

## HOUSTON-GALVESTON AREA COUNCIL



### Temporary Pedestrian/Bicycle Counters Data Summary

Deployment Summary	
Sponsoring Agency	City of Houston: Parks and Recreation Department
Deployment Period	Thursday, September 1, 2016 - Monday, September 12, 2016
Number of Counters Deployed	15
Facility Description	Shared-Use Paths along White Oak Bayou between Alabonson Road (Northwest Houston) and Downtown Houston
Locations Deployed (Houston-Galveston Area Council + Texas Transportation Institute)	
Counter H1	White Oak Trail at Alabonson Road
Counter H2	White Oak Trail at Antoine Drive
Counter H3	White Oak Trail at W. Tidwell Road
Counter H4	White Oak Trail at W. 43 <sup>rd</sup> Street
Counter H5	White Oak Trail at Ella Boulevard
Counter H6	White Oak Trail at W. T.C. Jester Boulevard Underpass
Counter H7	MKT Trail at 7 <sup>th</sup> Street/Moy Street (White Oak Bayou Crossing)
Counter T2	MKT Trail at Harvard Street
Counter T3	White Oak Trail at Stude Community Center
Counter T4	White Oak Trail (Main Shared-Use Path) at Greenleaf Street
Counter T5	White Oak Trail (Lower Shared-Use Path) at Greenleaf Street
Counter T7	White Oak Trail at University of Houston – Downtown
Counter T8	White Oak Trail at San Jacinto Street
Counter T9	Little White Oak Bayou Trail at Enid Street
Counter T10	Little White Oak Bayou Trail at Cavalcade Street

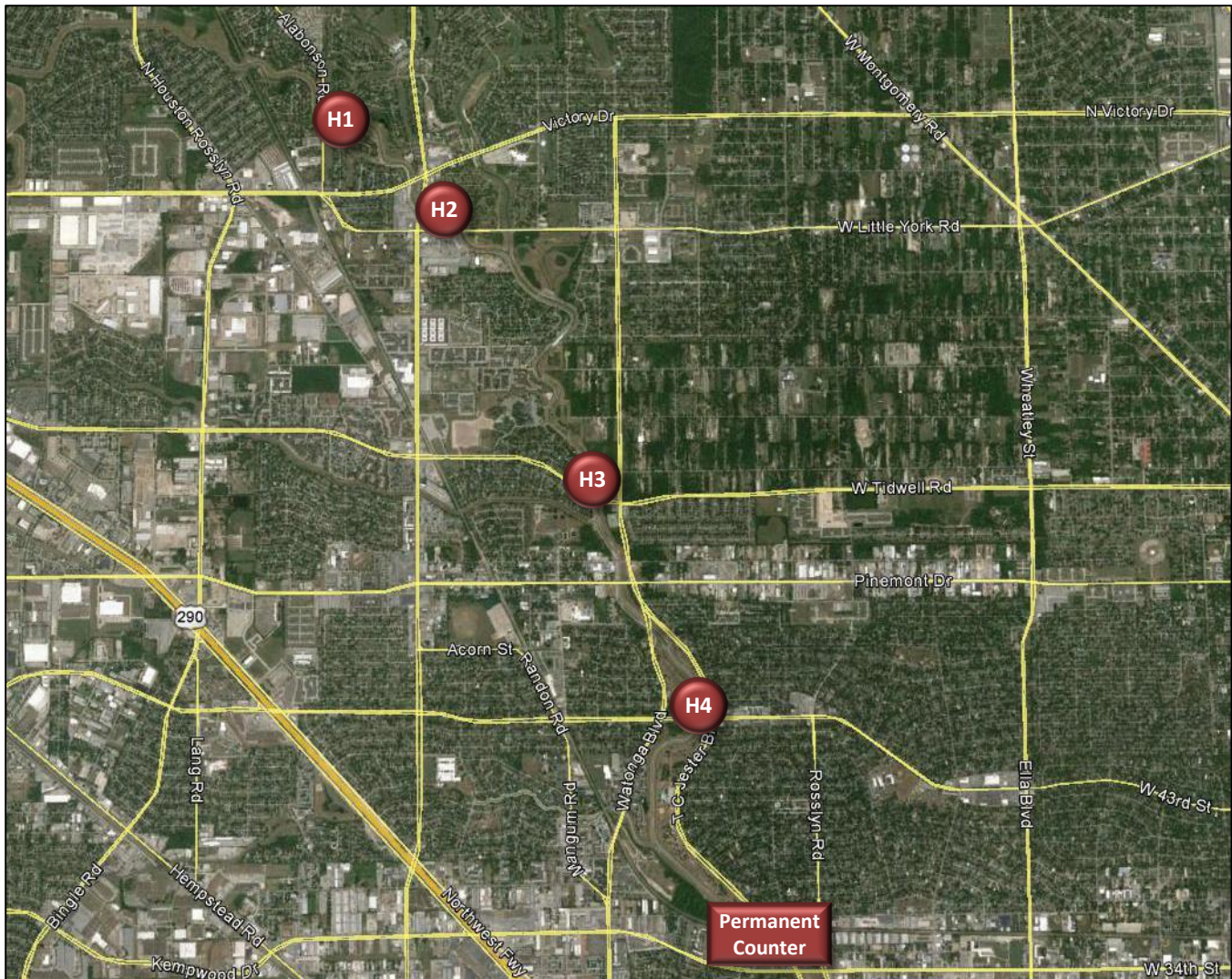
#### About the Temporary Pedestrian/Bicycle Counters

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

White Oak Trail in Northwest Houston  
(Alabonson Road to 34<sup>th</sup> Street)



Counter	Location	Average Daily Usage	Total Users	Page Number
H1	White Oak Trail at Alabonson Road	77	921	5
H2	White Oak Trail at Antoine Drive	N/A*	N/A*	10
H3	White Oak Trail at W. Tidwell Road	138	1,652	12
H4	White Oak Trail at W. 43 <sup>rd</sup> Street	143**	1,575**	17
Permanent Counter	White Oak Trail at W. 34 <sup>th</sup> Street	488	5,850	74

\*Counter H2 did not collect accurate data during the deployment period. It stopped collecting data on Friday, September 2, 2016 around 11:00 p.m.

\*\*Counter H4 did not collect data on Friday, September 9, 2016. When calculating averages, that day was excluded.

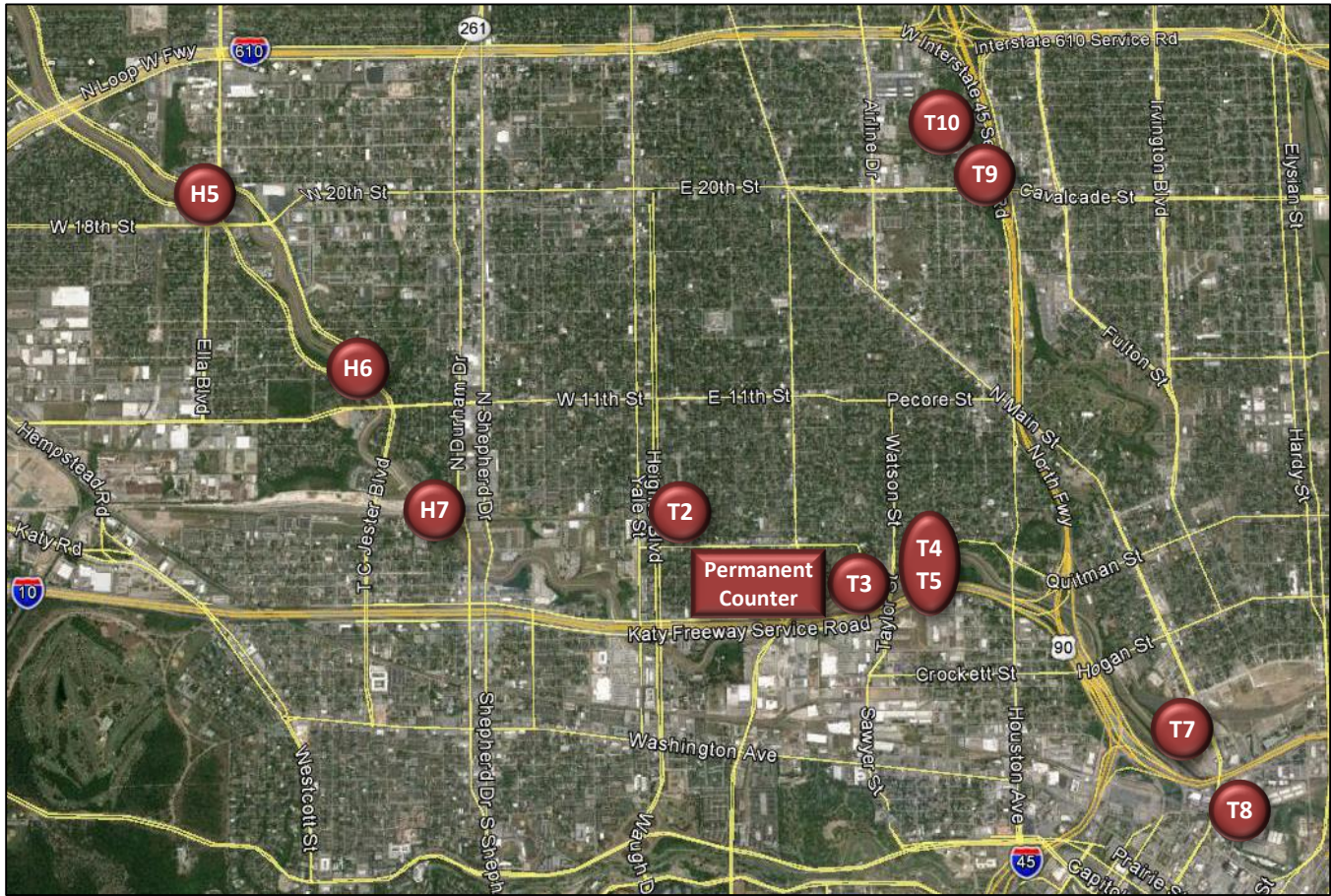


## Counter Locations

White Oak Trail in Central Houston

(Interstate 610 to Downtown Houston)

Little White Oak Bayou Trail near Houston Heights/Northside Houston



Counter	Location	Average Daily Usage	Total Users	Page Number
H5	White Oak Trail at Ella Boulevard	131	1,571	22
H6	White Oak Trail at W. T.C. Jester Boulevard Underpass	459	5,510	27
H7	MKT Trail at 7 <sup>th</sup> Street/Moy Street (White Oak Bayou Crossing)	505	6,065	32
T2	MKT Trail at Harvard Street	452	5,423	37
Permanent Counter	MKT Trail at 5 ½ Street	937	11,245	74
T3	White Oak Trail at Stude Community Center	435	5,223	42
T4	White Oak Trail (Main Shared-Use Path) at Greenleaf Street	237	2,848	47
T5	White Oak Trail (Lower Shared-Use Path) at Greenleaf Street	124	1,482	52
T7	White Oak Trail at University of Houston – Downtown	374	4,488	57
T8	White Oak Trail at San Jacinto Street	218	2,612	62
T9	Little White Oak Bayou Trail at Enid Street	14	167	66
T10	Little White Oak Bayou Trail at Cavalcade Street	19	223	70

**Overall Trends and Notes**

- *Higher Weekend Usage*  
At almost all locations along White Oak Trail and MKT Trail, average daily usage was higher during weekends than on weekdays. Usage was higher on weekdays at Counter T3 (White Oak Trail at Stude Community Center) and Counter T5 (White Oak Trail: Lower Shared-Use Path at Greenleaf Street).
- *Highest Usage in Houston Heights*  
Usage of the White Oak Trail and MKT Trail is highest in the Houston Heights, peaking at H-GAC’s permanent counter at the MKT Trail near 5½ Street. Usage generally decreases traveling northwest along the White Oak Trail from the Houston Heights. Currently, the White Oak Trail ends near Alabonson Road (Counter H1), but construction is underway to extend the facility farther west along White Oak Bayou.
- *Low Usage along Little White Oak Bayou Trail*  
Pedestrian and bicycle traffic along Little White Oak Bayou Trail was very low, with average daily usage less than 20 users/day at each count location (Counter T9 and Counter T10).
- *Decreased Usage Since Previous Deployment*  
At some locations, temporary pedestrian/bicycle counters have been deployed multiple times. At all locations where counters were redeployed, usage decreased since the previous deployment (March 2016). Several factors may have resulted to less usage:
  1. *Weather*  
During the deployment in March 2016, temperatures were lower and rainfall was higher than in September 2016. Lower, more comfortable temperatures may have enticed nearby residents to walk and bike along neighborhood facilities.

**Comparison of Weather Conditions: March 2016 Deployment and September 2016 Deployment**

	March 2016	September 2016
<b>Average High Temperature (°F)</b>	76	93
<b>Average Daily Rainfall (inches)</b>	0.24	0.03

2. *School Schedule*  
The deployment in March 2016 coincided with Spring Break for students attending Houston Independent School District (HISD), so more school-aged children may have been using the facilities then. Classes were in session during the deployment in September 2016 (except for on September 5, 2016, which was Labor Day).
3. *Evening Pedestrian/Bicycle Usage*  
Since temperatures are higher and sunset tends to be later in September than in March, peak evening volumes tended to shift later. For example, usage on weekdays at Counter H3 (White Oak Trail at W. Tidwell Road) peaked between 5:00 p.m. and 6:00 p.m. in March 2016. In September 2016, usage on weekday evenings peaked between 7:00 p.m. and 8:00 p.m.



Cyclist using White Oak Trail near University of Houston – Downtown in September 2016.

**Counter H1**

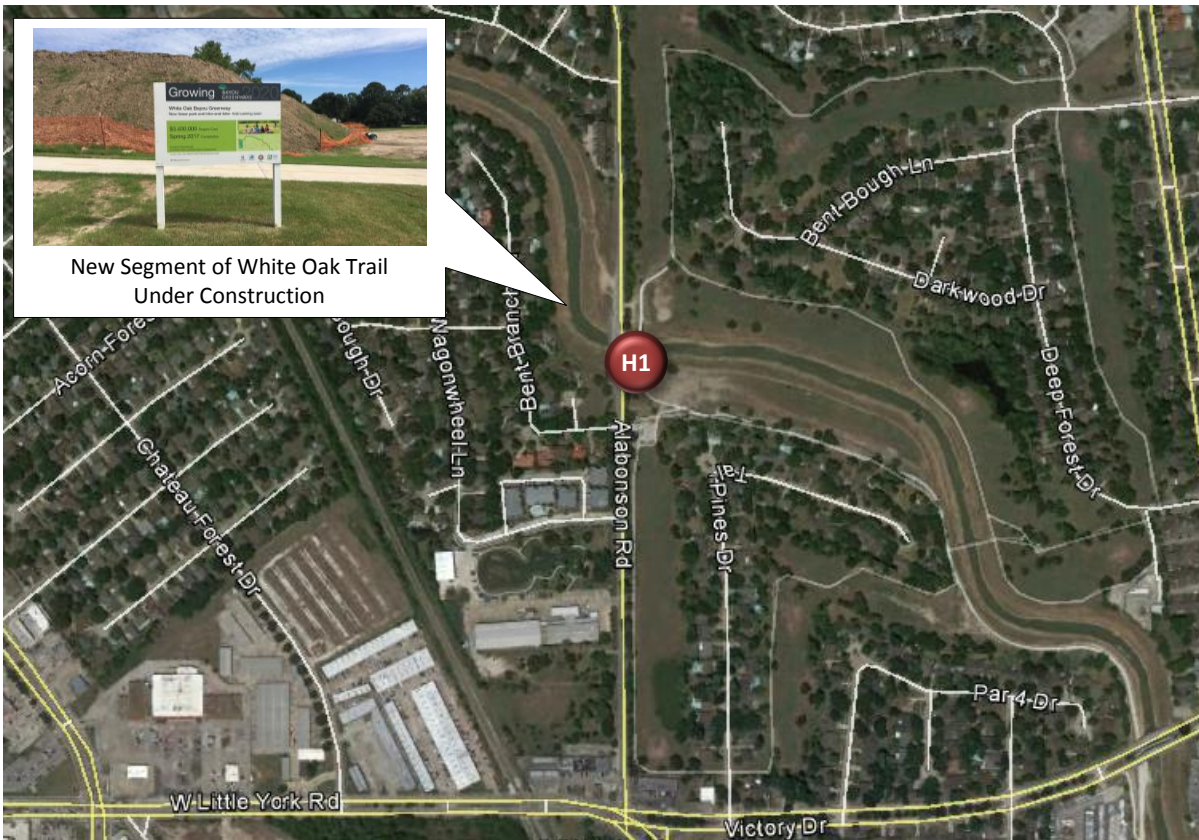
White Oak Trail at Alabonson Road

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	Yes (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	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	No	
Shade	No (Mostly Open with Newly-Planted Trees)	
Have counts been collected by H-GAC at this location before?	Yes (September 2015 and March 2016)	
Notes	White Oak Trail is currently being extended west of Alabonson Road.	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be much higher during weekends (104 users/day) than on weekdays (63 users/day).</li> <li>• On weekdays, usage is highest in the evening (7:00 p.m. – 8:00 p.m.).</li> <li>• During weekends, usage is highest in the late morning (10:00 a.m. – 12:00 p.m.).</li> <li>• Average daily usage (77 users/day) was lower than usage recorded in September 2015 (90 users/day) and March 2016 (170 users/day).</li> </ul>



**Location Information: Map**



New Segment of White Oak Trail Under Construction

**Location Information: Photos**



Image 1: White Oak Trail at Alabonson Road Facing East



Image 2: White Oak Trail at Alabonson Road Facing West

<b>Daily Usage</b> White Oak Trail at Alabonson Road				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	72	97	77	0
Friday, September 2, 2016	44	95	77	0
Saturday, September 3, 2016	74	93	75	0
Sunday, September 4, 2016	57	94	74	0.29
Monday, September 5, 2016	67	90	75	0.02
Tuesday, September 6, 2016	66	93	75	0
Wednesday, September 7, 2016	76	94	74	T
Thursday, September 8, 2016	38	94	76	0
Friday, September 9, 2016	70	91	75	0.04
Saturday, September 10, 2016	117	90	74	T
Sunday, September 11, 2016	167	91	72	0
Monday, September 12, 2016	73	92	73	0

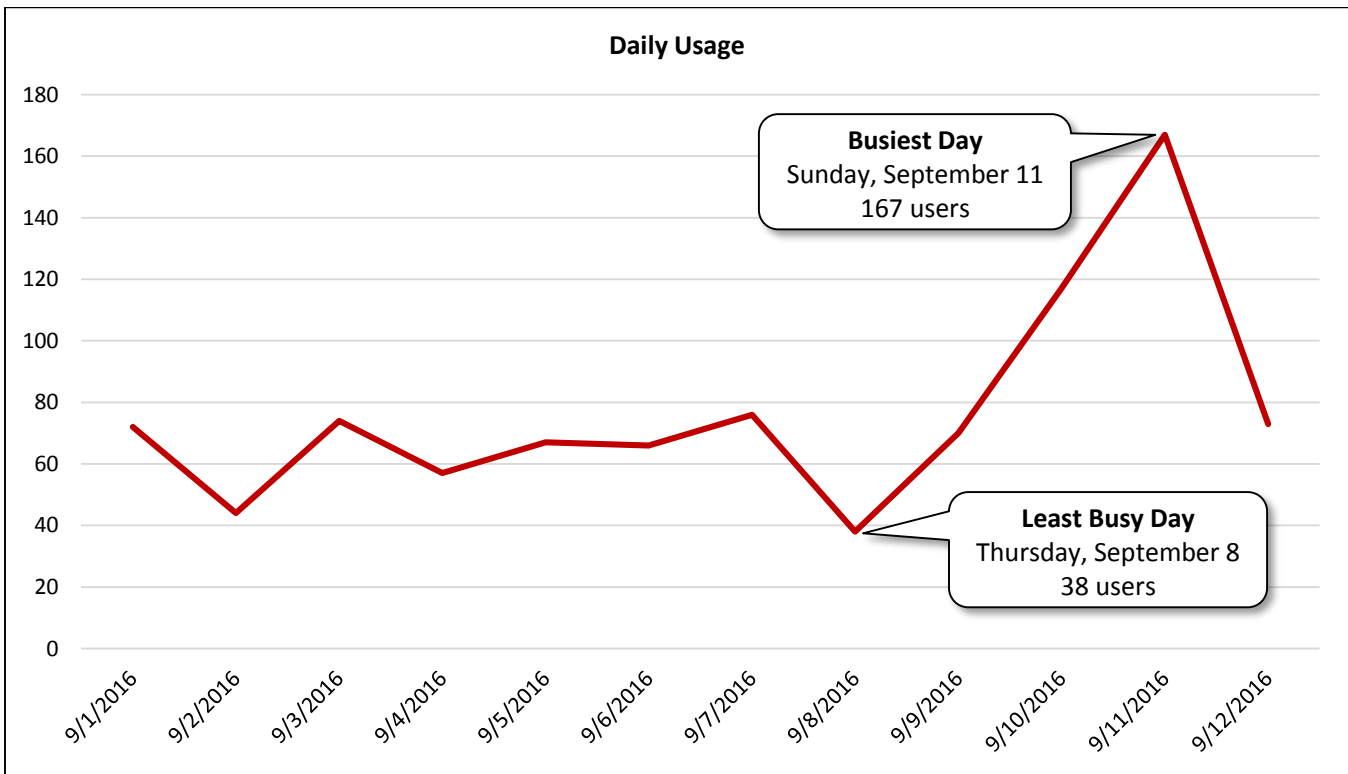
  

<b>Total</b>	921
<b>Average Daily Usage</b>	77
<b>Average Daily Usage (Weekday)</b>	63
<b>Average Daily Usage (Weekend)</b>	104

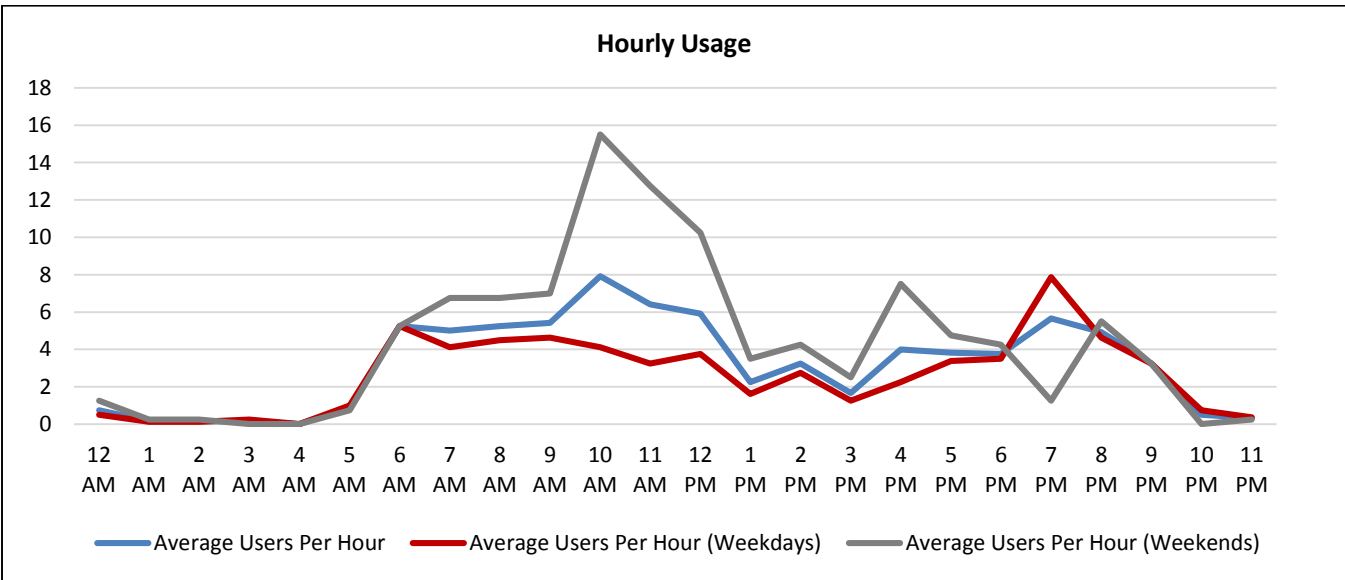
  

Notes
Labor Day: Monday, September 5, 2016

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b> White Oak Trail at Alabonson Road			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.8	0.5	1.3
1:00 a.m.	0.2	0.1	0.3
2:00 a.m.	0.2	0.1	0.3
3:00 a.m.	0.2	0.3	0.0
4:00 a.m.	0.0	0.0	0.0
5:00 a.m.	0.9	1.0	0.8
6:00 a.m.	5.3	5.3	5.3
7:00 a.m.	5.0	4.1	6.8
8:00 a.m.	5.3	4.5	6.8
9:00 a.m.	5.4	4.6	7.0
10:00 a.m.	7.9	4.1	15.5
11:00 a.m.	6.4	3.3	12.8
12:00 p.m.	5.9	3.8	10.3
1:00 p.m.	2.3	1.6	3.5
2:00 p.m.	3.3	2.8	4.3
3:00 p.m.	1.7	1.3	2.5
4:00 p.m.	4.0	2.3	7.5
5:00 p.m.	3.8	3.4	4.8
6:00 p.m.	3.8	3.5	4.3
7:00 p.m.	5.7	7.9	1.3
8:00 p.m.	4.9	4.6	5.5
9:00 p.m.	3.3	3.3	3.3
10:00 p.m.	0.5	0.8	0.0
11:00 p.m.	0.3	0.4	0.3

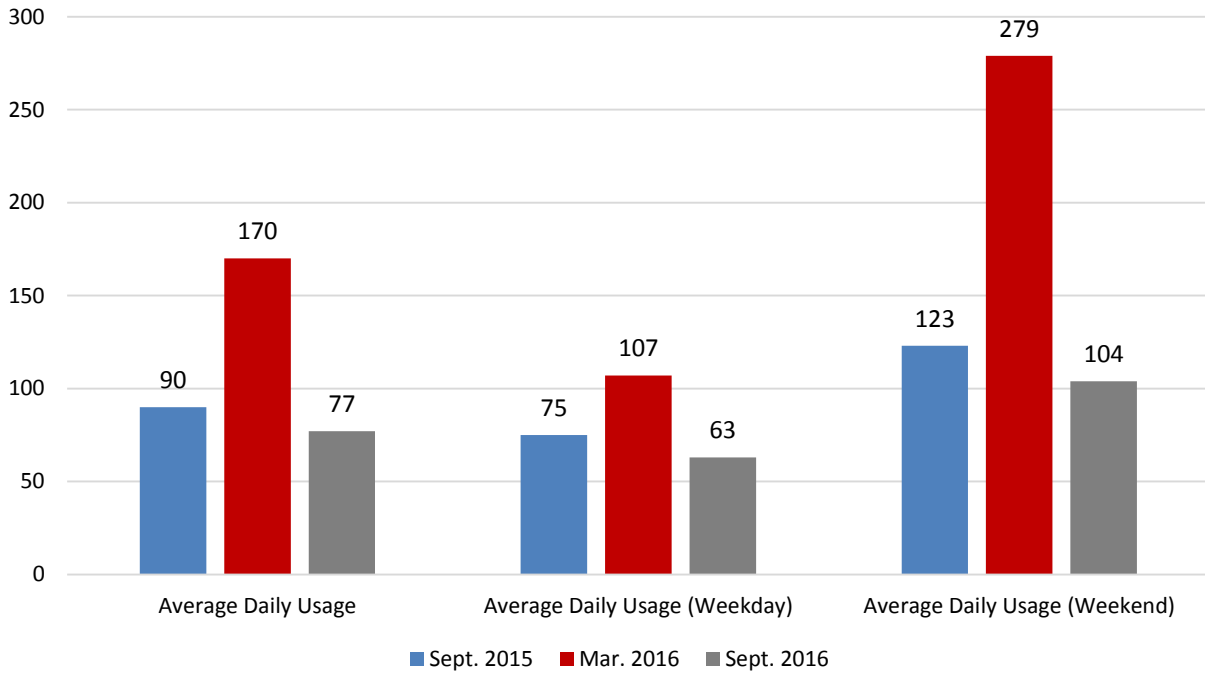




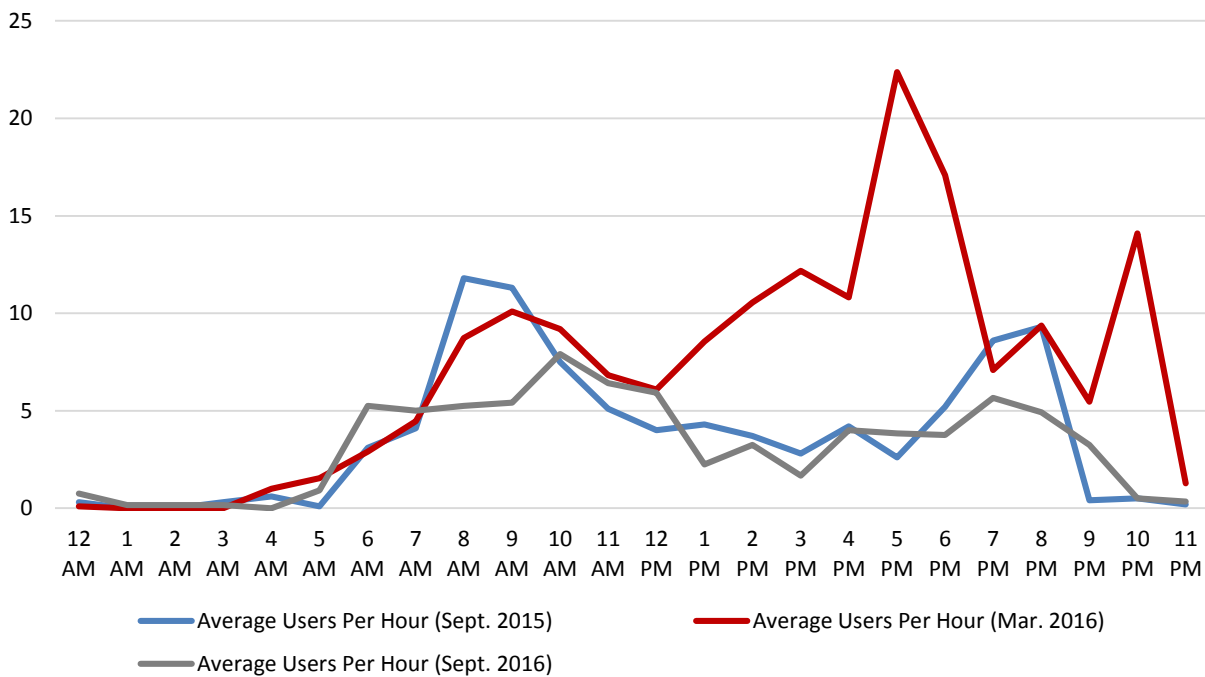
## Historical Comparison

White Oak Trail at Alabonson Road

### Comparison: Average Daily Usage



### Comparison: Hourly Usage



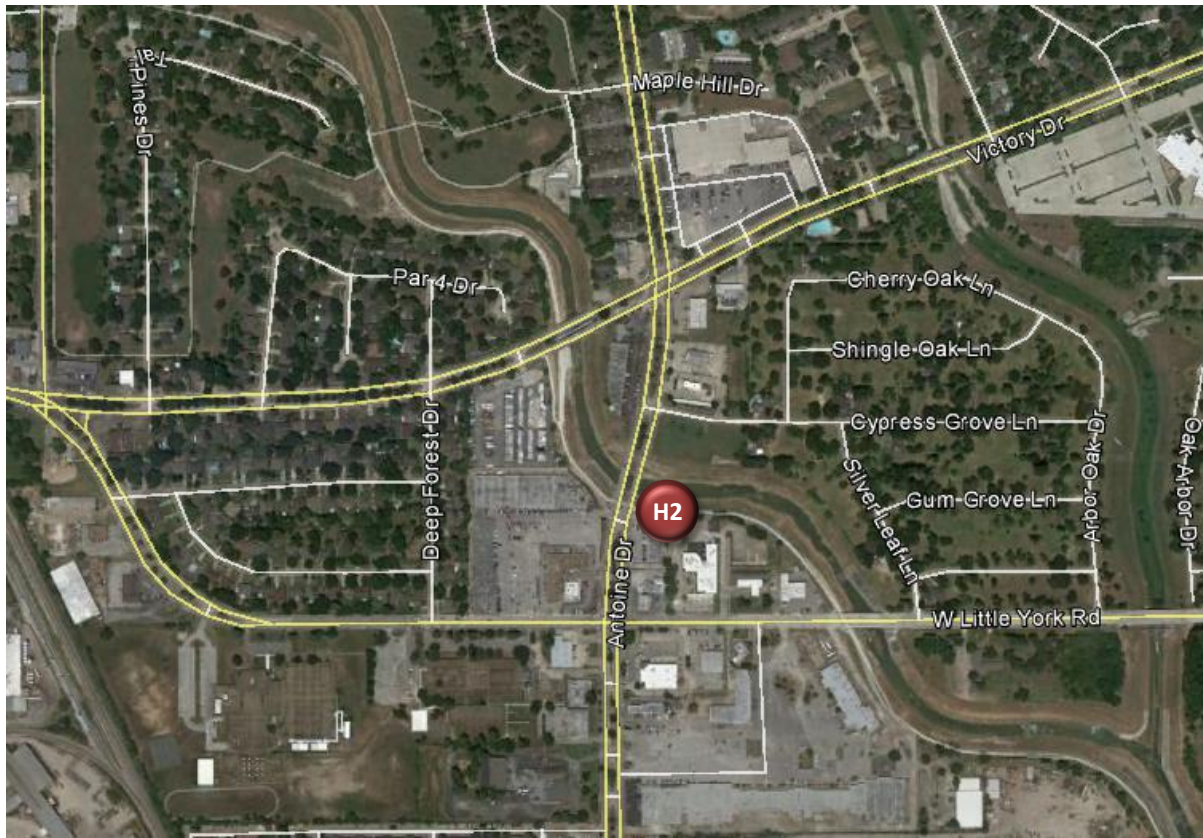
**Counter H2**

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/Retail
	South	Commercial/Retail
	East	Commercial/Retail
	West	Commercial/Retail, Single-Family Residential
What object was device secured to?	Sign Post (No Motor Vehicles) (Note: Sign was removed since deployment in March 2016, but post remains.)	
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	No (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 (METRO Bus Stops 450' Southwest at Antoine Drive/W. Little York Road Intersection)	
Shade	No (Mostly Open with Some Shade Trees)	
Have counts been collected by H-GAC at this location before?	Yes (April 2015, September 2015, and March 2016)	
Notes	<b>Counter H2 did not collect accurate data during the deployment period. It stopped collecting data on Friday, September 2, 2016 around 11:00 p.m.</b>	

