

**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	Saturday, September 19, 2015 – Tuesday, October 6, 2015
Number of Counters Deployed	7
Locations Deployed	
Counter #1	Brays Bayou at Gus Wortham Golf Course
Counter #2	Harrisburg Trail at Drennan Street
Counter #3	Harrisburg Trail at Lockwood Drive
Counter #4	Columbia Tap Trail at Live Oak Street
Counter #5	Columbia Tap Trail at Webster Street
Counter #6	Columbia Tap Trail at Alabama Street
Counter #7	Columbia Tap Trail at North MacGregor Way

**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**

## Brays Bayou at Gus Wortham Golf Course

Location Information		
Location Name	Brays Bayou at Gus Wortham Golf Course	
Location Description	Brays Bayou adjacent to Gus Worham Golf Course on a bridge crossing a tributary of Brays Bayou.	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°43'49.33"N, 95°18'10.71"W	
Surrounding Land Uses	North	Gus Wortham Golf Course
	South	Brays Bayou, Cemetery, Single-Family Residential
	East	Single-Family Residential, Briscoe Elementary School
	West	Gus Wortham Golf Course
What object was device secured to?	Bridge Railing (Near Eastern 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	
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	None	
Shade	None	
Have counts been collected by H-GAC at this location before?	Yes March 31, 2015 – April 22, 2015	

**Trends**

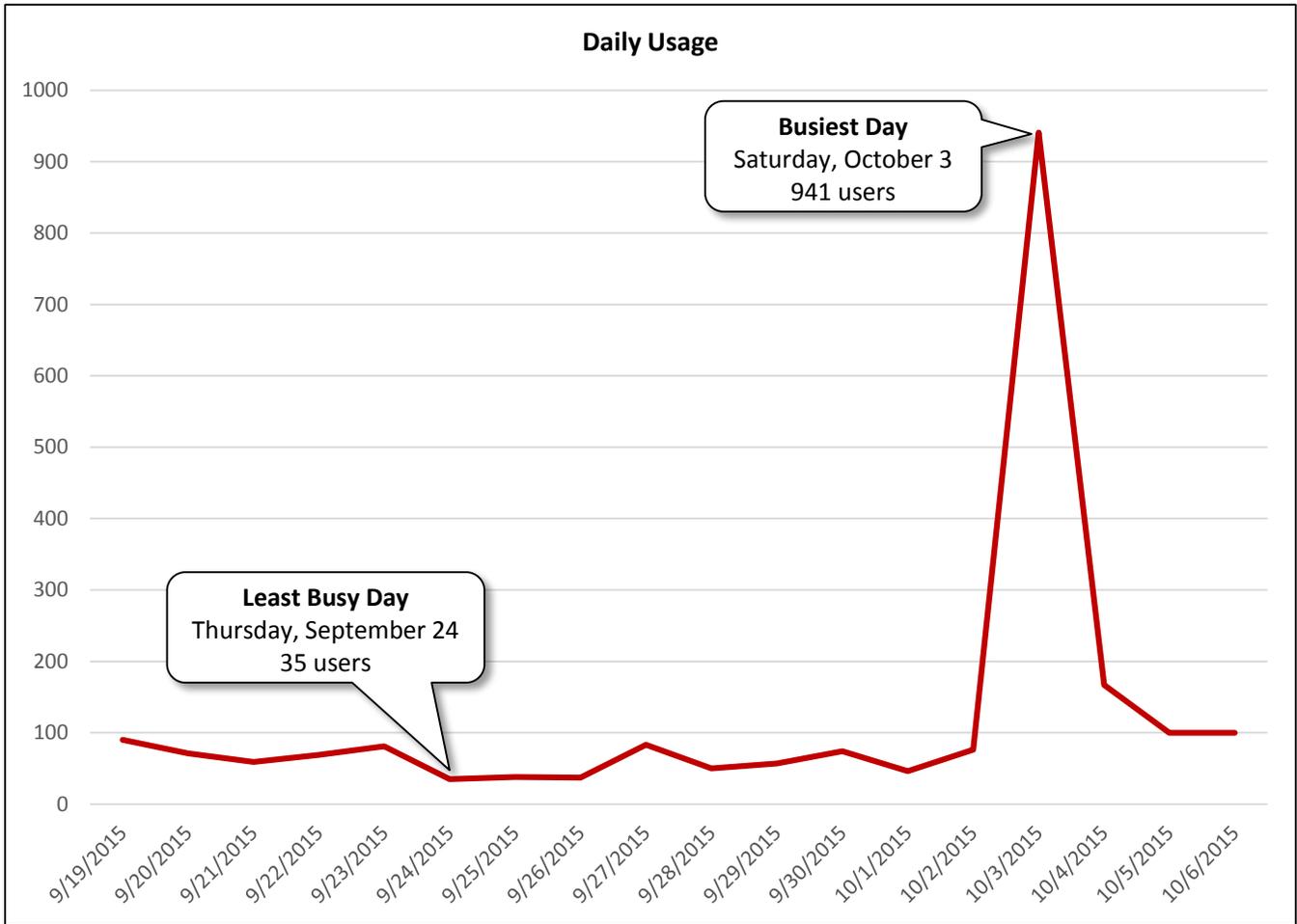
- There tends to be higher usage on weekends than during weekdays.
- On weekdays, usage is highest in the evenings (6:00 p.m. – 8:00 p.m.).
- On weekends, usage is highest in the morning (8:00 a.m. – 12:00 p.m.). High usage on weekend mornings could be more pronounced due to the *Park to Port Bike Ride*, an event organized by the Hermann Park Conservancy and held the morning of Saturday, October 3, 2015.
- Average daily usage at this location increased approximately 16% from Spring 2015 (104) to Fall 2015 (121).



