

**HOUSTON-GALVESTON AREA COUNCIL**



Temporary Pedestrian/Bicycle Counters  
Data Summary

<b>Deployment Summary</b>	
Sponsoring Agency	City of Bellaire
Deployment Period	May 29, 2015 – June 21, 2015
Number of Counters Deployed	3
Locations Deployed	
Counter #1	Newcastle Trail at Fournace Place
Counter #2	Newcastle Trail at Jim West Street
Counter #3	Newcastle Trail at Holt Street

**About the Temporary Pedestrian/Bicycle Counters**

The Houston-Galveston Area Council (H-GAC) has three 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.

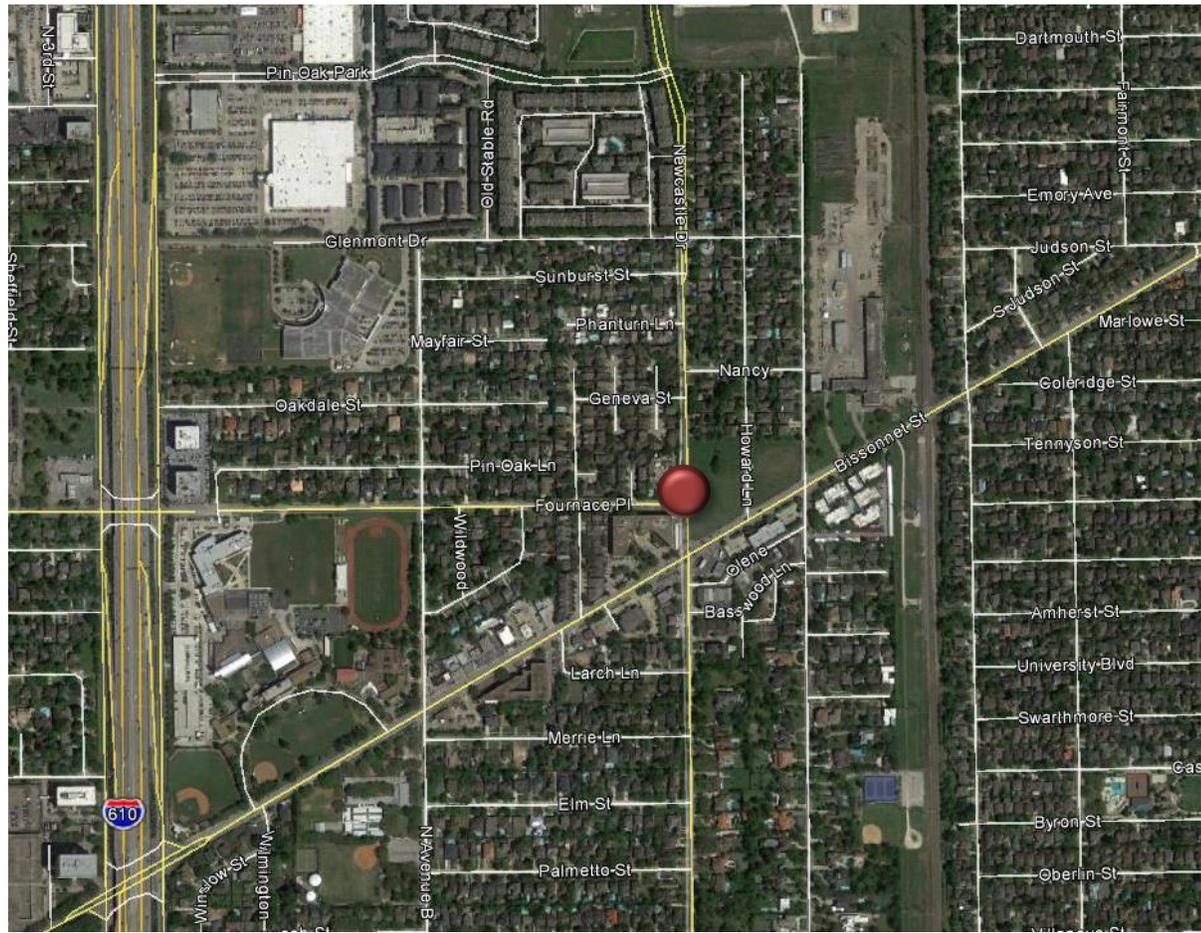
**Counter #1**

Newcastle Trail at Fournace Place

Location Information	
Location Name	Newcastle Trail at Fournace Place
Location Description	Newcastle Trail at Fournace Place
Jurisdiction	City of Bellaire
Agency Deployed	City of Bellaire
GPS Coordinates	29°43'1"N, 95°27'5"W
Surrounding Land Uses	North   Single-Family Residential
	South   Retail and Office (along Bissonnet Street)
	East   Vacant
	West   Multi-Family and Single-Family Residential
What object was device secured to?	Sign Showing Mandatory Movements for Newcastle Street Southbound at Bissonnet Street
Date/Time Installed	May 28, 2015 (4:00 p.m.)
Date/Time Retrieved	June 22, 2015 (11:20 a.m.)
Sidewalk Width	8 feet
Buffer Width	13 feet
Street Width	Two-Lane Street (One Lane Each Direction)
Parallel Parking	None
Landscaping or Trees	Some trees on west side of Newcastle Trail
Sidewalk Pavement Type	Concrete
ADA Ramps	Yes
Sidewalk Condition	Excellent
Speed Limit	30 mph
Street Lighting	Yes (Intermittent lighting along Newcastle Street)
Street Traffic Volume	12,080 (5700 Newcastle Street: 2006)
Transit	Nearby (METRO Bus Stop about 0.1 miles south at intersection of Bissonnet Street and Newcastle Street)
Shade	Some trees on west side of Newcastle Trail
Have counts been collected by H-GAC at this location before?	No