Trends
<b>Counter H2 did not collect accurate data during the deployment period. It stopped collecting data on Friday, September 2, 2016 around 11:00 p.m.</b>

**Location Information: Map**



**Location Information: Photos**



Image 3: White Oak Trail at Antoine Drive Facing East



Image 4: White Oak Trail at Antoine Drive Facing West



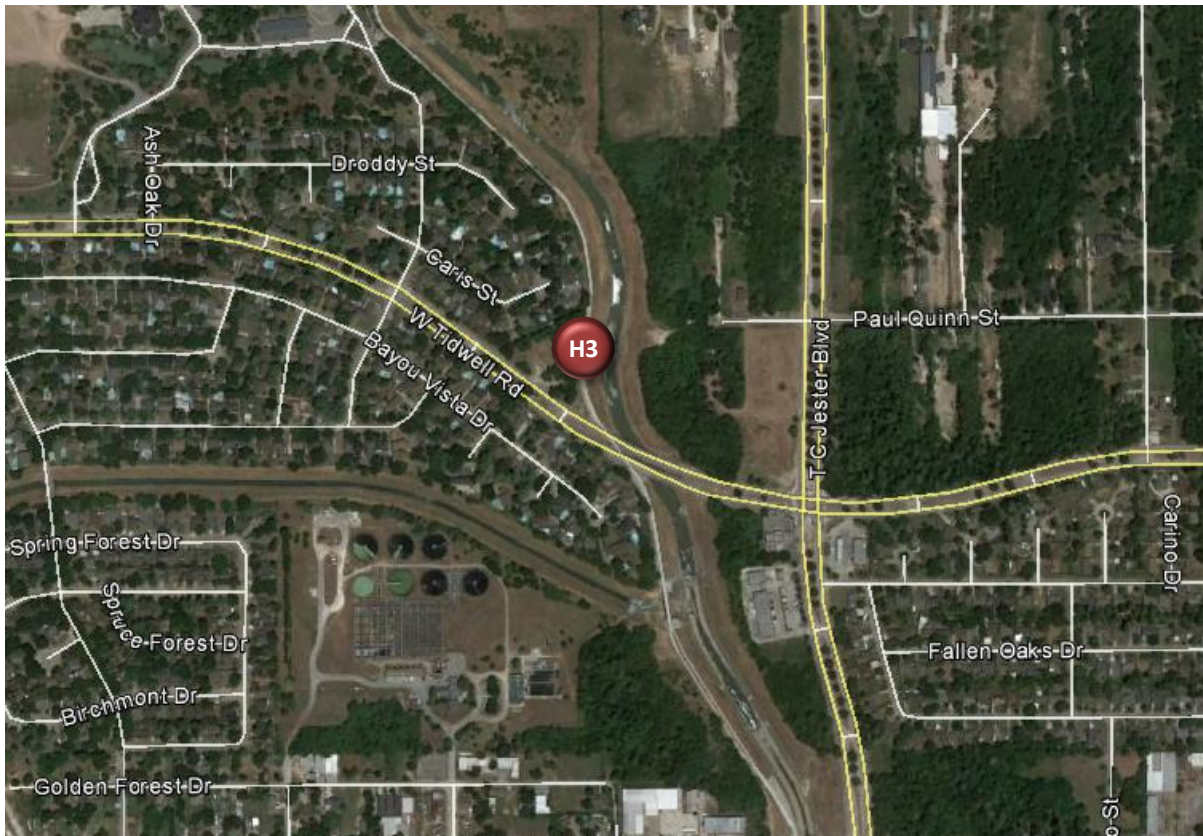
**Counter H3**

White Oak Trail at W. Tidwell Road

Location Information		
Location Name	White Oak Trail at W. Tidwell Road	
Location Description	White Oak Trail North of W. Tidwell Road	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°50'52.29"N, 95°27'41.26"W	
Surrounding Land Uses	North	Single-Family Residential, Vacant
	South	Vacant, Single-Family Residential
	East	Vacant
	West	Single-Family Residential
What object was device secured to?	Sign Post (Steep Grade/Hill)	
Sidewalk Width	10' (widens to 16' under W. Tidwell Road)	
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	N/A (Off-Road Shared-Use Path)	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Yes (METRO Bus Stop 1000' West at W. Tidwell Road/Deepcreek Lane)	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	
Notes	The counter was placed near property where a future trailhead is planned (currently undeveloped).	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be much higher during weekends (195 users/day) than on weekdays (109 users/day).</li> <li>• On weekdays, usage is highest in the morning (8:00 a.m. – 10:00 a.m.) and evening (7:00 p.m. – 8:00 p.m.).</li> <li>• During weekends, usage is highest in the morning (8:00 a.m. – 11:00 a.m.).</li> <li>• Average daily usage (138 users/day) was significantly lower than usage in March 2016 (225 users/day); however, average daily usage on weekdays (March 2016: 115 users/day and September 2016: 109 users/day) was comparable.</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 5: White Oak Trail at W. Tidwell Road Facing East



Image 6: White Oak Trail at W. Tidwell Road Facing West

<b>Daily Usage</b> White Oak Trail at W. Tidwell Road				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	105	97	77	0
Friday, September 2, 2016	79	95	77	0
Saturday, September 3, 2016	207	93	75	0
Sunday, September 4, 2016	164	94	74	0.29
Monday, September 5, 2016	232	90	75	0.02
Tuesday, September 6, 2016	101	93	75	0
Wednesday, September 7, 2016	110	94	74	T
Thursday, September 8, 2016	95	94	76	0
Friday, September 9, 2016	55	91	75	0.04
Saturday, September 10, 2016	130	90	74	T
Sunday, September 11, 2016	280	91	72	0
Monday, September 12, 2016	94	92	73	0

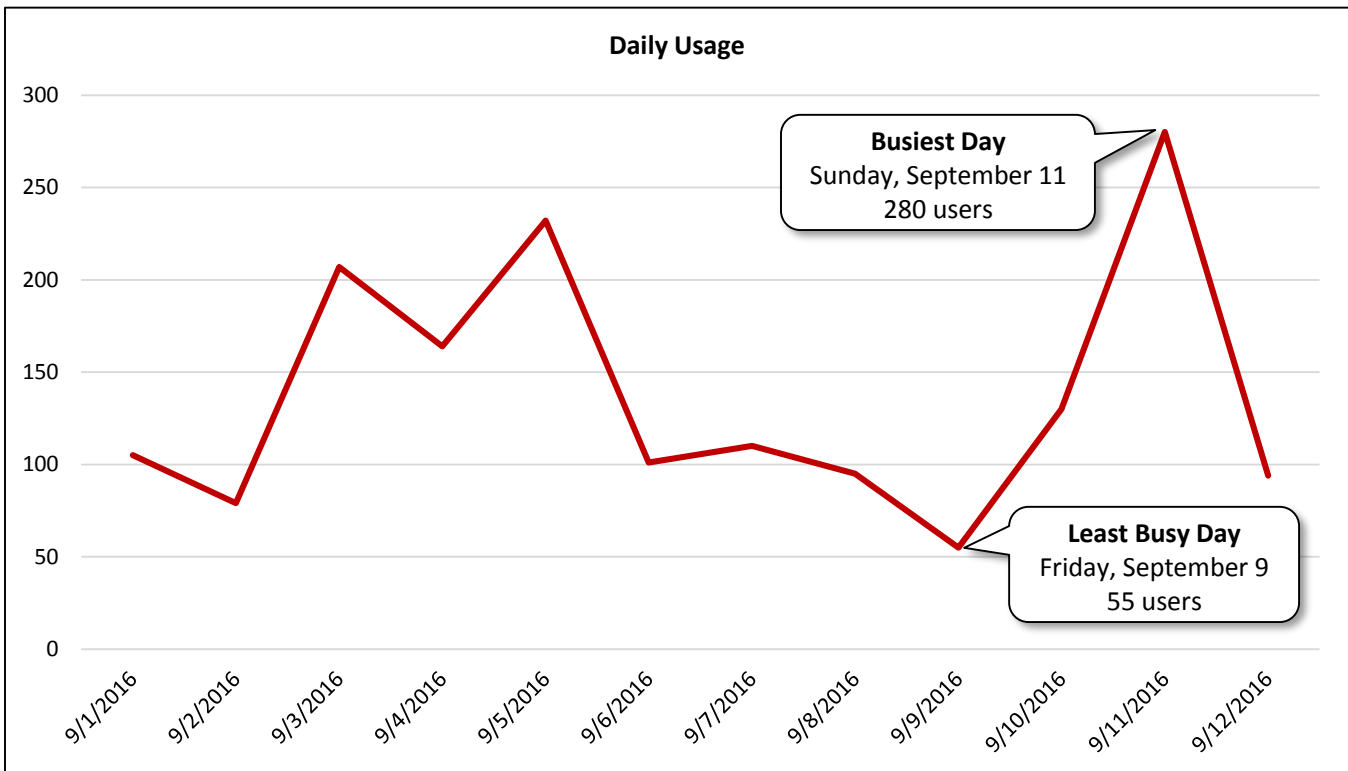
  

<b>Total</b>	1,652
<b>Average Daily Usage</b>	138
<b>Average Daily Usage (Weekday)</b>	109
<b>Average Daily Usage (Weekend)</b>	195

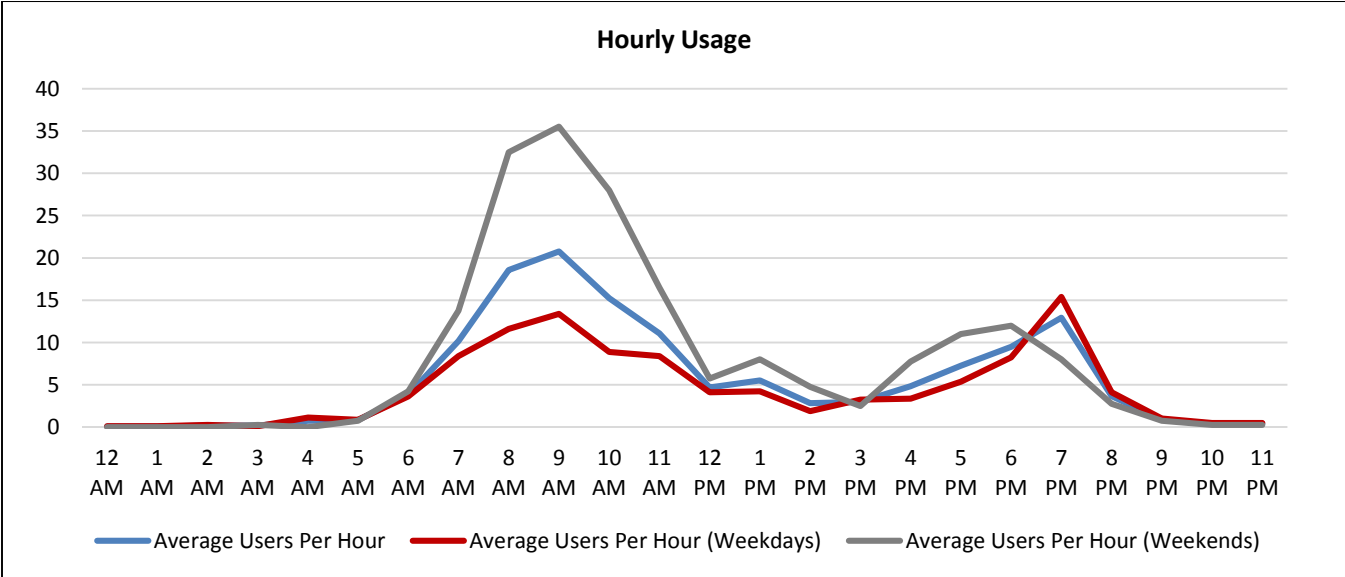
Notes
Labor Day: Monday, September 5, 2016

\*Weather conditions recorded at KHOU.





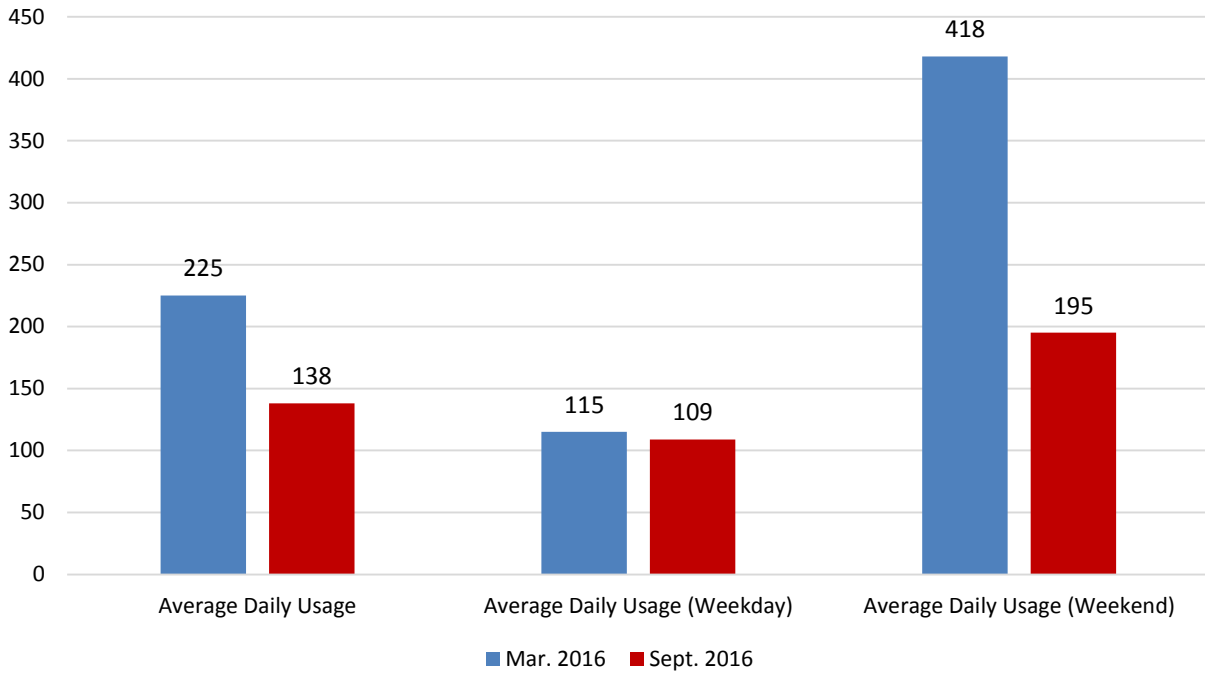
<b>Hourly Usage</b>			
White Oak Trail at W. Tidwell Road			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.1	0.1	0.0
1:00 a.m.	0.1	0.1	0.0
2:00 a.m.	0.2	0.3	0.0
3:00 a.m.	0.2	0.1	0.3
4:00 a.m.	0.8	1.1	0.0
5:00 a.m.	0.8	0.9	0.8
6:00 a.m.	3.8	3.6	4.3
7:00 a.m.	10.2	8.4	13.8
8:00 a.m.	18.6	11.6	32.5
9:00 a.m.	20.8	13.4	35.5
10:00 a.m.	15.3	8.9	28.0
11:00 a.m.	11.1	8.4	16.5
12:00 p.m.	4.7	4.1	5.8
1:00 p.m.	5.5	4.3	8.0
2:00 p.m.	2.8	1.9	4.8
3:00 p.m.	3.0	3.3	2.5
4:00 p.m.	4.8	3.4	7.8
5:00 p.m.	7.3	5.4	11.0
6:00 p.m.	9.5	8.3	12.0
7:00 p.m.	12.9	15.4	8.0
8:00 p.m.	3.7	4.1	2.8
9:00 p.m.	0.9	1.0	0.8
10:00 p.m.	0.4	0.5	0.3
11:00 p.m.	0.4	0.5	0.3



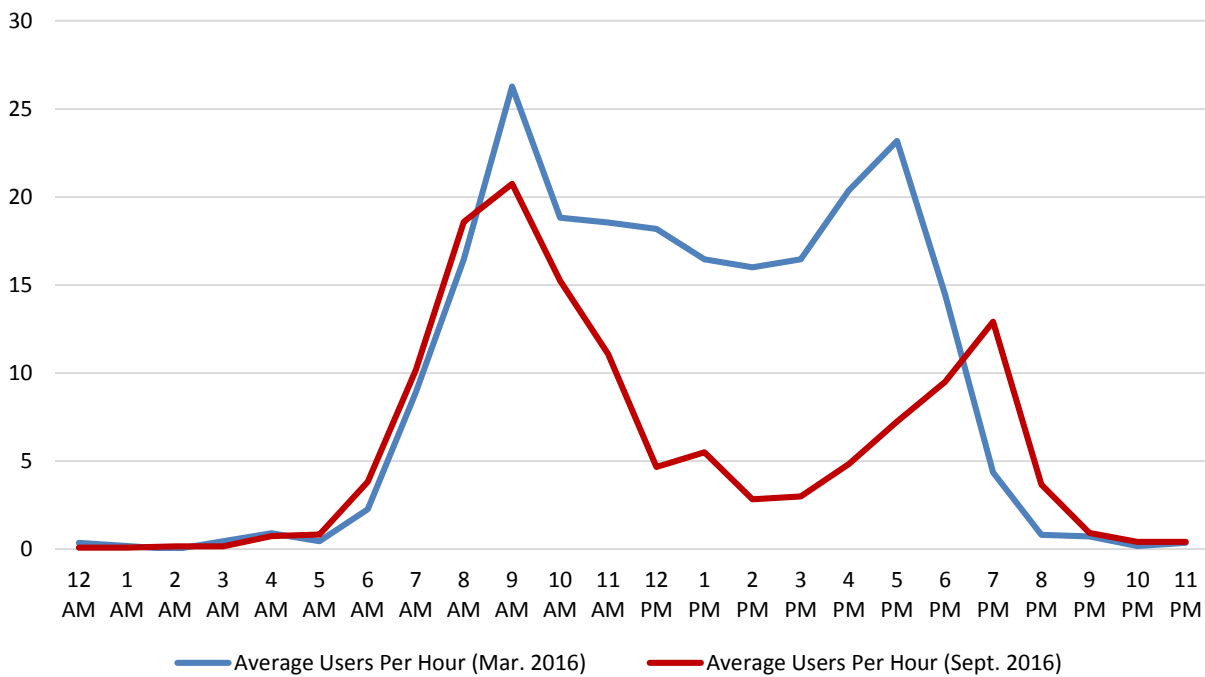
## Historical Comparison

White Oak Trail at W. Tidwell Road

### Comparison: Daily Usage



### Comparison: Hourly Usage



**Counter H4**

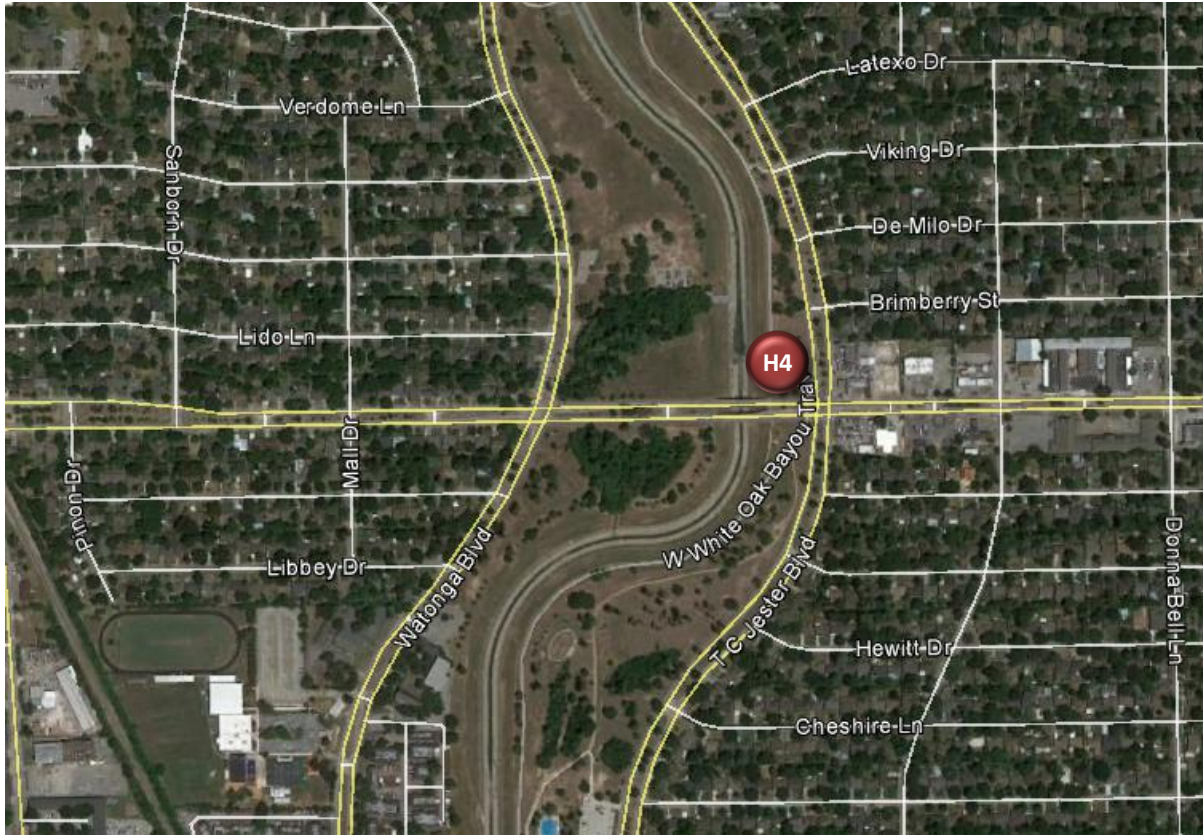
White Oak Trail at W. 43<sup>rd</sup> Street

Location Information		
Location Name	White Oak Trail at W. 43 <sup>rd</sup> Street	
Location Description	White Oak Trail north of W. 43 <sup>rd</sup> Street (parallel to T.C. Jester Boulevard)	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°49'58.84"N, 95°27'9.09"W	
Surrounding Land Uses	North	Single-Family Residential
	South	Single-Family Residential, Park
	East	Commercial/Retail, Single-Family Residential, Multi-Family Residential, Institutional (Church)
	West	Park, Single-Family Residential
What object was device secured to?	Light Post (First Light Post North of W. 43 <sup>rd</sup> Street)	
Sidewalk Width	10'	
Buffer Width	50' (Varies)	
Street Width	Four-Lane Divided Roadway	
Parallel Parking	No	
Landscaping or Trees	Yes	
Sidewalk Pavement Type	Asphalt	
ADA Ramps	Yes	
Sidewalk Condition	Good (Some Minor Cracking)	
Speed Limit	35 miles per hour	
Street Lighting	Yes	
Street Traffic Volume	17,007 (4500 T.C. Jester Boulevard: City of Houston – 2016)	
Transit	Yes (METRO Bus Stop 175' South at W. 43 <sup>rd</sup> Street/T.C. Jester Blvd.)	
Shade	No	
Have counts been collected by H-GAC at this location before?	Yes (March 2016)	
Notes	No data was collected on Friday, September 9, 2016. When calculating averages, that day was excluded.	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be much higher during weekends (218 users/day) than on weekdays (100 users/day).</li> <li>• On weekdays, usage is highest in the morning (8:00 a.m. – 10:00 a.m.). There is also an increase in usage in the evening (7:00 p.m. – 8:00 p.m.).</li> <li>• During weekends, usage is highest in the morning (8:00 a.m. – 10:00 a.m.).</li> <li>• Average daily usage (143 users/day) was significantly lower than usage in March 2016 (349 users/day).</li> </ul>



**Location Information: Map**



**Location Information: Photos**



Image 7: White Oak Trail at W. 43<sup>rd</sup> Street Facing East



Image 8: White Oak Trail at W. 43<sup>rd</sup> Street Facing West

<b>Daily Usage</b> White Oak Trail at W. 43 <sup>rd</sup> Street				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	95	97	77	0
Friday, September 2, 2016	70	95	77	0
Saturday, September 3, 2016	205	93	75	0
Sunday, September 4, 2016	157	94	74	0.29
Monday, September 5, 2016	137	90	75	0.02
Tuesday, September 6, 2016	90	93	75	0
Wednesday, September 7, 2016	139	94	74	T
Thursday, September 8, 2016	64	94	76	0
Friday, September 9, 2016	N/A	91	75	0.04
Saturday, September 10, 2016	209	90	74	T
Sunday, September 11, 2016	301	91	72	0
Monday, September 12, 2016	108	92	73	0

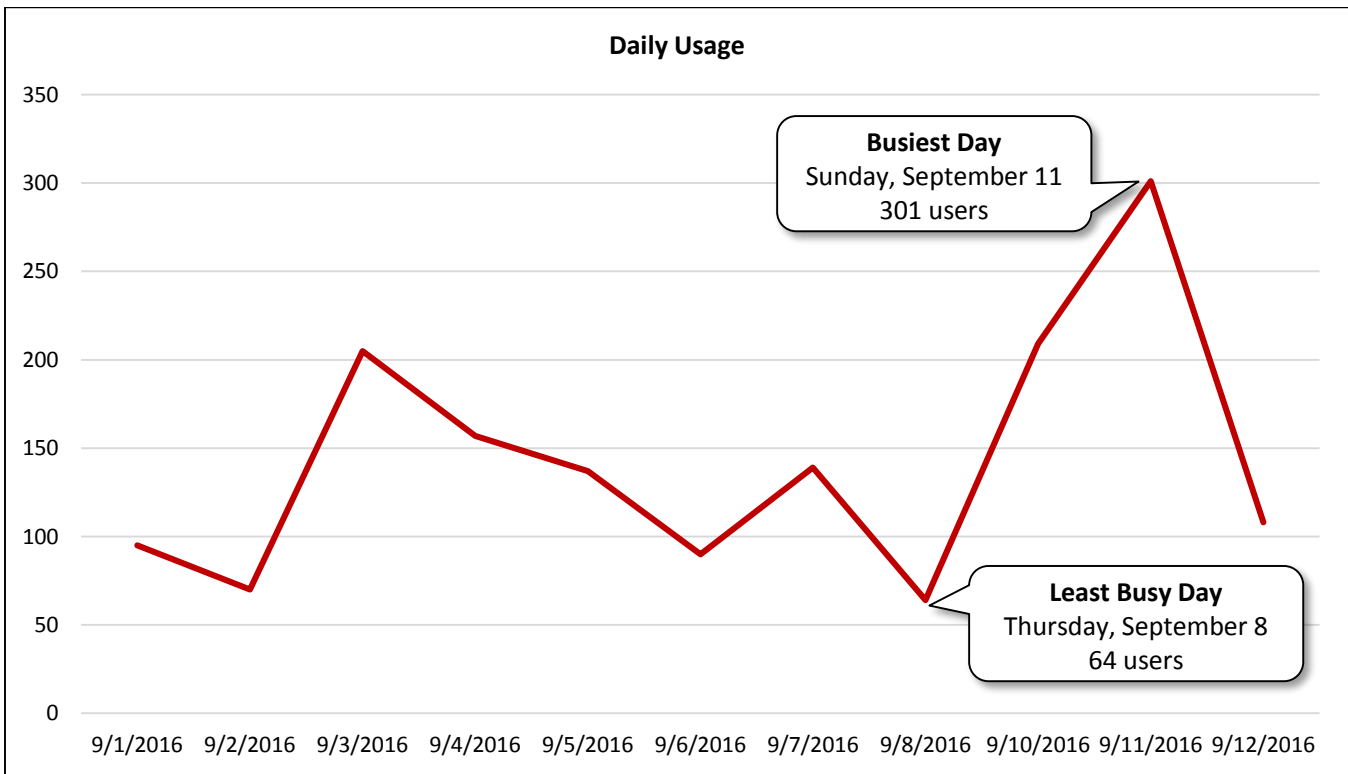
  

<b>Total</b>	1,575
<b>Average Daily Usage</b>	143
<b>Average Daily Usage (Weekday)</b>	100
<b>Average Daily Usage (Weekend)</b>	218

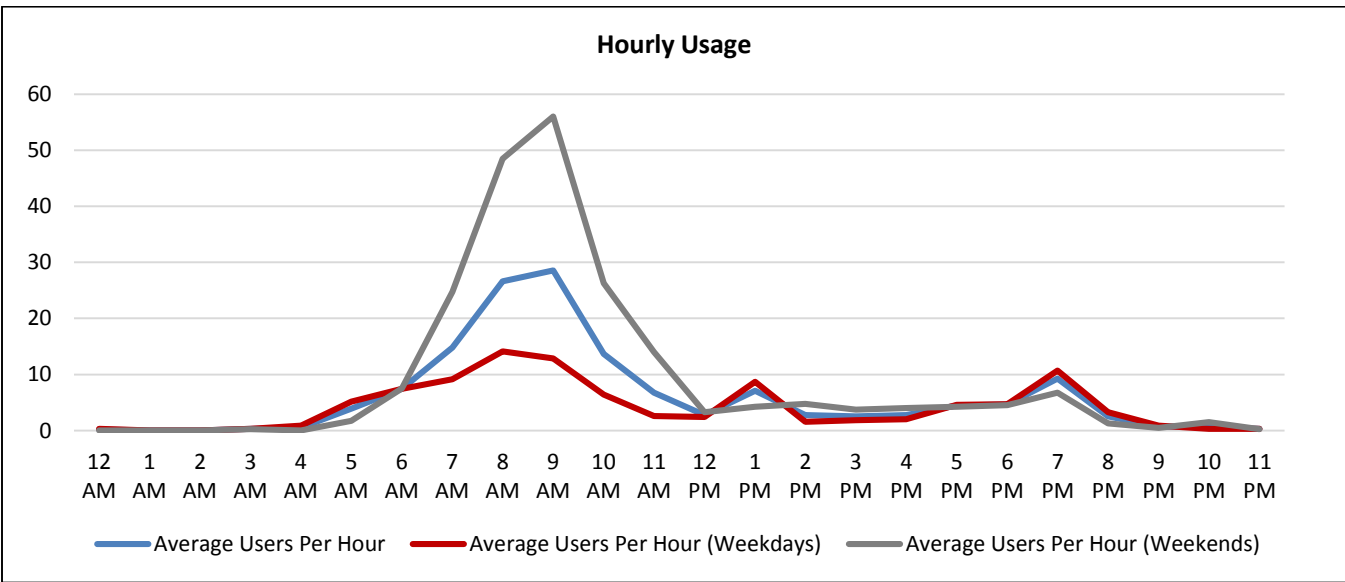
  

Notes
Labor Day: Monday, September 5, 2016
No data was collected on Friday, September 9, 2016. When calculating averages, that day was excluded.

