## HOUSTON-GALVESTON AREA COUNCIL



### Temporary Pedestrian/Bicycle Counters

Data Summary

| Deployment Summary   |  |  |  |  |  |
|--|--|--|--|--|--|
| Sponsoring Agonov  | Houston-Galveston Area Council                                       |  |  |  |  |
| Sponsoring Agency  | Texas Transportation Institute                                       |  |  |  |  |
| Deployment Period  | Thursday, September 1, 2016 – Monday, September 12, 2016             |  |  |  |  |
| Number of Counters Deployed 4  |  |  |  |  |  |
| Facility Description   | Sidewalks along Heights Boulevard at Interstate 10 (City of Houston) |  |  |  |  |
| Locations Deployed (Houston-Galveston Area Council + Texas Transportation Institute) |  |  |  |  |  |
| Counter T11 Heights Boulevard Southbound North of Interstate 10                      |  |  |  |  |  |
| Counter T12  | Heights Boulevard Northbound North of Interstate 10                  |  |  |  |  |
| Counter T13  | Heights Boulevard Southbound South of Interstate 10                  |  |  |  |  |
| Counter T14  | Heights Boulevard Northbound South of Interstate 10                  |  |  |  |  |

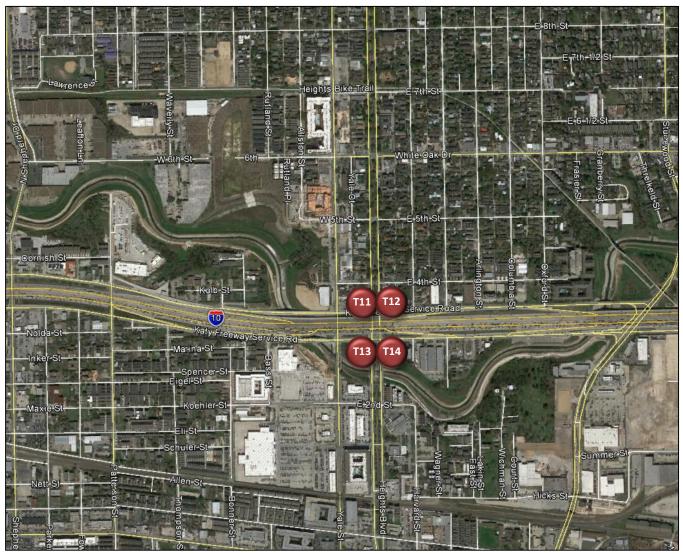
#### About the Temporary Pedestrian/Bicycle Counters

The Houston-Galveston Area Council (H-GAC) has temporary counters (TRAFx Infrared Trail Counters: Generation III) that can be borrowed by local governments and transportation agencies to count the number of people using off-street pedestrian and bicycle facilities. Infrared technology is used to count the number of people passing the counter. The counters do not differentiate between pedestrians and bicyclists, but count the total number of users.

The Texas Transportation Institute (TTI) owns additional temporary counters that it deploys along off-street pedestrian and bicycle facilities statewide.

## **Counter Locations**

Heights Boulevard at Interstate 10 (City of Houston) Thursday, September 1, 2016 – Monday, September 12, 2016



| Counter | Location  | Average<br>Daily Usage | Total Users | Page Number |
|---------|---|------------------------|-------------|-------------|
| T11     | Heights Boulevard Southbound North of Interstate 10 | 62                     | 749         | 3           |
| T12     | Heights Boulevard Northbound North of Interstate 10 | 48*                    | 265*        | 7           |
| T13     | Heights Boulevard Southbound South of Interstate 10 | 54**                   | 645**       | 11          |
| T14     | Heights Boulevard Northbound South of Interstate 10 | 75                     | 896         | 15          |

\*Counter T12 began collecting inaccurate data during the afternoon of Tuesday, September 6, 2016. Data collected after 12:00 p.m. on Tuesday, September 6, 2016 was excluded from analysis.

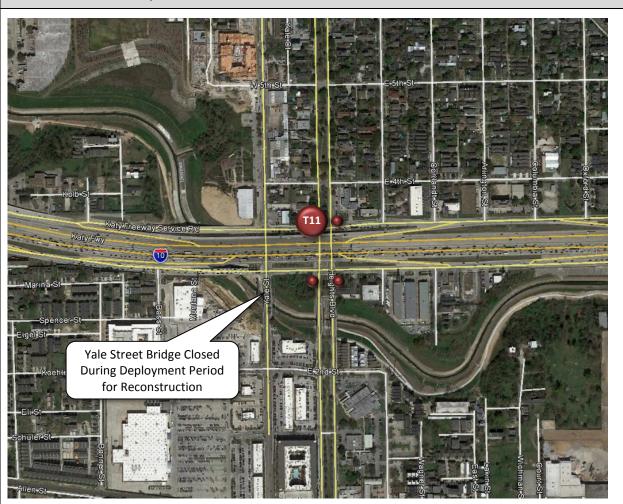
\*\*Usage recorded by Counter T13 dropped significantly after 11:15 a.m. on Saturday, September 10, 2016. Only one user was recorded on September 11, and none were recorded on September 12.

