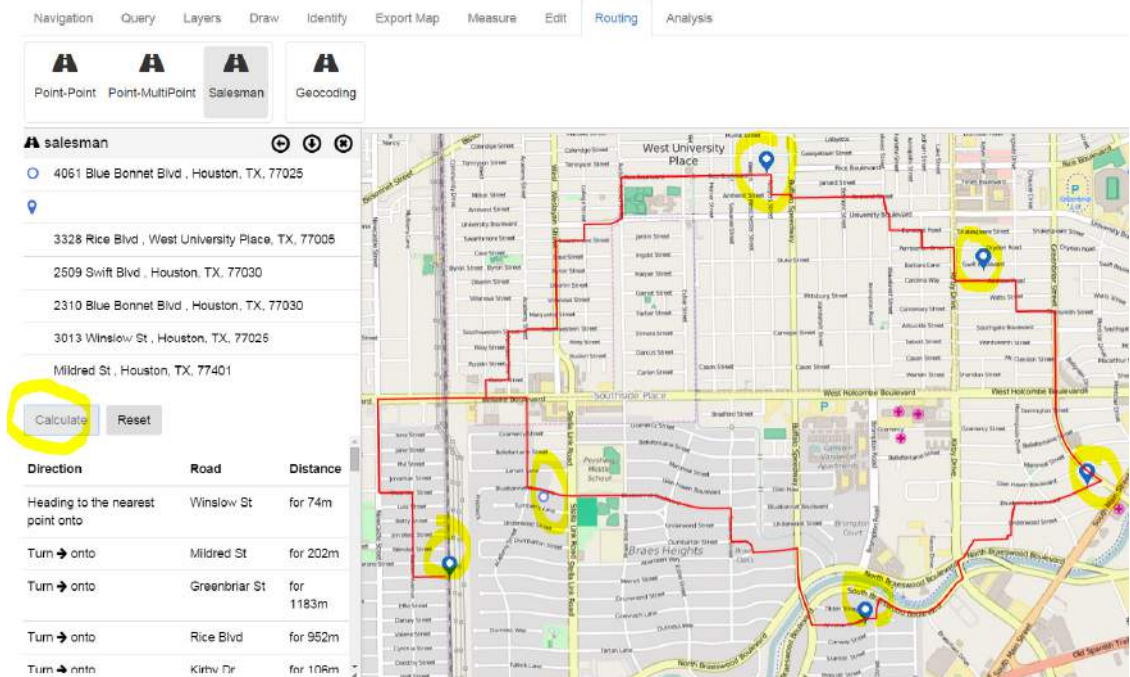
**Hints: User can click on each path on the result list to focus on that path**

- Point-MultiPoint - Calculate the optimal paths between start and multiple destinations. Similar usage as Point-Point tool



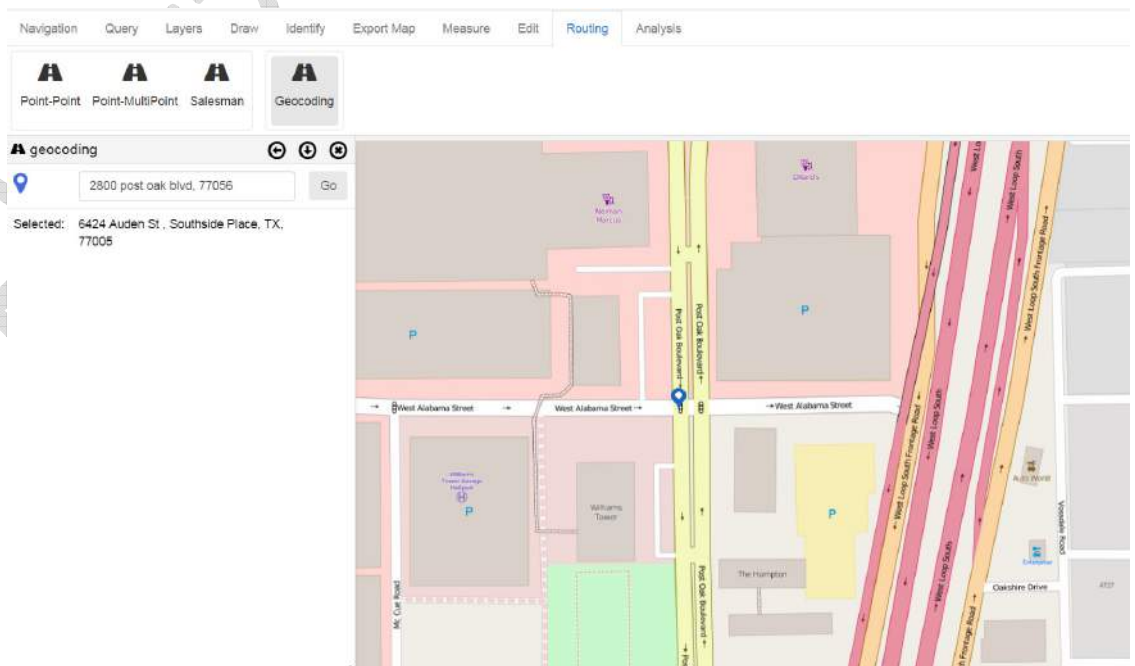
- Salesman – Solve the salesman problem. Calculate the optimal paths to travel through all destinations from start location and finally go back to the destination. It will automatically calculate the optimal sequence to visit each destinations.





