

**HOUSTON-GALVESTON AREA COUNCIL**



Temporary Pedestrian/Bicycle Counters  
Data Summary

<b>Deployment Summary</b>	
Sponsoring Agency	City of Houston: Parks and Recreation Department
Deployment Period	Friday, August 28, 2015 – Tuesday, September 15, 2015
Number of Counters Deployed	3
Locations Deployed	
Counter #1	White Oak Trail at Alabonson Road
Counter #2	White Oak Trail at Antoine Drive
Counter #3	MKT Trail at 7 <sup>th</sup> Street/Moy Street (White Oak Bayou Crossing)

**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.

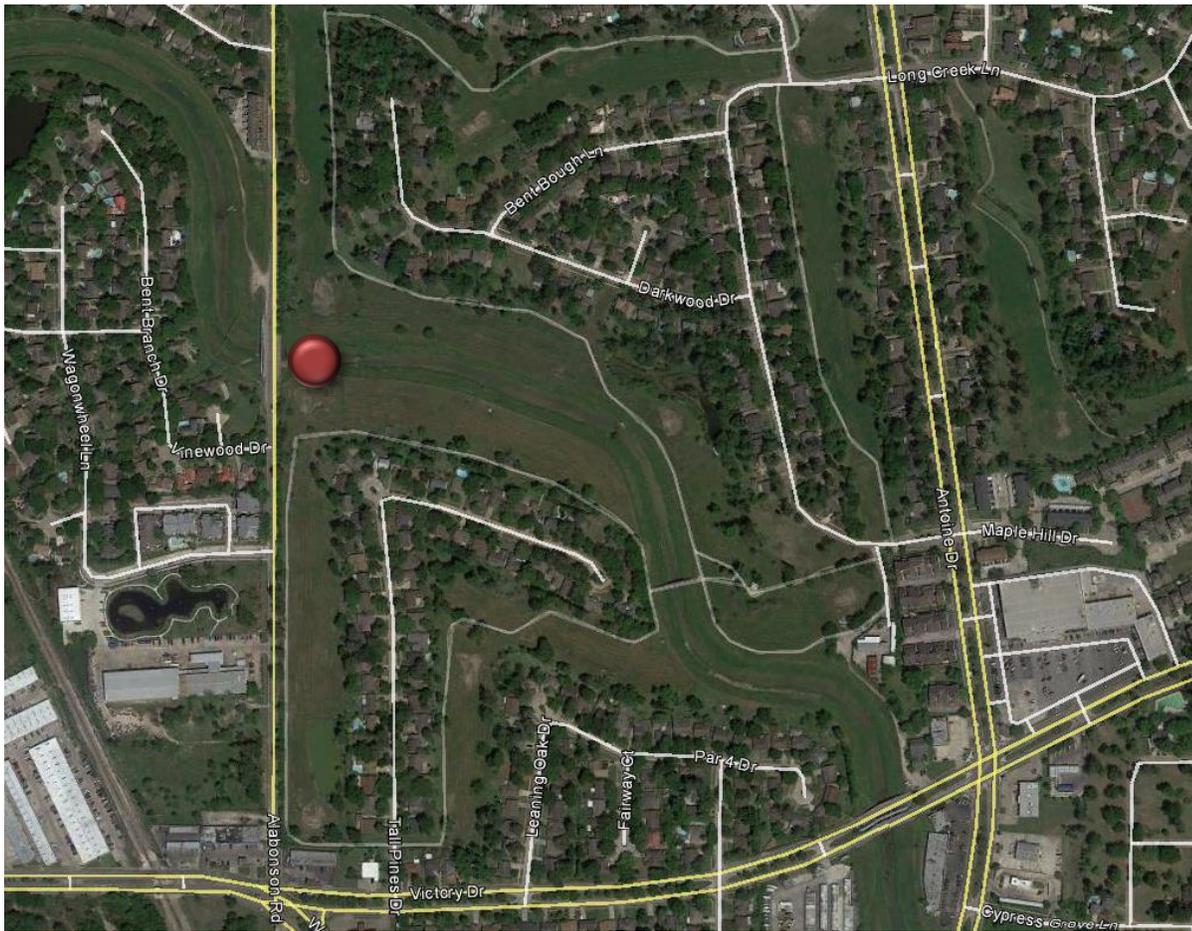
**Counter #1**

## White Oak Trail at Alabonson Road

Location Information		
Location Name	White Oak Trail at Alabonson Road	
Location Description	White Oak Trail: Bridge across White Oak Bayou parallel to Alabonson Road Bridge	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°52'13"N, 95°28'48"W	
Surrounding Land Uses	North	Single-Family Residential
	South	Single-Family Residential, Multi-Family Residential
	East	Single-Family Residential
	West	Single-Family Residential, Multi-Family Residential
What object was device secured to?	Bridge Railing (Near Southern End of Bridge)	
Sidewalk Width	13'	
Buffer Width	N/A (Off-Road Shared-Use Path)	
Street Width	N/A (Off-Road Shared-Use Path)	
Parallel Parking	N/A (Off-Road Shared-Use Path)	
Landscaping or Trees	Mostly Open with Newly-Planted Trees	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Excellent	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	None	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	No	
Shade	Mostly Open with Newly-Planted Trees	
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, usage is highest in the morning (8:00 a.m. – 10:00 a.m.) and evening (7:00 p.m. – 9:00 p.m.).</li> <li>• On weekends, usage is highest in the morning (7:00 a.m. – 11:00 a.m.). There is a less pronounced increase in usage in the late afternoon (4:00 p.m. – 5:00 p.m.) and evening (7:00 p.m. – 8:00 p.m.).</li> </ul>

### Location Information: Map



Note: The aerial imagery shown is from April 2014, prior to construction of this segment of White Oak Trail.