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b> White Oak Trail at W. 43 <sup>rd</sup> Street			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.2	0.3	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	0.3	0.3
4:00 a.m.	0.5	0.9	0.0
5:00 a.m.	3.9	5.1	1.8
6:00 a.m.	7.5	7.4	7.5
7:00 a.m.	14.8	9.1	24.8
8:00 a.m.	26.6	14.1	48.5
9:00 a.m.	28.5	12.9	56.0
10:00 a.m.	13.6	6.4	26.3
11:00 a.m.	6.7	2.6	14.0
12:00 p.m.	2.7	2.4	3.3
1:00 p.m.	7.1	8.7	4.3
2:00 p.m.	2.7	1.6	4.8
3:00 p.m.	2.5	1.9	3.8
4:00 p.m.	2.7	2.0	4.0
5:00 p.m.	4.5	4.6	4.3
6:00 p.m.	4.6	4.7	4.5
7:00 p.m.	9.3	10.7	6.8
8:00 p.m.	2.5	3.3	1.3
9:00 p.m.	0.7	0.9	0.5
10:00 p.m.	0.7	0.3	1.5
11:00 p.m.	0.3	0.3	0.3

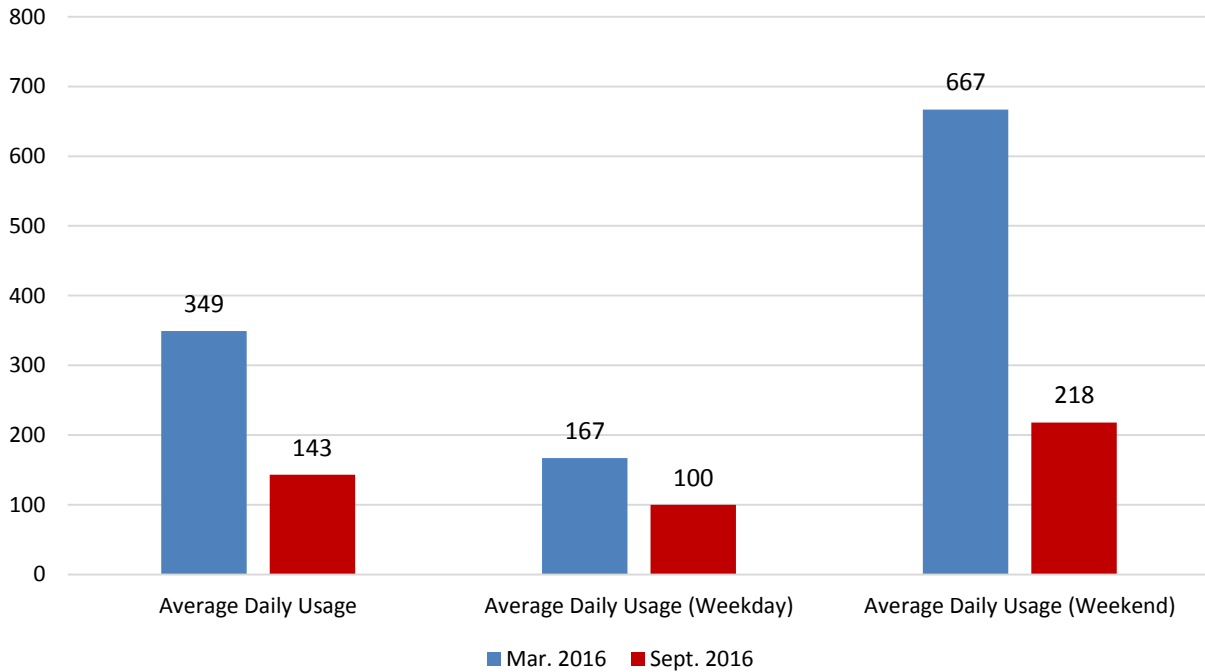


No data was collected on Friday, September 9, 2016. When calculating averages, that day was excluded.

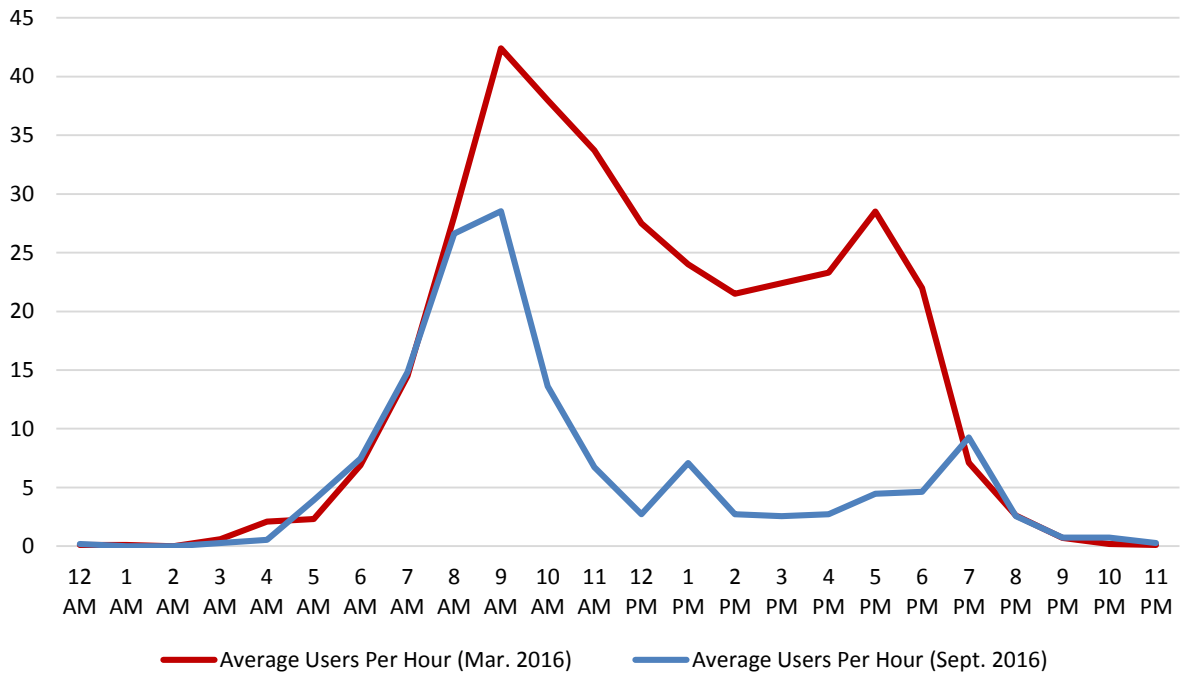
## Historical Comparison

White Oak Trail at W. 43<sup>rd</sup> Street

### Comparison: Daily Usage



### Comparison: Hourly Usage



During the current deployment, no data was collected on Friday, September 9, 2016. When calculating averages, that day was excluded.



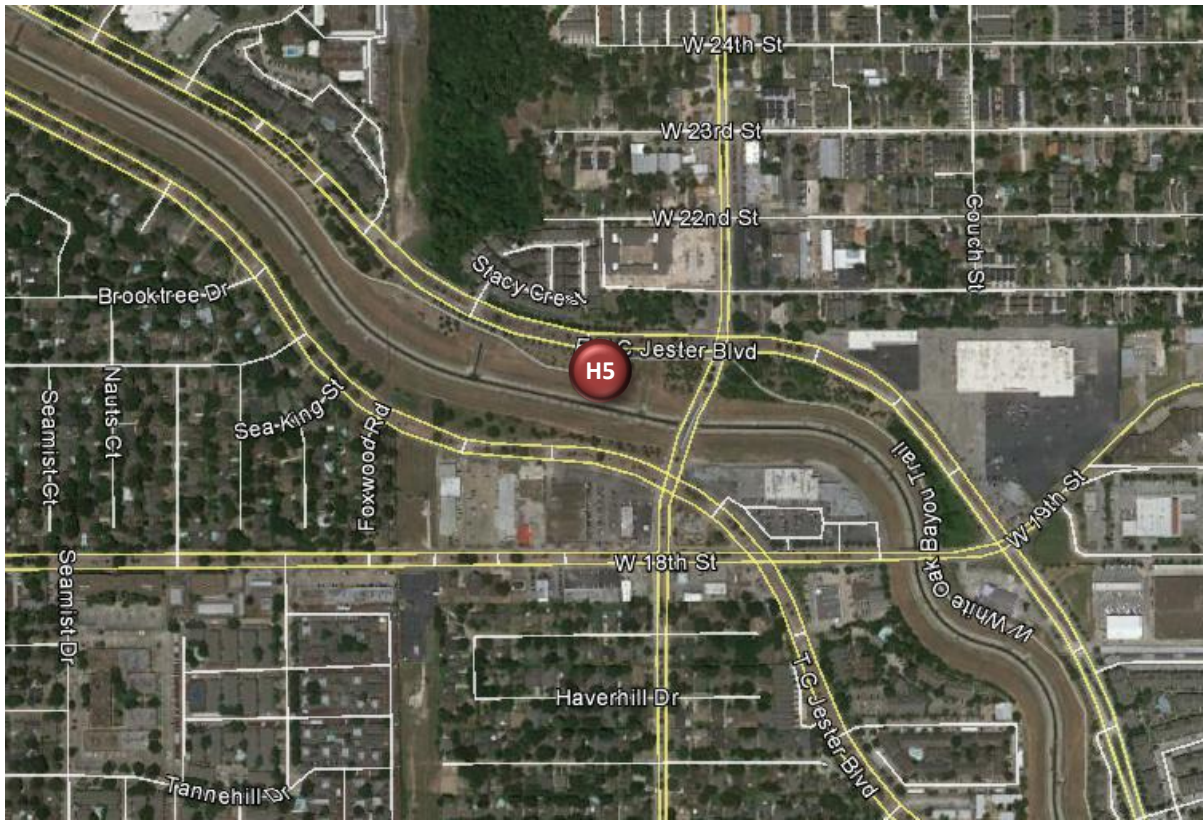
**Counter H5**

White Oak Trail at Ella Boulevard

Location Information		
Location Name	White Oak Trail at Ella Boulevard	
Location Description	White Oak Trail west of Ella Boulevard (parallel to E. T.C. Jester Boulevard)	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°48'13.84"N, 95°25'51.30"W	
Surrounding Land Uses	North	Multi-Family Residential, Commercial/Retail, Single-Family Residential
	South	Park, Commercial/Retail
	East	Park, Commercial/Retail, Single-Family Residential
	West	Park, Multi-Family Residential
What object was device secured to?	Light Post	
Sidewalk Width	10'	
Buffer Width	90' (Varies)	
Street Width	Four-Lane Divided Highway	
Parallel Parking	No	
Landscaping or Trees	Yes	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	40 miles per hour	
Street Lighting	Yes	
Street Traffic Volume	7,343 (2400 E. T. C. Jester Boulevard: City of Houston – 2016)	
Transit	Nearby (METRO Bus Stop 600' Northeast at Ella Boulevard/21 <sup>st</sup> Street)	
Shade	No	
Have counts been collected by H-GAC at this location before?	Yes (March 2016)	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be higher during weekends (146 users/day) than on weekdays (123 users/day).</li> <li>• On weekdays, usage is highest in the evening (7:00 p.m. – 8:00 p.m.).</li> <li>• During weekends, usage is highest in the morning (7:00 a.m. – 9:00 a.m.).</li> <li>• Average daily usage (131 users/day) was significantly lower than usage in March 2016 (497 users/day).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 9: White Oak Trail at Ella Boulevard  
Facing East



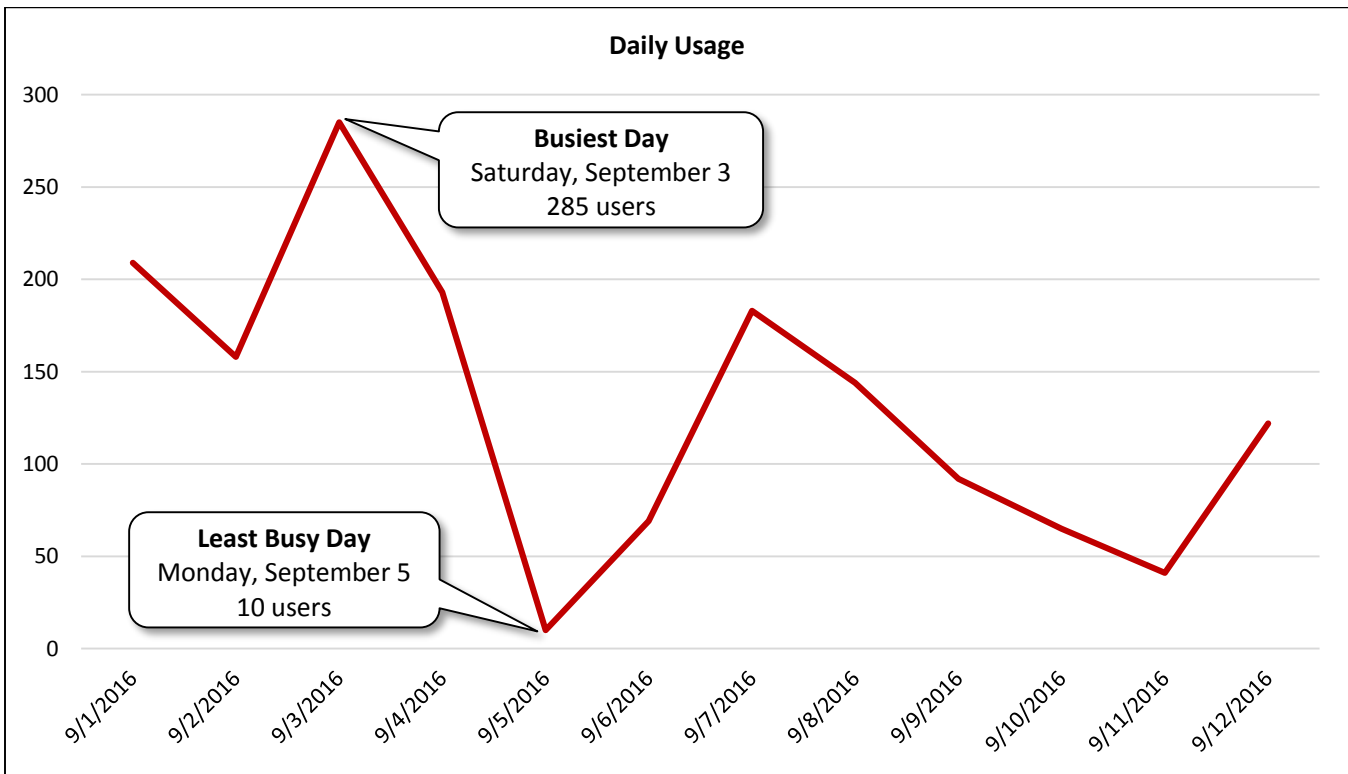
Image 10: White Oak Trail at Ella Boulevard  
Facing West

<b>Daily Usage</b> White Oak Trail at Ella Boulevard				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	209	97	77	0
Friday, September 2, 2016	158	95	77	0
Saturday, September 3, 2016	285	93	75	0
Sunday, September 4, 2016	193	94	74	0.29
Monday, September 5, 2016	10	90	75	0.02
Tuesday, September 6, 2016	69	93	75	0
Wednesday, September 7, 2016	183	94	74	T
Thursday, September 8, 2016	144	94	76	0
Friday, September 9, 2016	92	91	75	0.04
Saturday, September 10, 2016	65	90	74	T
Sunday, September 11, 2016	41	91	72	0
Monday, September 12, 2016	122	92	73	0
<b>Total</b>	1,571			
<b>Average Daily Usage</b>	131			
<b>Average Daily Usage (Weekday)</b>	123			
<b>Average Daily Usage (Weekend)</b>	146			

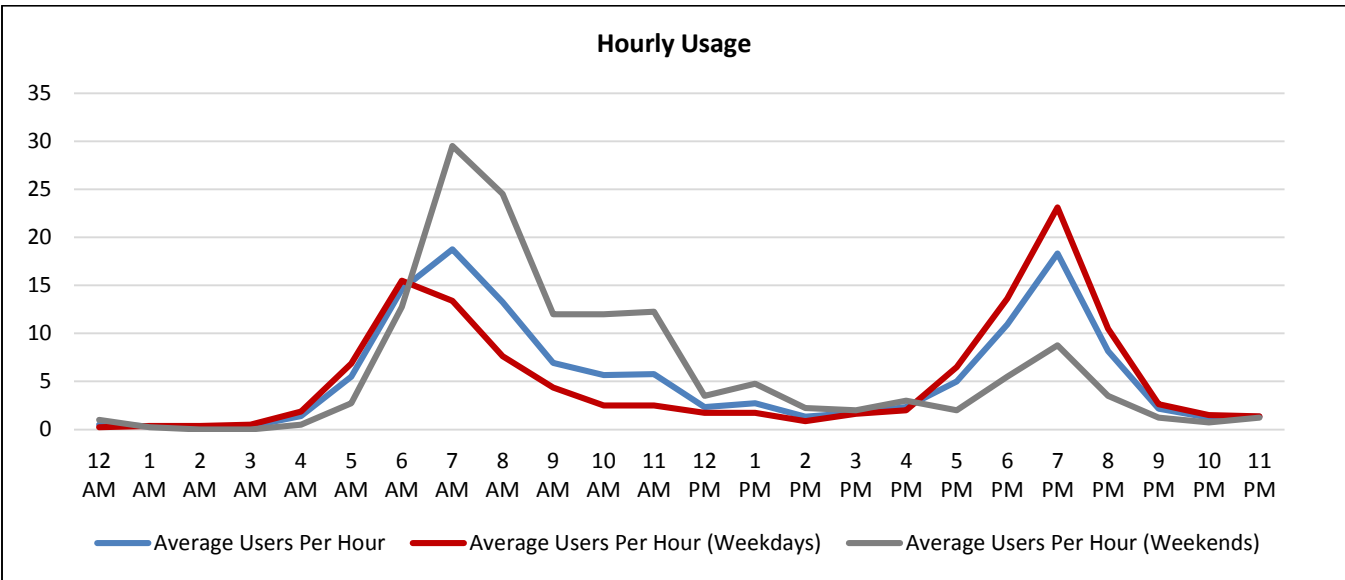
  

<b>Notes</b>	
Labor Day: Monday, September 5, 2016	

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b> White Oak Trail at Ella Boulevard			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.5	0.3	1.0
1:00 a.m.	0.3	0.4	0.3
2:00 a.m.	0.3	0.4	0.0
3:00 a.m.	0.3	0.5	0.0
4:00 a.m.	1.4	1.9	0.5
5:00 a.m.	5.5	6.9	2.8
6:00 a.m.	14.6	15.5	12.8
7:00 a.m.	18.8	13.4	29.5
8:00 a.m.	13.3	7.6	24.5
9:00 a.m.	6.9	4.4	12.0
10:00 a.m.	5.7	2.5	12.0
11:00 a.m.	5.8	2.5	12.3
12:00 p.m.	2.3	1.8	3.5
1:00 p.m.	2.8	1.8	4.8
2:00 p.m.	1.3	0.9	2.3
3:00 p.m.	1.8	1.6	2.0
4:00 p.m.	2.3	2.0	3.0
5:00 p.m.	5.0	6.5	2.0
6:00 p.m.	10.9	13.6	5.5
7:00 p.m.	18.3	23.1	8.8
8:00 p.m.	8.2	10.5	3.5
9:00 p.m.	2.2	2.6	1.3
10:00 p.m.	1.3	1.5	0.8
11:00 p.m.	1.3	1.4	1.3

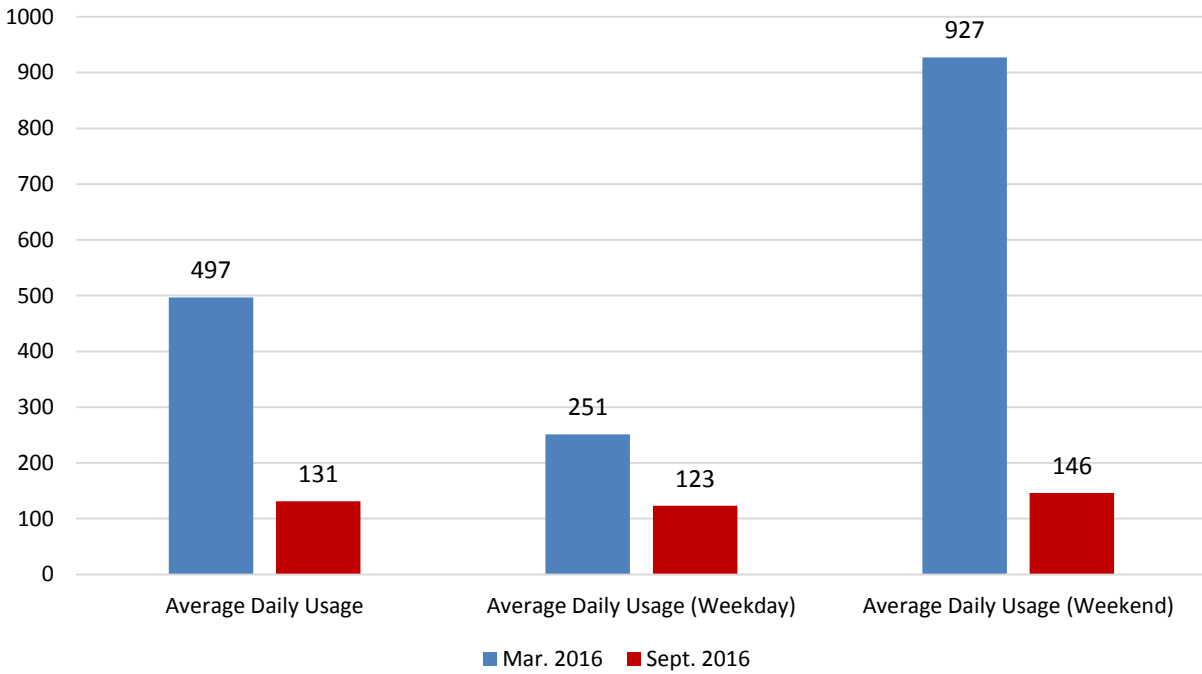




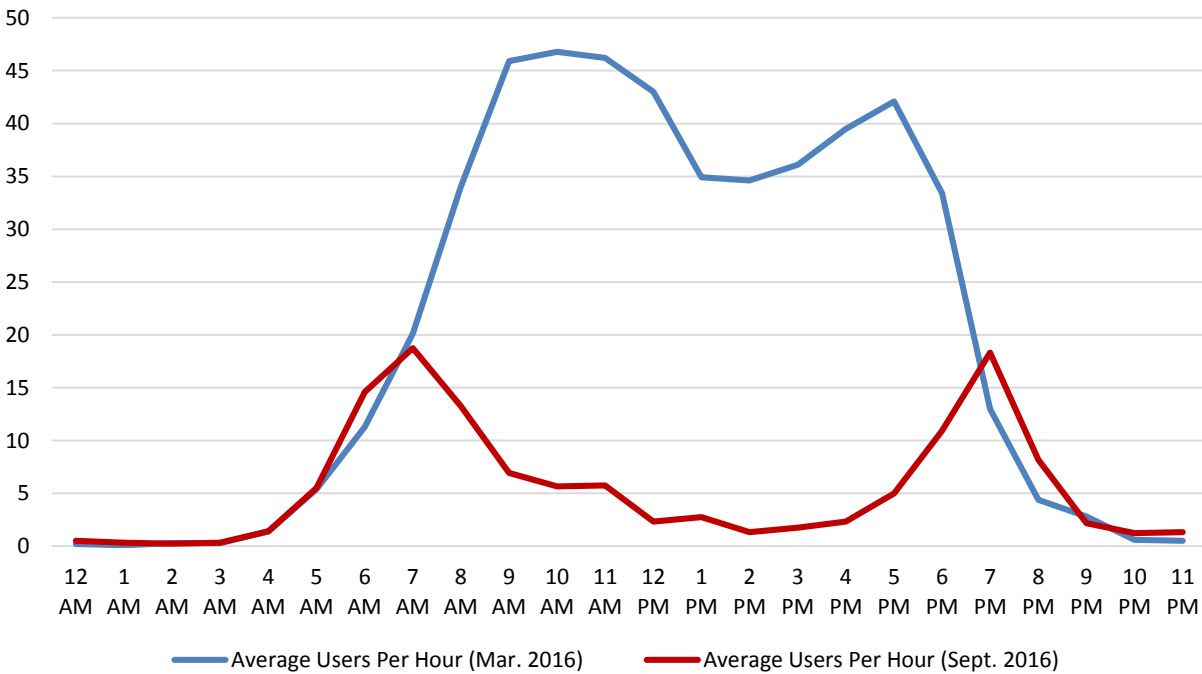
## Historical Comparison

White Oak Trail at Ella Boulevard

### Comparison: Daily Usage



### Comparison: Hourly Usage



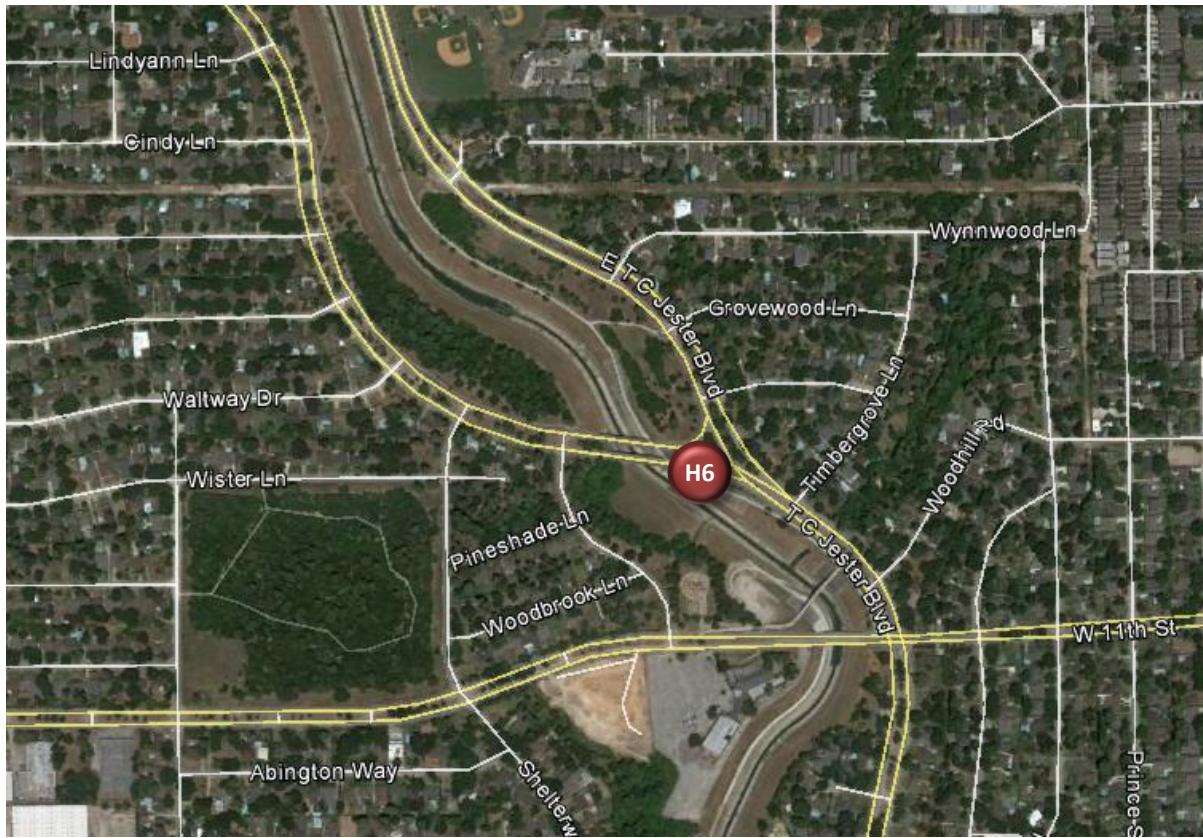
**Counter H6**

White Oak Trail at W. T.C. Jester Boulevard Underpass

Location Information		
Location Name	White Oak Trail at W. T.C. Jester Boulevard Underpass	
Location Description	White Oak Trail south of W. T.C. Jester Boulevard underpass, near where E. T.C. Jester Boulevard and W. T.C. Jester Boulevard diverge in Timbergrove	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°47'30.49"N, 95°25'7.65"W	
Surrounding Land Uses	North	Park, Single-Family Residential
	South	Park, Single-Family Residential, Institutional (Church)
	East	Single-Family Residential
	West	Park, Single-Family Residential
What object was device secured to?	Railing Adjacent to Shared-Use Path	
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	No	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	Yes (March 2016)	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be much higher during weekends (623 users/day) than on weekdays (378 users/day).</li> <li>• On weekdays, usage is highest in the evening (5:00 p.m. – 8:00 p.m.).</li> <li>• During weekends, usage is highest in the late morning (10:00 a.m. – 12:00 p.m.).</li> <li>• Average daily usage (459 users/day) was lower than usage in March 2016 (555 users/day); however, average daily usage on weekdays was significantly higher in September 2016 (378 users/day) than in March 2016 (271 users/day).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 11: White Oak Trail at T.C. Jester Boulevard Facing East



Image 12: White Oak Trail at T.C. Jester Boulevard Facing West

<b>Daily Usage</b> White Oak Trail at W. T.C. Jester Boulevard Underpass				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	384	97	77	0
Friday, September 2, 2016	332	95	77	0
Saturday, September 3, 2016	703	93	75	0
Sunday, September 4, 2016	517	94	74	0.29
Monday, September 5, 2016	601	90	75	0.02
Tuesday, September 6, 2016	412	93	75	0
Wednesday, September 7, 2016	426	94	74	T
Thursday, September 8, 2016	329	94	76	0
Friday, September 9, 2016	137	91	75	0.04
Saturday, September 10, 2016	452	90	74	T
Sunday, September 11, 2016	818	91	72	0
Monday, September 12, 2016	399	92	73	0