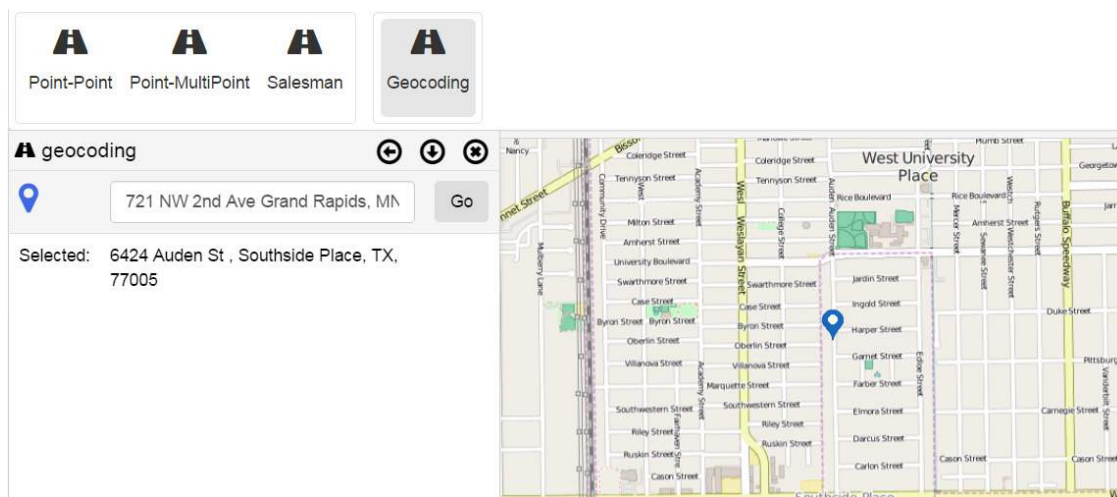
**Hints: user need to select at least 3 destination to create a salesman problem.**

- Geocoding – Support geocoding and reverse geocoding.
  1. Geocoding: User can input address and click go button to locate the map on the address





2. Reverse geocoding: User can click any location on the map and it show the geocoded address on that location



**Hints: for geocoding, the accuracy will significantly improve with a zip code input.**

## Analysis

- Surrounding – User can set a buffer distance and click on any property on the map. The tool will show the number and names of interested facilities within the rectangle buffer



Navigation Query Layers Draw Identify Export Map Measure Edit Routing Analysis

Surroundings Demographic MLS Crime

Surroundings Analysis

ID 573795 Current DUNN ANDREW M  
Owner & CATHERINE E  
Area 8671.49257328000 Address CIR, HOUSTON,  
Size 77025

Interest points within 1 km range:

public_schools	2
PERSHING MIDDLE	
TWIN EL	
police_station	0
police_storefront	0
cell_towers	3

- Demographic – After activating the Demographic tool, user can click any place on the map to retrieve demographic report in that block.