Heights Boulevard Southbound North of Interstate 10

| Location Information   |   |   |  |  |
|--|---|---|--|--|
| Location Name  | Heights E   | Boulevard Southbound North of Interstate 10   |  |  |
| Location Description   | Sidewalk  | Sidewalk along Heights Boulevard Southbound North of Interstate 10                            |  |  |
| Jurisdiction   | City of Houston   |   |  |  |
| Agency Deployed  | Houston-  | Galveston Area Council/Texas Transportation Institute   |  |  |
| GPS Coordinates  | 29°46'37  | .34"N, 95°23'51.52"W  |  |  |
| Surrounding Land Uses  | North   | Office, Commercial/Retail, Single-Family Residential,<br>Multi-Family Residential, Industrial |  |  |
|  | South   | Interstate 10, Vacant Land, White Oak Bayou, Commercial/Retail,<br>Multi-Family Residential   |  |  |
|  | East  | Commercial/Retail, Single-Family Residential  |  |  |
|  | West  | Office, Commercial/Retail, Industrial, White Oak Bayou  |  |  |
| What object was device secured to?                           | Sign Post   | (One Way)   |  |  |
| Sidewalk Width   | 5'  |   |  |  |
| Buffer Width   | 5.5'  |   |  |  |
| Street Width   | Four-Lane Divided Roadway   |   |  |  |
| Parallel Parking   | No  |   |  |  |
| Landscaping or Trees   | Yes   |   |  |  |
| Sidewalk Pavement Type                                       | Concrete  |   |  |  |
| ADA Ramps  | Yes   |   |  |  |
| Sidewalk Condition   | Good  |   |  |  |
| Speed Limit  | 35 miles  | per hour  |  |  |
| Street Lighting  | Yes   |   |  |  |
| Street Traffic Volume  | 15,821 (4   | 25 Heights Boulevard: City of Houston – 2010)   |  |  |
| Transit  | Yes<br>(METRO B   | us Stop 200' North at Heights Boulevard Southbound/W. 4th Street)                             |  |  |
| Shade  | Yes   |   |  |  |
| Have counts been collected by H-GAC at this location before? | No  |   |  |  |
| Notes  | During the deployment period, Yale Street (which parallels Heights Boulevard)<br>was closed at White Oak Bayou, just south of Interstate 10. The Texas<br>Department of Transportation (TxDOT) was building a new bridge over White<br>Oak Bayou. |   |  |  |

### Trends

- Average daily usage is 62 users/day.
- Usage tends to be higher during weekends (73 users/day) than on weekdays (57 users/day).
- On weekdays, usage remains relatively steady throughout the day.
- During weekends, usage is highest in the morning (7:00 a.m. 10:00 a.m.).



#### Location Information: Photos



Image 1: Heights Boulevard Southbound North of Interstate 10 Facing North

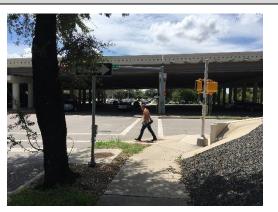
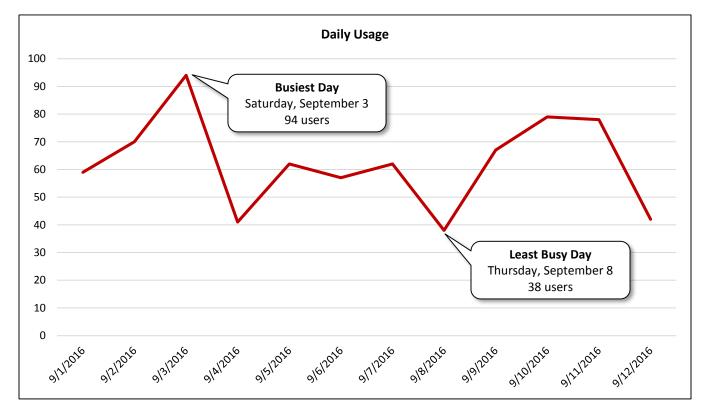


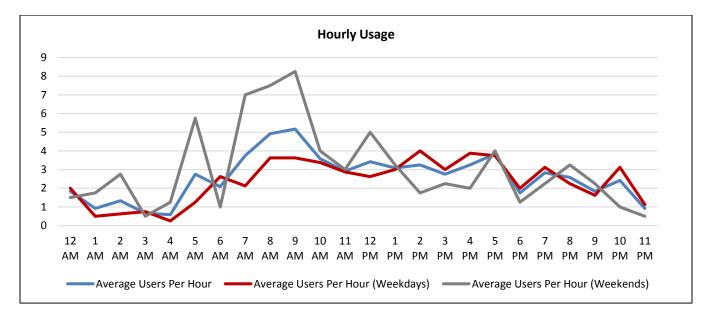
Image 2: Heights Boulevard Southbound North of Interstate 10 Facing South