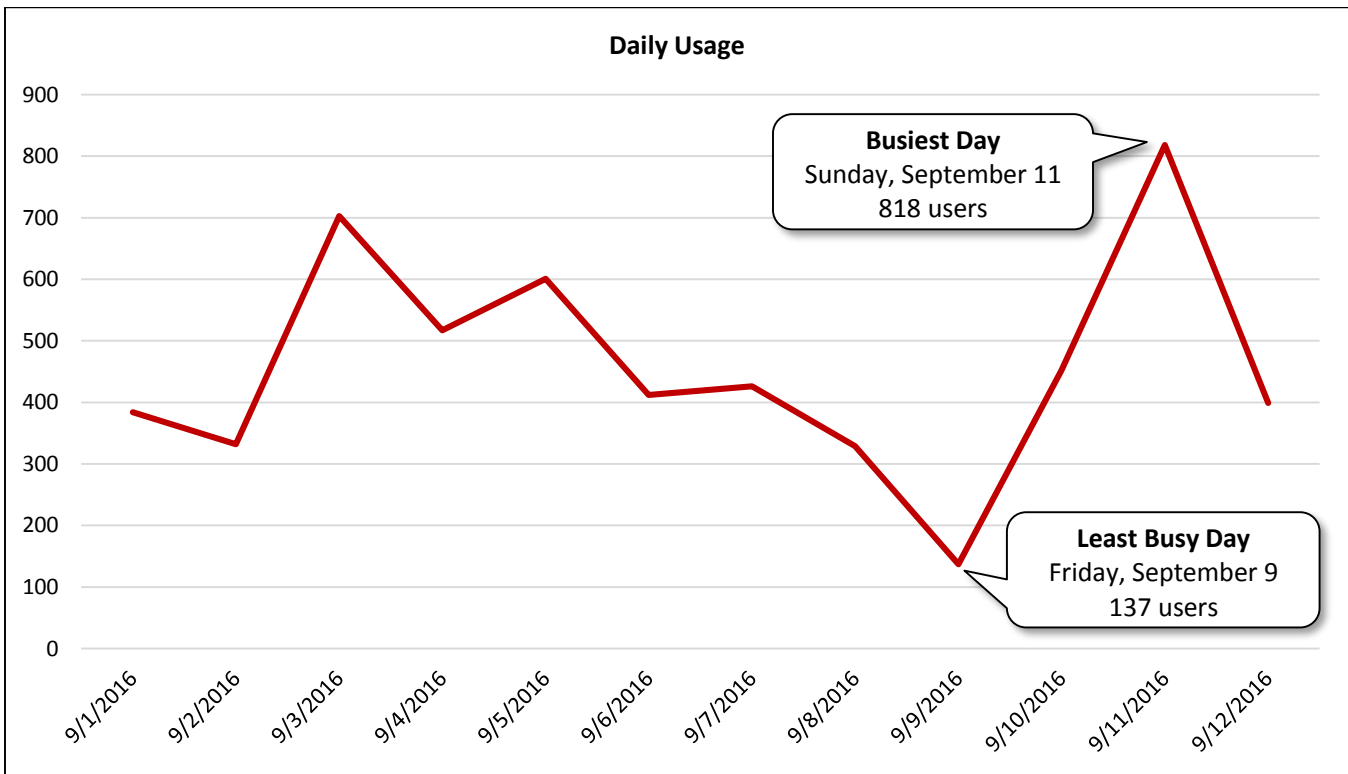
  

<b>Total</b>	5,510
<b>Average Daily Usage</b>	459
<b>Average Daily Usage (Weekday)</b>	378
<b>Average Daily Usage (Weekend)</b>	623

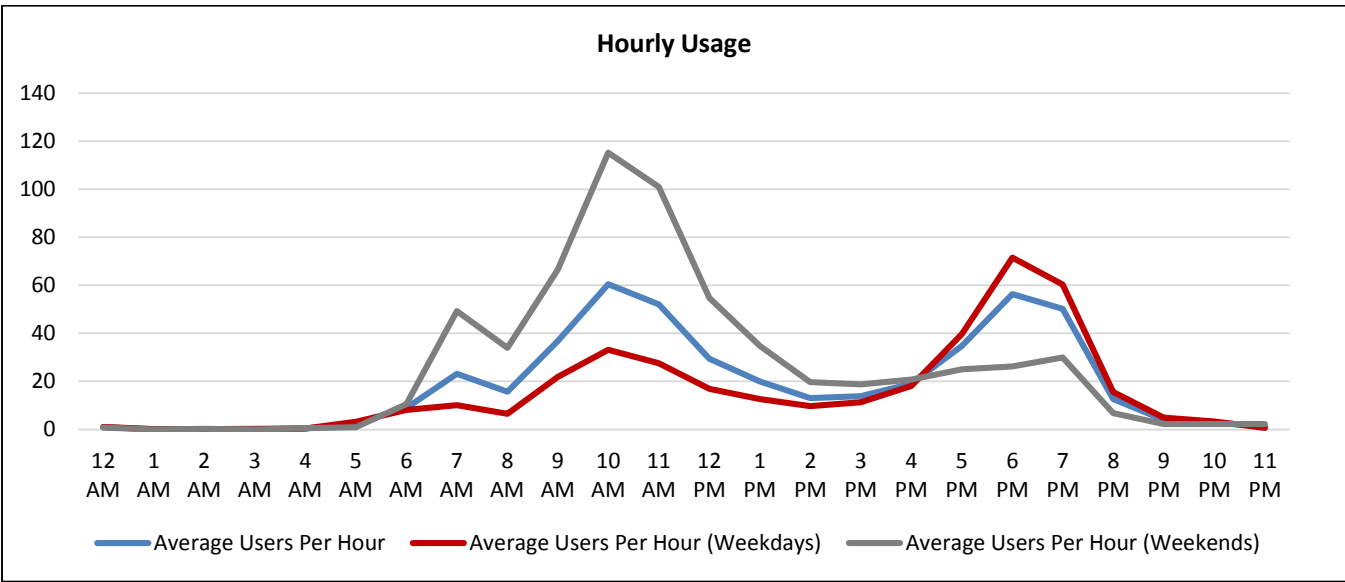
Notes
Labor Day: Monday, September 5, 2016

\*Weather conditions recorded at KHOU.





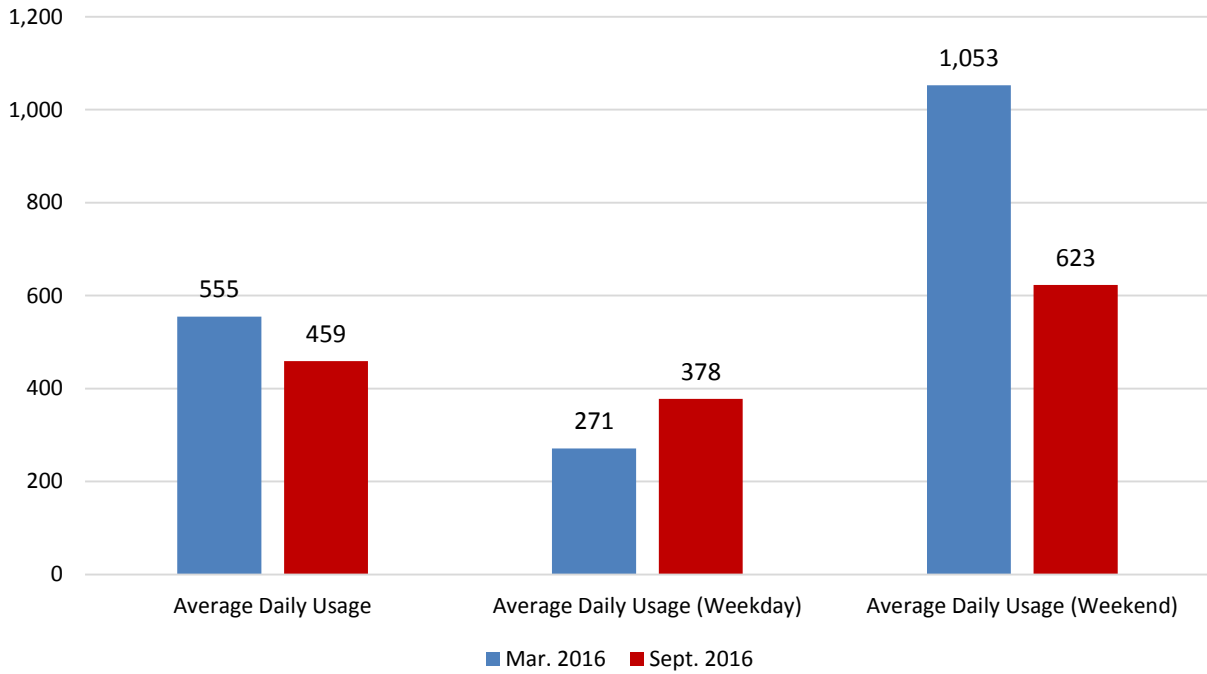
<b>Hourly Usage</b>			
White Oak Trail at W. T.C. Jester Boulevard Underpass			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	1.0	1.1	0.8
1:00 a.m.	0.1	0.1	0.0
2:00 a.m.	0.2	0.1	0.3
3:00 a.m.	0.2	0.3	0.0
4:00 a.m.	0.4	0.4	0.5
5:00 a.m.	2.5	3.3	1.0
6:00 a.m.	8.9	8.1	10.5
7:00 a.m.	23.2	10.1	49.3
8:00 a.m.	15.7	6.5	34.0
9:00 a.m.	36.8	21.9	66.5
10:00 a.m.	60.5	33.1	115.3
11:00 a.m.	52.1	27.6	101.0
12:00 p.m.	29.5	16.9	54.8
1:00 p.m.	20.0	12.6	34.8
2:00 p.m.	13.1	9.8	19.8
3:00 p.m.	13.8	11.4	18.8
4:00 p.m.	19.0	18.1	20.8
5:00 p.m.	34.8	39.8	25.0
6:00 p.m.	56.4	71.5	26.3
7:00 p.m.	50.3	60.4	30.0
8:00 p.m.	12.7	15.6	6.8
9:00 p.m.	4.0	4.9	2.3
10:00 p.m.	3.0	3.4	2.3
11:00 p.m.	1.2	0.6	2.3



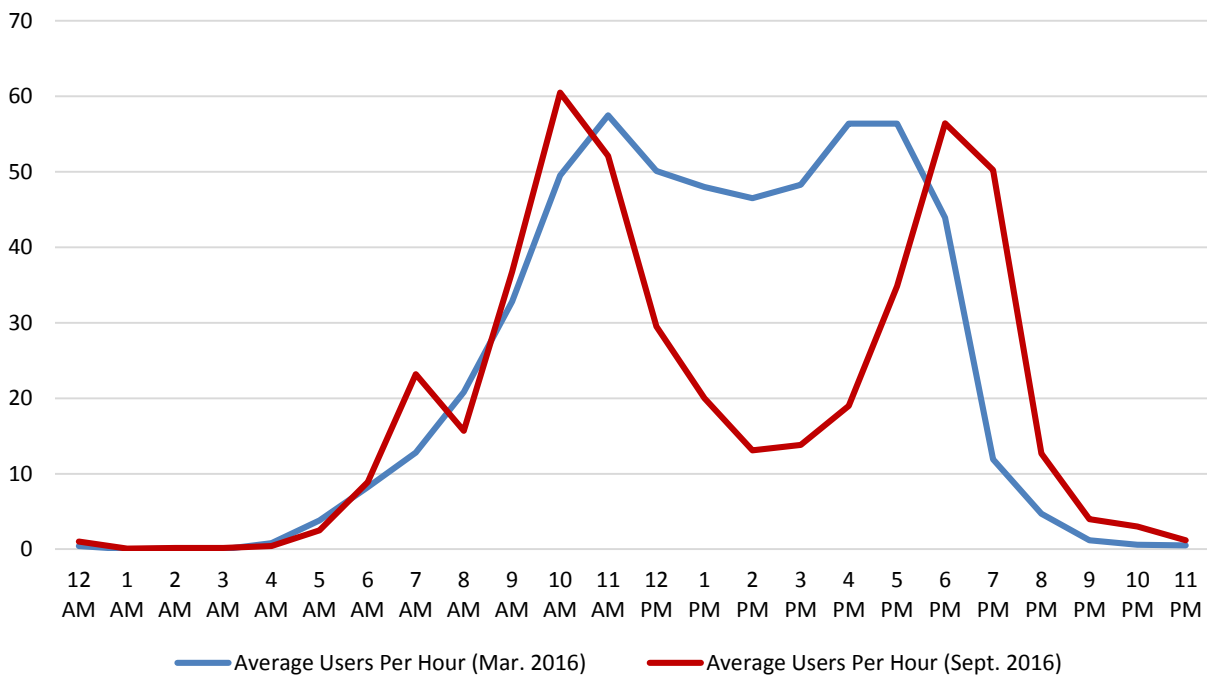
**Historical Comparison**

White Oak Trail at W. T.C. Jester Boulevard Underpass

**Comparison: Daily Usage**



**Comparison: Hourly Usage**



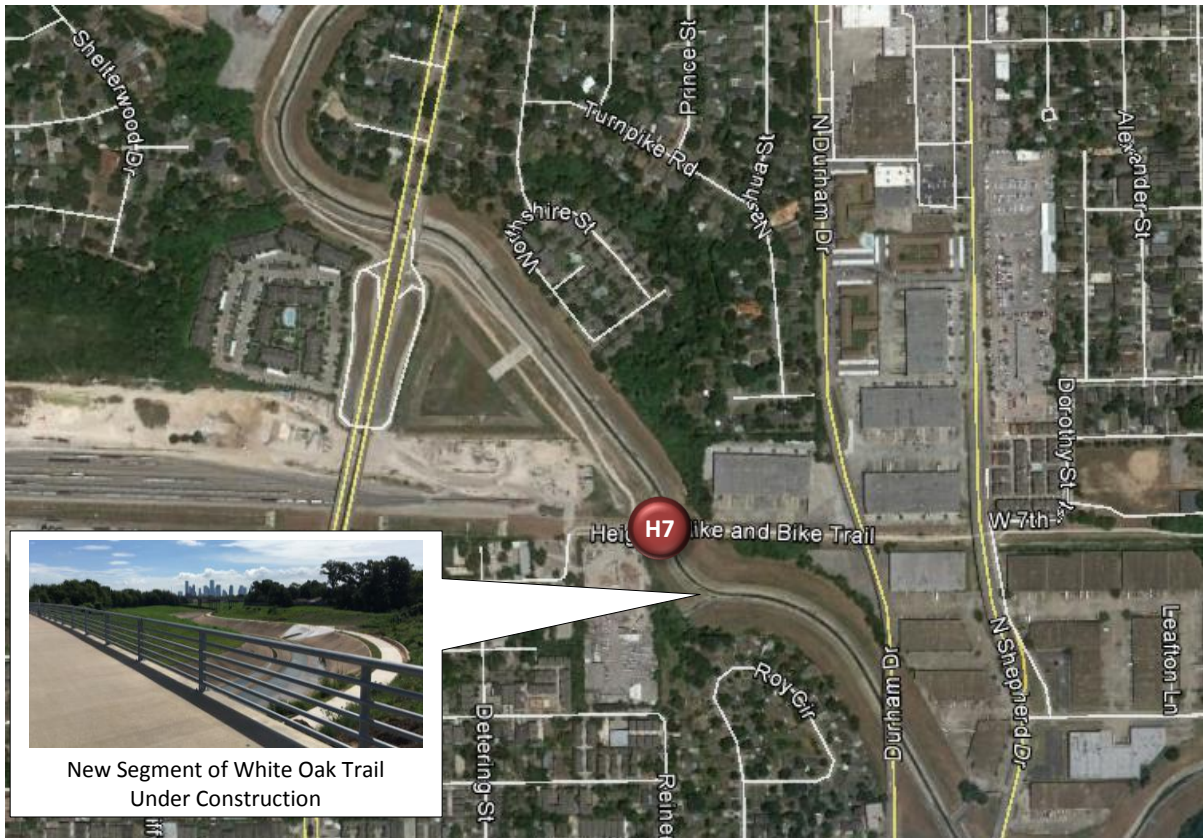
**Counter H7**

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

Location Information		
Location Name	MKT Trail at 7th Street/Moy Street (White Oak Bayou Crossing)	
Location Description	MKT Trail at 7th 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	Yes (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	No (Mostly Open with Newly-Planted Trees)	
Have counts been collected by H-GAC at this location before?	Yes (April 2015, September 2015, and March 2016)	
Notes	Construction was underway to extend the White Oak Trail east, closing an existing gap. Construction crews were working under the bridge that carries the MKT Trail over White Oak Bayou, where Counter H7 was deployed.	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be much higher during weekends (765 users/day) than on weekdays (376 users/day).</li> <li>• On weekdays, usage is highest in the evening (6:00 p.m. – 8:00 p.m.). There is also an increase in usage in the morning (7:00 a.m. – 9:00 a.m.).</li> <li>• During weekends, usage is highest in the morning (8:00 a.m. – 11:00 a.m.).</li> <li>• Average daily usage (505 users/day) was lower than usage in March 2016 (826 users/day), but was higher than usage in April 2016 (266 users/day) and September 2015 (396 users/day).</li> </ul>

**Location Information: Map**



New Segment of White Oak Trail Under Construction

**Location Information: Photos**



Image 13: Bridge over White Oak Bayou Facing East



Image 14: Bridge over White Oak Bayou Facing West



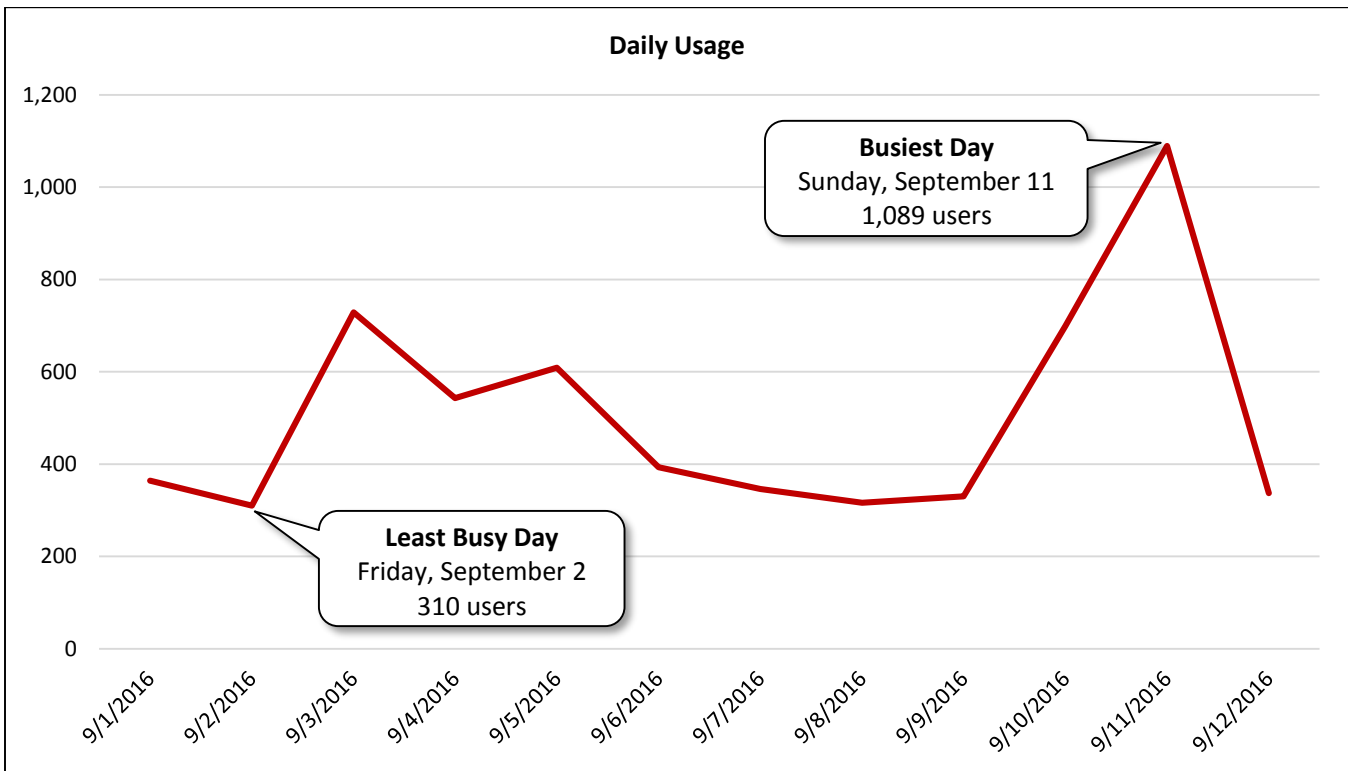
**Daily Usage**  
MKT Trail at 7<sup>th</sup> Street/Moy Street (White Oak Bayou Crossing)

Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	364	97	77	0
Friday, September 2, 2016	310	95	77	0
Saturday, September 3, 2016	729	93	75	0
Sunday, September 4, 2016	543	94	74	0.29
Monday, September 5, 2016	609	90	75	0.02
Tuesday, September 6, 2016	393	93	75	0
Wednesday, September 7, 2016	346	94	74	T
Thursday, September 8, 2016	316	94	76	0
Friday, September 9, 2016	330	91	75	0.04
Saturday, September 10, 2016	699	90	74	T
Sunday, September 11, 2016	1,089	91	72	0
Monday, September 12, 2016	337	92	73	0

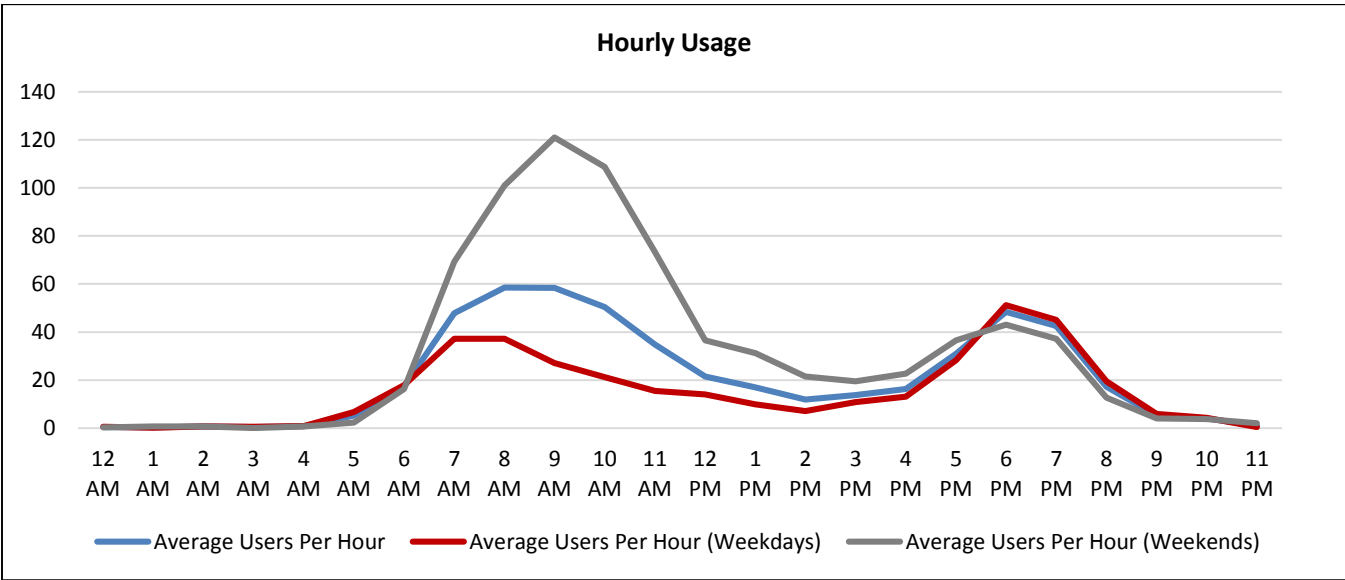
<b>Total</b>	6,065
<b>Average Daily Usage</b>	505
<b>Average Daily Usage (Weekday)</b>	376
<b>Average Daily Usage (Weekend)</b>	765

Notes
Labor Day: Monday, September 5, 2016

\*Weather conditions recorded at KHOU.



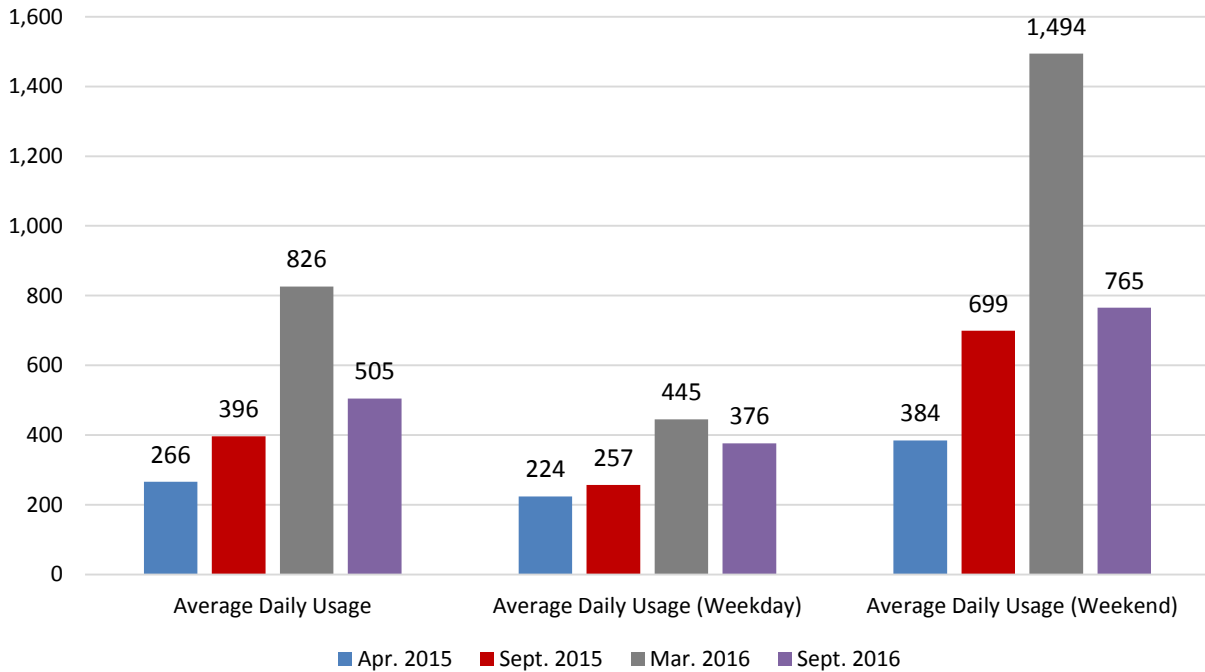
<b>Hourly Usage</b>			
MKT Trail at 7 <sup>th</sup> Street/Moy Street (White Oak Bayou Crossing)			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.5	0.6	0.3
1:00 a.m.	0.3	0.1	0.8
2:00 a.m.	0.8	0.8	0.8
3:00 a.m.	0.4	0.6	0.0
4:00 a.m.	0.8	0.9	0.8
5:00 a.m.	5.3	6.8	2.3
6:00 a.m.	17.3	17.9	16.3
7:00 a.m.	47.9	37.3	69.3
8:00 a.m.	58.5	37.3	101.0
9:00 a.m.	58.4	27.1	121.0
10:00 a.m.	50.4	21.3	108.8
11:00 a.m.	34.8	15.5	73.3
12:00 p.m.	21.5	14.0	36.5
1:00 p.m.	17.0	9.9	31.3
2:00 p.m.	11.9	7.1	21.5
3:00 p.m.	13.8	10.9	19.5
4:00 p.m.	16.3	13.1	22.8
5:00 p.m.	31.0	28.3	36.5
6:00 p.m.	48.4	51.1	43.0
7:00 p.m.	42.5	45.1	37.3
8:00 p.m.	17.3	19.5	12.8
9:00 p.m.	5.3	5.9	4.0
10:00 p.m.	4.1	4.3	3.8
11:00 p.m.	1.0	0.5	2.0



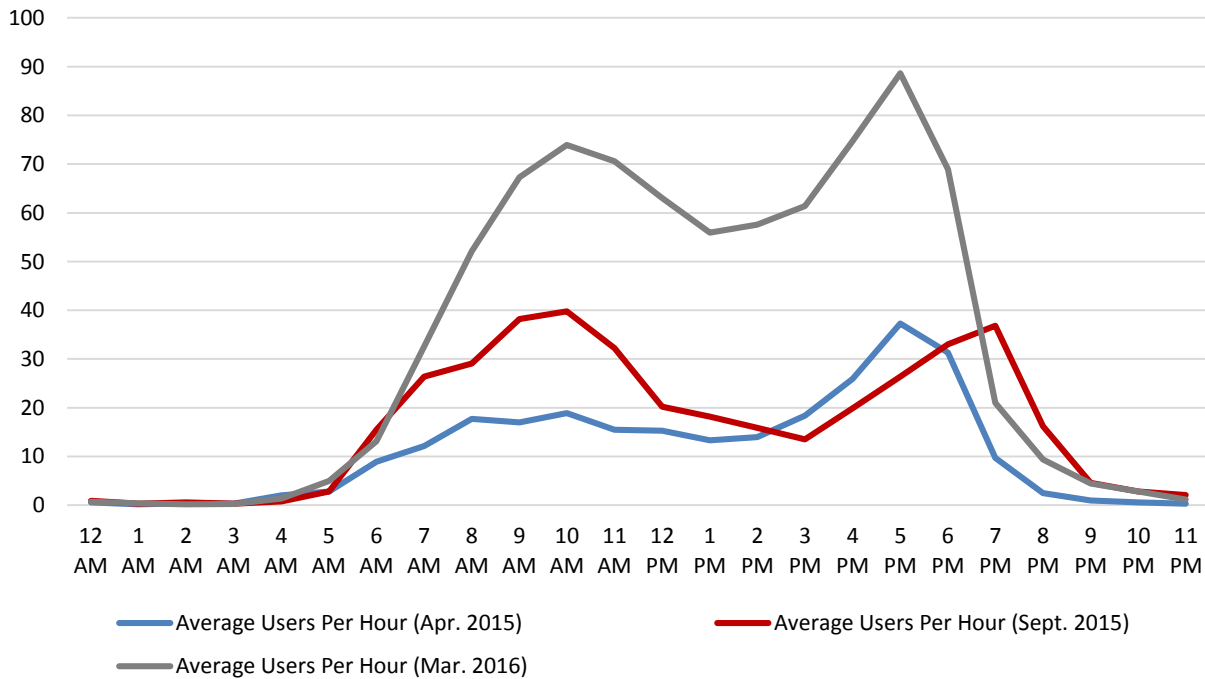
## Historical Comparison

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

### Comparison: Daily Usage



### Comparison: Hourly Usage



**Counter T2**

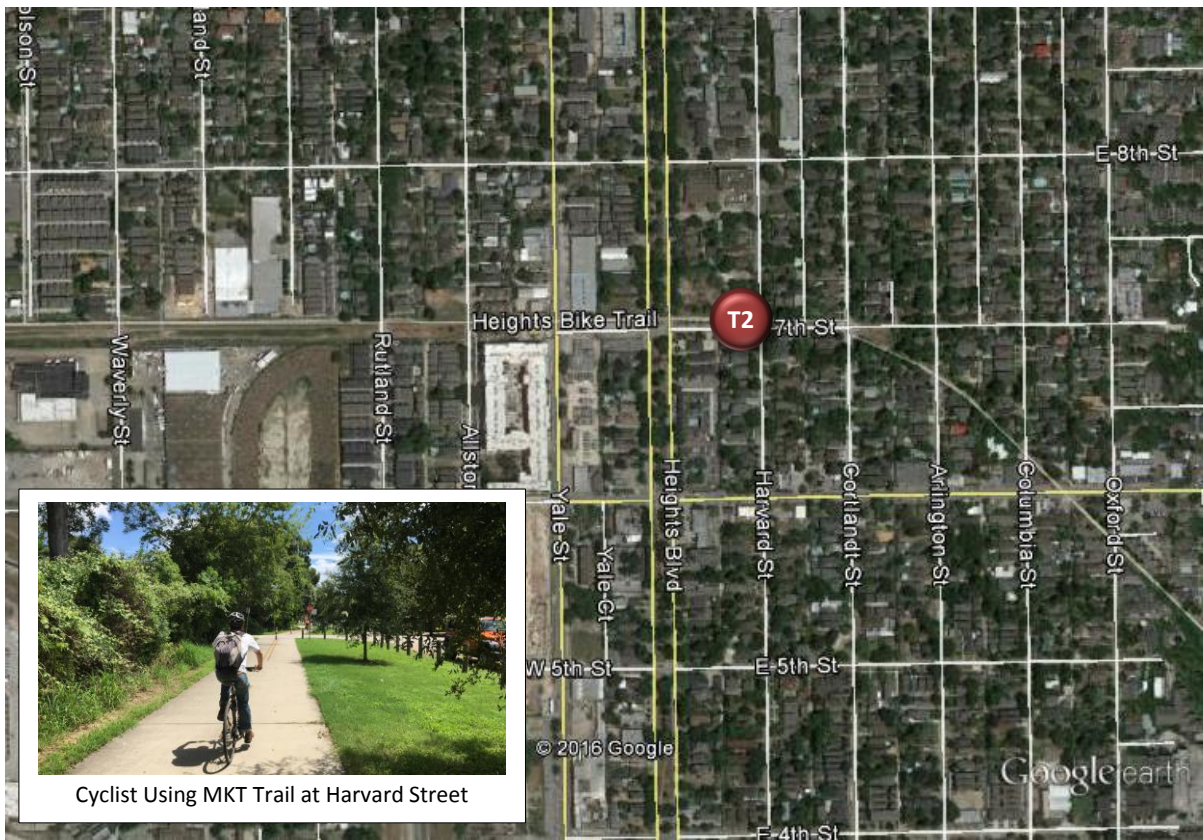
MKT Trail at Harvard Street

Location Information		
Location Name	MKT Trail at Harvard Street	
Location Description	MKT Trail west of Harvard Street (parallel to 7 <sup>th</sup> Street)	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°47'0.36"N, 95°23'47.98"W	
Surrounding Land Uses	North	Single-Family Residential, Multi-Family Residential, Harvard Elementary School
	South	Single-Family Residential, Multi-Family Residential, Commercial/Retail
	East	Single-Family Residential
	West	Park, Office, Single-Family Residential, Multi-Family Residential
What object was device secured to?	Oak Tree (Second Tree West of Harvard Street)	
Sidewalk Width	10'	
Buffer Width	20'	
Street Width	Two-Lane Undivided Roadway	
Parallel Parking	Yes	
Landscaping or Trees	Yes	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	30 miles per hour	
Street Lighting	Yes	
Street Traffic Volume	N/A	
Transit	Nearby (METRO Bus Stop 400' West at Heights Boulevard/W. 7th Street)	
Shade	Intermittent	
Have counts been collected by H-GAC at this location before?	Yes (March 2016)	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be much higher during weekends (651 users/day) than on weekdays (352 users/day).</li> <li>• On weekdays, usage is highest in the morning (6:00 a.m. – 9:00 a.m.) and evening (6:00 p.m. – 8:00 p.m.).</li> <li>• During weekends, usage is highest in the morning (8:00 a.m. – 11:00 a.m.).</li> <li>• Average daily usage (453 users/day) was significantly lower than usage in March 2016 (930 users/day).</li> </ul>