### Location Information: Photos



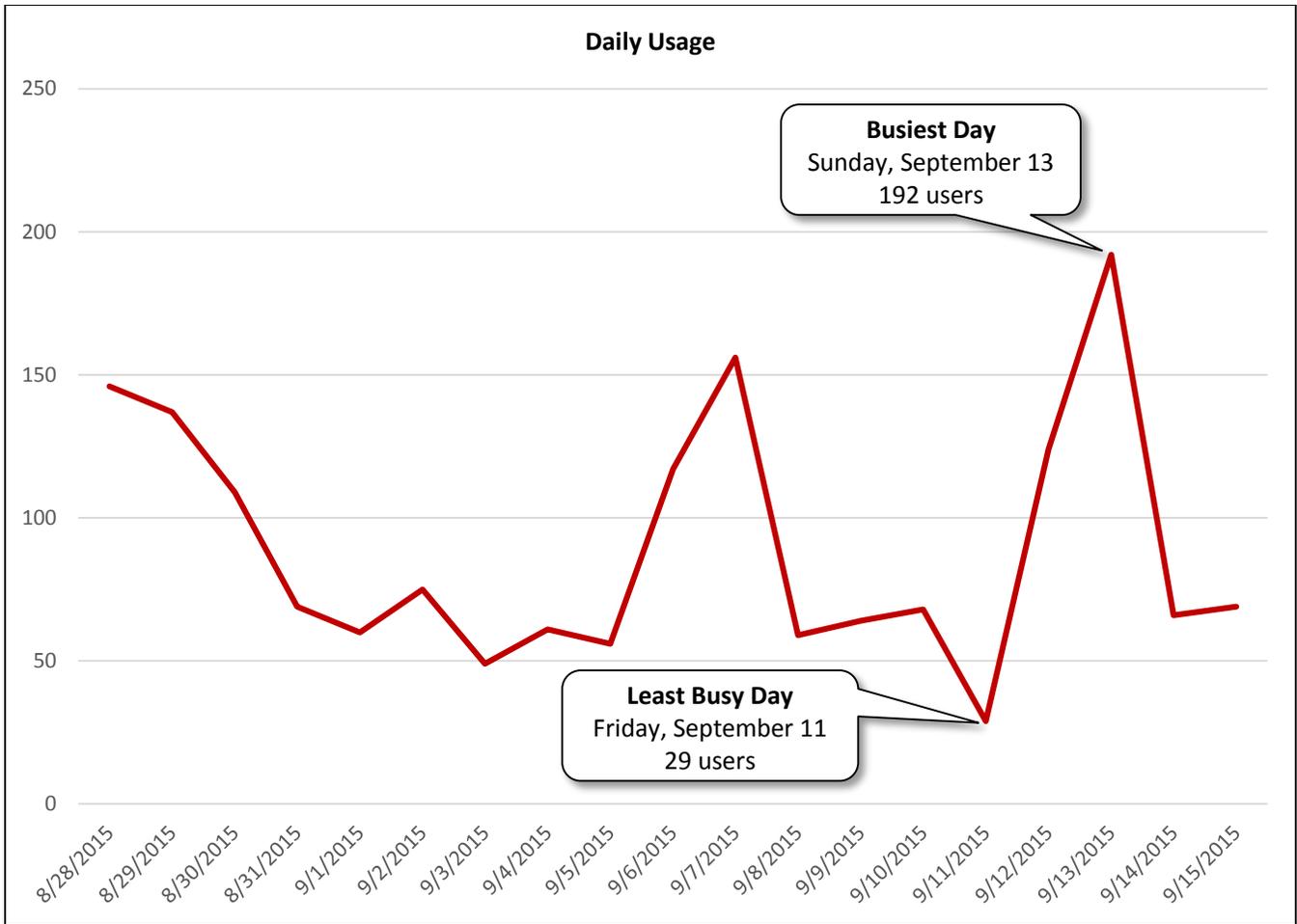
Image 1: Bridge across White Oak Bayou Facing North



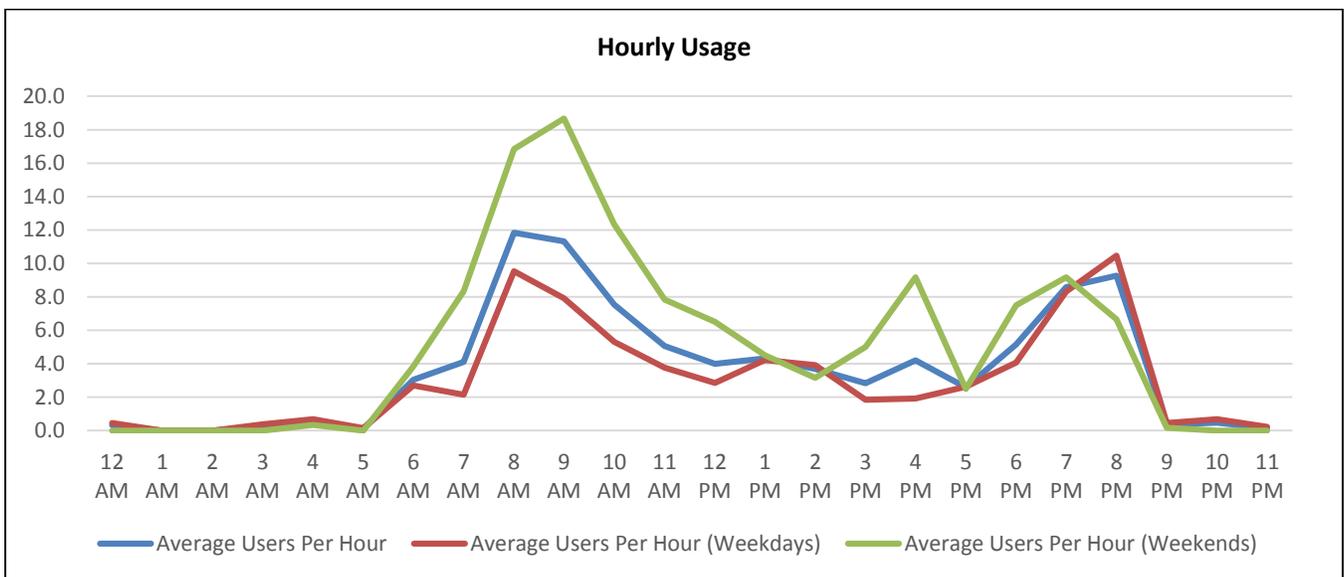
Image 2: Bridge across White Oak Bayou Facing South