Trends
<ul style="list-style-type: none"> <li>• Average daily usage on weekdays is similar to that on weekends (about 78 users/day).</li> <li>• On weekdays and weekends, hourly usage is similar. Peak usage is in the morning (8:00 a.m. – 10:00 a.m.), with slightly more usage on weekends. Activity drops significantly in the late morning and afternoon. There is an increase in usage in the evening (7:00 p.m. – 10:00 p.m. on weekdays and 7:00 p.m. – 9:00 p.m. on weekends).</li> <li>• Rainfall may influence usage. The least busy day (Tuesday, June 16: 43 users) was also the rainiest day. June 16 had about 40% fewer users than the previous Tuesday (June 9: 72 users), when there was no rainfall.</li> </ul>

### Location Information: Map



### Location Information: Photos



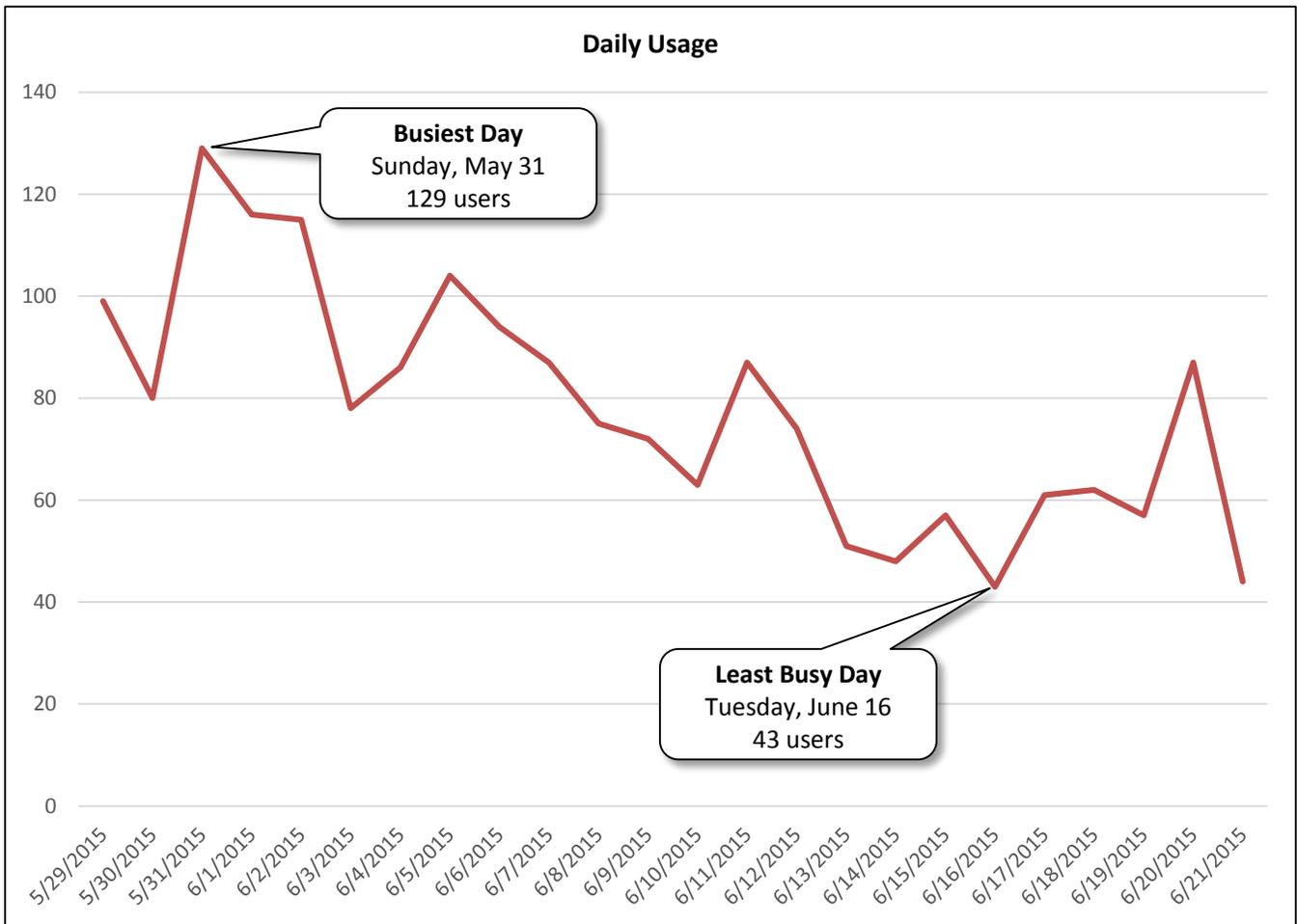
Image 1: Trail along Newcastle Street Facing North



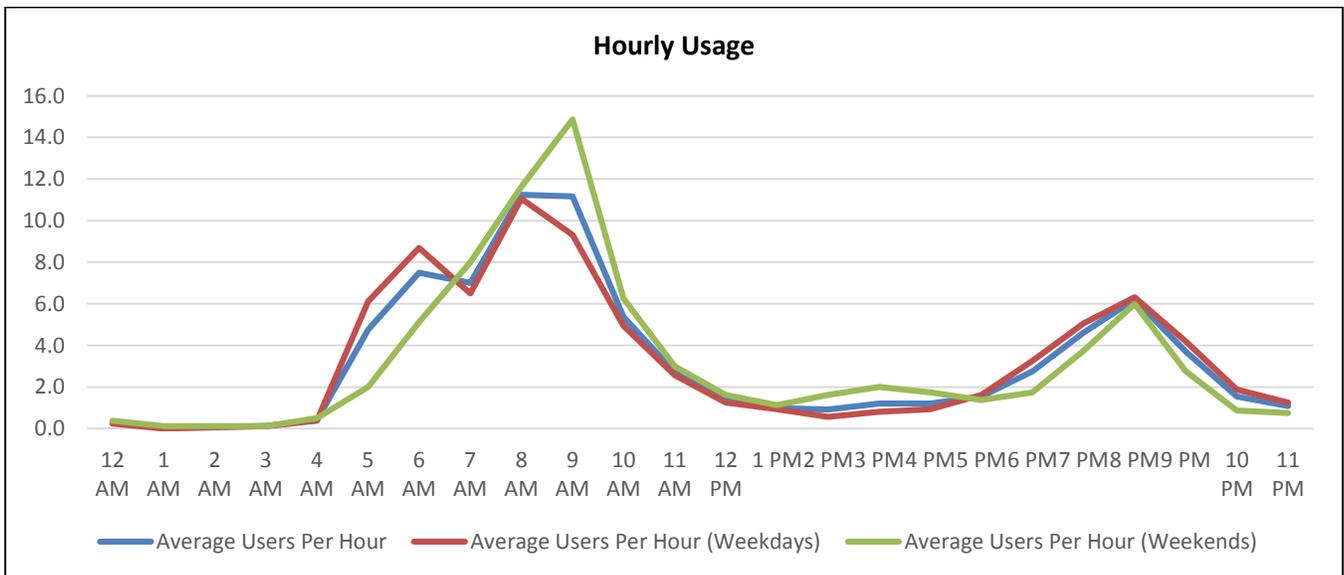
Image 2: Trail along Newcastle Street Facing South