**Location Information: Map**



Cyclist Using MKT Trail at Harvard Street

**Location Information: Photos**



Image 15: MKT Trail at Harvard Street Facing East



Image 16: MKT Trail at Harvard Street Facing West

<b>Daily Usage</b> MKT Trail at Harvard Street				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	281	97	77	0
Friday, September 2, 2016	279	95	77	0
Saturday, September 3, 2016	565	93	75	0
Sunday, September 4, 2016	416	94	74	0.29
Monday, September 5, 2016	594	90	75	0.02
Tuesday, September 6, 2016	308	93	75	0
Wednesday, September 7, 2016	327	94	74	T
Thursday, September 8, 2016	266	94	76	0
Friday, September 9, 2016	358	91	75	0.04
Saturday, September 10, 2016	626	90	74	T
Sunday, September 11, 2016	997	91	72	0
Monday, September 12, 2016	406	92	73	0

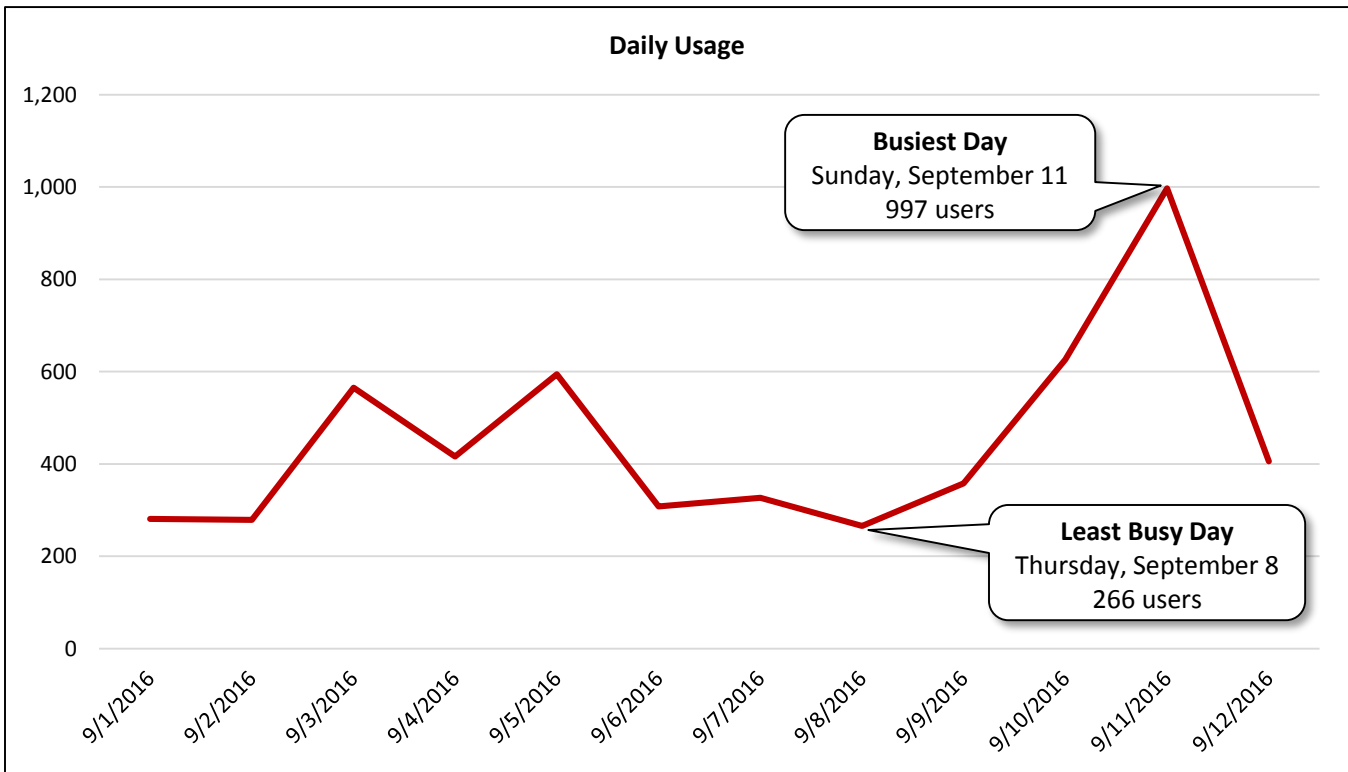
  

<b>Total</b>	5,423
<b>Average Daily Usage</b>	452
<b>Average Daily Usage (Weekday)</b>	352
<b>Average Daily Usage (Weekend)</b>	651

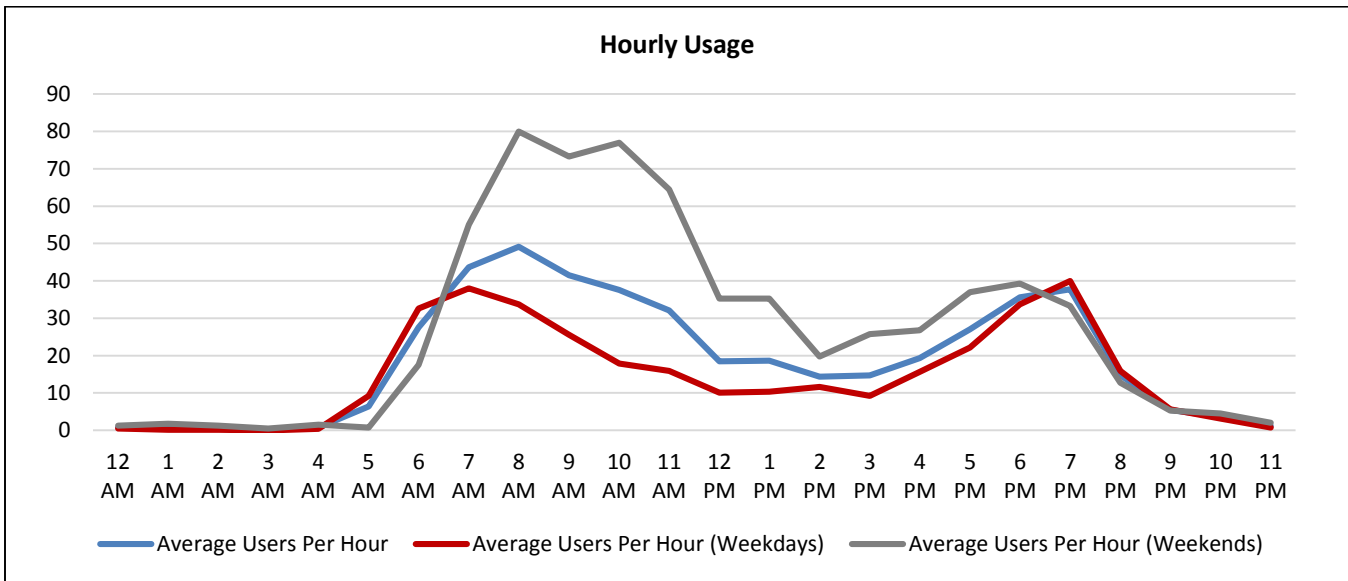
  

Notes
Labor Day: Monday, September 5, 2016

\*Weather conditions recorded at KHOU.

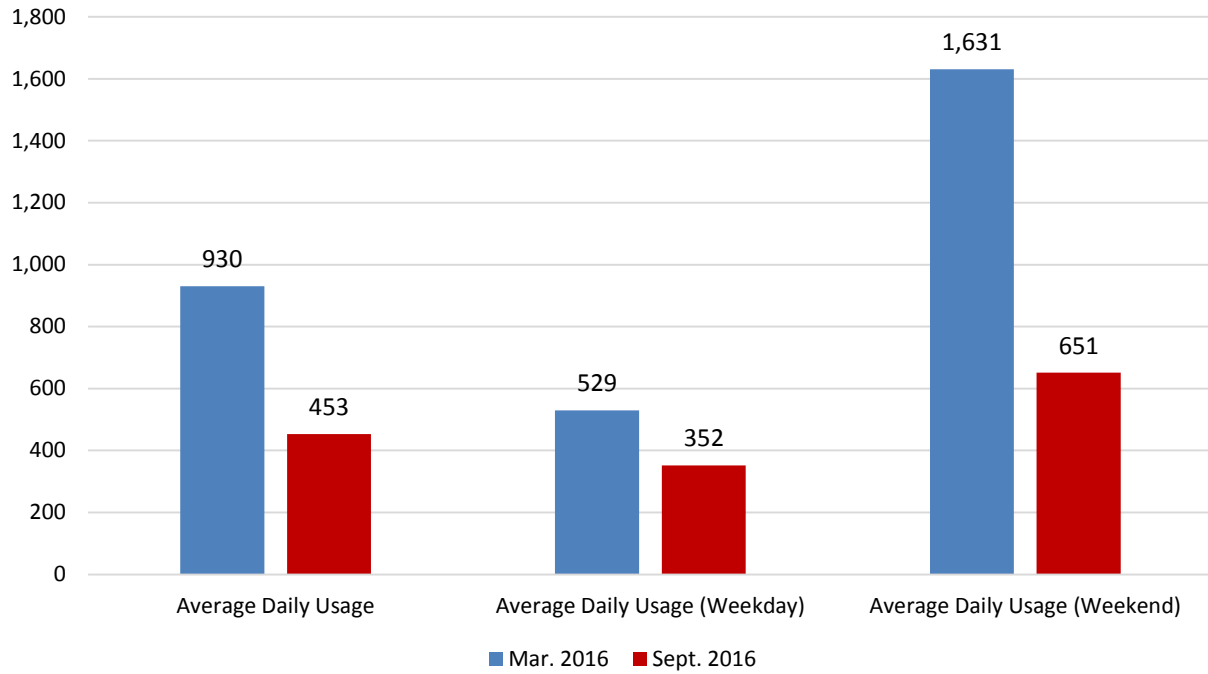


<b>Hourly Usage</b> MKT Trail at Harvard Street			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.8	0.5	1.3
1:00 a.m.	0.7	0.1	1.8
2:00 a.m.	0.5	0.1	1.3
3:00 a.m.	0.2	0.0	0.5
4:00 a.m.	0.8	0.4	1.5
5:00 a.m.	6.4	9.3	0.8
6:00 a.m.	27.6	32.6	17.5
7:00 a.m.	43.7	38.0	55.0
8:00 a.m.	49.2	33.8	80.0
9:00 a.m.	41.5	25.6	73.3
10:00 a.m.	37.6	17.9	77.0
11:00 a.m.	32.1	15.9	64.5
12:00 p.m.	18.5	10.1	35.3
1:00 p.m.	18.7	10.4	35.3
2:00 p.m.	14.3	11.6	19.8
3:00 p.m.	14.8	9.3	25.8
4:00 p.m.	19.3	15.6	26.8
5:00 p.m.	27.1	22.1	37.0
6:00 p.m.	35.6	33.8	39.3
7:00 p.m.	37.8	40.0	33.3
8:00 p.m.	14.8	15.9	12.8
9:00 p.m.	5.5	5.6	5.3
10:00 p.m.	3.6	3.1	4.5
11:00 p.m.	1.2	0.8	2.0

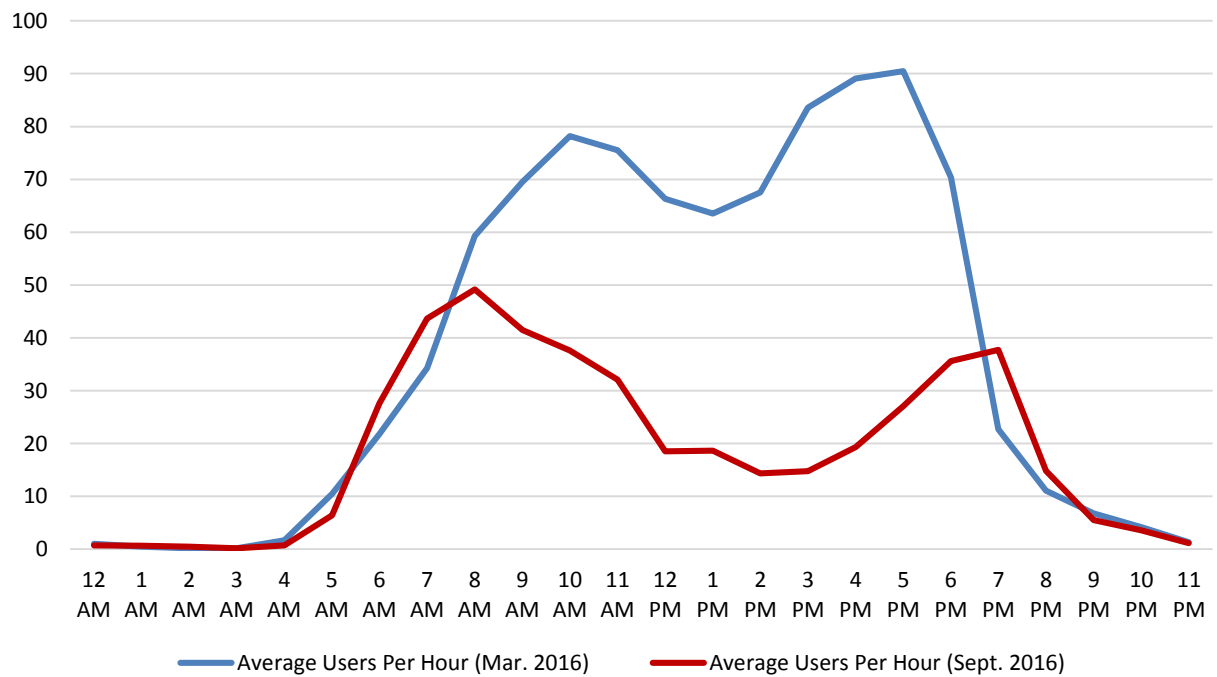


**Historical Comparison**  
MKT Trail at Harvard Street

**Comparison: Daily Usage**



**Comparison: Hourly Usage**





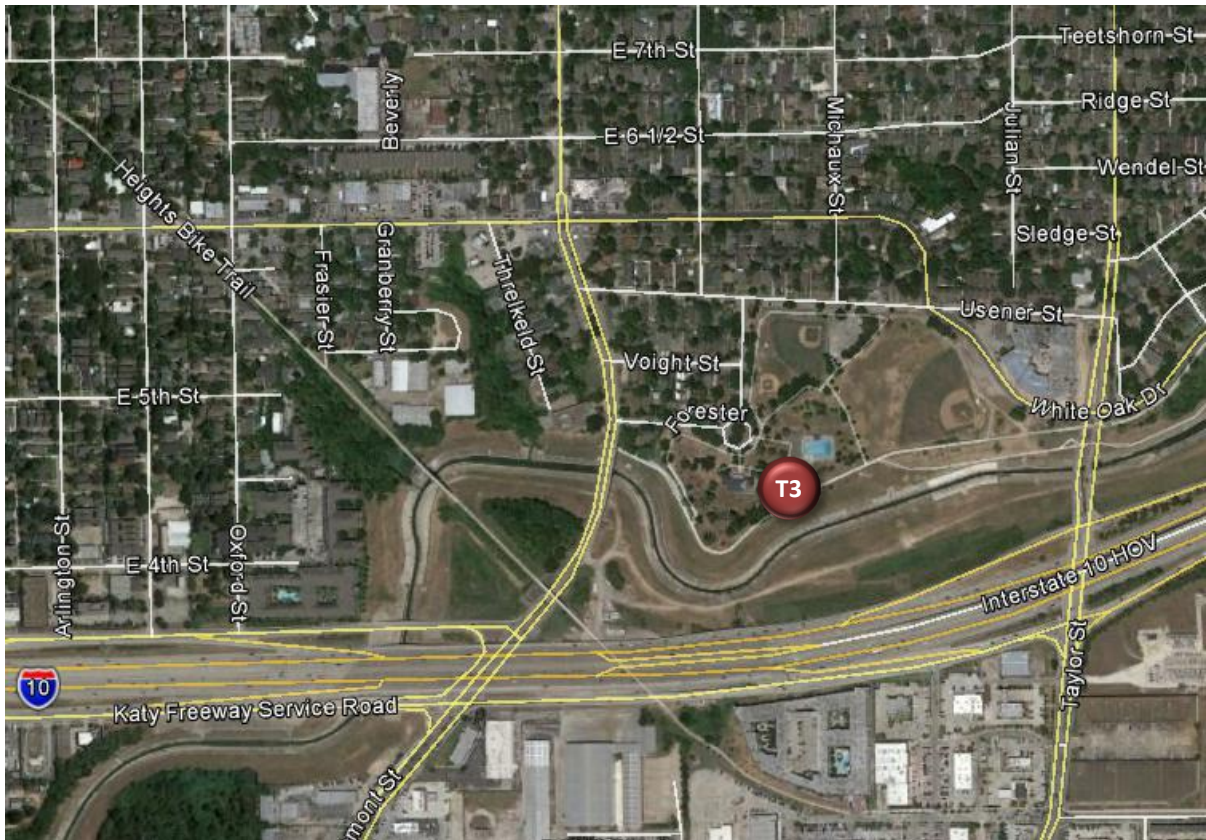
**Counter T3**

White Oak Trail at Stude Community Center

Location Information		
Location Name	White Oak Trail at Stude Community Center	
Location Description	White Oak Trail near Pool at Stude Community Center/Stude Park	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°46'43.40"N, 95°23'4.10"W	
Surrounding Land Uses	North	Park/Community Center, Single-Family Residential
	South	White Oak Bayou, Interstate 10, Multi-Family Residential, Commercial/Retail
	East	Park, Multi-Family Residential
	West	Park, Single-Family Residential
What object was device secured to?	Sign Post (Curves Ahead)	
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	Yes	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	Yes (March 2016)	
Notes	A Houston B-cycle station is located 400' northwest of Counter T3 in front of Stude Community Center.	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be much higher on weekdays (459 users/day) than during weekends (388 users/day).</li> <li>• On weekdays, usage is highest in the evening (6:00 p.m. – 8:00 p.m.).</li> <li>• During weekends, usage is highest in the morning (8:00 a.m. – 10:00 a.m.).</li> <li>• Average daily usage (435 users/day) was comparable to usage in March 2016 (452 users/day).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 17: White Oak Trail at Stude Park Facing East



Image 18: White Oak Trail at Stude Park Facing West

<b>Daily Usage</b> White Oak Trail at Stude Community Center				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	462	97	77	0
Friday, September 2, 2016	334	95	77	0
Saturday, September 3, 2016	414	93	75	0
Sunday, September 4, 2016	257	94	74	0.29
Monday, September 5, 2016	543	90	75	0.02
Tuesday, September 6, 2016	709	93	75	0
Wednesday, September 7, 2016	523	94	74	T
Thursday, September 8, 2016	343	94	76	0
Friday, September 9, 2016	274	91	75	0.04
Saturday, September 10, 2016	339	90	74	T
Sunday, September 11, 2016	543	91	72	0
Monday, September 12, 2016	482	92	73	0

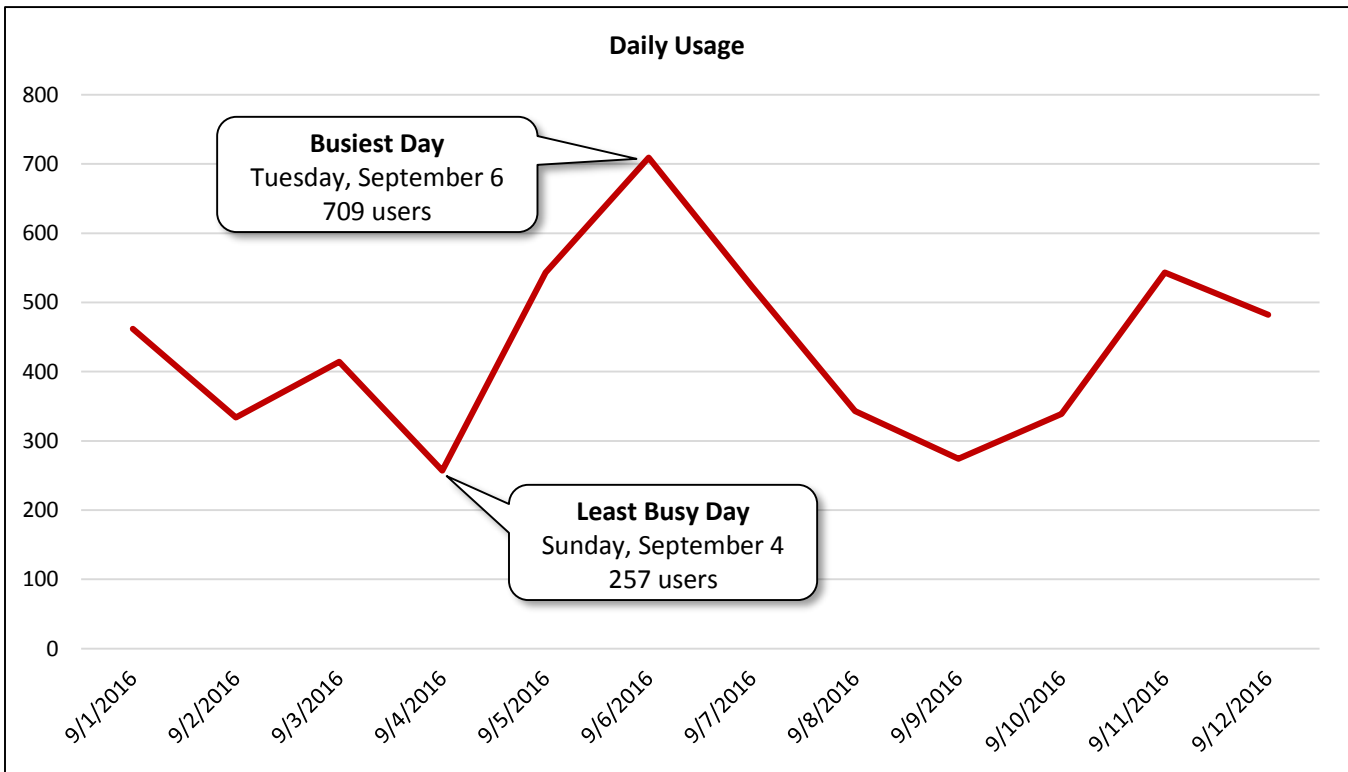
  

<b>Total</b>	5,223
<b>Average Daily Usage</b>	435
<b>Average Daily Usage (Weekday)</b>	459
<b>Average Daily Usage (Weekend)</b>	388

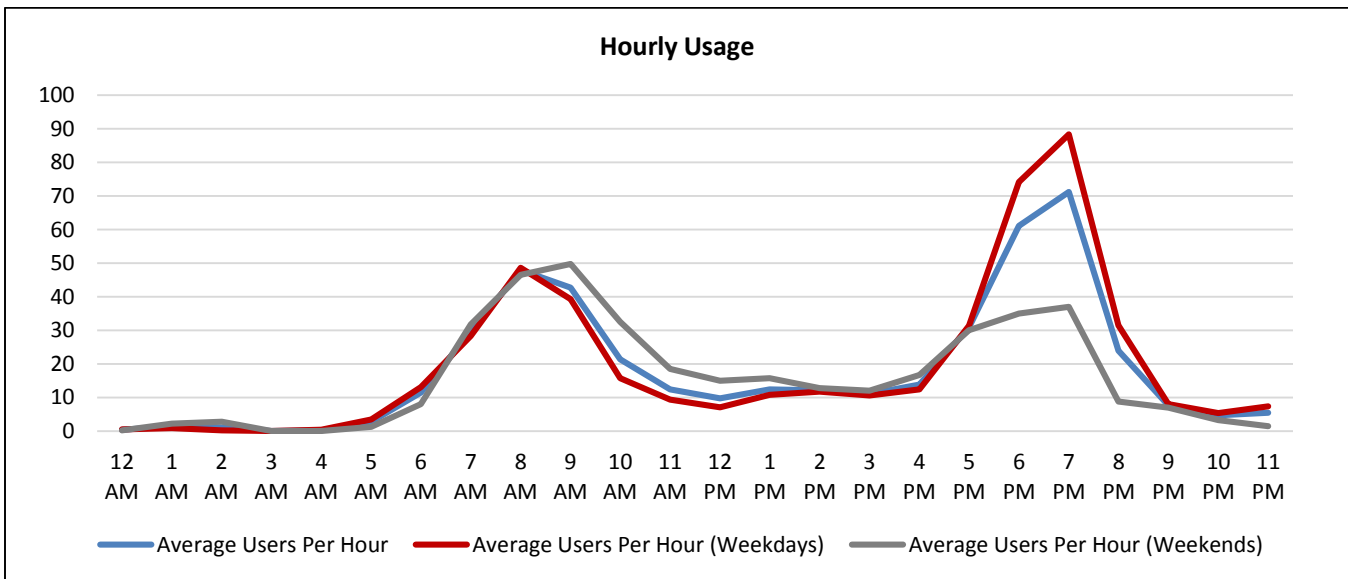
  

Notes
Labor Day: Monday, September 5, 2016

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b> White Oak Trail at Stude Community Center			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.4	0.5	0.3
1:00 a.m.	1.3	0.9	2.3
2:00 a.m.	1.1	0.3	2.8
3:00 a.m.	0.0	0.0	0.0
4:00 a.m.	0.3	0.4	0.0
5:00 a.m.	2.8	3.5	1.3
6:00 a.m.	11.4	13.1	8.0
7:00 a.m.	29.5	28.4	31.8
8:00 a.m.	47.9	48.6	46.5
9:00 a.m.	42.8	39.3	49.8
10:00 a.m.	21.3	15.8	32.5
11:00 a.m.	12.4	9.4	18.5
12:00 p.m.	9.8	7.1	15.0
1:00 p.m.	12.4	10.8	15.8
2:00 p.m.	12.1	11.8	12.8
3:00 p.m.	11.1	10.6	12.0
4:00 p.m.	13.8	12.4	16.8
5:00 p.m.	30.9	31.4	30.0
6:00 p.m.	61.1	74.1	35.0
7:00 p.m.	71.3	88.4	37.0
8:00 p.m.	23.9	31.5	8.8
9:00 p.m.	7.7	8.0	7.0
10:00 p.m.	4.7	5.4	3.3
11:00 p.m.	5.4	7.4	1.5