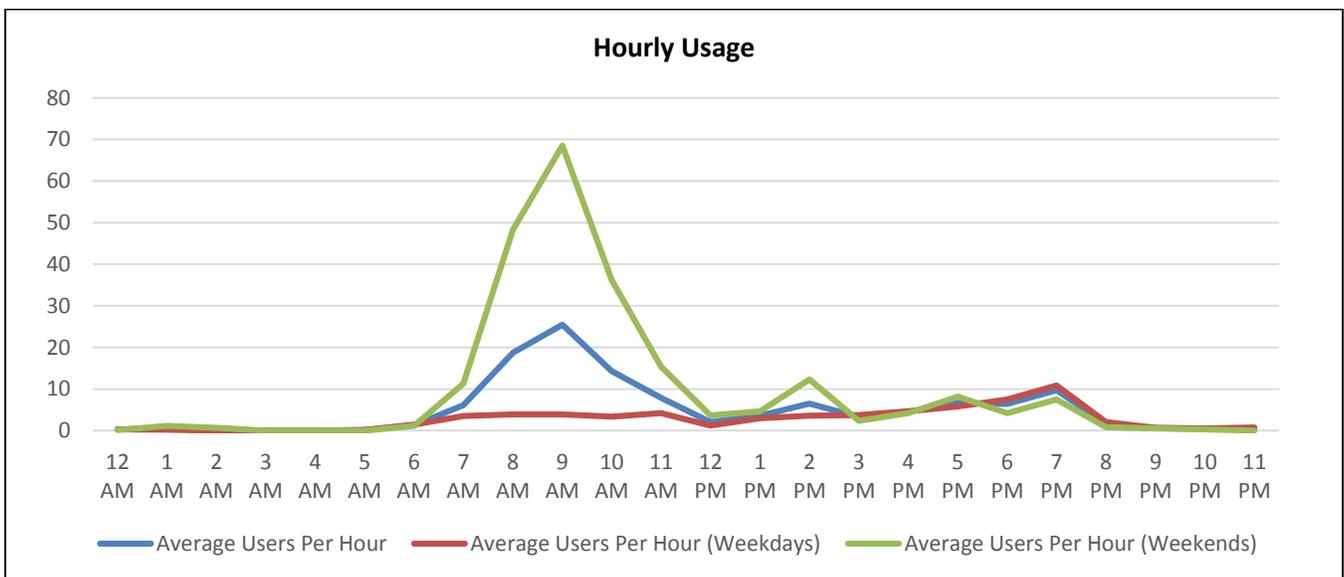
Daily Usage				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Saturday, September 19, 2015	90	91	68	0
Sunday, September 20, 2015	71	92	70	0
Monday, September 21, 2015	59	92	73	T
Tuesday, September 22, 2015	69	92	72	0
Wednesday, September 23, 2015	81	93	68	0
Thursday, September 24, 2015	35	90	67	0
Friday, September 25, 2015	38	93	71	0
Saturday, September 26, 2015	37	94	68	0
Sunday, September 27, 2015	83	78	69	0.08
Monday, September 28, 2015	50	76	70	0.12
Tuesday, September 29, 2015	57	90	69	T
Wednesday, September 30, 2015	74	92	70	0
Thursday, October 1, 2015	46	90	68	0
Friday, October 2, 2015	76	84	60	0
Saturday, October 3, 2015	941	84	55	0
Sunday, October 4, 2015	167	84	56	0
Monday, October 5, 2015	100	86	57	0
Tuesday, October 6, 2015	100	89	65	0
<b>Total</b>	2,174			
<b>Average Daily Usage</b>	121			
<b>Average Daily Usage (Weekday)</b>	65			
<b>Average Daily Usage (Weekend)</b>	232			