| Daily Usage<br>Heights Boulevard Southbound North of Interstate 10 |       |                          |                         |                           |
|--|-------|--------------------------|-------------------------|---------------------------|
|  |       | Select Weather Data*     |                         |                           |
| Date   | Users | High Temperature<br>(°F) | Low Temperature<br>(°F) | Precipitation<br>(inches) |
| Thursday, September 1, 2016  | 59    | 97                       | 77                      | 0                         |
| Friday, September 2, 2016  | 70    | 95                       | 77                      | 0                         |
| Saturday, September 3, 2016  | 94    | 93                       | 75                      | 0                         |
| Sunday, September 4, 2016  | 41    | 94                       | 74                      | 0.29                      |
| Monday, September 5, 2016  | 62    | 90                       | 75                      | 0.02                      |
| Tuesday, September 6, 2016   | 57    | 93                       | 75                      | 0                         |
| Wednesday, September 7, 2016                                       | 62    | 94                       | 74                      | Т                         |
| Thursday, September 8, 2016  | 38    | 94                       | 76                      | 0                         |
| Friday, September 9, 2016  | 67    | 91                       | 75                      | 0.04                      |
| Saturday, September 10, 2016                                       | 79    | 90                       | 74                      | Т                         |
| Sunday, September 11, 2016   | 78    | 91                       | 72                      | 0                         |
| Monday, September 12, 2016   | 42    | 92                       | 73                      | 0                         |
| Total  | 749   | Notes                    |                         |                           |
| Average Daily Usage  | 62    | Labor Day: Monda         | ay, September 5, 2016   |                           |
| Average Daily Usage (Weekday)                                      | 57    |                          |                         |                           |
| Average Daily Usage (Weekend)                                      | 73    |                          |                         |                           |

\*Weather conditions recorded at KHOU.



| Time of Day | Average Users Per Hour | Average Users Per Hour<br>(Weekdays) | Average Users Per Hour<br>(Weekends) |
|-------------|------------------------|--------------------------------------|--------------------------------------|
| 12:00 a.m.  | 1.8                    | 2.0                                  | 1.5                                  |
| 1:00 a.m.   | 0.9                    | 0.5                                  | 1.8                                  |
| 2:00 a.m.   | 1.3                    | 0.6                                  | 2.5                                  |
| 3:00 a.m.   | 0.7                    | 0.8                                  | 0.                                   |
| 4:00 a.m.   | 0.6                    | 0.3                                  | 1.3                                  |
| 5:00 a.m.   | 2.8                    | 1.3                                  | 5.                                   |
| 6:00 a.m.   | 2.1                    | 2.6                                  | 1.                                   |
| 7:00 a.m.   | 3.8                    | 2.1                                  | 7.                                   |
| 8:00 a.m.   | 4.9                    | 3.6                                  | 7.                                   |
| 9:00 a.m.   | 5.2                    | 3.6                                  | 8.                                   |
| 10:00 a.m.  | 3.6                    | 3.4                                  | 4.                                   |
| 11:00 a.m.  | 2.9                    | 2.9                                  | 3.                                   |
| 12:00 p.m.  | 3.4                    | 2.6                                  | 5.                                   |
| 1:00 p.m.   | 3.1                    | 3.0                                  | 3.                                   |
| 2:00 p.m.   | 3.3                    | 4.0                                  | 1.                                   |
| 3:00 p.m.   | 2.8                    | 3.0                                  | 2.                                   |
| 4:00 p.m.   | 3.3                    | 3.9                                  | 2.                                   |
| 5:00 p.m.   | 3.8                    | 3.8                                  | 4.                                   |
| 6:00 p.m.   | 1.8                    | 2.0                                  | 1.                                   |
| 7:00 p.m.   | 2.8                    | 3.1                                  | 2.                                   |
| 8:00 p.m.   | 2.6                    | 2.3                                  | 3.                                   |
| 9:00 p.m.   | 1.8                    | 1.6                                  | 2.                                   |
| 10:00 p.m.  | 2.4                    | 3.1                                  | 1.                                   |
| 11:00 p.m.  | 0.9                    | 1.1                                  | 0.                                   |



Heights Boulevard Northbound North of Interstate 10

| Location Information   |  |   |  |
|--|--|---|--|
| Location Name  | Heights Boulevard Northbound North of Interstate 10                |   |  |
| Location Description   | Sidewalk along Heights Boulevard Northbound North of Interstate 10 |   |  |
| Jurisdiction   | City of Houston  |   |  |
| Agency Deployed  | Houston-Galveston Area Council/Texas Transportation Institute      |   |  |
| GPS Coordinates  | 29°46'37.7   | 73"N, 95°23'50.10"W   |  |
| Surrounding Land Uses  | North  | Commercial/Retail, Office, Single-Family Residential,<br>Multi-Family Residential, Industrial   |  |
|  | South  | Interstate 10, Office, Vacant Land, White Oak Bayou,<br>Commercial/Retail, Multi-Family Residential   |  |
|  | East   | Commercial/Retail, Single-Family Residential  |  |
|  | West   | Office, Commercial/Retail, Industrial, White Oak Bayou  |  |
| What object was device secured to?                           | Sign Post (  | Bicycle Lane)   |  |
| Sidewalk Width   | 6'   |   |  |
| Buffer Width   | 4.5'   |   |  |
| Street Width   | Four-Lane  | Divided Roadway   |  |
| Parallel Parking   | No   |   |  |
| Landscaping or Trees   | No   |   |  |
| Sidewalk Pavement Type                                       | Concrete   |   |  |
| ADA Ramps  | Yes  |   |  |
| Sidewalk Condition   | Good   |   |  |
| Speed Limit  | 35 miles per hour  |   |  |
| Street Lighting  | Yes  |   |  |
| Street Traffic Volume  | 15,821 (42   | 25 Heights Boulevard: City of Houston – 2010)   |  |
| Transit  | Yes<br>(METRO Bu   | s Stop 220' North at Heights Boulevard Northbound/E. 4th Street)  |  |
| Shade  | No   |   |  |
| Have counts been collected by H-GAC at this location before? | No   |   |  |
| was closed at White Oak Bayou, just south of Interstate 10.  |  | e deployment period, Yale Street (which parallels Heights Boulevard)<br>d at White Oak Bayou, just south of Interstate 10. The Texas<br>nt of Transportation (TxDOT) was building a new bridge over White<br>J. |  |
|  | Septembe   | 12 began collecting inaccurate data during the afternoon of Tuesday,<br>r 6, 2016. Data collected after 12:00 p.m. on Tuesday, September 6,<br>excluded from analysis.  |  |