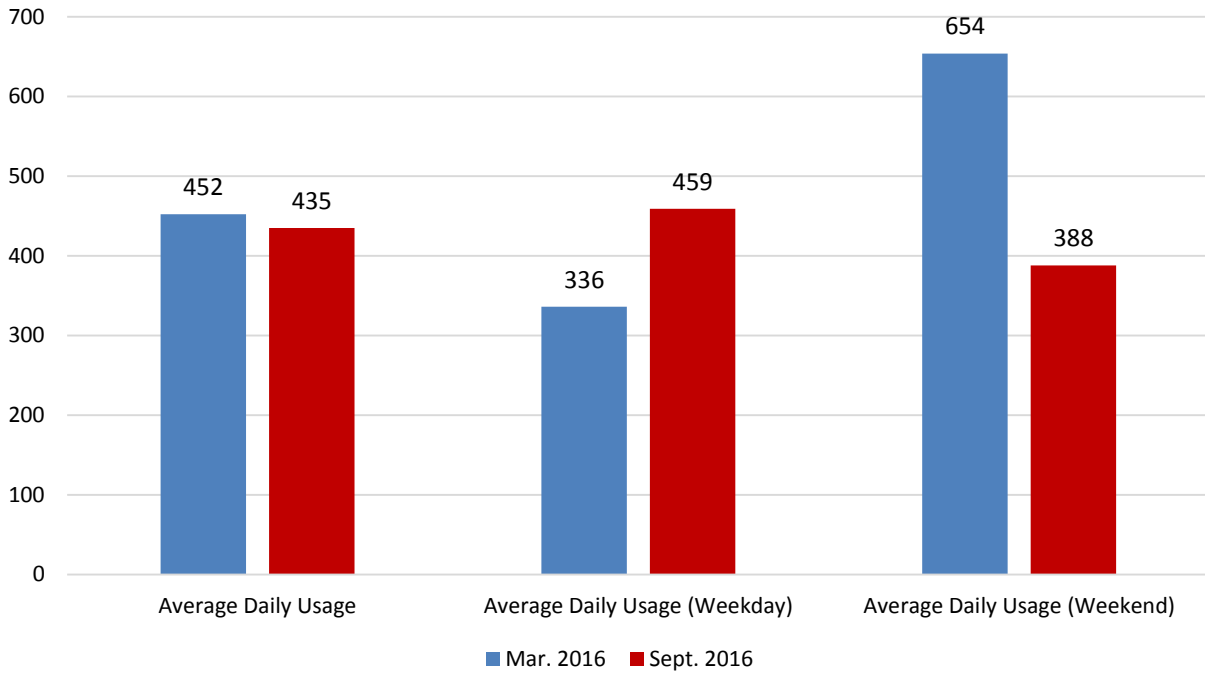




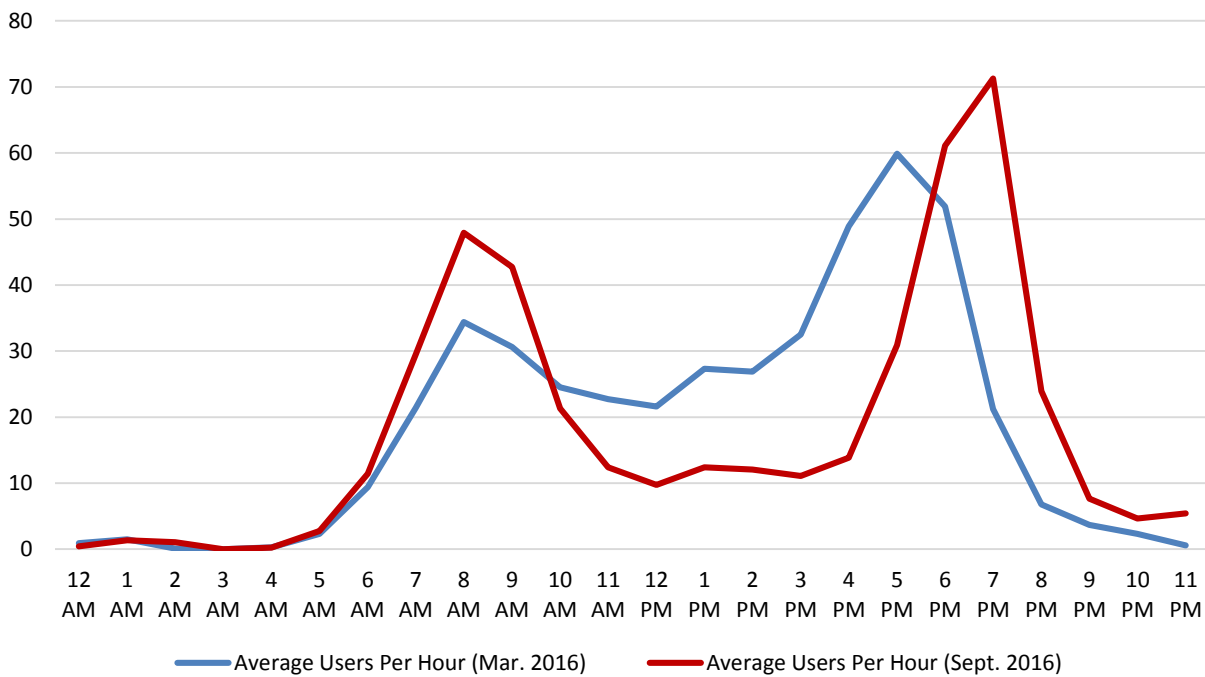
## Historical Comparison

White Oak Trail at Stude Community Center

### Comparison: Daily Usage



### Comparison: Hourly Usage



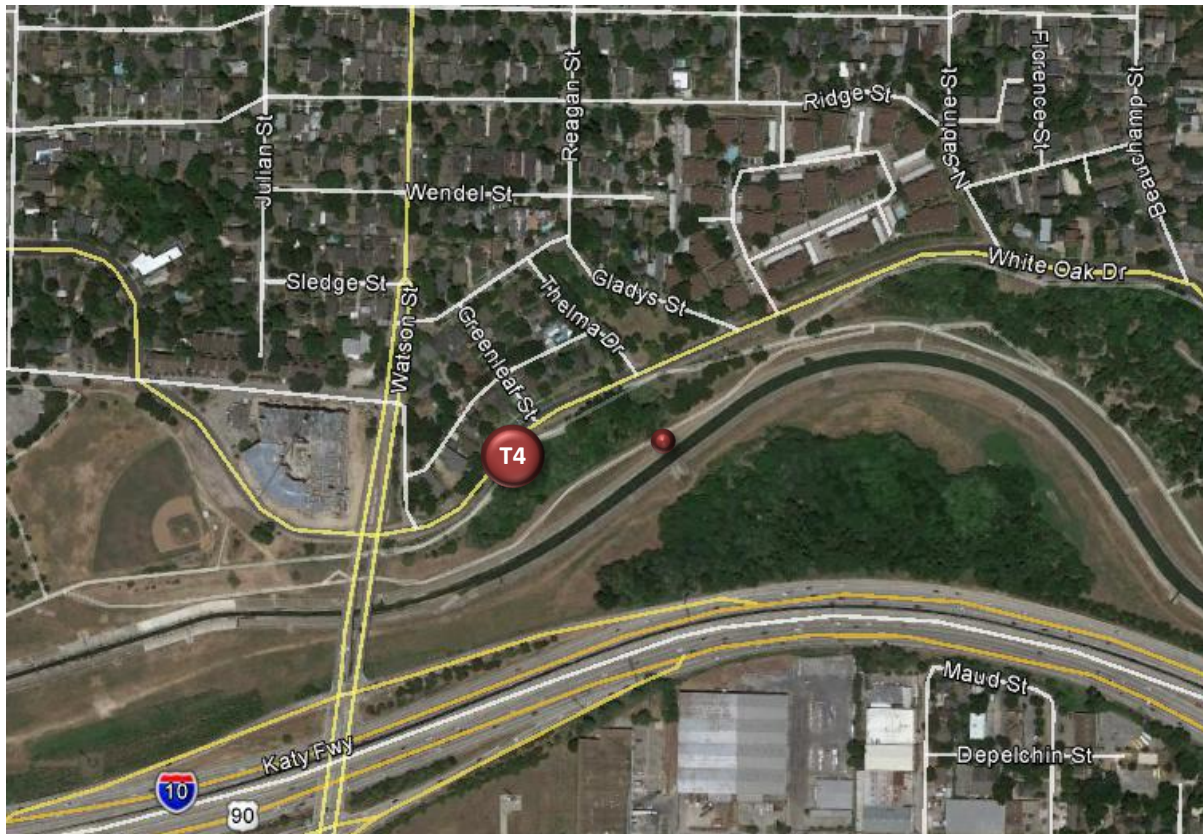
**Counter T4**

White Oak Trail (Main Shared-Use Path) at Greenleaf Street

Location Information		
Location Name	White Oak Trail (Main Shared-Use Path) at Greenleaf Street	
Location Description	White Oak Trail (Main Shared-Use Path) west of Greenleaf Street parallel to White Oak Drive	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°46'48.03"N, 95°22'47.46"W	
Surrounding Land Uses	North	Single-Family Residential
	South	White Oak Bayou, Interstate 10, Industrial
	East	Park, Single-Family Residential, Multi-Family Residential
	West	Single-Family Residential, Multi-Family Residential, Park
What object was device secured to?	Sign Post (Curve Ahead)	
Sidewalk Width	10'	
Buffer Width	15' (Varies)	
Street Width	Two-Lane Undivided Roadway	
Parallel Parking	No	
Landscaping or Trees	Yes	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	30 miles per hour	
Street Lighting	Adjacent street has lighting, but shared-use path does not.	
Street Traffic Volume	4,216 (2100 White Oak Drive: City of Houston – 2012)	
Transit	Nearby (METRO Bus Stop 600' Northwest at Usener Street/Watson Street)	
Shade	No	
Have counts been collected by H-GAC at this location before?	Yes (March 2016)	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be higher during weekends (286 users/day) than on weekdays (213 users/day).</li> <li>• On weekdays, usage is highest in the morning (8:00 a.m. – 9:00 a.m.). There is also a pronounced increase in usage in the evening (7:00 p.m. – 8:00 p.m.).</li> <li>• During weekends, usage is highest in the morning (8:00 a.m. – 10:00 a.m.).</li> <li>• Average daily usage (237 users/day) was slightly lower than usage in March 2016 (271 users/day); however, average daily usage on weekdays was higher in September 2016 (213 users/day) than March 2016 (181 users/day).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 19: White Oak Trail at Greenleaf Street Facing East



Image 20: White Oak Trail at Greenleaf Street Facing West

<b>Daily Usage</b>				
White Oak Trail (Main Shared-Use Path) at Greenleaf Street				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	213	97	77	0
Friday, September 2, 2016	192	95	77	0
Saturday, September 3, 2016	279	93	75	0
Sunday, September 4, 2016	224	94	74	0.29
Monday, September 5, 2016	310	90	75	0.02
Tuesday, September 6, 2016	207	93	75	0
Wednesday, September 7, 2016	183	94	74	T
Thursday, September 8, 2016	140	94	76	0
Friday, September 9, 2016	163	91	75	0.04
Saturday, September 10, 2016	282	90	74	T
Sunday, September 11, 2016	360	91	72	0
Monday, September 12, 2016	295	92	73	0

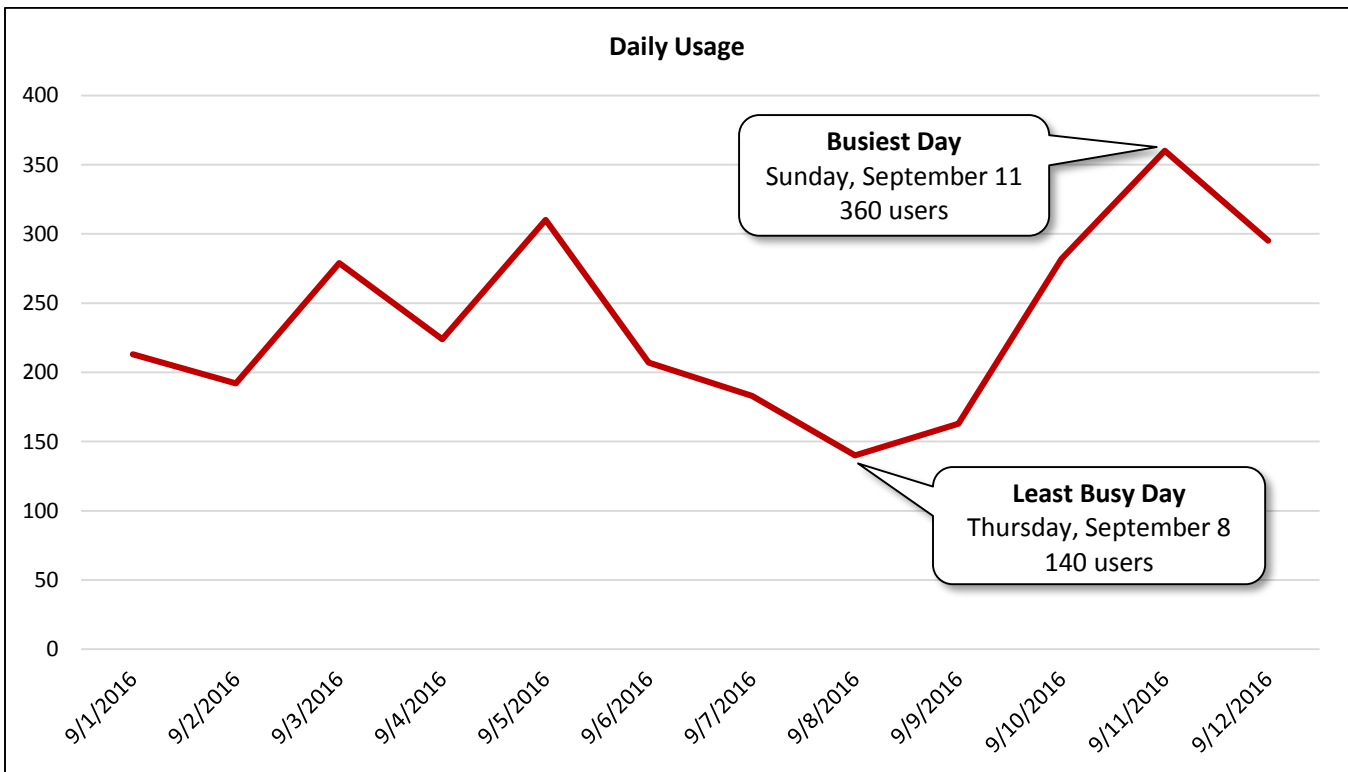
  

<b>Total</b>	2,848
<b>Average Daily Usage</b>	237
<b>Average Daily Usage (Weekday)</b>	213
<b>Average Daily Usage (Weekend)</b>	286

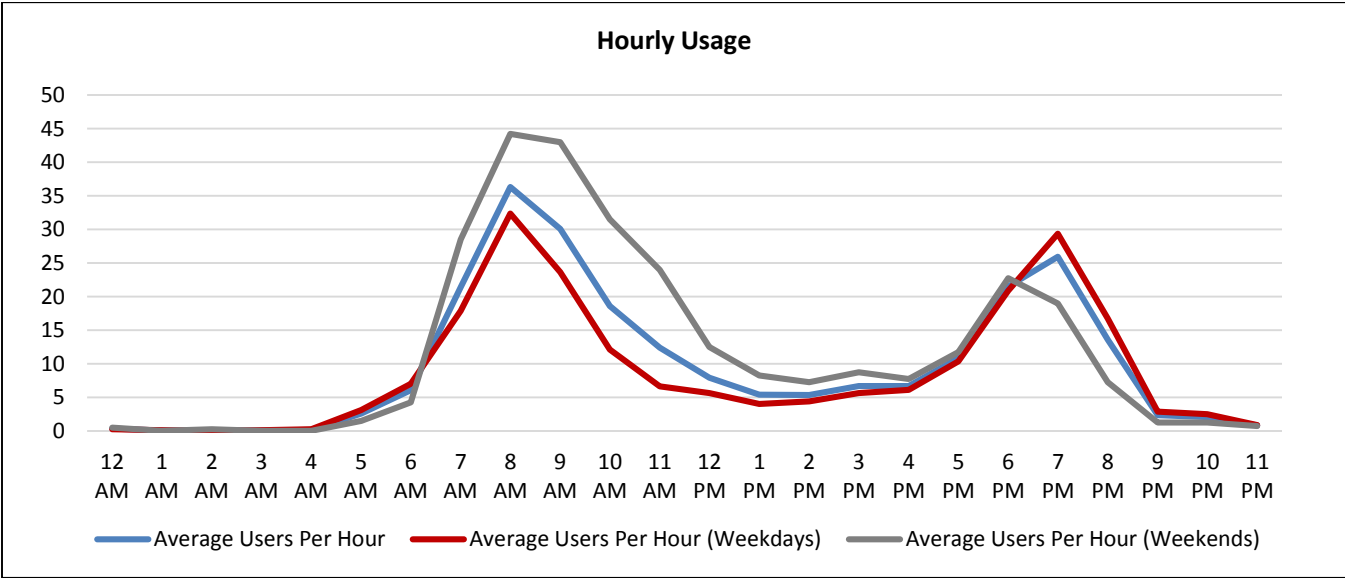
Notes
Labor Day: Monday, September 5, 2016

\*Weather conditions recorded at KHOU.





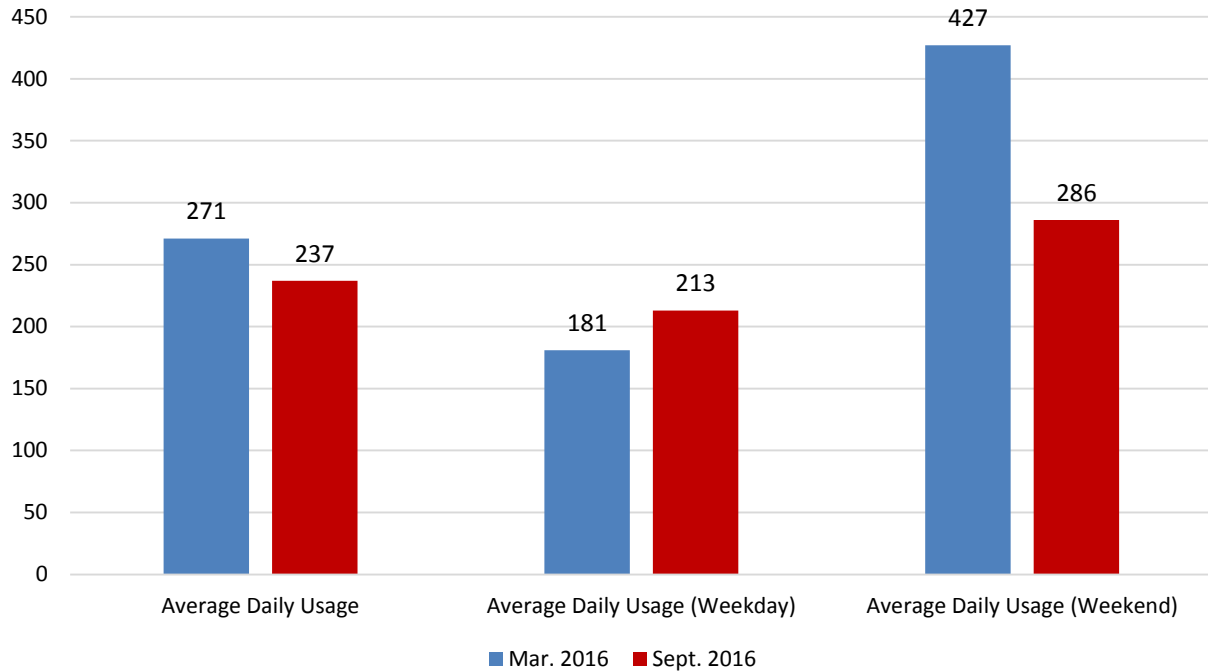
<b>Hourly Usage</b>			
White Oak Trail (Main Shared-Use Path) at Greenleaf Street			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.3	0.3	0.5
1:00 a.m.	0.1	0.1	0.0
2:00 a.m.	0.1	0.0	0.3
3:00 a.m.	0.1	0.1	0.0
4:00 a.m.	0.2	0.3	0.0
5:00 a.m.	2.6	3.1	1.5
6:00 a.m.	6.1	7.0	4.3
7:00 a.m.	21.4	17.9	28.5
8:00 a.m.	36.3	32.4	44.3
9:00 a.m.	30.1	23.6	43.0
10:00 a.m.	18.6	12.1	31.5
11:00 a.m.	12.4	6.6	24.0
12:00 p.m.	7.9	5.6	12.5
1:00 p.m.	5.4	4.0	8.3
2:00 p.m.	5.3	4.4	7.3
3:00 p.m.	6.7	5.6	8.8
4:00 p.m.	6.7	6.1	7.8
5:00 p.m.	10.8	10.4	11.8
6:00 p.m.	21.5	20.9	22.8
7:00 p.m.	25.9	29.4	19.0
8:00 p.m.	13.6	16.8	7.3
9:00 p.m.	2.3	2.9	1.3
10:00 p.m.	2.1	2.5	1.3
11:00 p.m.	0.8	0.9	0.8



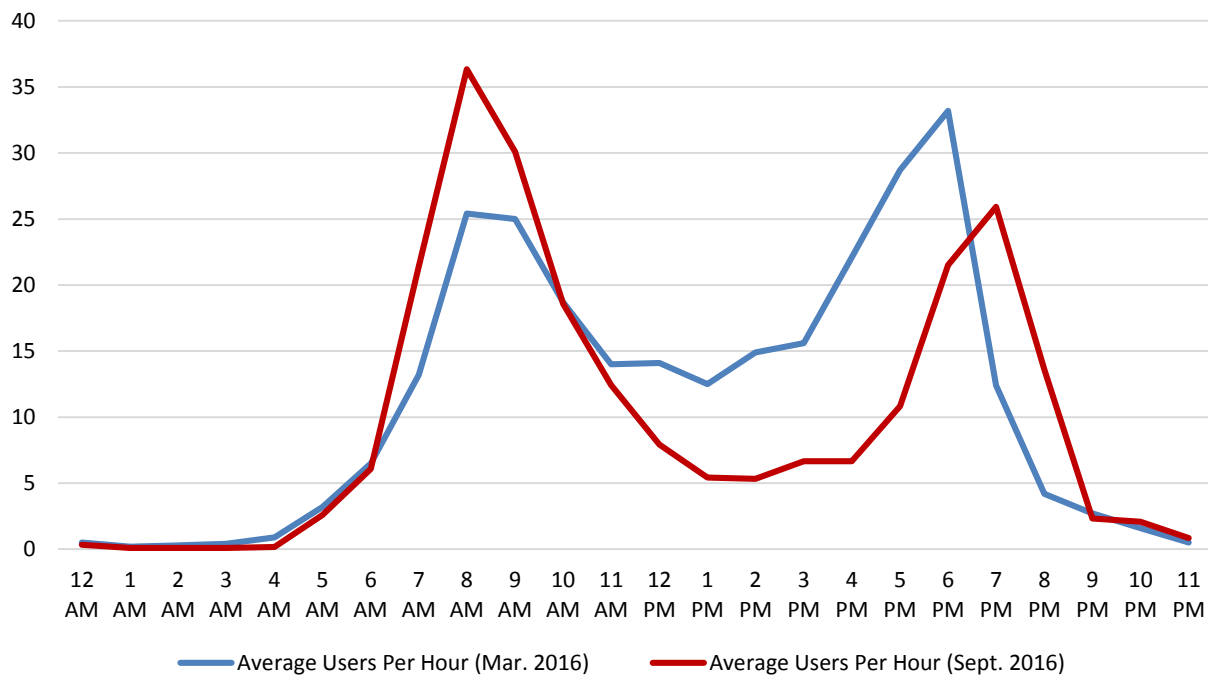
## Historical Comparison

White Oak Trail (Main Shared-Use Path) at Greenleaf Street

### Comparison: Daily Usage



### Comparison: Hourly Usage



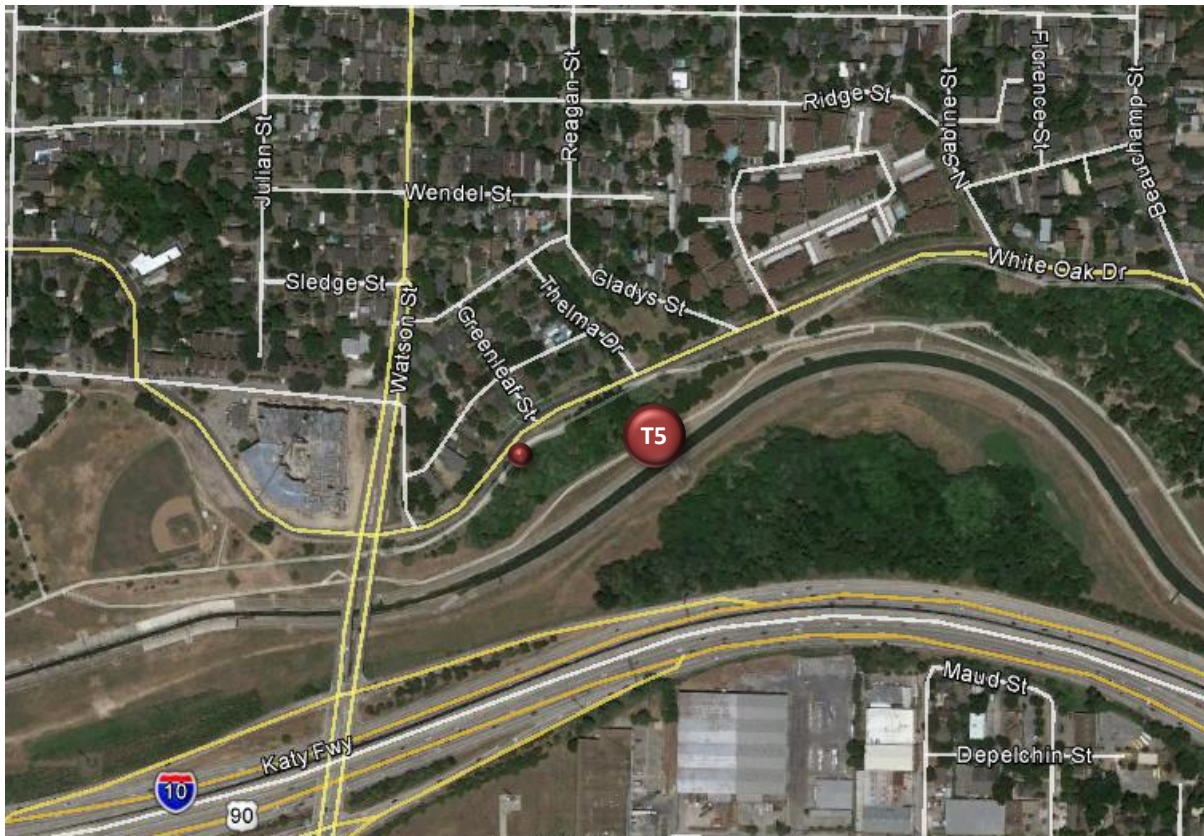
**Counter T5**

White Oak Trail (Lower Shared-Use Path) at Greenleaf Street

Location Information		
Location Name	White Oak Trail (Lower Shared-Use Path) at Greenleaf Street	
Location Description	Shared-use path immediately adjacent to White Oak Bayou, south of the main White Oak Trail	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°46'49.31"N, 95°22'42.28"W	
Surrounding Land Uses	North	Single-Family Residential
	South	White Oak Bayou, Interstate 10, Industrial
	East	Park, Single-Family Residential, Multi-Family Residential
	West	Single-Family Residential, Multi-Family Residential, Park
What object was device secured to?	Bridge Railing (Wooden Bridge over White Oak Bayou Tributary)	
Sidewalk Width	4'	
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	Yes	
Sidewalk Pavement Type	Asphalt	
ADA Ramps	No	
Sidewalk Condition	Poor (Significant Cracking and Debris)	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	Yes (March 2016)	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be higher on weekdays (129 users/day) than during weekends (113 users/day).</li> <li>• On weekdays, usage is highest in the evening (7:00 p.m. – 8:00 p.m.).</li> <li>• During weekends, usage is highest in the morning (7:00 a.m. – 11:00 a.m.).</li> <li>• Average daily usage (124 users/day) was lower than usage in March 2016 (224 users/day).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 21: White Oak Trail (Lower Shared-Use Path) at Greenleaf Street Facing East



Image 22: White Oak Trail (Lower Shared-Use Path) at Greenleaf Street Facing West



<b>Daily Usage</b>				
White Oak Trail (Lower Shared-Use Path) at Greenleaf Street				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	143	97	77	0
Friday, September 2, 2016	100	95	77	0
Saturday, September 3, 2016	156	93	75	0
Sunday, September 4, 2016	98	94	74	0.29
Monday, September 5, 2016	143	90	75	0.02
Tuesday, September 6, 2016	173	93	75	0
Wednesday, September 7, 2016	171	94	74	T
Thursday, September 8, 2016	95	94	76	0
Friday, September 9, 2016	82	91	75	0.04
Saturday, September 10, 2016	77	90	74	T
Sunday, September 11, 2016	121	91	72	0
Monday, September 12, 2016	123	92	73	0

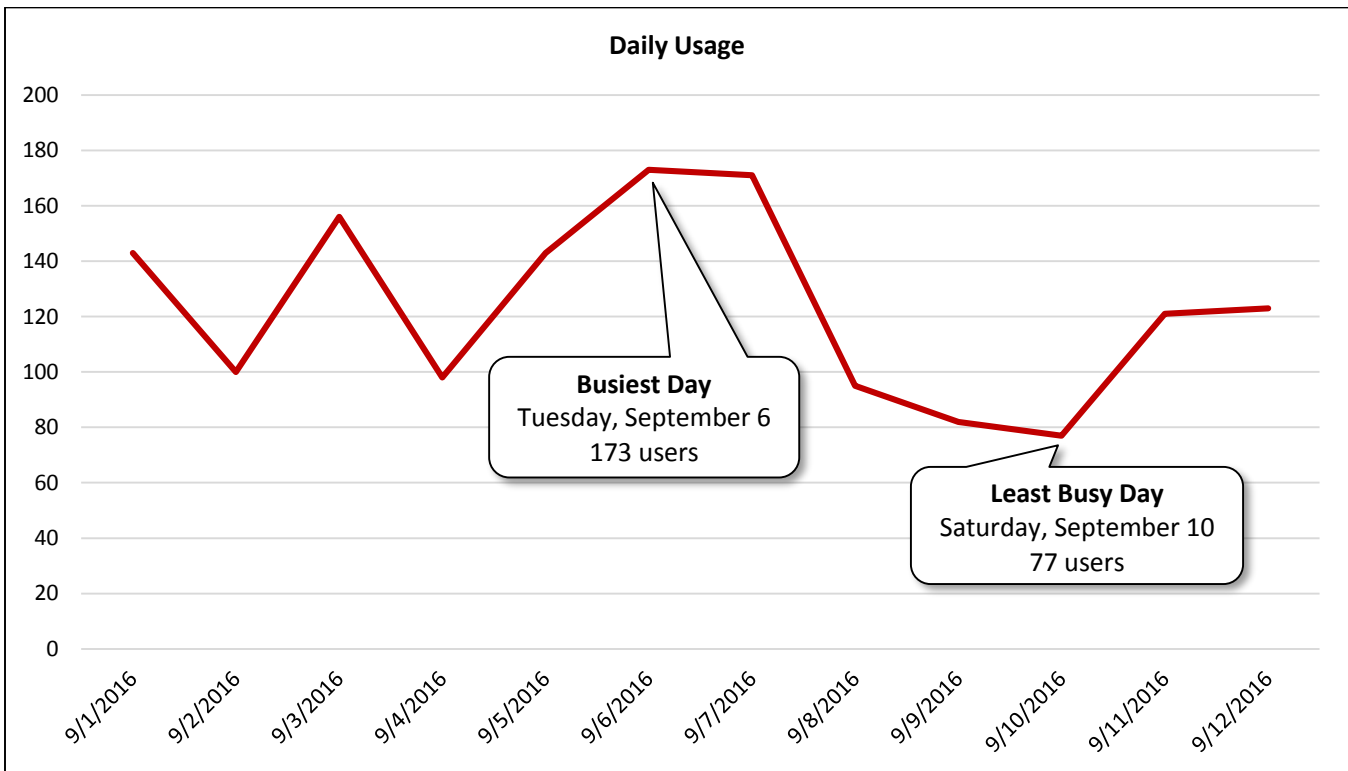
  

<b>Total</b>	1,482
<b>Average Daily Usage</b>	124
<b>Average Daily Usage (Weekday)</b>	129
<b>Average Daily Usage (Weekend)</b>	113

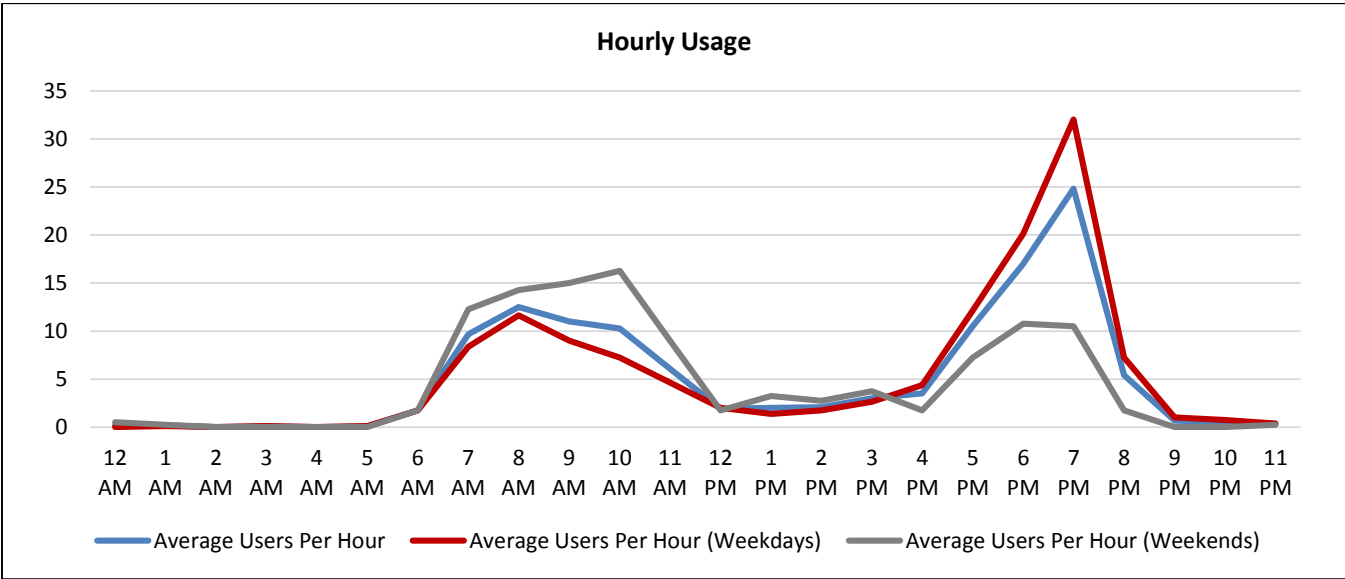
  

Notes
Labor Day: Monday, September 5, 2016

\*Weather conditions recorded at KHOU.