<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, August 28, 2015	146	92	70	0
Saturday, August 29, 2015	137	90	69	0
Sunday, August 30, 2015	109	91	69	0
Monday, August 31, 2015	69	89	71	0
Tuesday, September 1, 2015	60	81	72	T
Wednesday, September 2, 2015	75	89	73	0.02
Thursday, September 3, 2015	49	92	73	0
Friday, September 4, 2015	61	91	74	0.29
Saturday, September 5, 2015	56	91	74	1.07
Sunday, September 6, 2015	117	96	75	0
Monday, September 7, 2015	156	94	76	0
Tuesday, September 8, 2015	59	92	74	0.21
Wednesday, September 9, 2015	64	91	74	T
Thursday, September 10, 2015	68	89	74	0.04
Friday, September 11, 2015	29	80	73	0.75
Saturday, September 12, 2015	124	88	66	0.01
Sunday, September 13, 2015	192	84	59	0
Monday, September 14, 2015	66	85	59	0
Tuesday, September 15, 2015	69	91	71	T
<b>Total</b>	1,706			
<b>Average Daily Usage</b>	90			
<b>Average Daily Usage (Weekday)</b>	75			
<b>Average Daily Usage (Weekend)</b>	123			

\*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	0.5	0.0
1:00 a.m.	0.0	0.0	0.0
2:00 a.m.	0.0	0.0	0.0
3:00 a.m.	0.3	0.4	0.0
4:00 a.m.	0.6	0.7	0.3
5:00 a.m.	0.1	0.2	0.0
6:00 a.m.	3.1	2.7	3.8
7:00 a.m.	4.1	2.2	8.3
8:00 a.m.	11.8	9.5	16.8
9:00 a.m.	11.3	7.9	18.7
10:00 a.m.	7.5	5.3	12.3
11:00 a.m.	5.1	3.8	7.8
12:00 p.m.	4.0	2.8	6.5
1:00 p.m.	4.3	4.2	4.5
2:00 p.m.	3.7	3.9	3.2
3:00 p.m.	2.8	1.8	5.0
4:00 p.m.	4.2	1.9	9.2
5:00 p.m.	2.6	2.6	2.5
6:00 p.m.	5.2	4.1	7.5
7:00 p.m.	8.6	8.3	9.2
8:00 p.m.	9.3	10.5	6.7
9:00 p.m.	0.4	0.5	0.2
10:00 p.m.	0.5	0.7	0.0
11:00 p.m.	0.2	0.2	0.0



**Counter #2**

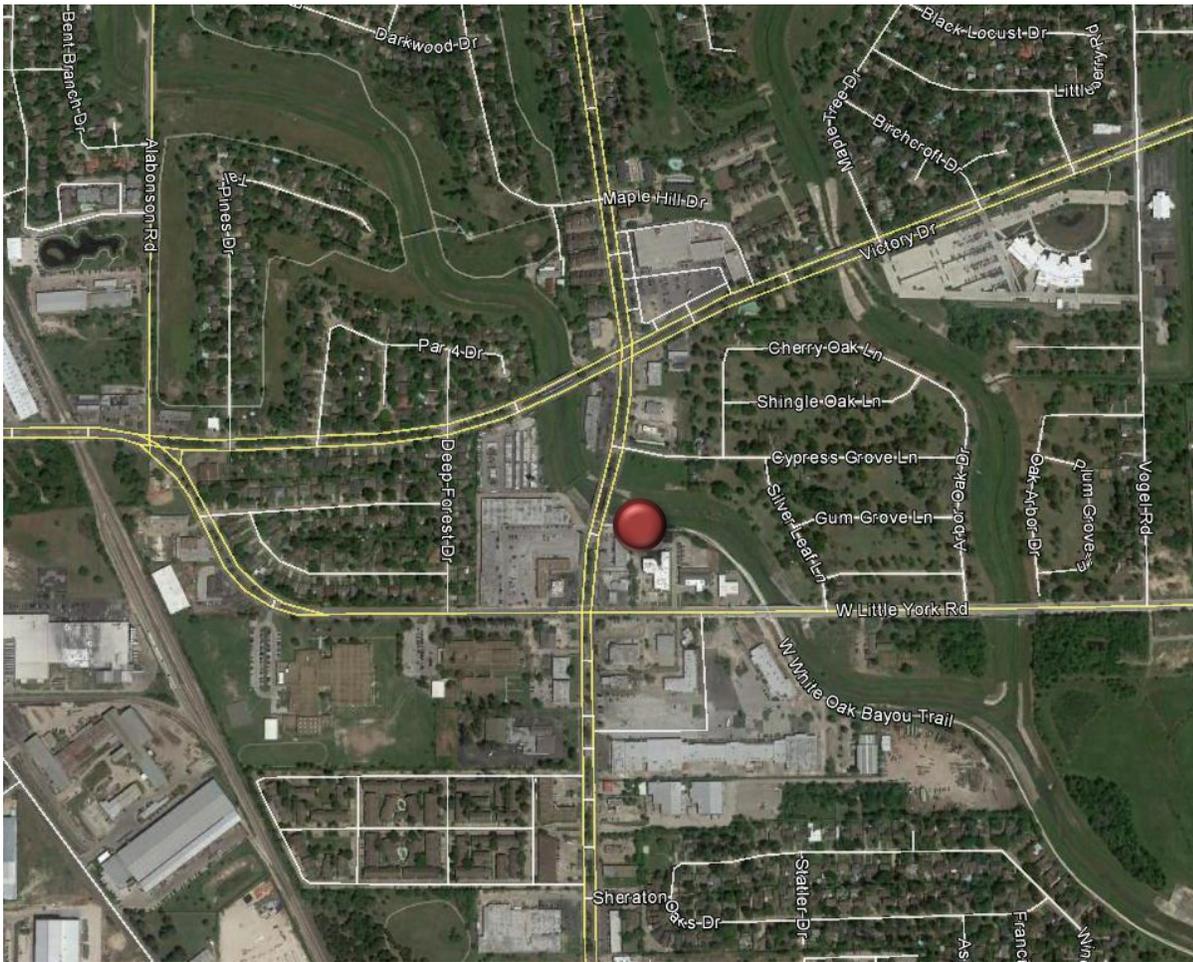
## White Oak Trail at Antoine Drive

Location Information		
Location Name	White Oak Trail at Antoine Drive	
Location Description	White Oak Trail approximately 150 feet east of Antoine Drive on Sign Post (No Motor Vehicles)	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°51'51.83"N, 95°28'20.97"W	
Surrounding Land Uses	North	Commercial
	South	Commercial
	East	Commercial
	West	Commercial, Single-Family Residential
What object was device secured to?	Sign Post (No Motor Vehicles)	
Sidewalk Width	10'	
Buffer Width	N/A (Off-Road Shared-Use Path)	
Street Width	N/A (Off-Road Shared-Use Path)	
Parallel Parking	N/A (Off-Road Shared-Use Path)	
Landscaping or Trees	Mostly Open with Some Shade Trees	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Excellent	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	None	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Nearby (Bus Stops at Antoine Drive and W. Little York Road)	
Shade	Mostly Open with Some Shade Trees	
Have counts been collected by H-GAC at this location before?	Yes March 31, 2015 – April 22, 2015	

**Trends**

- There tends to be higher usage on weekends than during weekdays.
- On weekdays, usage peaks in the evening (6:00 p.m. – 8:00 p.m.).
- On weekends, usage peaks in the morning (8:00 a.m. – 9:00 a.m.) and generally decreases as the day progresses.
- Average daily usage at this location increased approximately 25% from Spring 2015 (63) to Fall 2015 (79).