Daily Usage				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, May 29, 2015	99	89	70	0.01
Saturday, May 30, 2015	80	91	69	0.57
Sunday, May 31, 2015	129	87	69	0
Monday, June 1, 2015	116	89	66	0
Tuesday, June 2, 2015	115	90	68	0
Wednesday, June 3, 2015	78	91	69	0
Thursday, June 4, 2015	86	90	69	0
Friday, June 5, 2015	104	92	72	0
Saturday, June 6, 2015	94	93	72	0
Sunday, June 7, 2015	87	93	72	0
Monday, June 8, 2015	75	93	72	0
Tuesday, June 9, 2015	72	93	74	0
Wednesday, June 10, 2015	63	94	74	0
Thursday, June 11, 2015	87	94	73	0.01
Friday, June 12, 2015	74	92	74	T
Saturday, June 13, 2015	51	86	74	0.35
Sunday, June 14, 2015	48	88	74	0.52
Monday, June 15, 2015	57	90	75	0.14
Tuesday, June 16, 2015	43	80	75	2.26
Wednesday, June 17, 2015	61	84	76	0.7
Thursday, June 18, 2015	62	86	76	T
Friday, June 19, 2015	57	90	76	0
Saturday, June 20, 2015	87	90	77	0.2
Sunday, June 21, 2015	44	93	78	0
<b>Total</b>	1,869			
<b>Average Daily Usage</b>	78			
<b>Average Daily Usage (Weekday)</b>	78			
<b>Average Daily Usage (Weekend)</b>	78			
		<b>Notes</b>		
		<ul style="list-style-type: none"> <li>The last day of school for students at Houston ISD was Thursday, May 28, 2015.</li> <li>Father's Day was Sunday, June 21.</li> </ul>		

\*Weather conditions recorded at KHOU (Houston, TX).



Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.3	0.3	0.4
1:00 a.m.	0.0	0.0	0.1
2:00 a.m.	0.1	0.1	0.1
3:00 a.m.	0.1	0.1	0.1
4:00 a.m.	0.4	0.4	0.5
5:00 a.m.	4.8	6.1	2.0
6:00 a.m.	7.5	8.7	5.1
7:00 a.m.	7.0	6.5	8.0
8:00 a.m.	11.3	11.1	11.6
9:00 a.m.	11.2	9.3	14.9
10:00 a.m.	5.4	4.9	6.3
11:00 a.m.	2.7	2.6	3.0
12:00 p.m.	1.4	1.3	1.6
1:00 p.m.	1.0	0.9	1.1
2:00 p.m.	0.9	0.6	1.6
3:00 p.m.	1.2	0.8	2.0
4:00 p.m.	1.2	0.9	1.8
5:00 p.m.	1.5	1.6	1.4
6:00 p.m.	2.8	3.3	1.8
7:00 p.m.	4.6	5.1	3.8
8:00 p.m.	6.2	6.3	6.0
9:00 p.m.	3.7	4.2	2.8
10:00 p.m.	1.5	1.9	0.9
11:00 p.m.	1.1	1.3	0.8