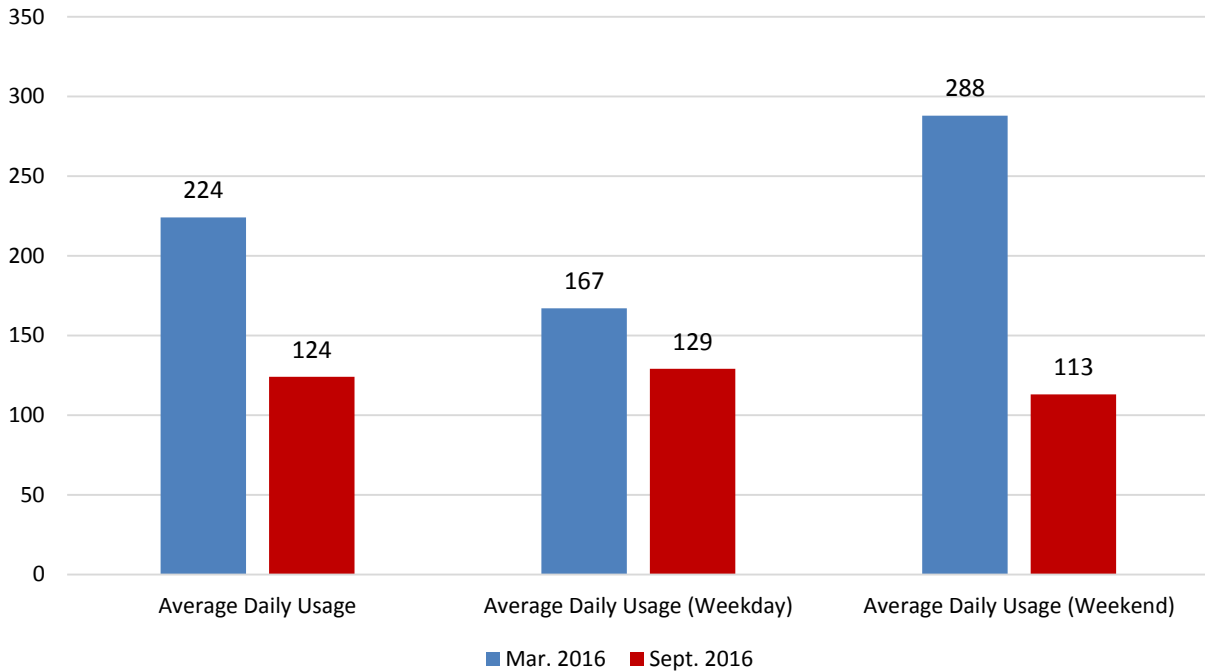
<b>Hourly Usage</b>			
White Oak Trail (Lower Shared-Use Path) at Greenleaf Street			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.2	0.0	0.5
1:00 a.m.	0.2	0.1	0.3
2:00 a.m.	0.0	0.0	0.0
3:00 a.m.	0.1	0.1	0.0
4:00 a.m.	0.0	0.0	0.0
5:00 a.m.	0.1	0.1	0.0
6:00 a.m.	1.8	1.8	1.8
7:00 a.m.	9.7	8.4	12.3
8:00 a.m.	12.5	11.6	14.3
9:00 a.m.	11.0	9.0	15.0
10:00 a.m.	10.3	7.3	16.3
11:00 a.m.	6.1	4.6	9.0
12:00 p.m.	1.9	2.0	1.8
1:00 p.m.	2.0	1.4	3.3
2:00 p.m.	2.1	1.8	2.8
3:00 p.m.	3.0	2.6	3.8
4:00 p.m.	3.5	4.4	1.8
5:00 p.m.	10.5	12.1	7.3
6:00 p.m.	17.0	20.1	10.8
7:00 p.m.	24.8	32.0	10.5
8:00 p.m.	5.4	7.3	1.8
9:00 p.m.	0.7	1.0	0.0
10:00 p.m.	0.5	0.8	0.0
11:00 p.m.	0.3	0.4	0.3



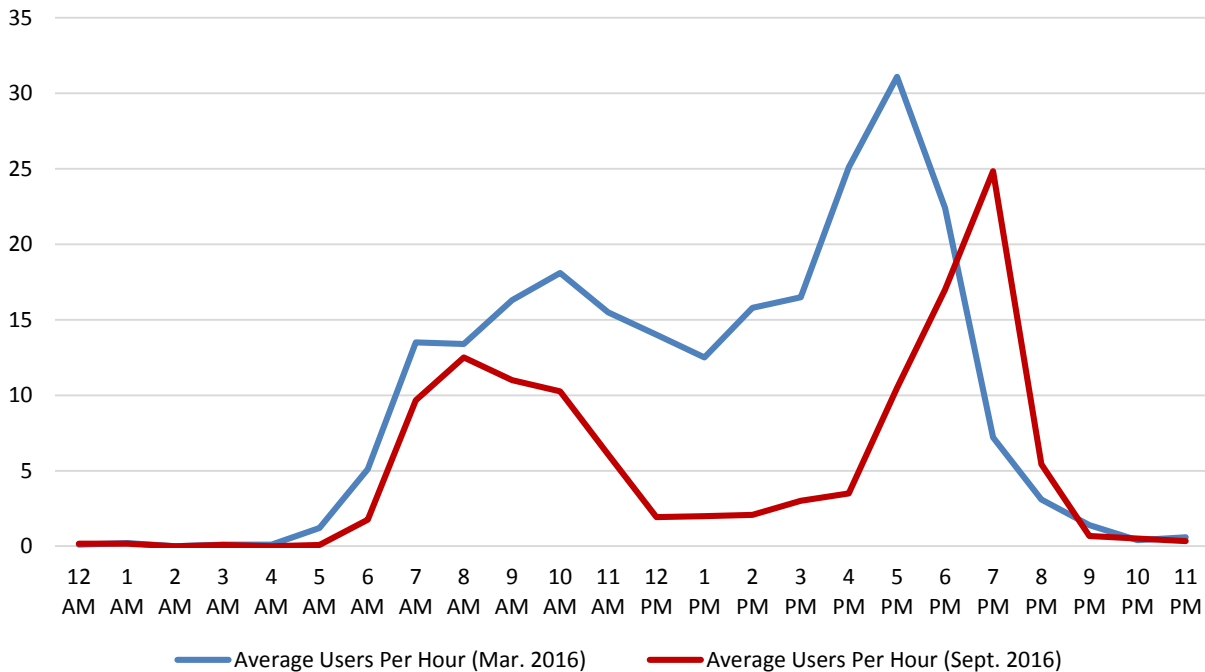
## Historical Comparison

White Oak Trail (Lower Shared-Use Path) at Greenleaf Street

### Comparison: Daily Usage



### Comparison: Hourly Usage



**Counter T7**

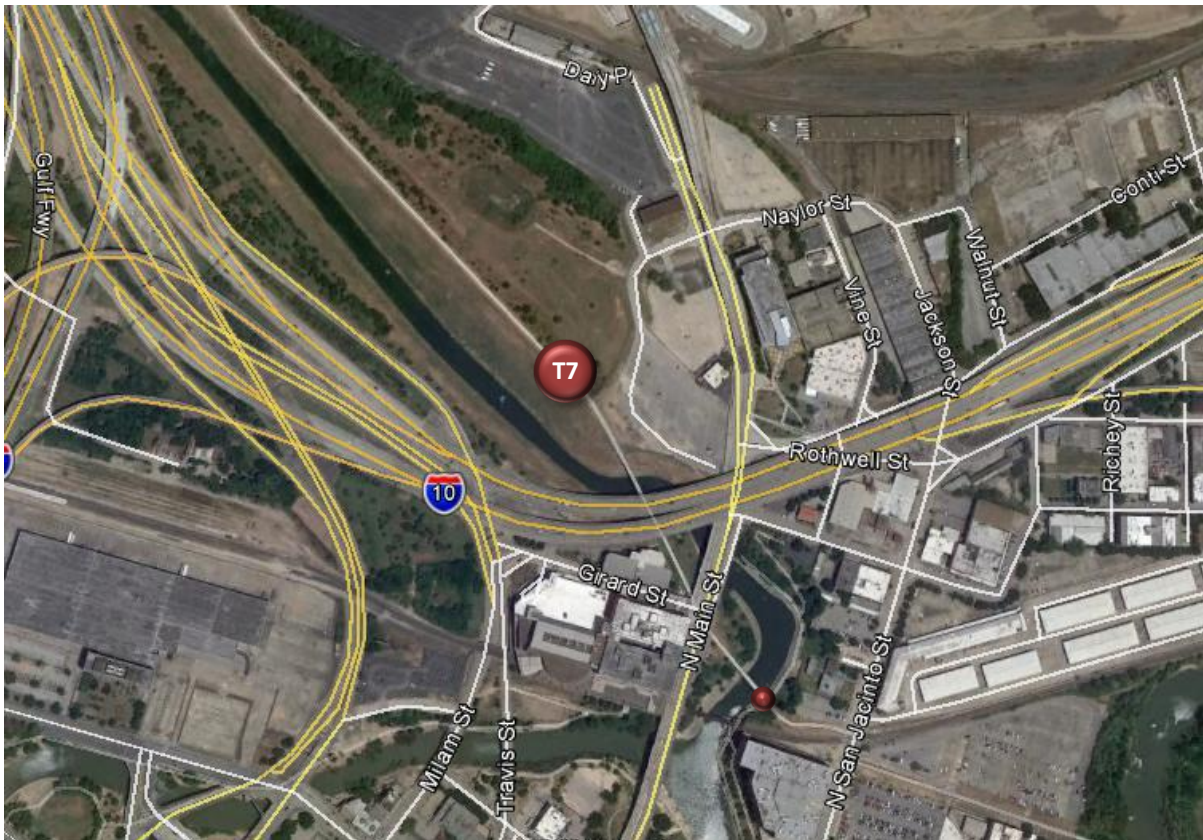
White Oak Trail at University of Houston – Downtown

Location Information		
Location Name	White Oak Trail at University of Houston – Downtown	
Location Description	White Oak Trail northwest of University of Houston – Downtown	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°46'7.17"N, 95°21'37.25"W	
Surrounding Land Uses	North	Vacant, Parking Lots for University of Houston – Downtown
	South	Interstate 10, University of Houston – Downtown
	East	Parking Lots for University of Houston – Downtown
	West	White Oak Bayou, Interstate 10
What object was device secured to?	Post (Water Quality Monitoring Equipment)	
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	Yes	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Nearby (METRO Bus Stop 650' Northwest at Main Street/Naylor Street)	
Shade	No	
Have counts been collected by H-GAC at this location before?	Yes (March 2016)	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be much higher during weekends (570 users/day) than on weekdays (276 users/day).</li> <li>• On weekdays, usage is highest in the evening (6:00 p.m. – 7:00 p.m.).</li> <li>• During weekends, usage is highest in the late morning (10:00 a.m. – 11:00 a.m.).</li> <li>• Average daily usage (376 users/day) was significantly lower than usage in March 2016 (633 users/day).</li> </ul>



**Location Information: Map**



**Location Information: Photos**



Image 23: White Oak Trail at University of Houston – Downtown Facing East



Image 24: White Oak Trail at University of Houston – Downtown Facing West

<b>Daily Usage</b>				
White Oak Trail at University of Houston – Downtown				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	282	97	77	0
Friday, September 2, 2016	314	95	77	0
Saturday, September 3, 2016	633	93	75	0
Sunday, September 4, 2016	621	94	74	0.29
Monday, September 5, 2016	281	90	75	0.02
Tuesday, September 6, 2016	288	93	75	0
Wednesday, September 7, 2016	265	94	74	T
Thursday, September 8, 2016	278	94	76	0
Friday, September 9, 2016	196	91	75	0.04
Saturday, September 10, 2016	276	90	74	T
Sunday, September 11, 2016	751	91	72	0
Monday, September 12, 2016	303	92	73	0

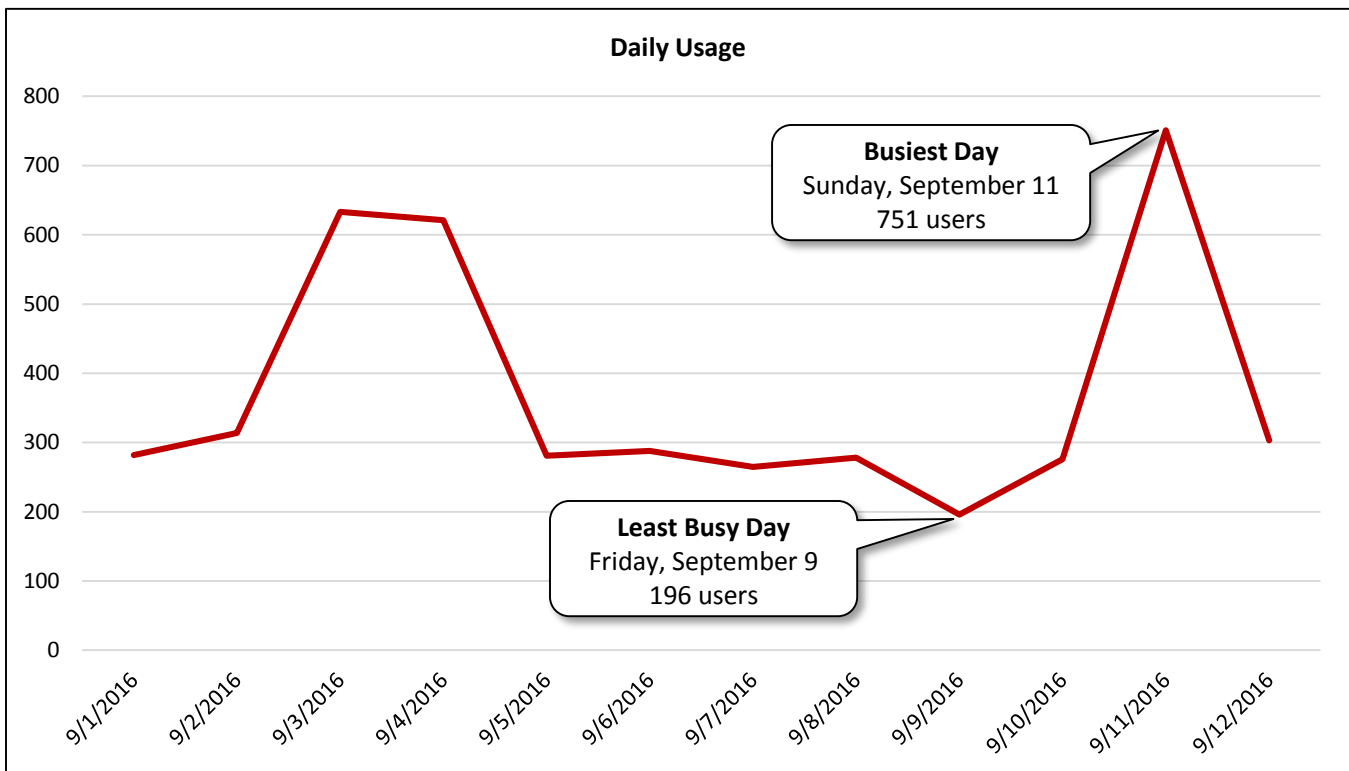
  

<b>Total</b>	4,488
<b>Average Daily Usage</b>	374
<b>Average Daily Usage (Weekday)</b>	276
<b>Average Daily Usage (Weekend)</b>	570

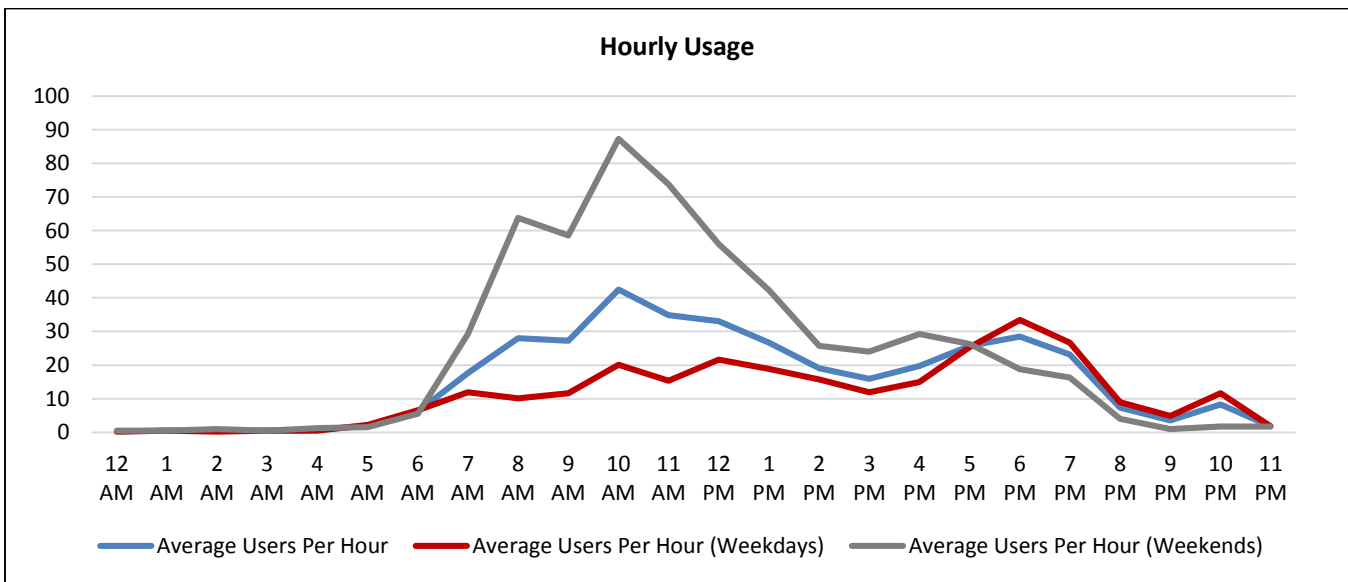
  

Notes
Labor Day: Monday, September 5, 2016

\*Weather conditions recorded at KHOU.



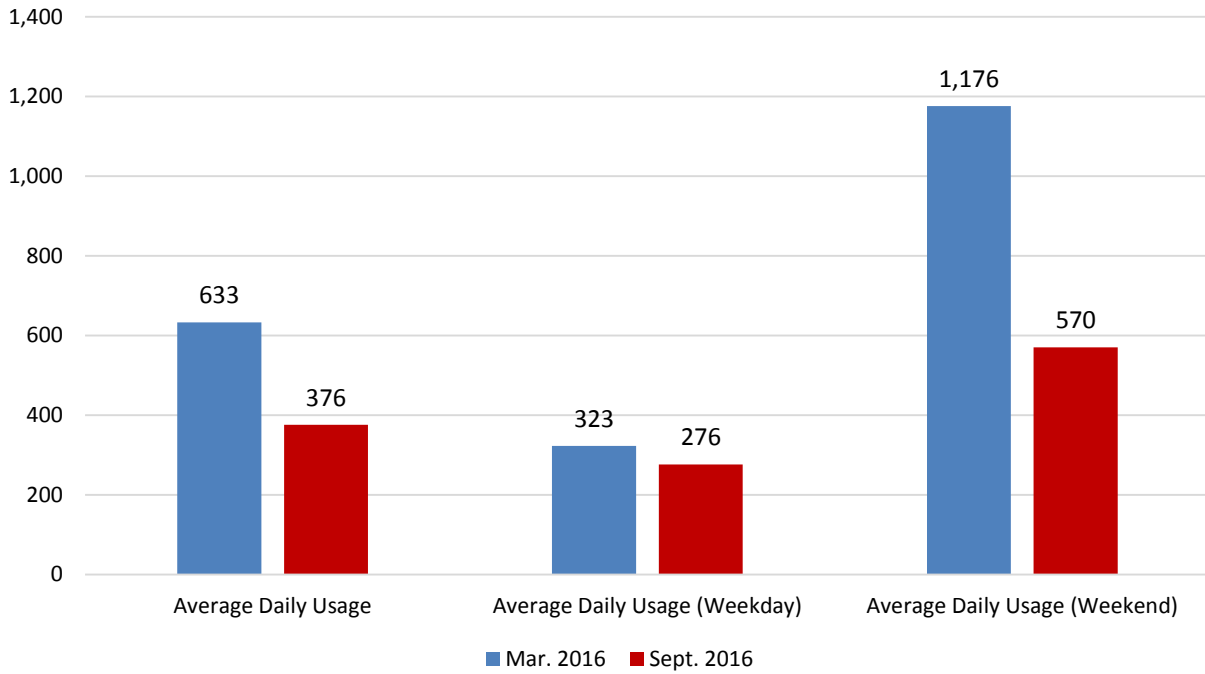
<b>Hourly Usage</b>			
White Oak Trail at University of Houston – Downtown			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.3	0.3	0.5
1:00 a.m.	0.5	0.5	0.5
2:00 a.m.	0.5	0.3	1.0
3:00 a.m.	0.5	0.5	0.5
4:00 a.m.	0.8	0.5	1.3
5:00 a.m.	2.0	2.3	1.5
6:00 a.m.	6.3	6.6	5.5
7:00 a.m.	17.7	11.9	29.3
8:00 a.m.	28.0	10.1	63.8
9:00 a.m.	27.3	11.6	58.5
10:00 a.m.	42.5	20.1	87.3
11:00 a.m.	34.8	15.4	73.8
12:00 p.m.	33.1	21.6	56.0
1:00 p.m.	26.7	18.9	42.3
2:00 p.m.	19.1	15.8	25.8
3:00 p.m.	15.9	11.9	24.0
4:00 p.m.	19.8	15.0	29.3
5:00 p.m.	25.7	25.4	26.3
6:00 p.m.	28.5	33.4	18.8
7:00 p.m.	23.2	26.6	16.3
8:00 p.m.	7.3	9.0	4.0
9:00 p.m.	3.6	4.9	1.0
10:00 p.m.	8.3	11.6	1.8
11:00 p.m.	1.8	1.9	1.8



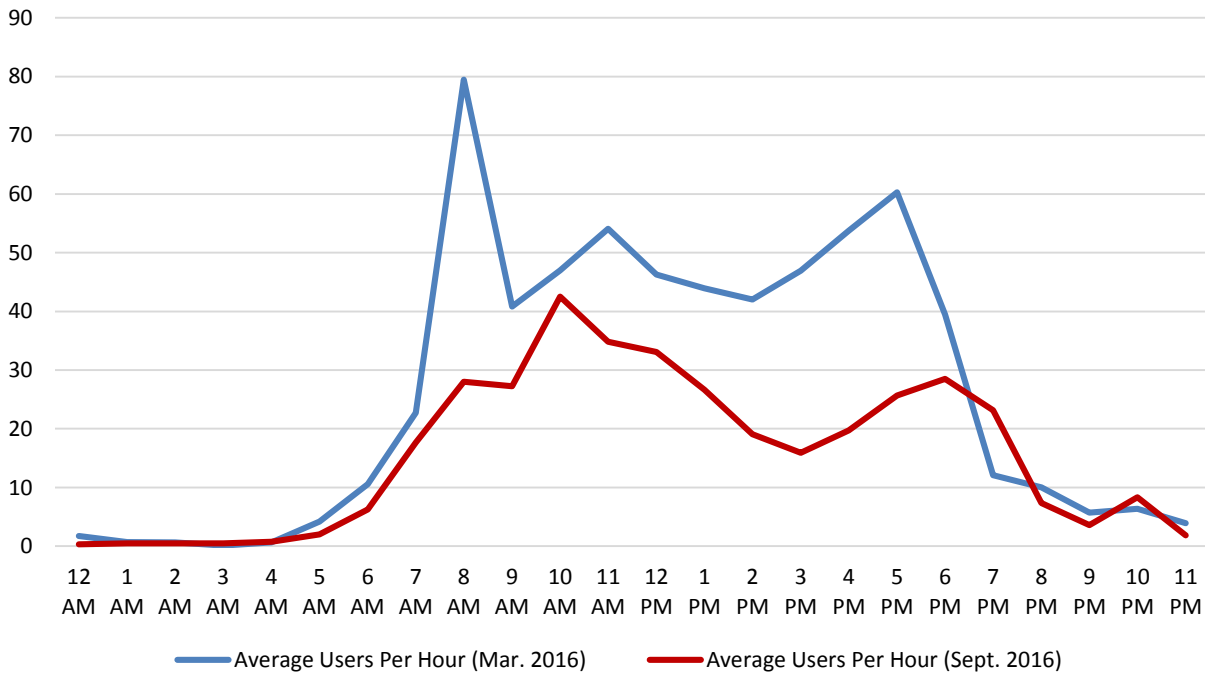
## Historical Comparison

White Oak Trail at University of Houston – Downtown

### Comparison: Daily Usage



### Comparison: Hourly Usage





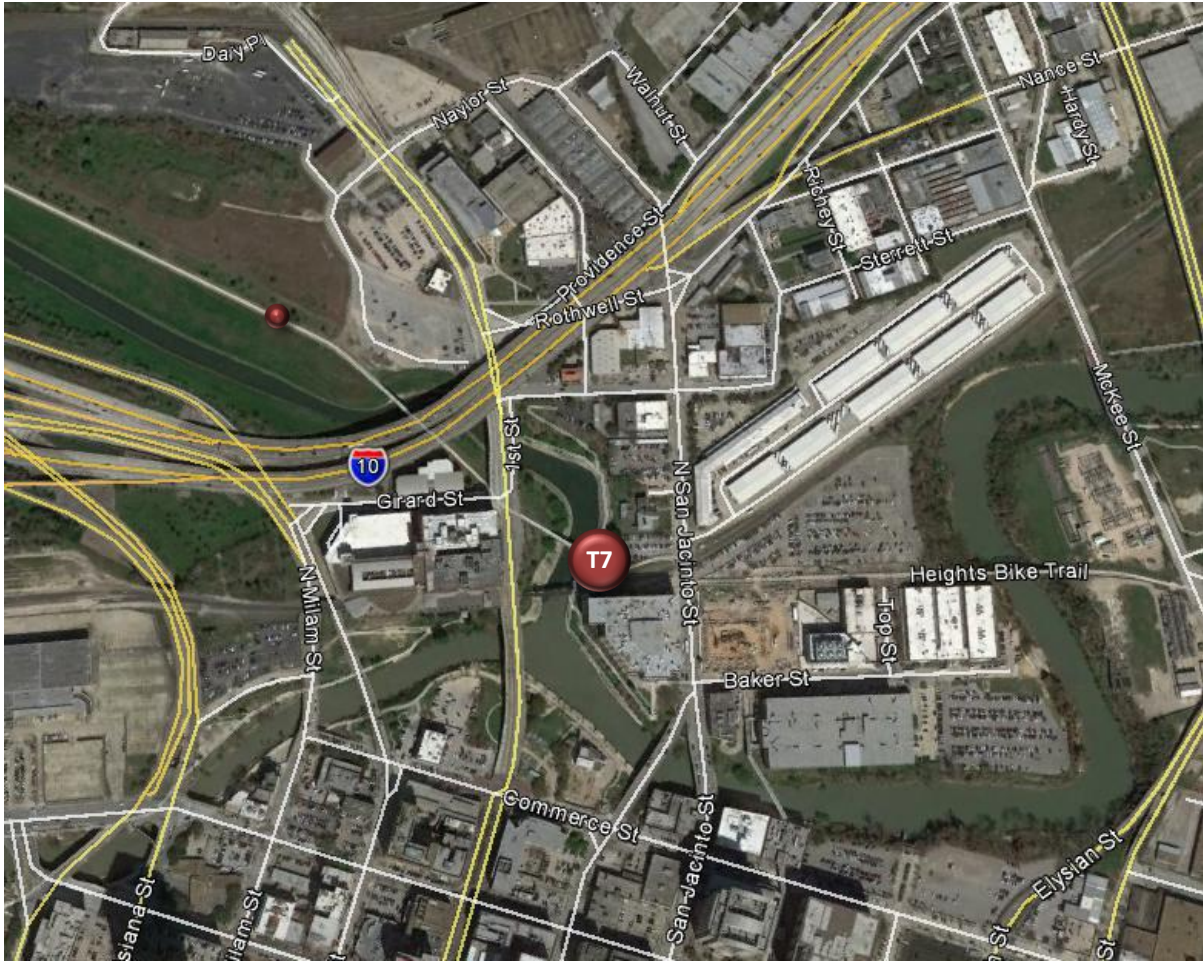
**Counter T8**

White Oak Trail at San Jacinto Street

Location Information		
Location Name	White Oak Trail at San Jacinto Street	
Location Description	White Oak Trail west of San Jacinto Street at White Oak Bayou Bridge	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°45'55.63"N, 95°21'28.03"W	
Surrounding Land Uses	North	Office, Commercial, Interstate 10
	South	Institutional (Harris County Jail), Buffalo Bayou, Office
	East	Institutional (Harris County Jail), Office, Parking Lots
	West	White Oak Bayou, University of Houston – Downtown
What object was device secured to?	Bridge Railing (White Oak Bayou Bridge)	
Sidewalk Width	10' (Bridge: 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	No	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Yes (METRO Bus Stop 350' East at San Jacinto St./Allen St.)	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be higher during weekends (263 users/day) than on weekdays (195 users/day).</li> <li>• On weekdays, usage is highest in the morning (8:00 a.m. – 9:00 a.m.) and midday (11:00 a.m. – 1:00 p.m.).</li> <li>• During weekends, usage is highest in the morning (6:00 a.m. – 9:00 a.m.).</li> </ul>

**Location Information: Map**



**Location Information: Photos**

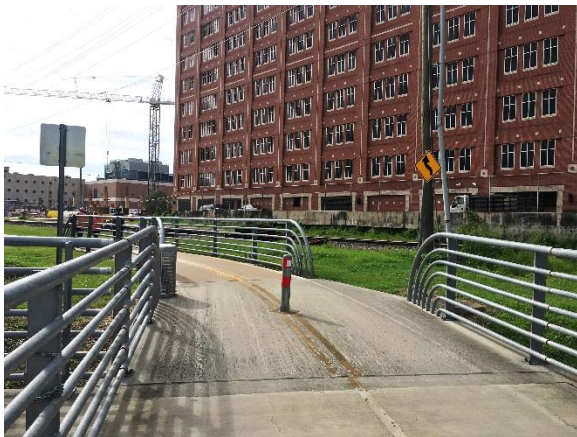


Image 25: White Oak Trail at San Jacinto Street Facing East



Image 26: White Oak Trail at San Jacinto Street Facing West

<b>Daily Usage</b> White Oak Trail at San Jacinto Street				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	202	97	77	0
Friday, September 2, 2016	223	95	77	0
Saturday, September 3, 2016	212	93	75	0
Sunday, September 4, 2016	252	94	74	0.29
Monday, September 5, 2016	224	90	75	0.02
Tuesday, September 6, 2016	202	93	75	0
Wednesday, September 7, 2016	178	94	74	T
Thursday, September 8, 2016	166	94	76	0
Friday, September 9, 2016	155	91	75	0.04
Saturday, September 10, 2016	282	90	74	T
Sunday, September 11, 2016	307	91	72	0
Monday, September 12, 2016	209	92	73	0