**Location Information: Map**



**Location Information: Photos**



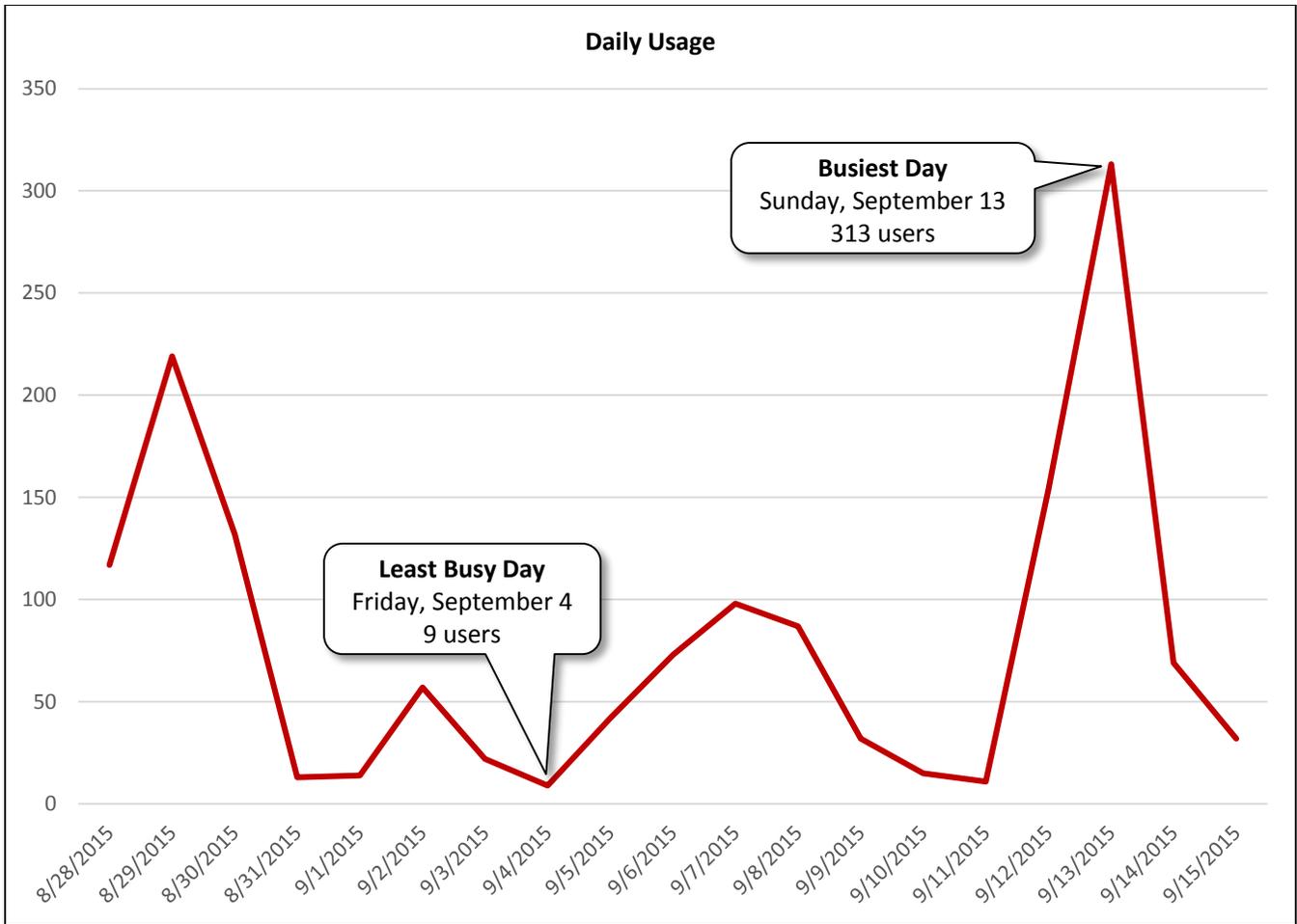
Image 3: Trail along White Oak Bayou Facing East



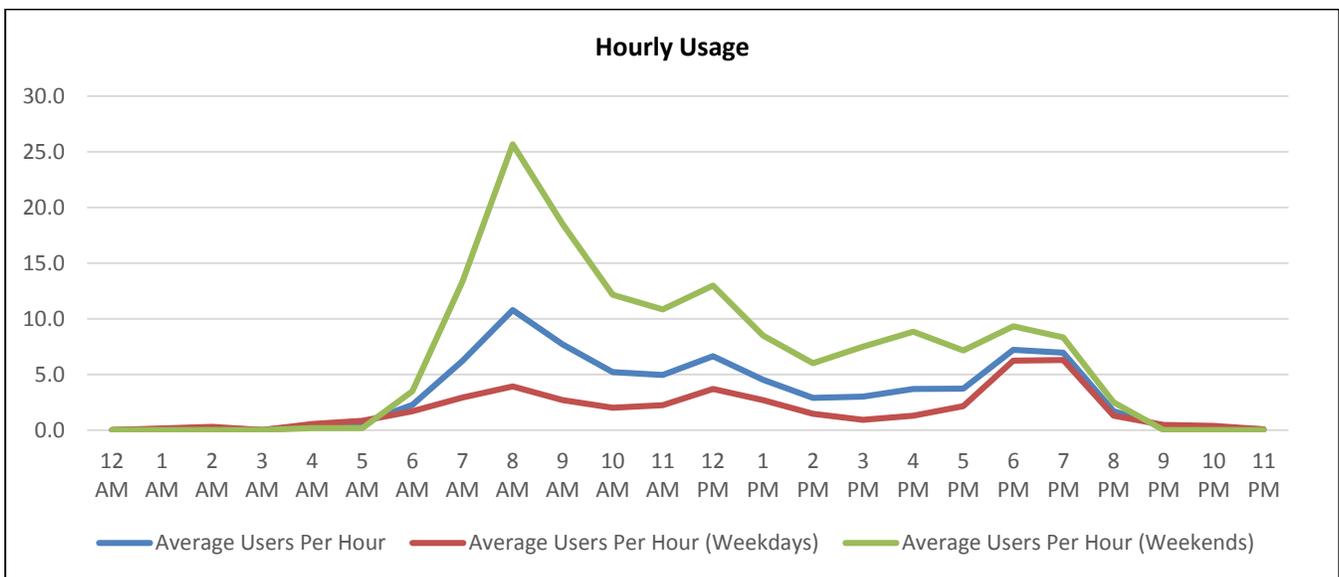
Image 4: Trail along White Oak Bayou Facing West