#### Trends

• Average daily usage is 48 users/day.

• Usage tends to be higher during weekends (55 users/day) than on weekdays (45 users/day).

• On weekdays, usage varies throughout the day. There are spikes in usage during the morning (7:00 a.m. – 8:00 a.m. and 9:00 a.m. – 10:00 a.m.), midday (12:00 p.m. – 2:00 p.m.), and later in the evening (8:00 p.m. – 9:00 p.m.).

• During weekends, usage is highest in the late morning (10:00 a.m. – 11:00 a.m.).



### Location Information: Photos



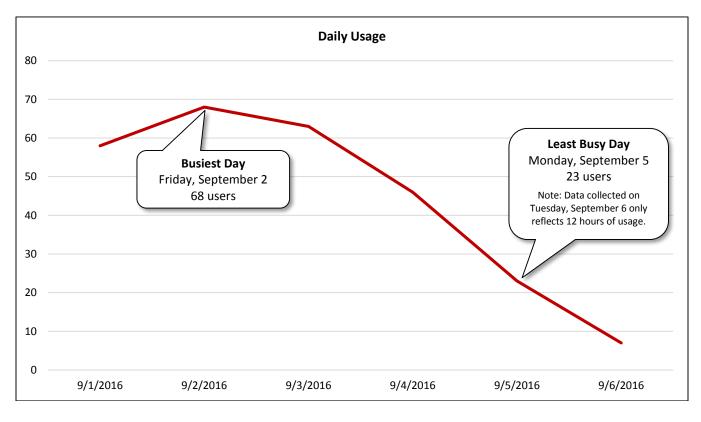
Image 3: Heights Boulevard Northbound North of Interstate 10 Facing North



Image 4: Heights Boulevard Northbound North of Interstate 10 Facing South

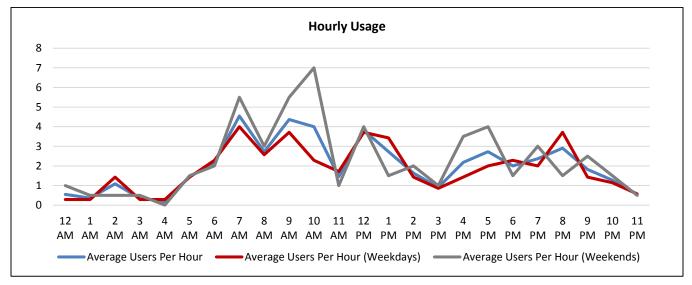
| Daily Usage<br>Heights Boulevard Northbound North of Interstate 10 |       |   |  |                           |
|--|-------|---|--|---------------------------|
|  |       | Select Weather Data*                                    |  |                           |
| Date   | Users | High Temperature<br>(°F)                                | Low Temperature<br>(°F)                          | Precipitation<br>(inches) |
| Thursday, September 1, 2016  | 58    | 97  | 77   | 0                         |
| Friday, September 2, 2016  | 68    | 95  | 77   | 0                         |
| Saturday, September 3, 2016  | 63    | 93  | 75   | 0                         |
| Sunday, September 4, 2016  | 46    | 94  | 74   | 0.29                      |
| Monday, September 5, 2016  | 23    | 90  | 75   | 0.02                      |
| Tuesday, September 6, 2016<br>(until 12:00 p.m.)                   | 7     | 93  | 75   | 0                         |
| Total  | 265   | Notes   |  |                           |
| Average Daily Usage  | 48    | Labor Day: Monda  | y, September 5, 2016                             |                           |
| Average Daily Usage (Weekday)                                      | 45    | Counter T12 began collecting inaccurate data during the |  |                           |
| Average Daily Usage (Weekend)                                      | 55    | afternoon of Tueso                                      | day, September 6, 2016<br>n Tuesday, September 6 | . Data collected          |

\*Weather conditions recorded at KHOU.