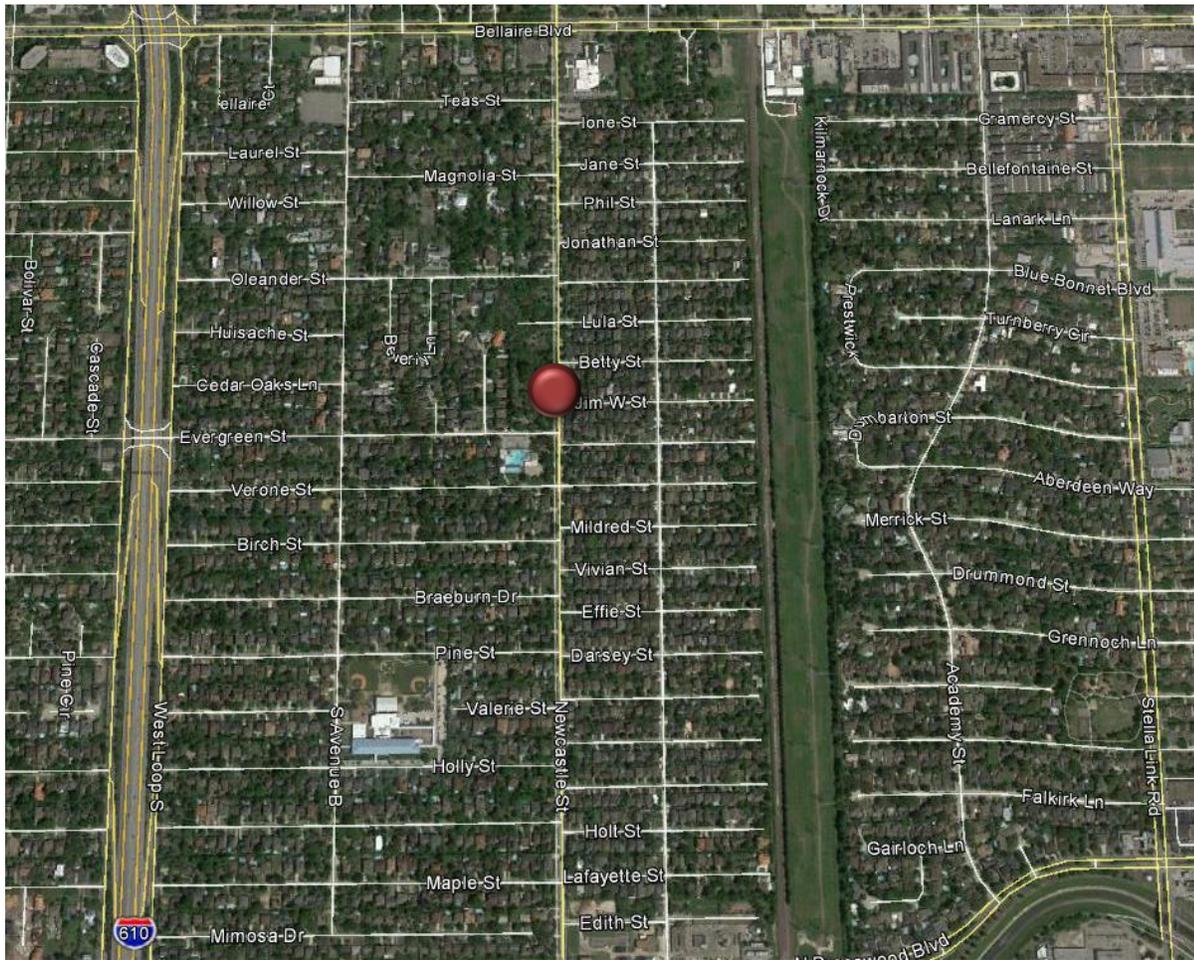
**Counter #2**

Newcastle Trail at Jim West Street

Location Information		
Location Name	Newcastle Trail at Jim West Street	
Location Description	Newcastle Trail between Jim West Street and Betty Street, adjacent to Russ Pitman Park	
Jurisdiction	City of Bellaire	
Agency Deployed	City of Bellaire	
GPS Coordinates	29°41'58"N, 95°27'4"W	
Surrounding Land Uses	North	Russ Pitman Park and Single-Family Residential
	South	Russ Pitman Park, Evergreen Park and Pool, Single-Family Resid.
	East	Single-Family Residential
	West	Russ Pitman Park and Single-Family Residential
What object was device secured to?	Speed Limit (30 mph) Sign	
Date/Time Installed	May 28, 2015 (4:00 p.m.)	
Date/Time Retrieved	June 22, 2015 (11:20 a.m.)	
Sidewalk Width	8 feet (including raised curb)	
Buffer Width	9 feet	
Street Width	Two-Lane Street (One Lane Each Direction)	
Parallel Parking	None	
Landscaping or Trees	Trees adjacent to west side of Newcastle Trail	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Excellent	
Speed Limit	30 mph	
Street Lighting	Yes (Intermittent lighting along Newcastle Street)	
Street Traffic Volume	11,010 (6800 Newcastle Street: 2006)	
Transit	No	
Shade	Some trees on west side of Newcastle Trail	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> <li>• There tends to be slightly higher usage on weekends than during weekdays.</li> <li>• On weekdays, the facility experiences higher usage in the morning (5:00 a.m. – 10:00 a.m.) and the evening (4:00 p.m. – 10:00 p.m.).</li> <li>• On weekends, peak usage is in the morning (7:00 a.m. – 12:00 p.m.).</li> <li>• Rainfall may influence usage. The least busy day (Tuesday, June 16: 137 users) was also the rainiest day. June 16 had 52% fewer users than the previous Tuesday (June 9: 284 users), when there was no rainfall.</li> </ul>