Navigation Query Layers Draw Identify Export Map Measure Edit Routing Analysis

Surroundings Demographic MLS Crime

Demographic Analysis

GeoID 482014127002 Report [link](#)

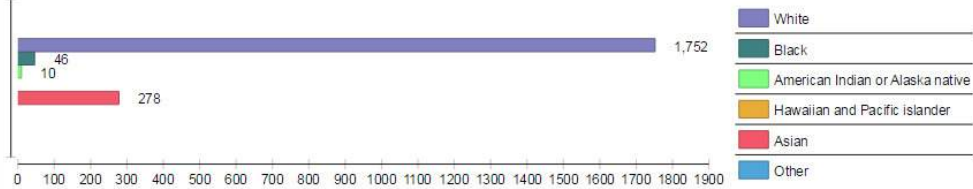
Click the link, user will see a report:

# Fewzz GIS Demographic Report

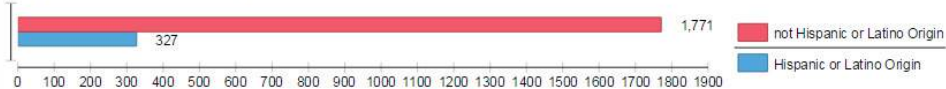
Showing page 1 of 1

geoid 15000US482014127002 Total Population 2098 Total Households 821 Median Age 49.3

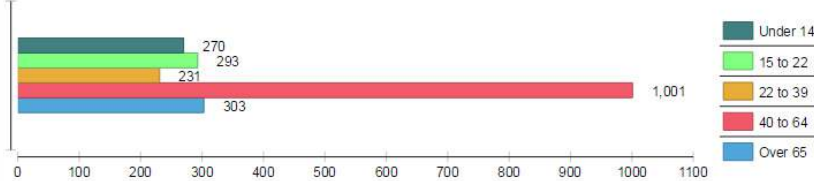
## Race



## Hispanic or Latino Origin



## Age



## Employment above 16



- MLS – User can check the MLS listing/house for sale on the market. Click any house, detailed information will be shown.



Navigation Query Layers Draw Identify Export Map Measure Edit Routing Analysis

Surroundings Demographic **MLS** Crime

**MLS Analysis**

**4010 Underwood  
Houston, TX 77025**

4 beds, 6 baths, 5,680 sqft  
Single Family built in 2015

**MLS#** 33353074      **Source** HARMLS  
**District** MLS\_HOUSTON      **Lot Size** 7,895 Sq. Ft.

The map displays various price points in green boxes: \$575K, \$1.1M, \$600K, \$645K, \$1.7M, \$1.6M, \$1.3M, \$699K, \$1.5M, \$1.2M, \$995K, \$570K, and \$665K. Landmarks include Perishing Middle School and Mark Twain Elementary School.

- Crime – User can check the crime records in the past 7 years.

Navigation Query Layers Draw Identify Export Map Measure Edit Routing Analysis

Surroundings Demographic **MLS** **Crime**

**Crime Analysis**

Crime Type: Auto Theft, Burglary  
Start Date: 2015-04-01  
End Date: 2015-07-31  
Search

ID	DATE	HOUR	OFFENSE_TYPE
hpd_crime:614414	6/27/2015	03	Auto Theft
hpd_crime:614350	6/24/2015	07	Auto Theft
hpd_crime:614316	6/16/2015	03	Burglary
hpd_crime:614230	6/15/2015	22	Auto Theft
hpd_crime:614116	6/2/2015	07	Burglary

1. Crime Type – User can choose multiple types
2. Start Date – Choose a query start date
3. End Date – Choose a query end date
4. Click Search button and results will be returned





**Hints:**

1. To reduce server load, for each search, it will only return maximum 200 crime records
2. User can click each crime record and the map will focus on that crime.

## Other topics

- Layer descriptions

Group Name	Show Name	Description
Reference Boundaries	County Boundaries	Harris county boundaries
	City Boundaries	City boundaries
	Area Of Interest	Polygon layers on which user can draw to show all other users. This layer is shared by all users
Health and Safety	Police Station	Police stations in Harris county
	Police Storefront	Police storefront in Harris county
	Fire Station	Fire station in Harris county
	Clinic	Clinics in Harris county
	Hospital	Hospital in Harris county
	MHMRA Clinic	MHMRA Clinic in Harris county
	Emergency	Emergency area in Harris county
	Hazardous Materials Permits	The location for Houston Fire Department Hazardous storage permits in Harris county
	Permitted Waste Sites	This layer contains point locations for operating Permitted Industrial and Hazardous Waste Locations in Texas. Facilities which store, process, or dispose of hazardous waste (except where such storage and/or processing is excluded from permit requirements in accordance with 30 Texas Administrative Code (TAC) Section 335) must obtain a permit pursuant to the Texas Solid Waste Disposal Act. The Industrial and Hazardous Waste Permits Section of the TCEQ maintain a database of these facilities, which is represented geographically here.