| Time of Day | Average Users Per Hour | Average Users Per Hour<br>(Weekdays) | Average Users Per Hour<br>(Weekends) |
|-------------|------------------------|--------------------------------------|--------------------------------------|
| 12:00 a.m.  | 0.5                    | 0.3                                  | 1.0                                  |
| 1:00 a.m.   | 0.4                    | 0.3                                  | 0.5                                  |
| 2:00 a.m.   | 1.1                    | 1.4                                  | 0.5                                  |
| 3:00 a.m.   | 0.4                    | 0.3                                  | 0.5                                  |
| 4:00 a.m.   | 0.2                    | 0.3                                  | 0.0                                  |
| 5:00 a.m.   | 1.5                    | 1.4                                  | 1.1                                  |
| 6:00 a.m.   | 2.2                    | 2.3                                  | 2.0                                  |
| 7:00 a.m.   | 4.5                    | 4.0                                  | 5.                                   |
| 8:00 a.m.   | 2.7                    | 2.6                                  | 3.                                   |
| 9:00 a.m.   | 4.4                    | 3.7                                  | 5.                                   |
| 10:00 a.m.  | 4.0                    | 2.3                                  | 7.                                   |
| 11:00 a.m.  | 1.5                    | 1.7                                  | 1.                                   |
| 12:00 p.m.  | 3.8                    | 3.7                                  | 4.                                   |
| 1:00 p.m.   | 2.7                    | 3.4                                  | 1.                                   |
| 2:00 p.m.   | 1.6                    | 1.4                                  | 2.                                   |
| 3:00 p.m.   | 0.9                    | 0.9                                  | 1.                                   |
| 4:00 p.m.   | 2.2                    | 1.4                                  | 3.                                   |
| 5:00 p.m.   | 2.7                    | 2.0                                  | 4.                                   |
| 6:00 p.m.   | 2.0                    | 2.3                                  | 1.                                   |
| 7:00 p.m.   | 2.4                    | 2.0                                  | 3.                                   |
| 8:00 p.m.   | 2.9                    | 3.7                                  | 1.                                   |
| 9:00 p.m.   | 1.8                    | 1.4                                  | 2.                                   |
| 10:00 p.m.  | 1.3                    | 1.1                                  | 1.                                   |
| 11:00 p.m.  | 0.5                    | 0.6                                  | 0.                                   |

Note: Counter T12 began collecting inaccurate data during the afternoon of Tuesday, September 6, 2016. Data collected after 12:00 p.m. on Tuesday, September 6, 2016 was excluded from analysis.



Heights Boulevard Southbound South of Interstate 10

| Location Information   |  |   |  |
|--|--|---|--|
| Location Name  | Heights Boulevard Southbound South of Interstate 10                              |   |  |
| Location Description   | Sidewalk along Heights Boulevard Southbound South of Interstate 10               |   |  |
| Jurisdiction   | City of Houston  |   |  |
| Agency Deployed  | Houston-Galveston Area Council/Texas Transportation Institute                    |   |  |
| GPS Coordinates  | 29°46'33.4   | 17"N, 95°23'51.48"W   |  |
| Surrounding Land Uses  | North  | Interstate 10, Office, Commercial/Retail, Single-Family Residential,<br>Multi-Family Residential  |  |
|  | South  | Vacant Land, White Oak Bayou, Commercial/Retail,<br>Multi-Family Residential  |  |
|  | East   | Office, Industrial  |  |
|  | West   | Vacant Land, White Oak Bayou, Commercial/Retail   |  |
| What object was device secured to?                           | Sign Post (  | Yale St. Southbound Thru Trucks Route)  |  |
| Sidewalk Width   | 6'   |   |  |
| Buffer Width   | 5.5'   |   |  |
| Street Width   | Four-Lane  | Divided Roadway   |  |
| Parallel Parking   | No   |   |  |
| Landscaping or Trees   | No   |   |  |
| Sidewalk Pavement Type                                       | Concrete   |   |  |
| ADA Ramps  | Yes  |   |  |
| Sidewalk Condition   | Poor<br>(Smooth Pavement, but Overgrown Vegetation and Debris Obstruct Sidewalk) |   |  |
| Speed Limit  | 35 miles per hour  |   |  |
| Street Lighting  | Yes  |   |  |
| Street Traffic Volume  | 10,530 (20   | 00 Heights Boulevard: TxDOT – 2012)   |  |
| Transit  | Yes<br>(METRO Bu<br>Frontage Ro  | is Stop 140' East at Heights Boulevard Northbound/Interstate 10 Eastbound<br>oad)   |  |
| Shade  | Intermitte   | nt  |  |
| Have counts been collected by H-GAC at this location before? | No   |   |  |
| Notes  | was closed   | e deployment period, Yale Street (which parallels Heights Boulevard)<br>d at White Oak Bayou, just south of Interstate 10. The Texas<br>nt of Transportation (TxDOT) was building a new bridge over White<br>J. |  |
|  | 10, 2016. (  | usage dropped significantly after 11:15 a.m. on Saturday, September<br>Only one user was recorded on September 11, and none were<br>on September 12.  |  |

#### Trends

• Average daily usage is 54 users/day.

• Usage tends to be higher on weekdays (60 users/day) than during weekends (41 users/day).