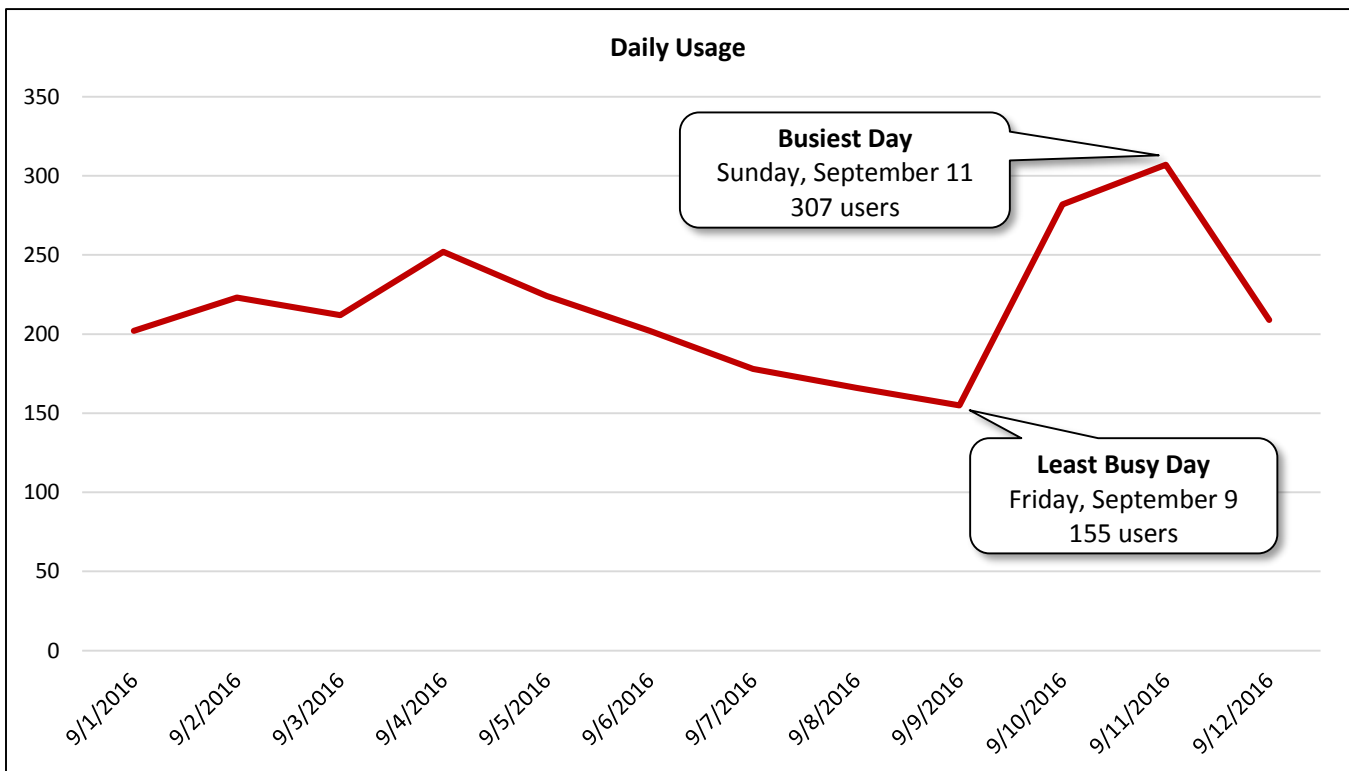
  

<b>Total</b>	2,612
<b>Average Daily Usage</b>	218
<b>Average Daily Usage (Weekday)</b>	195
<b>Average Daily Usage (Weekend)</b>	263

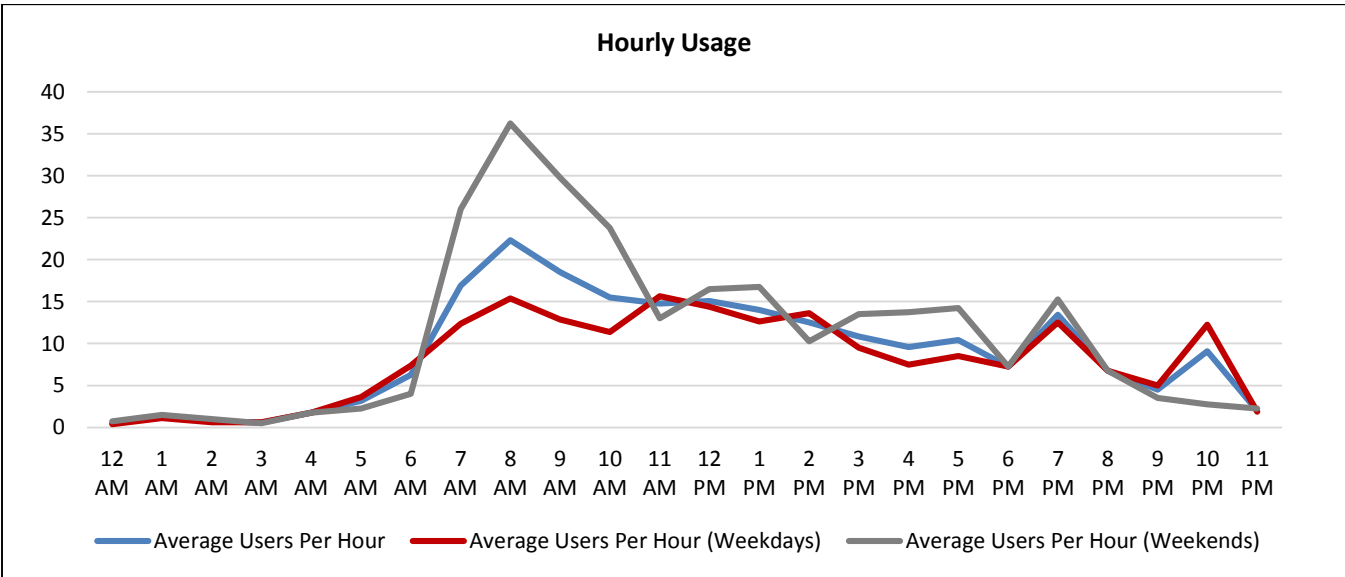
  

Notes
Labor Day: Monday, September 5, 2016

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b> White Oak Trail at San Jacinto Street			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.5	0.4	0.8
1:00 a.m.	1.3	1.1	1.5
2:00 a.m.	0.8	0.6	1.0
3:00 a.m.	0.6	0.6	0.5
4:00 a.m.	1.8	1.8	1.8
5:00 a.m.	3.2	3.6	2.3
6:00 a.m.	6.3	7.4	4.0
7:00 a.m.	16.9	12.4	26.0
8:00 a.m.	22.3	15.4	36.3
9:00 a.m.	18.5	12.9	29.8
10:00 a.m.	15.5	11.4	23.8
11:00 a.m.	14.8	15.6	13.0
12:00 p.m.	15.1	14.4	16.5
1:00 p.m.	14.0	12.6	16.8
2:00 p.m.	12.5	13.6	10.3
3:00 p.m.	10.8	9.5	13.5
4:00 p.m.	9.6	7.5	13.8
5:00 p.m.	10.4	8.5	14.3
6:00 p.m.	7.3	7.3	7.3
7:00 p.m.	13.4	12.5	15.3
8:00 p.m.	6.8	6.8	6.8
9:00 p.m.	4.5	5.0	3.5
10:00 p.m.	9.1	12.3	2.8
11:00 p.m.	2.0	1.9	2.3





**Counter T9**

Little White Oak Bayou Trail at Enid Street

Location Information		
Location Name	Little White Oak Bayou Trail at Enid Street	
Location Description	Shared-Use Path along Little White Oak Bayou East of Enid Street	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°48'30.49"N, 95°22'30.49"W	
Surrounding Land Uses	North	Industrial, Single-Family Residential
	South	Little White Oak Bayou, Industrial
	East	Industrial, Interstate 45
	West	Little White Oak Bayou, Industrial, Single-Family Residential
What object was device secured to?	Bridge Railing	
Sidewalk Width	10' (+ 2' Shoulders Adjacent to Railing)	
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	Yes	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good (Some Overgrown Vegetation)	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	No	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Yes (METRO Bus Stop 250' South at Enid Street/Link Road)	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> <li>• Pedestrian and bicycle traffic is low at this location. Usage tends to be slightly higher during weekends (16 users/day) than on weekdays (13 users/day).</li> <li>• On weekdays, usage is low. It is highest in the morning (9:00 a.m. – 11:00 a.m.) and later in the evening (8:00 p.m. – 9:00 p.m.).</li> <li>• During weekends, usage is low. Usage varies throughout the day and is highest midday (12:00 p.m. – 1:00 p.m.).</li> </ul>



<b>Daily Usage</b> Little White Oak Bayou Trail at Enid Street				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	19	97	77	0
Friday, September 2, 2016	17	95	77	0
Saturday, September 3, 2016	12	93	75	0
Sunday, September 4, 2016	8	94	74	0.29
Monday, September 5, 2016	14	90	75	0.02
Tuesday, September 6, 2016	8	93	75	0
Wednesday, September 7, 2016	9	94	74	T
Thursday, September 8, 2016	10	94	76	0
Friday, September 9, 2016	15	91	75	0.04
Saturday, September 10, 2016	20	90	74	T
Sunday, September 11, 2016	22	91	72	0
Monday, September 12, 2016	13	92	73	0

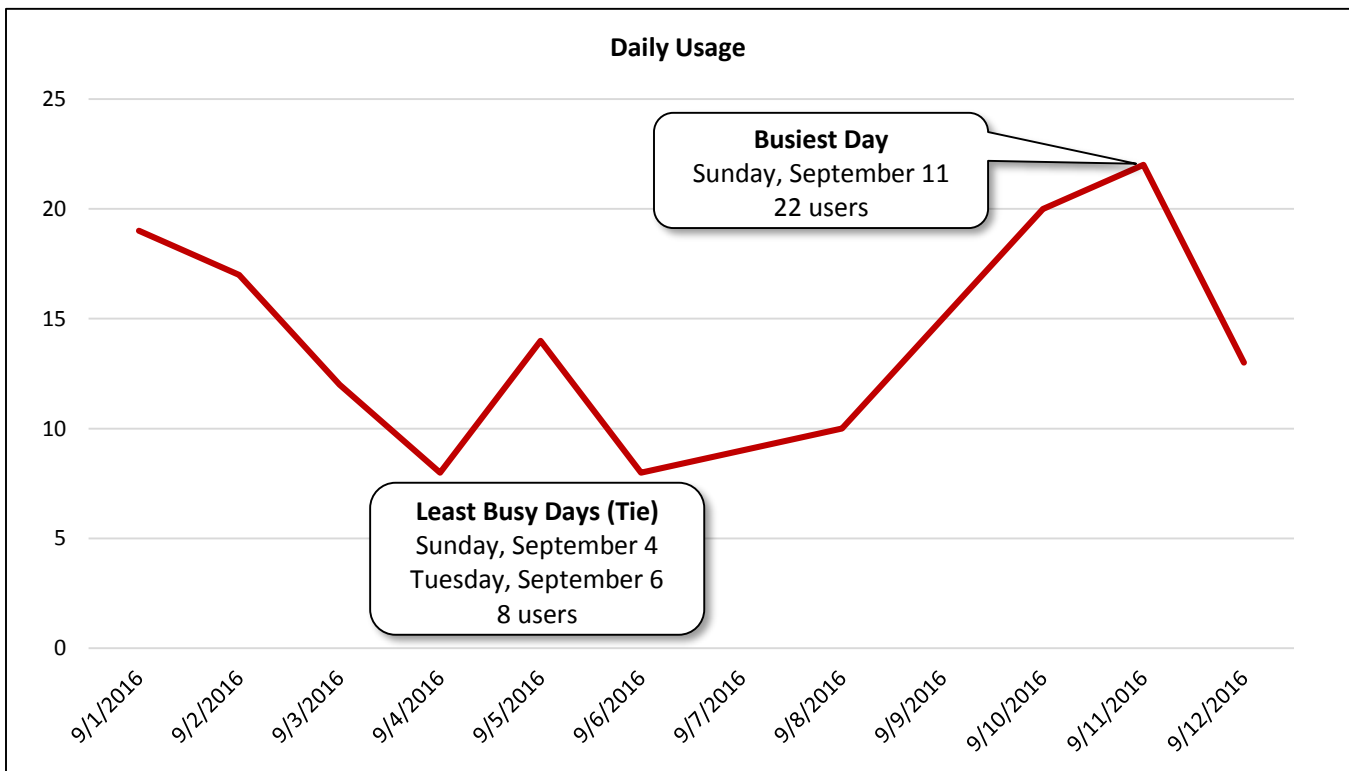
  

<b>Total</b>	167
<b>Average Daily Usage</b>	14
<b>Average Daily Usage (Weekday)</b>	13
<b>Average Daily Usage (Weekend)</b>	16

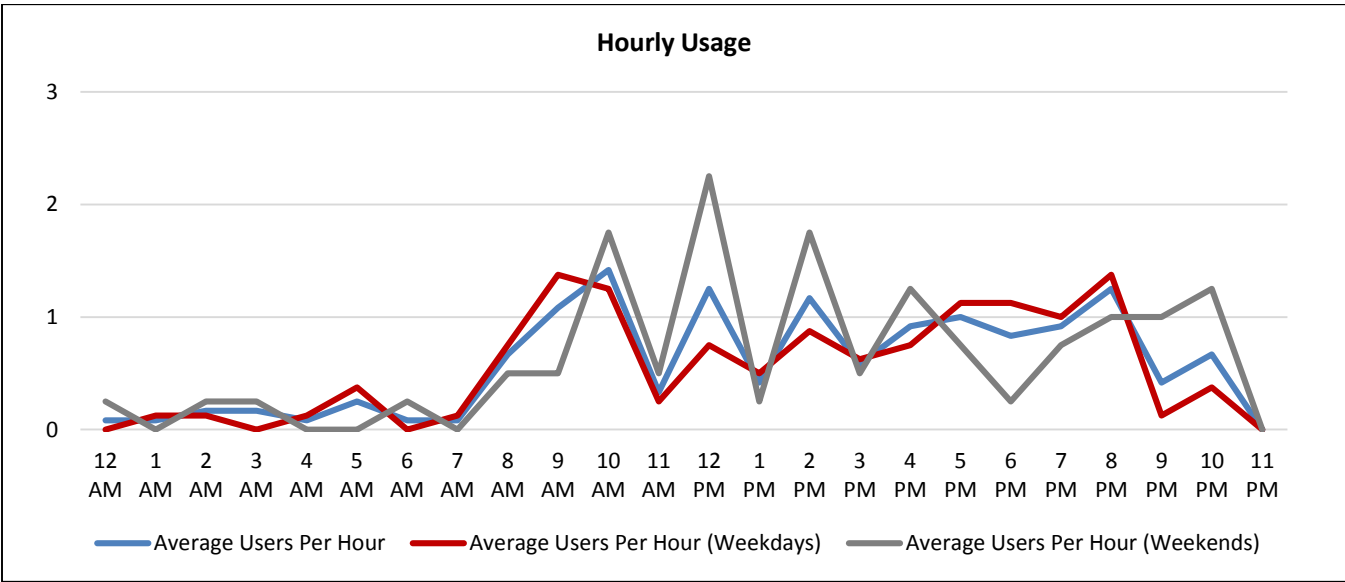
  

Notes
Labor Day: Monday, September 5, 2016

\*Weather conditions recorded at KHOU.



Hourly Usage Little White Oak Bayou at Enid Street			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.1	0.0	0.3
1:00 a.m.	0.1	0.1	0.0
2:00 a.m.	0.2	0.1	0.3
3:00 a.m.	0.2	0.0	0.3
4:00 a.m.	0.1	0.1	0.0
5:00 a.m.	0.3	0.4	0.0
6:00 a.m.	0.1	0.0	0.3
7:00 a.m.	0.1	0.1	0.0
8:00 a.m.	0.7	0.8	0.5
9:00 a.m.	1.1	1.4	0.5
10:00 a.m.	1.4	1.3	1.8
11:00 a.m.	0.3	0.3	0.5
12:00 p.m.	1.3	0.8	2.3
1:00 p.m.	0.4	0.5	0.3
2:00 p.m.	1.2	0.9	1.8
3:00 p.m.	0.6	0.6	0.5
4:00 p.m.	0.9	0.8	1.3
5:00 p.m.	1.0	1.1	0.8
6:00 p.m.	0.8	1.1	0.3
7:00 p.m.	0.9	1.0	0.8
8:00 p.m.	1.3	1.4	1.0
9:00 p.m.	0.4	0.1	1.0
10:00 p.m.	0.7	0.4	1.3
11:00 p.m.	0.0	0.0	0.0



**Counter T10**

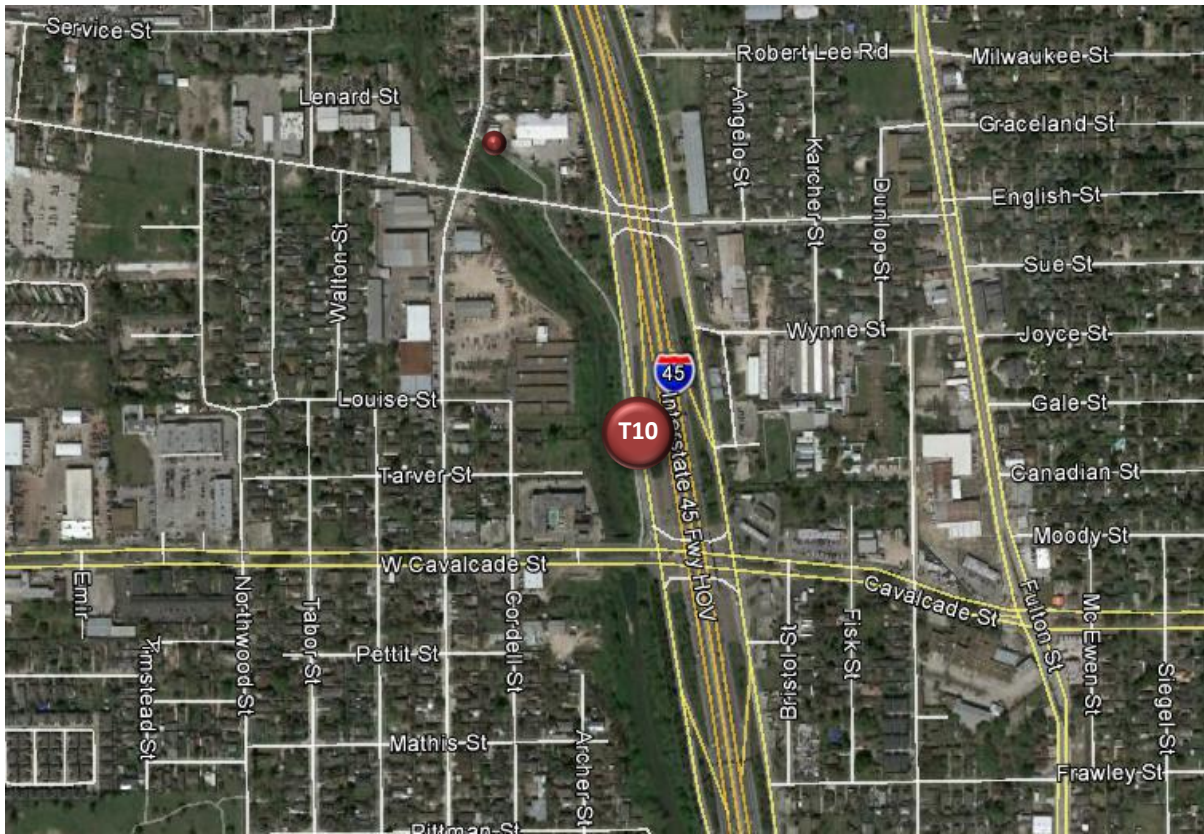
Little White Oak Bayou Trail at Cavalcade Street

Location Information		
Location Name	Little White Oak Bayou Trail at Cavalcade Street	
Location Description	Shared-Use Path along Little White Oak Bayou/Interstate 45 Southbound Frontage Road North of Cavalcade Street	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°48'18.10"N, 95°22'23.69"W	
Surrounding Land Uses	North	Little White Oak Bayou, Interstate 45, Industrial
	South	Little White Oak Bayou, Interstate 45, Commercial/Retail, Single-Family Residential
	East	Interstate 45, Commercial/Retail, Single-Family Residential
	West	Little White Oak Bayou, Commercial/Retail, Industrial, Single-Family Residential
What object was device secured to?	Sign Post (Bicycles Yield to Pedestrians)	
Sidewalk Width	10'	
Buffer Width	7'	
Street Width	Two- to Three-Lane Frontage Road	
Parallel Parking	No	
Landscaping or Trees	No	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	40 miles per hour	
Street Lighting	Yes	
Street Traffic Volume	Not Available	
Transit	No	
Shade	No	
Have counts been collected by H-GAC at this location before?	No	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be similar on weekdays (19 users/day) as during weekends (18 users/day).</li> <li>• On weekdays, usage is low throughout the day. It is highest in the mid-afternoon (2:00 p.m. – 3:00 p.m.) and evening (5:00 p.m. – 6:00 p.m.).</li> <li>• During weekends, usage is highest in the late morning (10:00 a.m. – 11:00 a.m.).</li> </ul>



**Location Information: Map**



**Location Information: Photos**



Image 29: Little White Oak Bayou Trail at Cavalcade Street Facing North



Image 30: Little White Oak Bayou Trail at Cavalcade Street Facing South

<b>Daily Usage</b> Little White Oak Bayou at Cavalcade Street				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Thursday, September 1, 2016	21	97	77	0
Friday, September 2, 2016	15	95	77	0
Saturday, September 3, 2016	14	93	75	0
Sunday, September 4, 2016	12	94	74	0.29
Monday, September 5, 2016	19	90	75	0.02
Tuesday, September 6, 2016	15	93	75	0
Wednesday, September 7, 2016	23	94	74	T
Thursday, September 8, 2016	22	94	76	0
Friday, September 9, 2016	17	91	75	0.04
Saturday, September 10, 2016	18	90	74	T
Sunday, September 11, 2016	28	91	72	0
Monday, September 12, 2016	19	92	73	0

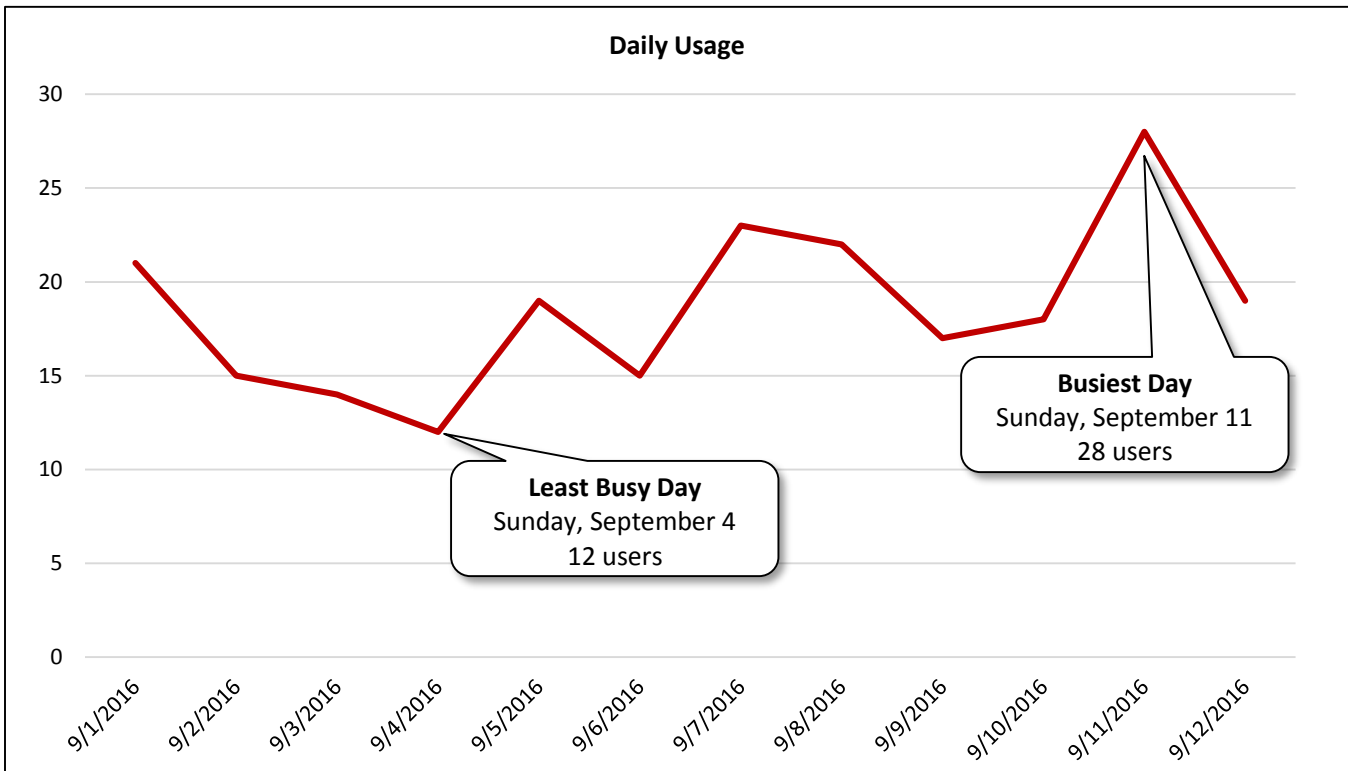
  

<b>Total</b>	223
<b>Average Daily Usage</b>	19
<b>Average Daily Usage (Weekday)</b>	19
<b>Average Daily Usage (Weekend)</b>	18

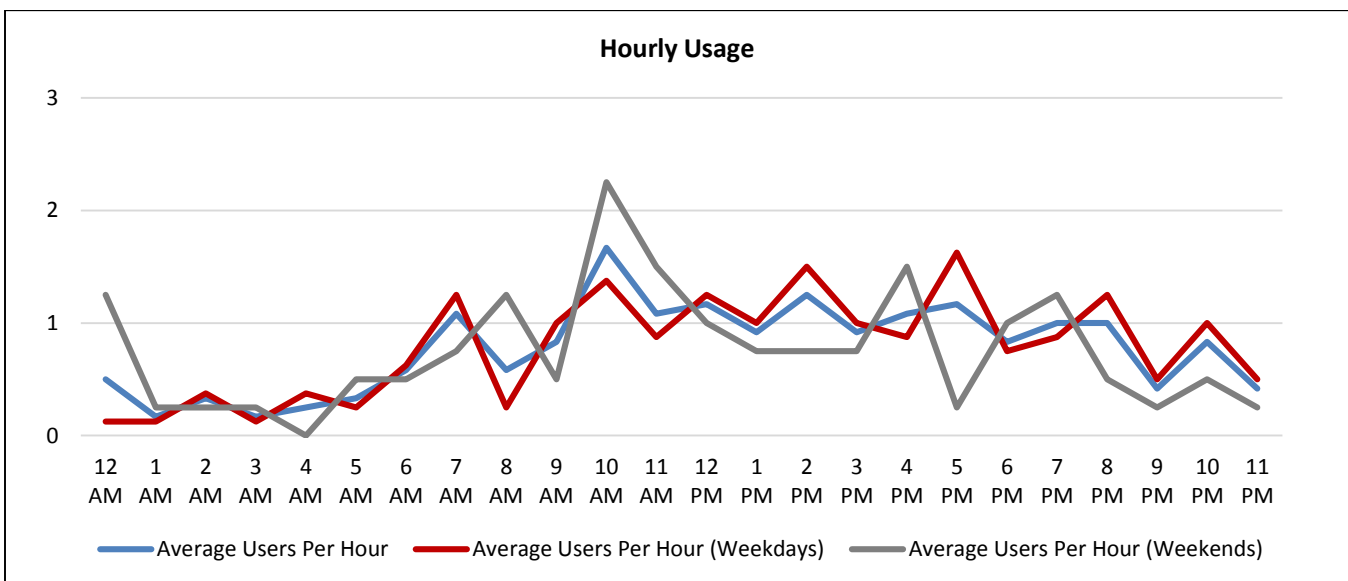
  

Notes
Labor Day: Monday, September 5, 2016

\*Weather conditions recorded at KHOU.



<b>Hourly Usage</b>			
Little White Oak Bayou Trail at Cavalcade Street			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.5	0.1	1.3
1:00 a.m.	0.2	0.1	0.3
2:00 a.m.	0.3	0.4	0.3
3:00 a.m.	0.2	0.1	0.3
4:00 a.m.	0.3	0.4	0.0
5:00 a.m.	0.3	0.3	0.5
6:00 a.m.	0.6	0.6	0.5
7:00 a.m.	1.1	1.3	0.8
8:00 a.m.	0.6	0.3	1.3
9:00 a.m.	0.8	1.0	0.5
10:00 a.m.	1.7	1.4	2.3
11:00 a.m.	1.1	0.9	1.5
12:00 p.m.	1.2	1.3	1.0
1:00 p.m.	0.9	1.0	0.8
2:00 p.m.	1.3	1.5	0.8
3:00 p.m.	0.9	1.0	0.8
4:00 p.m.	1.1	0.9	1.5
5:00 p.m.	1.2	1.6	0.3
6:00 p.m.	0.8	0.8	1.0
7:00 p.m.	1.0	0.9	1.3
8:00 p.m.	1.0	1.3	0.5
9:00 p.m.	0.4	0.5	0.3
10:00 p.m.	0.8	1.0	0.5
11:00 p.m.	0.4	0.5	0.3



**Permanent Counters**

H-GAC has worked with the City of Houston to install permanent pedestrian and bicycle counters at two locations in early 2013. One counter is located along the White Oak Trail near 34<sup>th</sup> Street in Oak Forest/Garden Oaks, and the other is located along the MKT Trail near 5½ Street in Houston Heights.

Below is total daily usage (pedestrians and cyclists) at each location during the period temporary counters were deployed nearby.

<b>Daily Usage</b> Permanent Counters					
Date	Total Users: White Oak Trail at 34 <sup>th</sup> Street	Total Users: MKT Trail at 5½ Street	Select Weather Data*		
			High Temp. (°F)	Low Temp. (°F)	Precipitation (inches)
Thursday, September 1, 2016	320	756	97	77	0
Friday, September 2, 2016	261	564	95	77	0
Saturday, September 3, 2016	654	1,198	93	75	0
Sunday, September 4, 2016	625	1,088	94	74	0.29
Monday, September 5, 2016	739	1,398	90	75	0.02
Tuesday, September 6, 2016	435	755	93	75	0
Wednesday, September 7, 2016	336	724	94	74	T
Thursday, September 8, 2016	308	746	94	76	0
Friday, September 9, 2016	219	557	91	75	0.04
Saturday, September 10, 2016	657	1,112	90	74	T
Sunday, September 11, 2016	950	1,623	91	72	0
Monday, September 12, 2016	346	724	92	73	0

<b>Total</b>	5,850	11,245
<b>Average Daily Usage</b>	488	937
<b>Average Daily Usage (Weekday)</b>	371	678
<b>Average Daily Usage (Weekend)</b>	722	1,255

## Participants

City of Houston: Parks and Recreation Department

[www.houstontx.gov/parks/](http://www.houstontx.gov/parks/)

Houston-Galveston Area Council: Pedestrian-Bicyclist Planning

[www.h-gac.com/go/pedbike](http://www.h-gac.com/go/pedbike)

Texas Transportation Institute

<http://tti.tamu.edu/>