### Location Information: Map



### Location Information: Photos



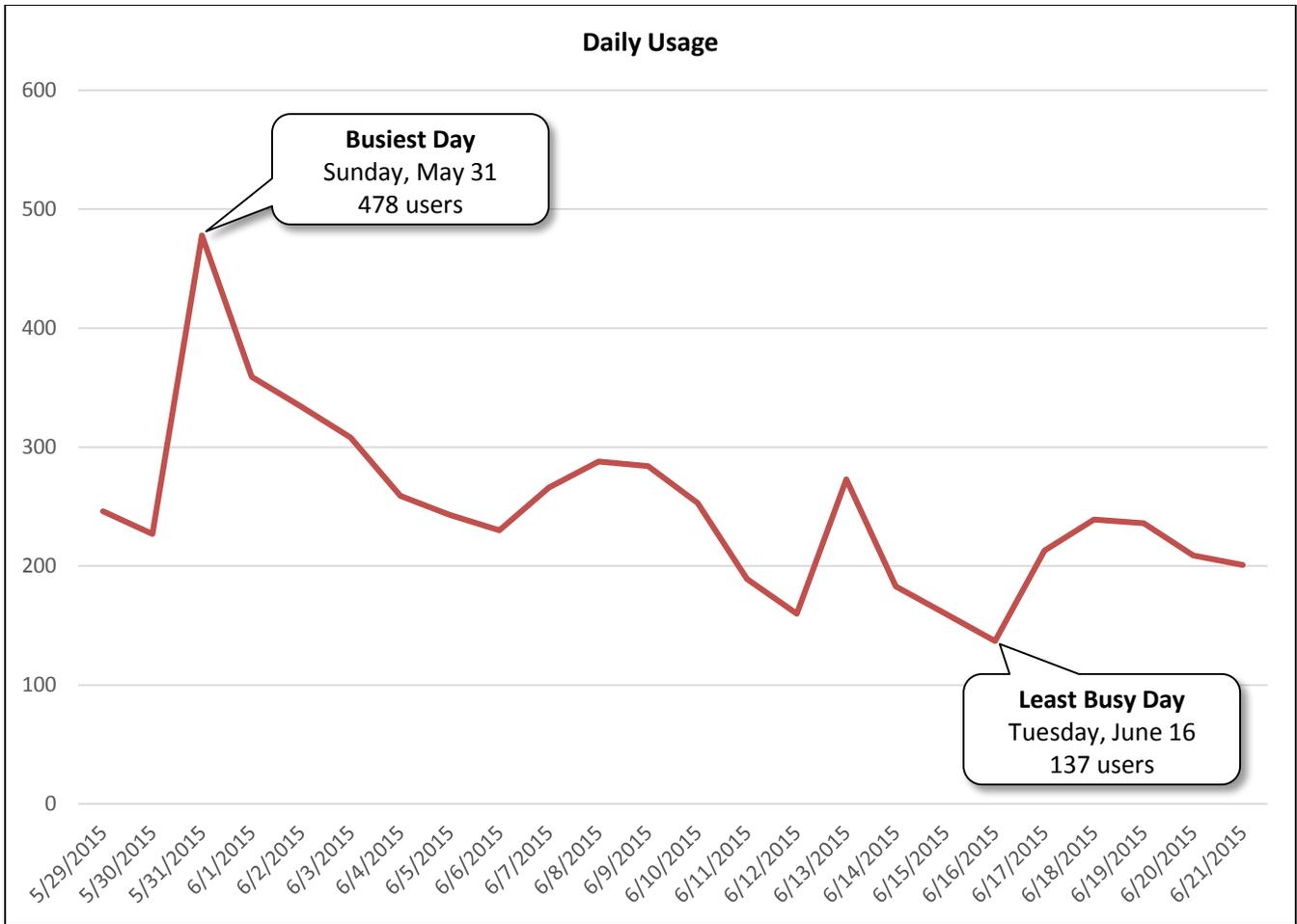
Image 3: Trail along Newcastle Street Facing North



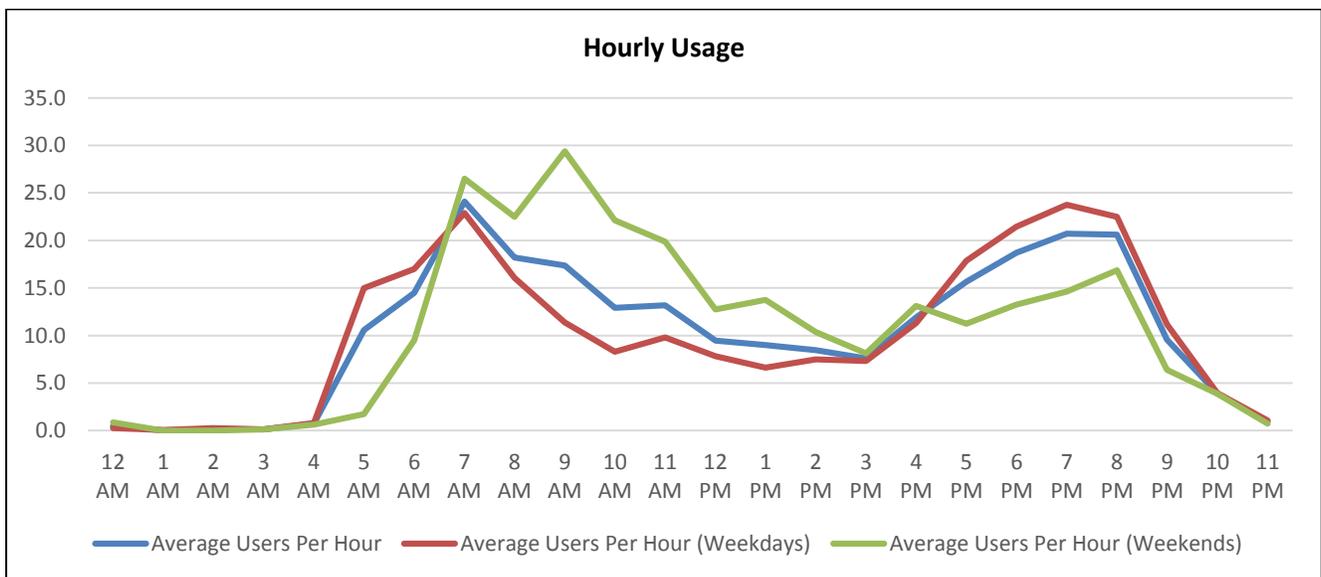
Image 4: Trail along Newcastle Street Facing South

Daily Usage				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Friday, May 29, 2015	246	89	70	0.01
Saturday, May 30, 2015	227	91	69	0.57
Sunday, May 31, 2015	478	87	69	0
Monday, June 1, 2015	359	89	66	0
Tuesday, June 2, 2015	334	90	68	0
Wednesday, June 3, 2015	308	91	69	0
Thursday, June 4, 2015	259	90	69	0
Friday, June 5, 2015	243	92	72	0
Saturday, June 6, 2015	230	93	72	0
Sunday, June 7, 2015	266	93	72	0
Monday, June 8, 2015	288	93	72	0
Tuesday, June 9, 2015	284	93	74	0
Wednesday, June 10, 2015	253	94	74	0
Thursday, June 11, 2015	189	94	73	0.01
Friday, June 12, 2015	160	92	74	T
Saturday, June 13, 2015	273	86	74	0.35
Sunday, June 14, 2015	183	88	74	0.52
Monday, June 15, 2015	160	90	75	0.14
Tuesday, June 16, 2015	137	80	75	2.26
Wednesday, June 17, 2015	213	84	76	0.7
Thursday, June 18, 2015	239	86	76	T
Friday, June 19, 2015	236	90	76	0
Saturday, June 20, 2015	209	90	77	0.2
Sunday, June 21, 2015	201	93	78	0
<b>Total</b>	5,975			
<b>Average Daily Usage</b>	249			
<b>Average Daily Usage (Weekday)</b>	244			
<b>Average Daily Usage (Weekend)</b>	258			
		<b>Notes</b>		
		<ul style="list-style-type: none"> <li>The last day of school for students at Houston ISD was Thursday, May 28, 2015.</li> <li>Father's Day was Sunday, June 21.</li> </ul>		

\*Weather conditions recorded at KHOU (Houston, TX).



Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.5	0.3	0.9
1:00 a.m.	0.0	0.1	0.0
2:00 a.m.	0.2	0.3	0.0
3:00 a.m.	0.1	0.1	0.1
4:00 a.m.	0.8	0.8	0.6
5:00 a.m.	10.6	15.0	1.8
6:00 a.m.	14.5	17.0	9.5
7:00 a.m.	24.1	22.9	26.5
8:00 a.m.	18.2	16.1	22.5
9:00 a.m.	17.4	11.4	29.4
10:00 a.m.	12.9	8.3	22.1
11:00 a.m.	13.2	9.8	19.9
12:00 p.m.	9.5	7.8	12.8
1:00 p.m.	9.0	6.6	13.8
2:00 p.m.	8.5	7.5	10.4
3:00 p.m.	7.6	7.3	8.1
4:00 p.m.	11.9	11.3	13.1
5:00 p.m.	15.7	17.9	11.3
6:00 p.m.	18.7	21.4	13.3
7:00 p.m.	20.7	23.8	14.6
8:00 p.m.	20.6	22.5	16.9
9:00 p.m.	9.6	11.2	6.4
10:00 p.m.	3.9	3.9	3.9
11:00 p.m.	1.0	1.1	0.8

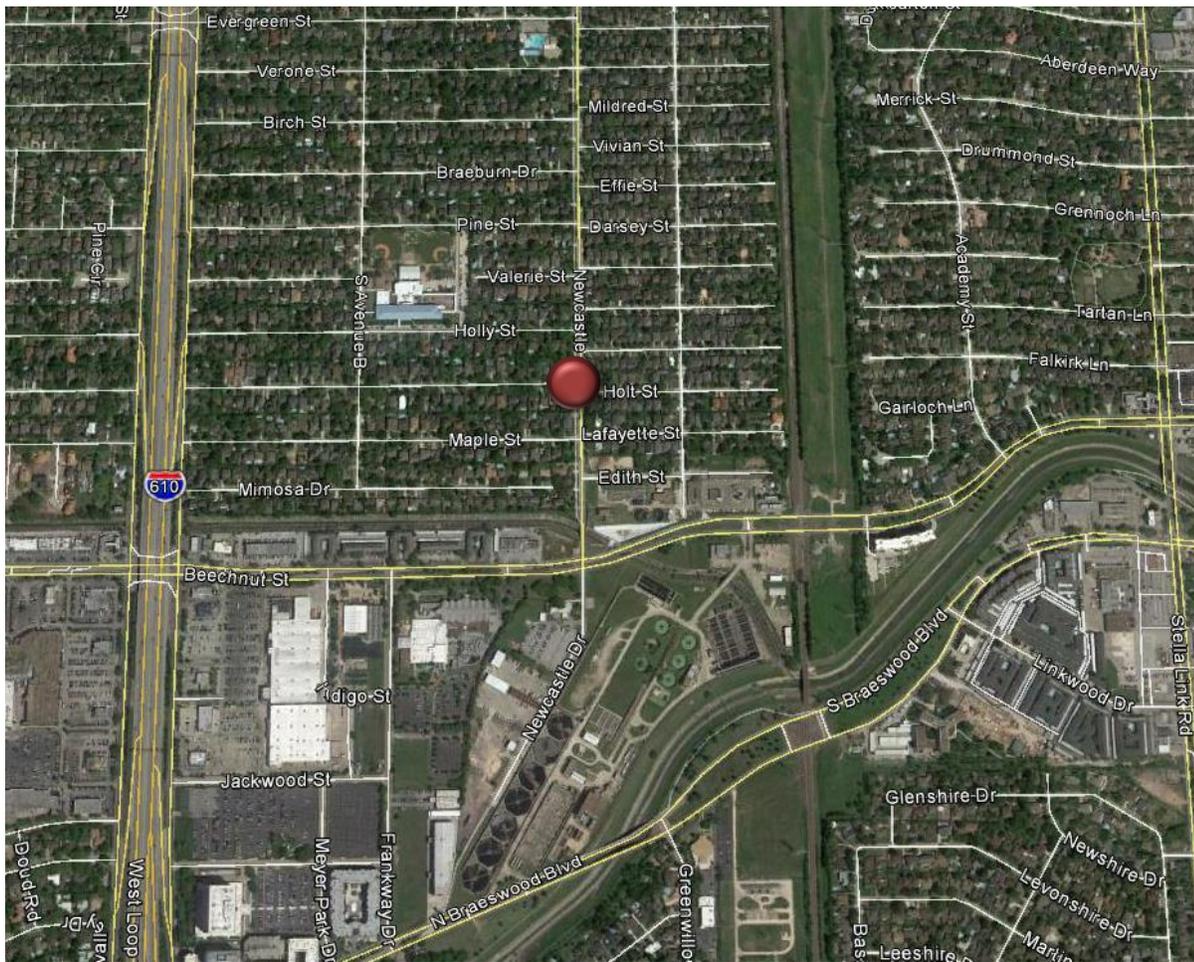


**Counter #3**

## Newcastle Trail at Holt Street

Location Information		
Location Name	Newcastle Trail at Holt Street	
Location Description	Newcastle Trail at Holt Street	
Jurisdiction	City of Bellaire	
Agency Deployed	City of Bellaire	
GPS Coordinates	29°41'33"N, 95°27'4"W	
Surrounding Land Uses	North	Single-Family Residential
	South	Single-Family Residential
	East	Single-Family Residential
	West	Single-Family Residential
What object was device secured to?	Speed Limit (30 mph)/End School Zone Sign	
Date/Time Installed	May 28, 2015 (4:00 p.m.)	