<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, August 28, 2015	117	92	70	0
Saturday, August 29, 2015	219	90	69	0
Sunday, August 30, 2015	132	91	69	0
Monday, August 31, 2015	13	89	71	0
Tuesday, September 1, 2015	14	81	72	T
Wednesday, September 2, 2015	57	89	73	0.02
Thursday, September 3, 2015	22	92	73	0
Friday, September 4, 2015	9	91	74	0.29
Saturday, September 5, 2015	42	91	74	1.07
Sunday, September 6, 2015	73	96	75	0
Monday, September 7, 2015	98	94	76	0
Tuesday, September 8, 2015	87	92	74	0.21
Wednesday, September 9, 2015	32	91	74	T
Thursday, September 10, 2015	15	89	74	0.04
Friday, September 11, 2015	11	80	73	0.75
Saturday, September 12, 2015	154	88	66	0.01
Sunday, September 13, 2015	313	84	59	0
Monday, September 14, 2015	69	85	59	0
Tuesday, September 15, 2015	32	91	71	T
<b>Total</b>	1,509			
<b>Average Daily Usage</b>	79			
<b>Average Daily Usage (Weekday)</b>	44			
<b>Average Daily Usage (Weekend)</b>	156			

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

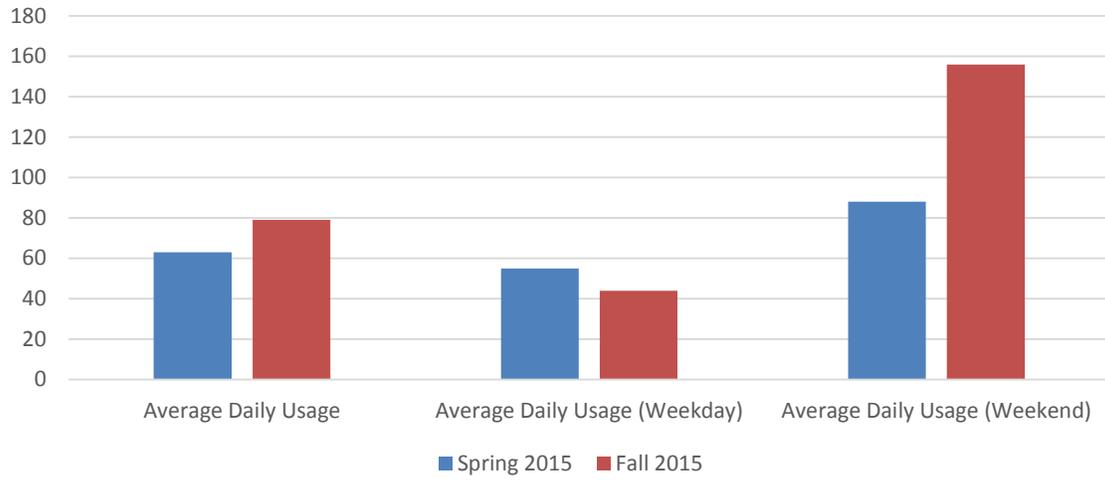


Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.0	0.0	0.0
1:00 a.m.	0.1	0.2	0.0
2:00 a.m.	0.2	0.3	0.0
3:00 a.m.	0.0	0.0	0.0
4:00 a.m.	0.4	0.5	0.2
5:00 a.m.	0.6	0.8	0.2
6:00 a.m.	2.3	1.7	3.5
7:00 a.m.	6.2	2.9	13.3
8:00 a.m.	10.8	3.9	25.7
9:00 a.m.	7.7	2.7	18.5
10:00 a.m.	5.2	2.0	12.2
11:00 a.m.	4.9	2.2	10.8
12:00 p.m.	6.6	3.7	13.0
1:00 p.m.	4.5	2.7	8.5
2:00 p.m.	2.9	1.5	6.0
3:00 p.m.	3.0	0.9	7.5
4:00 p.m.	3.7	1.3	8.8
5:00 p.m.	3.7	2.2	7.2
6:00 p.m.	7.2	6.2	9.3
7:00 p.m.	6.9	6.3	8.3
8:00 p.m.	1.7	1.3	2.5
9:00 p.m.	0.3	0.5	0.0
10:00 p.m.	0.3	0.4	0.0
11:00 p.m.	0.1	0.1	0.0