		Level 3 Certification - This layer does not meet the minimum 25 meter agency standard. The layer was certified with known problems that have been documented in the metadata. It is not suitable for high-precision measurement applications.
	Harris Registered Sex Offenders	Registered sex offender location in Harris county
	Toxics Release	Location information for toxic chemical releases for past 26 years
	Pipeline	Underground pipeline location
	Floodplain	Area of land adjacent to a stream or river that stretches from the banks of its channel to the base of the enclosing valley walls and experiences flooding during periods of high discharge
Education	College	College location in Harris county
	School Districts	School district areas in Harris county
	Public Schools	Public school information in Harris county, including school accountability ratings, SAT/ACT average scores, etc.
	HCDE Afterschool Programs	Location for HCDE afterschool programs in Harris county
Traffic	Traffic Count	Traffic count information for monitoring location in Harris county. Higher count indicate more busy traffic.
	Transtar Live Cameras	Location for Transtar live cameras. User can view real-time camera image at the location. Refreshed every 5 min.
	Transtar Signals	Locations for traffic signals in Harris county
	Road Pavement	Road pavement ratings in Harris county. Brighter green color mean better road pavement condition. Darker red color mean worse road pavement condition.



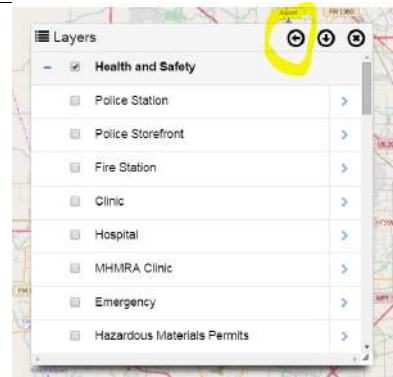

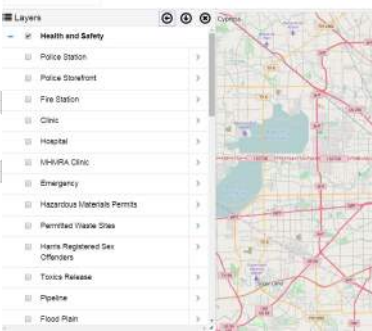



Parcels	Parcels	Parcel information in Harris county
	HCAD Parcels Appraisal Info (2014)	Color coded real estate appraisal information (2014 year real estate appraisal value)
Imagery	Houston Imagery	Aerial photo in Harris county
Open Source	Openstreet	Road map
	Stamen Water	Reminiscent of hand drawn maps, watercolor maps apply raster effect area washes and organic edges over a paper texture to add warm pop to any map
	Stamen Toner	High-contrast B+W (black and white) background
	Stamen Terrain	errain maps are featured by hill shading and natural vegetation colors. These maps showcase advanced labeling and linework generalization of dual-carriageway roads
Miscellaneous	Facets	Harris County Map Facets. Visit <a href="http://pdata.hcad.org/GIS/index.html">http://pdata.hcad.org/GIS/index.html</a> for more information and the quarterly refresh schedule.
	Tax Increment Reinvestment Zone	Tax Increment Reinvestment Districts in Harris County. Visit <a href="http://pdata.hcad.org/GIS/index.html">http://pdata.hcad.org/GIS/index.html</a> for more information and the quarterly refresh schedule.
	Utility	Municipal Utility Districts in Harris County
	Water District	Water Districts in Harris County
	Cellphone Towers	Cellphone tower locations in Harris County
	Super Neighborhoods	This layer depicts the Super neighborhoods as defined by the Planning and Development Department. This layer is subject to change
	Digital Raster Graphic	Scanned image of a U.S. Geological Survey (USGS) standard series





		topographic map, including all map collar information

- Result window docking

Before	Function	After
	By clicking  Any result window will dock to the left of the map and maximize its height	
	By clicking  Any result window will dock to the bottom of the map and maximize its width	

- Scale dependent and maximum number of features control

Layer Name	Minimum scale at which this layer is drawn	Maximum number of features returned by each request
Toxics Release	78271	
Pipeline	39135	
Traffic Count	39135	200
Public Schools	78271	10



Transtar Signals	39135	
Road Pavement	9783	
MLS	39135	
Harris Registered Sex Offenders	78271	100
Crime		200

- This is a demo prototype website. The website may be updated without any notice. Users may find known bugs in this prototype version.
- **Do not show more than 6 layers at the same time. Showing more layers at the same time will result in slower map browsing.**