Date/Time Retrieved	June 22, 2015 (11:20 a.m.)	
Sidewalk Width	8 feet	
Buffer Width	8.5 feet	
Street Width	Two-Lane Street (One Lane Each Direction)	
Parallel Parking	No	
Landscaping or Trees	Trees adjacent to west side of Newcastle Trail	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Excellent	
Speed Limit	30 mph	
Street Lighting	Yes (Intermittent lighting along Newcastle Street)	
Street Traffic Volume	8,320 (8400 Newcastle Street: 2006)	
Transit	Nearby (METRO Bus Stop about 0.25 miles south at intersection of Newcastle Street and Beechnut Street)	
Shade	Some trees on west side of Newcastle Trail	
Have counts been collected by H-GAC at this location before?	No	
Trends		
<ul style="list-style-type: none"> <li>• There tends to be higher usage on weekends than during weekdays.</li> <li>• On weekdays, activity is highest in the morning (5:00 a.m. – 10:00 a.m.) and evening (6:00 p.m. – 9:00 p.m.).</li> <li>• On weekends, peak usage is in the morning (7:00 a.m. – 11:00 a.m.). Activity decreases dramatically in the afternoon.</li> </ul>		

### Location Information: Map



### Location Information: Photos



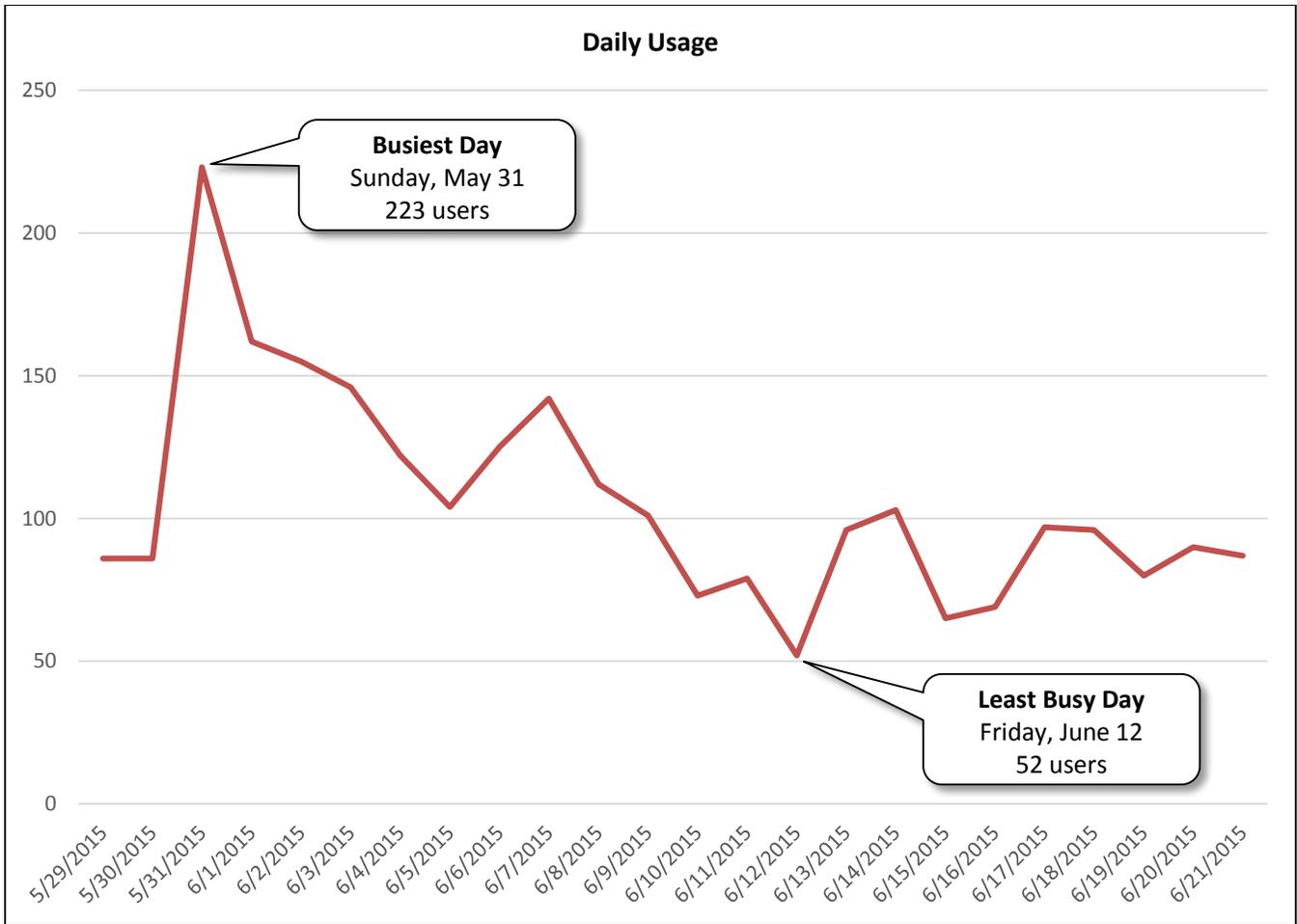
Image 5: Trail along Newcastle Street Facing North