- On weekdays, usage varies throughout the day. There are spikes in usage during the morning (7:00 a.m. 8:00 a.m. and 9:00 a.m. 10:00 a.m.), midday (12:00 p.m. 1:00 p.m.), and later in the evening (7:00 p.m. 8:00 p.m.).
- During weekends, usage is highest in the morning (9:00 a.m. 10:00 a.m.).



### Location Information: Photos



Image 5: Heights Boulevard Southbound South of Interstate 10 Facing North



Image 6: Heights Boulevard Southbound South of Interstate 10 Facing South

# Daily Usage

Heights Boulevard Southbound South of Interstate 10

|                              |       |  | Select Weather Data*    |                           |
|------------------------------|-------|--|-------------------------|---------------------------|
| Date                         | Users | High Temperature<br>(°F)               | Low Temperature<br>(°F) | Precipitation<br>(inches) |
| Thursday, September 1, 2016  | 58    | 97                                     | 77                      | 0                         |
| Friday, September 2, 2016    | 65    | 95                                     | 77                      | 0                         |
| Saturday, September 3, 2016  | 70    | 93                                     | 75                      | 0                         |
| Sunday, September 4, 2016    | 67    | 94                                     | 74                      | 0.29                      |
| Monday, September 5, 2016    | 60    | 90                                     | 75                      | 0.02                      |
| Tuesday, September 6, 2016   | 79    | 93                                     | 75                      | 0                         |
| Wednesday, September 7, 2016 | 84    | 94                                     | 74                      | Т                         |
| Thursday, September 8, 2016  | 79    | 94                                     | 76                      | 0                         |
| Friday, September 9, 2016    | 55    | 91                                     | 75                      | 0.04                      |
| Saturday, September 10, 2016 | 27    | 90                                     | 74                      | Т                         |
| Sunday, September 11, 2016   | 1     | 91                                     | 72                      | 0                         |
| Monday, September 12, 2016   | 0     | 92                                     | 73                      | 0                         |
| Total                        | 645   | Notes                                  |                         |                           |
| Average Daily Usage          | 54    | 4 Labor Day: Monday, September 5, 2016 |                         |                           |

60

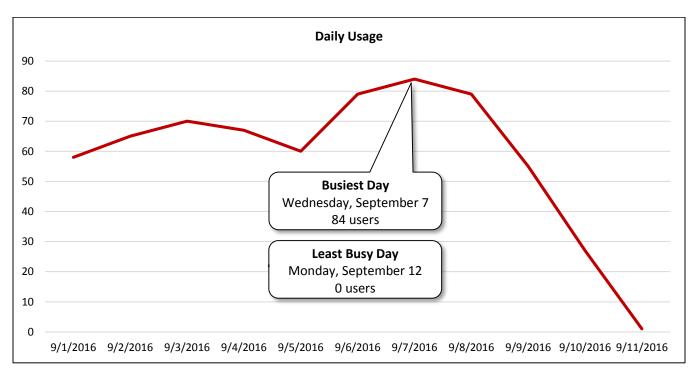
41

Recorded usage dropped significantly after 11:15 a.m. on Saturday, September 10, 2016. Only one user was recorded on September 11, and none were recorded on September 12.

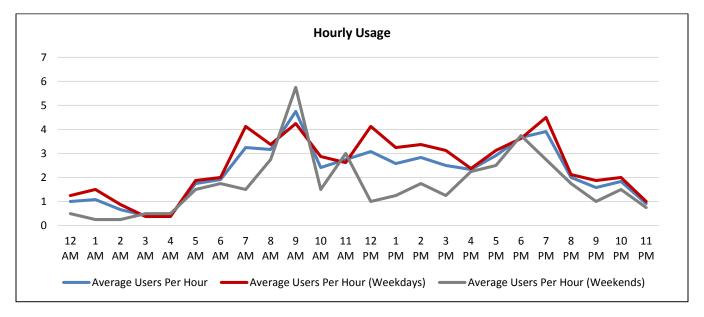
\*Weather conditions recorded at KHOU.

Average Daily Usage (Weekday)

Average Daily Usage (Weekend)



| Time of Day | Average Users Per Hour | Average Users Per Hour<br>(Weekdays) | Average Users Per Hour<br>(Weekends) |
|-------------|------------------------|--------------------------------------|--------------------------------------|
| 12:00 a.m.  | 1.0                    | 1.3                                  | 0.5                                  |
| 1:00 a.m.   | 1.1                    | 1.5                                  | 0.3                                  |
| 2:00 a.m.   | 0.7                    | 0.9                                  | 0.3                                  |
| 3:00 a.m.   | 0.4                    | 0.4                                  | 0.5                                  |
| 4:00 a.m.   | 0.4                    | 0.4                                  | 0.9                                  |
| 5:00 a.m.   | 1.8                    | 1.9                                  | 1.!                                  |
| 6:00 a.m.   | 1.9                    | 2.0                                  | 1.8                                  |
| 7:00 a.m.   | 3.3                    | 4.1                                  | 1.1                                  |
| 8:00 a.m.   | 3.2                    | 3.4                                  | 2.                                   |
| 9:00 a.m.   | 4.8                    | 4.3                                  | 5.                                   |
| 10:00 a.m.  | 2.4                    | 2.9                                  | 1.                                   |
| 11:00 a.m.  | 2.8                    | 2.6                                  | 3.                                   |
| 12:00 p.m.  | 3.1                    | 4.1                                  | 1.                                   |
| 1:00 p.m.   | 2.6                    | 3.3                                  | 1.                                   |
| 2:00 p.m.   | 2.8                    | 3.4                                  | 1.                                   |
| 3:00 p.m.   | 2.5                    | 3.1                                  | 1.                                   |
| 4:00 p.m.   | 2.3                    | 2.4                                  | 2.                                   |
| 5:00 p.m.   | 2.9                    | 3.1                                  | 2.                                   |
| 6:00 p.m.   | 3.7                    | 3.6                                  | 3.                                   |
| 7:00 p.m.   | 3.9                    | 4.5                                  | 2.                                   |
| 8:00 p.m.   | 2.0                    | 2.1                                  | 1.                                   |
| 9:00 p.m.   | 1.6                    | 1.9                                  | 1.                                   |
| 10:00 p.m.  | 1.8                    | 2.0                                  | 1.                                   |
| 11:00 p.m.  | 0.9                    | 1.0                                  | 0.                                   |