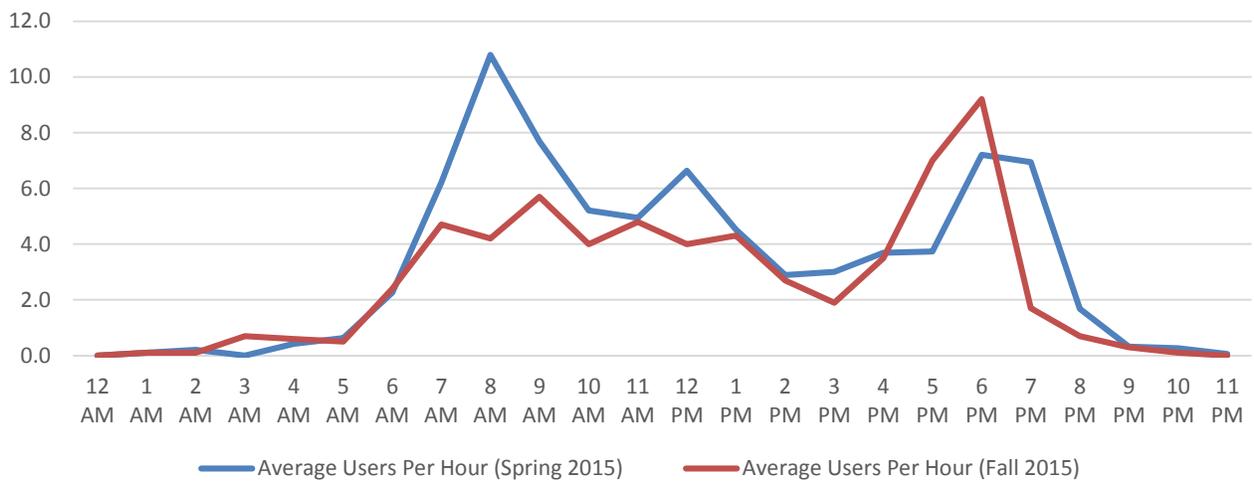


## Historical Comparison

### Comparison: Daily Usage



### Comparison: Average Usage Per Hour



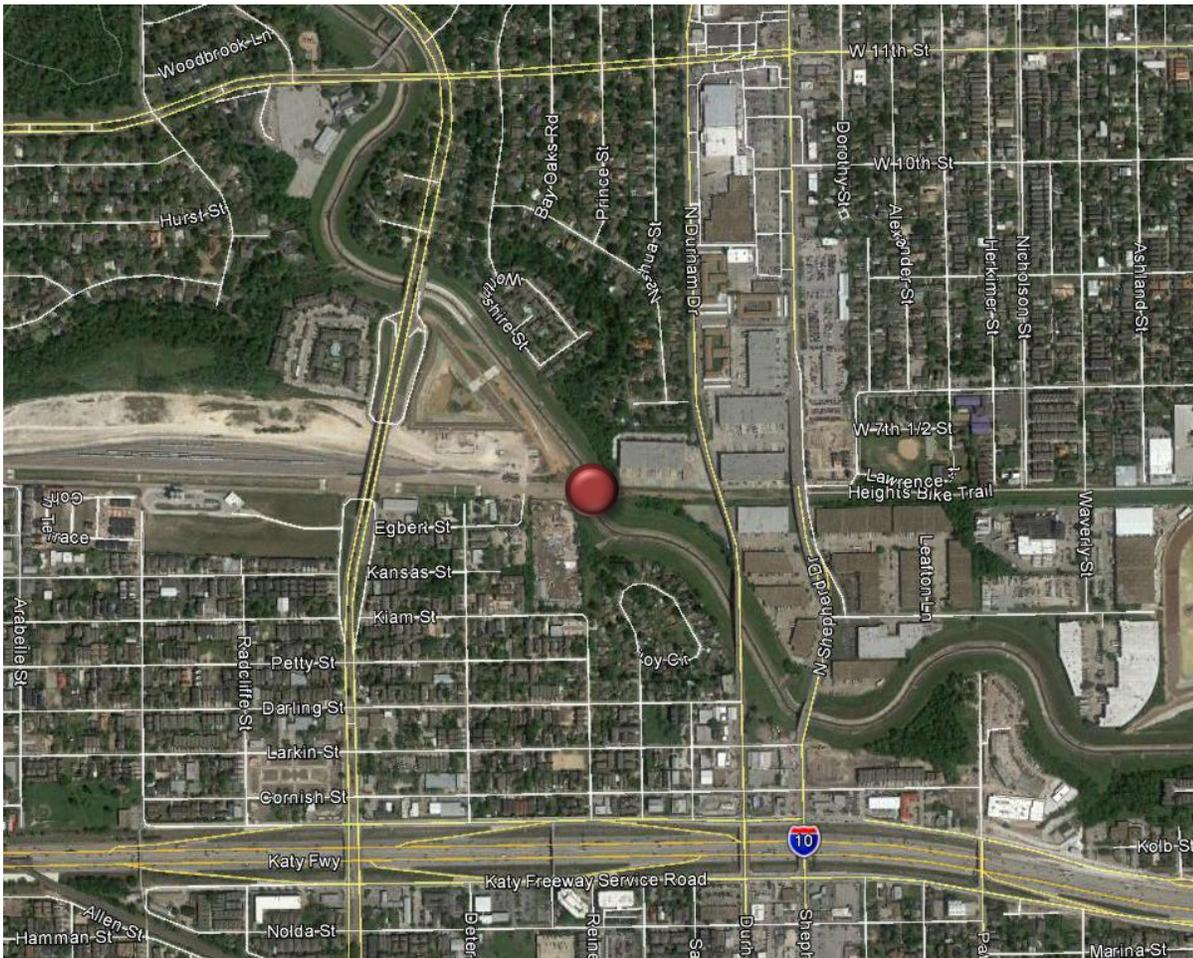
**Counter #3**

MKT Trail at 7<sup>th</sup> Street/Moy Street (White Oak Bayou Crossing)

Location Information		
Location Name	MKT Trail at 7 <sup>th</sup> Street/Moy Street (White Oak Bayou Crossing)	
Location Description	MKT Trail at 7 <sup>th</sup> Street/Moy Street (White Oak Bayou Crossing)	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks & Recreation Department	
GPS Coordinates	29°46'59.96"N, 95°24'48.94"W	
Surrounding Land Uses	North	Single-Family Residential, Multi-Family Residential
	South	Industrial
	East	Industrial
	West	Industrial, Single-Family Residential, Multi-Family Residential
What object was device secured to?	Bridge Railing (Near Western End of Bridge)	
Sidewalk Width	14'	
Buffer Width	N/A (Off-Road Shared-Use Path)	
Street Width	N/A (Off-Road Shared-Use Path)	
Parallel Parking	N/A (Off-Road Shared-Use Path)	
Landscaping or Trees	Mostly Open with Newly-Planted Trees	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Excellent	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	None	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	No	
Shade	Mostly Open with Newly-Planted Trees	
Have counts been collected by H-GAC at this location before?	Yes March 31, 2015 – April 22, 2015	

Trends
<ul style="list-style-type: none"> <li>• There tends to be higher usage on weekends than during weekdays.</li> <li>• On weekdays, usage peaks in the evening (6:00 p.m. – 8:00 p.m.).</li> <li>• On weekends, usage peaks in the morning (8:00 a.m. – 12:00 p.m.) and generally decreases as the day progresses.</li> <li>• Average daily usage at this location increased 49% from Spring 2015 (266) to Fall 2015 (396).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