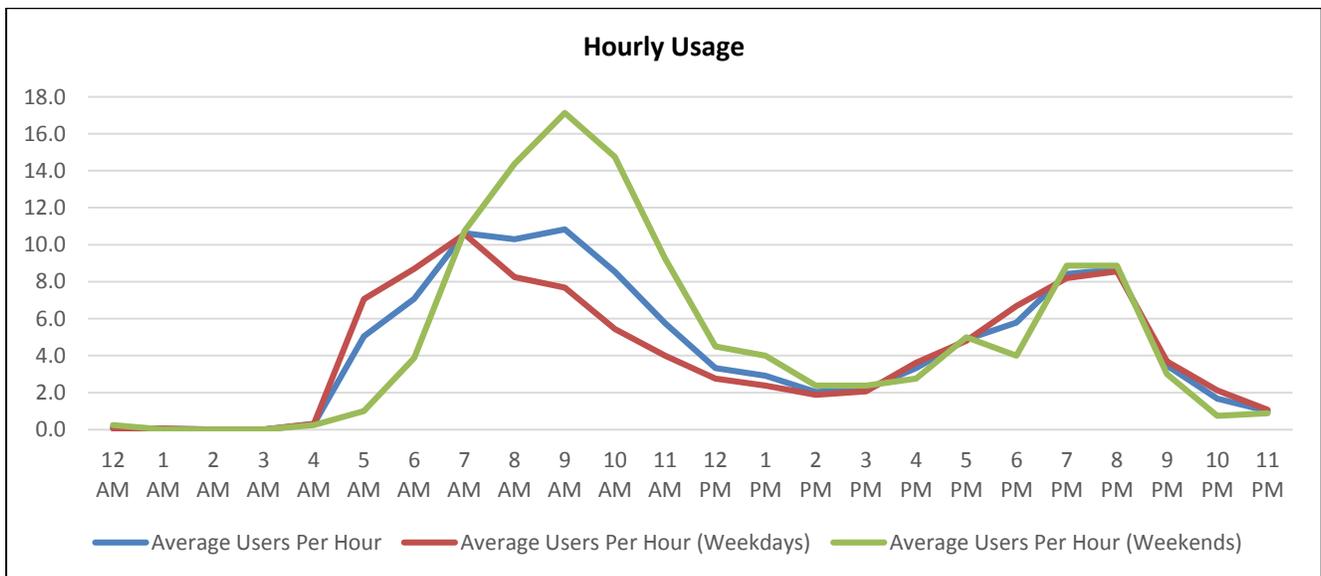
Image 6: Trail along Newcastle Street Facing South

<b>Daily Usage</b>				
<b>Date</b>	<b>Users</b>	<b>Select Weather Data*</b>		
		<b>High Temperature (°F)</b>	<b>Low Temperature (°F)</b>	<b>Precipitation (inches)</b>
Friday, May 29, 2015	86	89	70	0.01
Saturday, May 30, 2015	86	91	69	0.57
Sunday, May 31, 2015	223	87	69	0
Monday, June 1, 2015	162	89	66	0
Tuesday, June 2, 2015	155	90	68	0
Wednesday, June 3, 2015	146	91	69	0
Thursday, June 4, 2015	122	90	69	0
Friday, June 5, 2015	104	92	72	0
Saturday, June 6, 2015	125	93	72	0
Sunday, June 7, 2015	142	93	72	0
Monday, June 8, 2015	112	93	72	0
Tuesday, June 9, 2015	101	93	74	0
Wednesday, June 10, 2015	73	94	74	0
Thursday, June 11, 2015	79	94	73	0.01
Friday, June 12, 2015	52	92	74	T
Saturday, June 13, 2015	96	86	74	0.35
Sunday, June 14, 2015	103	88	74	0.52
Monday, June 15, 2015	65	90	75	0.14
Tuesday, June 16, 2015	69	80	75	2.26
Wednesday, June 17, 2015	97	84	76	0.7
Thursday, June 18, 2015	96	86	76	T
Friday, June 19, 2015	80	90	76	0
Saturday, June 20, 2015	90	90	77	0.2
Sunday, June 21, 2015	87	93	78	0
<b>Total</b>	2,551			
<b>Average Daily Usage</b>	106			
<b>Average Daily Usage (Weekday)</b>	100			
<b>Average Daily Usage (Weekend)</b>	119			
		<b>Notes</b>		
		<ul style="list-style-type: none"> <li>• The last day of school for students at Houston ISD was Thursday, May 28, 2015.</li> <li>• Father's Day was Sunday, June 21.</li> </ul>		

\*Weather conditions recorded at KHOU (Houston, TX).



Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.1	0.1	0.3
1:00 a.m.	0.0	0.1	0.0
2:00 a.m.	0.0	0.0	0.0
3:00 a.m.	0.0	0.0	0.0
4:00 a.m.	0.3	0.3	0.3
5:00 a.m.	5.0	7.1	1.0
6:00 a.m.	7.1	8.7	3.9
7:00 a.m.	10.6	10.6	10.8
8:00 a.m.	10.3	8.3	14.4
9:00 a.m.	10.8	7.7	17.1
10:00 a.m.	8.5	5.4	14.8
11:00 a.m.	5.8	4.0	9.3
12:00 p.m.	3.3	2.8	4.5
1:00 p.m.	2.9	2.4	4.0
2:00 p.m.	2.0	1.9	2.4
3:00 p.m.	2.2	2.1	2.4
4:00 p.m.	3.3	3.6	2.8
5:00 p.m.	4.9	4.8	5.0
6:00 p.m.	5.8	6.7	4.0
7:00 p.m.	8.4	8.2	8.9
8:00 p.m.	8.7	8.6	8.9
9:00 p.m.	3.5	3.7	3.0
10:00 p.m.	1.7	2.1	0.8
11:00 p.m.	1.0	1.1	0.9



## Counter Locations



## Participants

Houston-Galveston Area Council: Pedestrian-Bicyclist Planning  
[www.h-gac.com/go/pedbike](http://www.h-gac.com/go/pedbike)

City of Bellaire  
[www.ci.bellaire.tx.us](http://www.ci.bellaire.tx.us)

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