Heights Boulevard Northbound South of Interstate 10

| Location Information   |   |  |  |
|--|---|--|--|
| Location Name  | Heights Boulevard Northbound South of Interstate 10   |  |  |
| Location Description   | Sidewalk along Heights Boulevard Northbound South of Interstate 10  |  |  |
| Jurisdiction   | City of Houston   |  |  |
| Agency Deployed  | Houston-0   | Galveston Area Council/Texas Transportation Institute  |  |
| GPS Coordinates  | 29°46'33.   | 63"N, 95°23'50.01"W  |  |
| Surrounding Land Uses  | North   | Interstate 10, Commercial/Retail, Office, Single-Family Residential,<br>Multi-Family Residential |  |
|  | South   | Office, White Oak Bayou, Multi-Family Residential,<br>Commercial/Retail                          |  |
|  | East  | Office, Industrial   |  |
|  | West  | Vacant Land, White Oak Bayou, Commercial/Retail  |  |
| What object was device secured to?                           | Sign Post   | (Interstate 10 Directional Signs)  |  |
| Sidewalk Width   | 4'  |  |  |
| Buffer Width   | 4'  |  |  |
| Street Width   | Four-Lane Divided Roadway   |  |  |
| Parallel Parking   | No  |  |  |
| Landscaping or Trees   | No  |  |  |
| Sidewalk Pavement Type                                       | Concrete  |  |  |
| ADA Ramps  | Yes   |  |  |
| Sidewalk Condition   | Good  |  |  |
| Speed Limit  | 35 miles per hour   |  |  |
| Street Lighting  | Yes   |  |  |
| Street Traffic Volume  | 10,530 (20  | 00 Heights Boulevard: TxDOT – 2012)  |  |
| Transit  | Yes<br>(METRO Bus Stop 10' North at Heights Boulevard Northbound/Interstate 10 Eastbound<br>Frontage Road)  |  |  |
| Shade  | No  |  |  |
| Have counts been collected by H-GAC at this location before? | No  |  |  |
| Notes  | During the deployment period, Yale Street (which parallels Heights Boulevard)<br>was closed at White Oak Bayou, just south of Interstate 10. The Texas<br>Department of Transportation (TxDOT) was building a new bridge over White<br>Oak Bayou. |  |  |

Trends

• Average daily usage is 75 users/day.

• Usage tends to be much higher during weekends (93 users/day) than on weekdays (66 users/day).

- On weekdays, usage is highest in the late afternoon (3:00 p.m. 4:00 p.m.).
- During weekends, usage is highest in the late morning (10:00 a.m. 11:00 a.m.).



#### Location Information: Photos

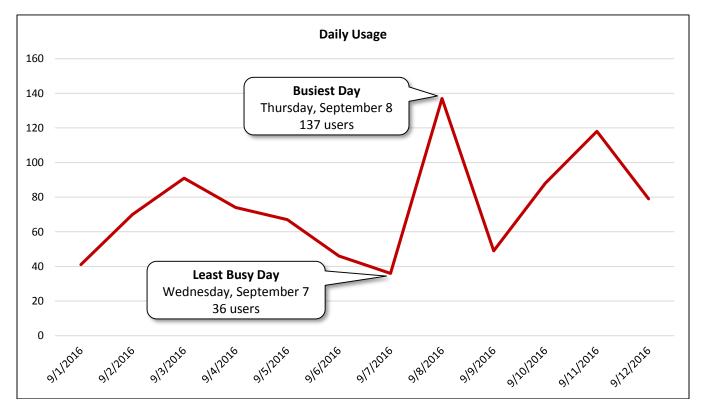


Image 7: Heights Boulevard Northbound South of Interstate 10 Facing North

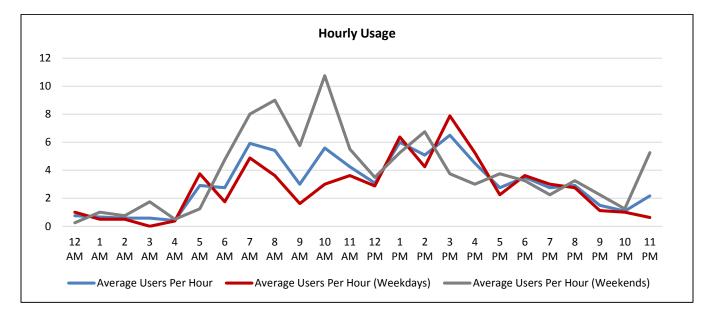
Image 8: Heights Boulevard Northbound South of Interstate 10 Facing South