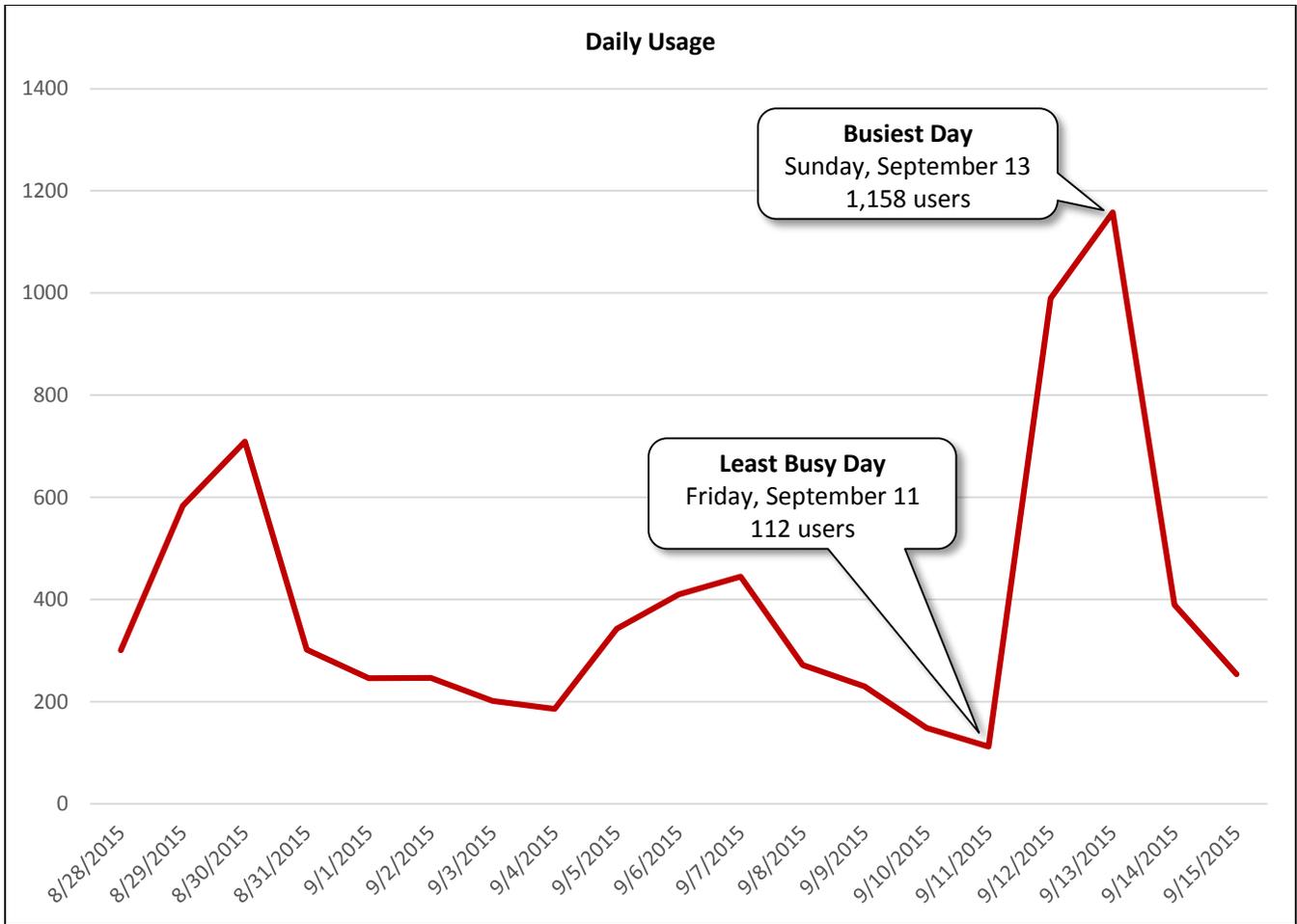
Image 5: Trail across White Oak Bayou Facing West  
Moyer Street Access



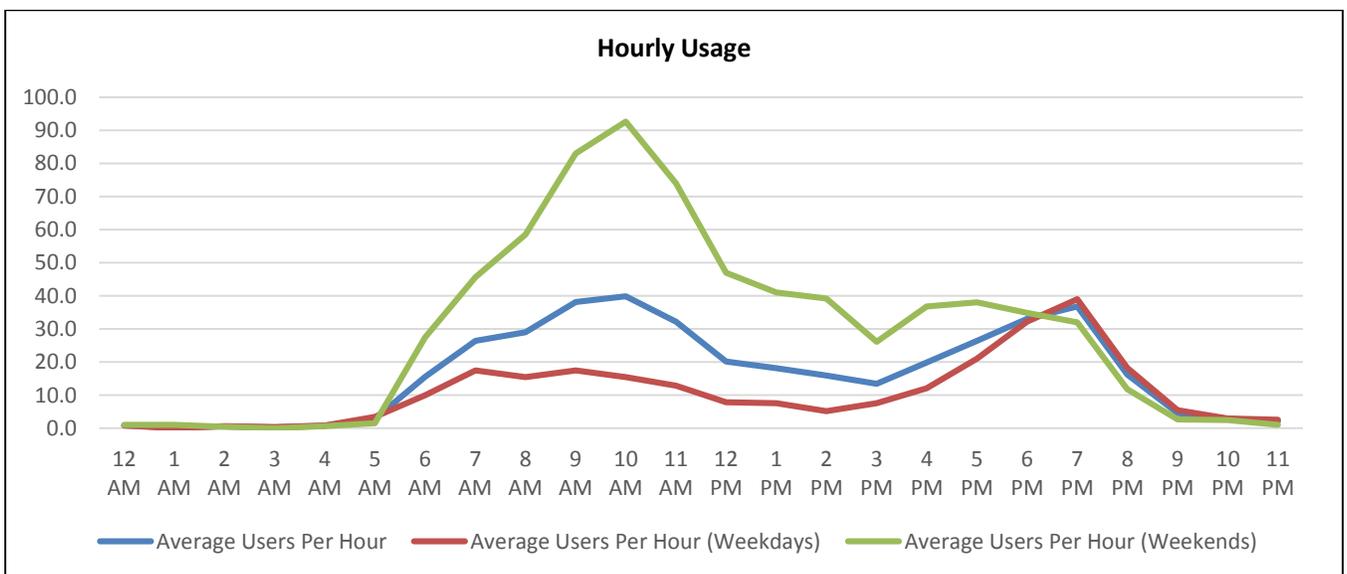
Image 6: Trail across White Oak Bayou Facing East