| Daily Usage<br>Heights Boulevard Northbound South of Interstate 10 |       |                                      |                         |                           |  |
|--|-------|--------------------------------------|-------------------------|---------------------------|--|
|  |       | Select Weather Data*                 |                         |                           |  |
| Date   | Users | High Temperature<br>(°F)             | Low Temperature<br>(°F) | Precipitation<br>(inches) |  |
| Thursday, September 1, 2016  | 41    | 97                                   | 77                      | 0                         |  |
| Friday, September 2, 2016  | 70    | 95                                   | 77                      | 0                         |  |
| Saturday, September 3, 2016  | 91    | 93                                   | 75                      | 0                         |  |
| Sunday, September 4, 2016  | 74    | 94                                   | 74                      | 0.29                      |  |
| Monday, September 5, 2016  | 67    | 90                                   | 75                      | 0.02                      |  |
| Tuesday, September 6, 2016   | 46    | 93                                   | 75                      | 0                         |  |
| Wednesday, September 7, 2016                                       | 36    | 94                                   | 74                      | Т                         |  |
| Thursday, September 8, 2016  | 137   | 94                                   | 76                      | 0                         |  |
| Friday, September 9, 2016  | 49    | 91                                   | 75                      | 0.04                      |  |
| Saturday, September 10, 2016                                       | 88    | 90                                   | 74                      | Т                         |  |
| Sunday, September 11, 2016   | 118   | 91                                   | 72                      | 0                         |  |
| Monday, September 12, 2016   | 79    | 92                                   | 73                      | 0                         |  |
| Total  | 896   | Notes                                |                         |                           |  |
| Average Daily Usage  | 75    | Labor Day: Monday, September 5, 2016 |                         |                           |  |
| Average Daily Usage (Weekday)                                      | 66    |                                      |                         |                           |  |
| Average Daily Usage (Weekend)                                      | 93    |                                      |                         |                           |  |

\*Weather conditions recorded at KHOU.



| Time of Day | Average Users Per Hour | Average Users Per Hour<br>(Weekdays) | Average Users Per Hour<br>(Weekends) |  |
|-------------|------------------------|--------------------------------------|--------------------------------------|--|
| 12:00 a.m.  | 0.8                    | 1.0                                  | 0.3                                  |  |
| 1:00 a.m.   | 0.7                    | 0.5                                  | 1.0                                  |  |
| 2:00 a.m.   | 0.6                    | 0.5                                  | 0.8                                  |  |
| 3:00 a.m.   | 0.6                    | 0.0                                  | 1.8                                  |  |
| 4:00 a.m.   | 0.4                    | 0.4                                  | 0.5                                  |  |
| 5:00 a.m.   | 2.9                    | 3.8                                  | 1.3                                  |  |
| 6:00 a.m.   | 2.8                    | 1.8                                  | 4.8                                  |  |
| 7:00 a.m.   | 5.9                    | 4.9                                  | 8.0                                  |  |
| 8:00 a.m.   | 5.4                    | 3.6                                  | 9.0                                  |  |
| 9:00 a.m.   | 3.0                    | 1.6                                  | 5.8                                  |  |
| 10:00 a.m.  | 5.6                    | 3.0                                  | 10.3                                 |  |
| 11:00 a.m.  | 4.3                    | 3.6                                  | 5.                                   |  |
| 12:00 p.m.  | 3.1                    | 2.9                                  | 3.                                   |  |
| 1:00 p.m.   | 6.0                    | 6.4                                  | 5.3                                  |  |
| 2:00 p.m.   | 5.1                    | 4.3                                  | 6.8                                  |  |
| 3:00 p.m.   | 6.5                    | 7.9                                  | 3.                                   |  |
| 4:00 p.m.   | 4.5                    | 5.3                                  | 3.                                   |  |
| 5:00 p.m.   | 2.8                    | 2.3                                  | 3.                                   |  |
| 6:00 p.m.   | 3.5                    | 3.6                                  | 3.                                   |  |
| 7:00 p.m.   | 2.8                    | 3.0                                  | 2.1                                  |  |
| 8:00 p.m.   | 2.9                    | 2.8                                  | 3.:                                  |  |
| 9:00 p.m.   | 1.5                    | 1.1                                  | 2.                                   |  |
| 10:00 p.m.  | 1.1                    | 1.0                                  | 1.                                   |  |
| 11:00 p.m.  | 2.2                    | 0.6                                  | 5.                                   |  |



# Participants

City of Houston: Parks and Recreation Department www.houstontx.gov/parks/

Houston-Galveston Area Council: Pedestrian-Bicyclist Planning www.h-gac.com/go/pedbike

Texas Transportation Institute http://tti.tamu.edu/