<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, August 28, 2015	301	92	70	0
Saturday, August 29, 2015	584	90	69	0
Sunday, August 30, 2015	709	91	69	0
Monday, August 31, 2015	302	89	71	0
Tuesday, September 1, 2015	246	81	72	T
Wednesday, September 2, 2015	247	89	73	0.02
Thursday, September 3, 2015	202	92	73	0
Friday, September 4, 2015	186	91	74	0.29
Saturday, September 5, 2015	343	91	74	1.07
Sunday, September 6, 2015	410	96	75	0
Monday, September 7, 2015	445	94	76	0
Tuesday, September 8, 2015	272	92	74	0.21
Wednesday, September 9, 2015	230	91	74	T
Thursday, September 10, 2015	149	89	74	0.04
Friday, September 11, 2015	112	80	73	0.75
Saturday, September 12, 2015	990	88	66	0.01
Sunday, September 13, 2015	1158	84	59	0
Monday, September 14, 2015	390	85	59	0
Tuesday, September 15, 2015	254	91	71	T
<b>Total</b>	7,530			
<b>Average Daily Usage</b>	396			
<b>Average Daily Usage (Weekday)</b>	257			
<b>Average Daily Usage (Weekend)</b>	699			

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

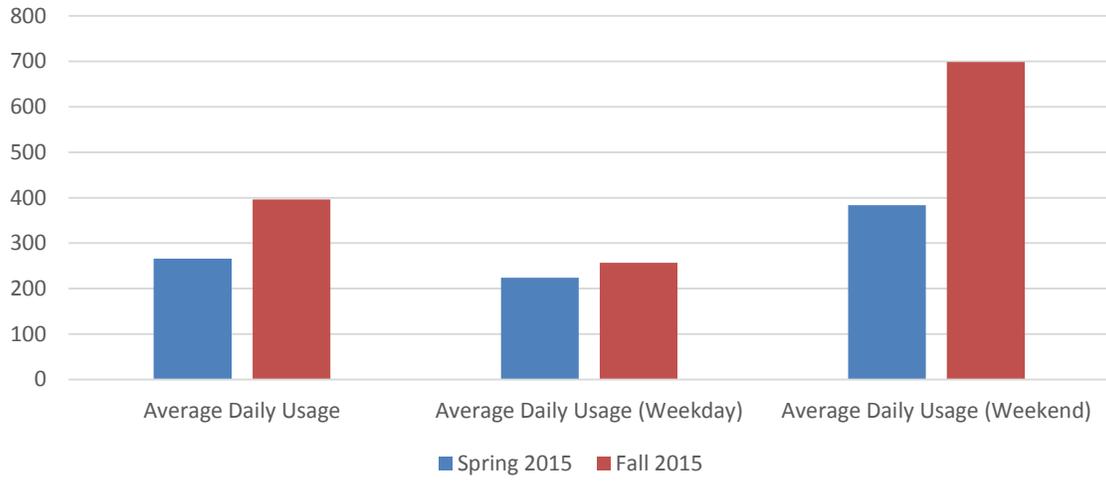


Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.9	0.8	1.0
1:00 a.m.	0.3	0.0	1.0
2:00 a.m.	0.6	0.6	0.5
3:00 a.m.	0.3	0.4	0.0
4:00 a.m.	0.8	0.8	0.7
5:00 a.m.	2.8	3.5	1.5
6:00 a.m.	15.5	10.0	27.5
7:00 a.m.	26.4	17.5	45.7
8:00 a.m.	29.1	15.5	58.5
9:00 a.m.	38.2	17.5	83.0
10:00 a.m.	39.8	15.5	92.7
11:00 a.m.	32.2	12.8	74.0
12:00 p.m.	20.2	7.8	47.0
1:00 p.m.	18.2	7.6	41.0
2:00 p.m.	15.9	5.2	39.2
3:00 p.m.	13.5	7.6	26.2
4:00 p.m.	19.9	12.1	36.8
5:00 p.m.	26.4	21.0	38.0
6:00 p.m.	33.0	32.2	34.8
7:00 p.m.	36.8	39.0	32.0
8:00 p.m.	16.2	18.2	11.8
9:00 p.m.	4.6	5.5	2.7
10:00 p.m.	2.8	3.0	2.5
11:00 p.m.	2.1	2.6	1.0

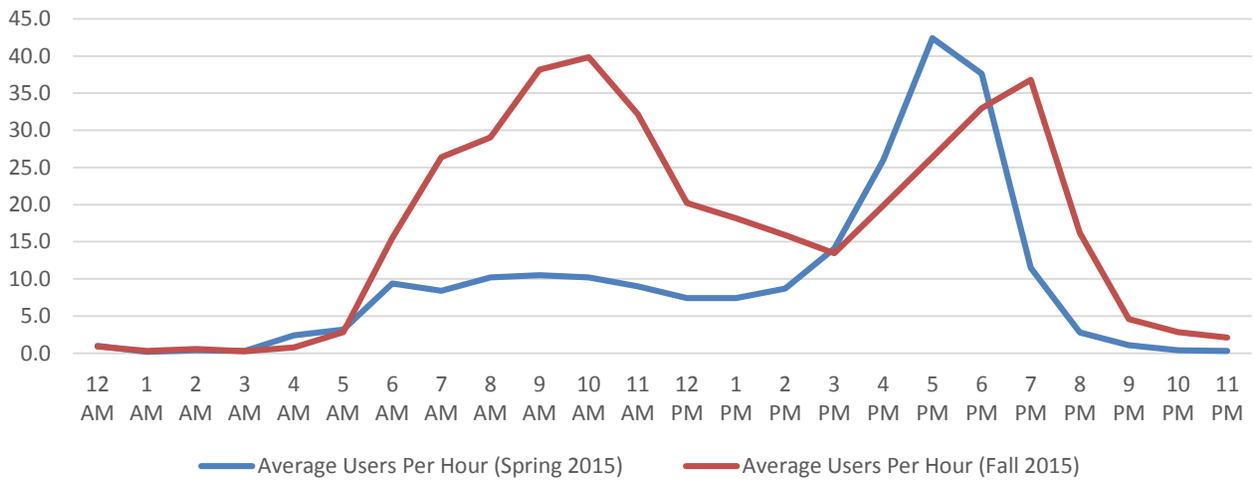


**Historical Comparison**

**Comparison: Daily Usage**



**Comparison: Average Usage Per Hour**



## 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 Houston: Parks and Recreation Department  
<http://www.houstontx.gov/parks/HPARD-Home-Page>

City of Houston: Public Works and Engineering Department  
<http://www.publicworks.houstontx.gov/home>

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