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

Notes
<ul style="list-style-type: none"> <li>The Hermann Park Conservancy hosted its annual <i>Park to Port Bike Ride</i> on Saturday, October 3, 2015. Participants left Hermann Park between 7:00 a.m. and 9:00 a.m. and traveled east along Brays Bayou to Brady's Landing. Participants passed this counter, contributing to higher-than-average counts that day.</li> </ul>

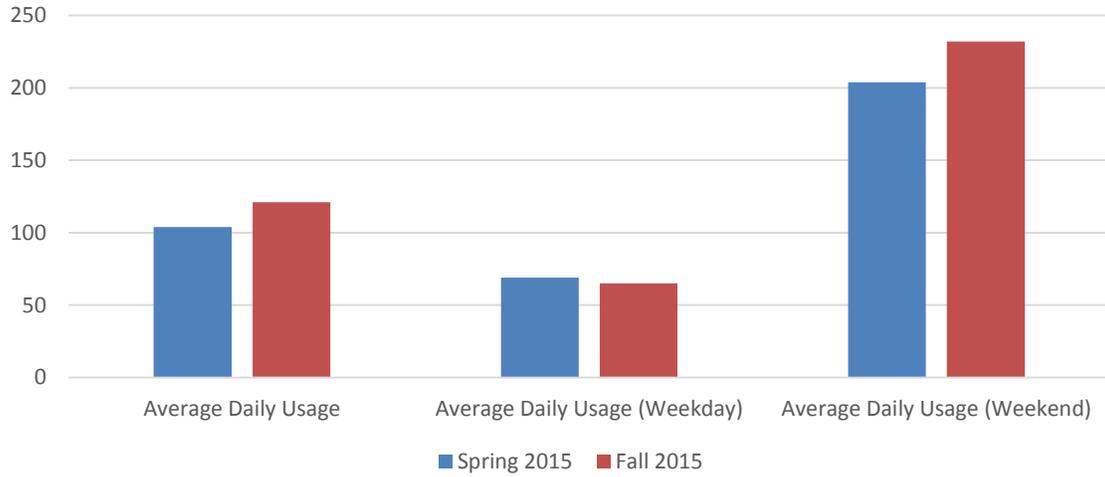


Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.3	0.3	0.2
1:00 a.m.	0.6	0.3	1.2
2:00 a.m.	0.2	0.0	0.7
3:00 a.m.	0.0	0.0	0.0
4:00 a.m.	0.0	0.0	0.0
5:00 a.m.	0.1	0.2	0.0
6:00 a.m.	1.3	1.4	1.2
7:00 a.m.	6.1	3.5	11.3
8:00 a.m.	18.7	3.9	48.3
9:00 a.m.	25.4	3.9	68.5
10:00 a.m.	14.3	3.3	36.2
11:00 a.m.	7.9	4.2	15.3
12:00 p.m.	2.1	1.3	3.7
1:00 p.m.	3.6	3.0	4.7
2:00 p.m.	6.5	3.6	12.3
3:00 p.m.	3.3	3.8	2.3
4:00 p.m.	4.5	4.7	4.2
5:00 p.m.	6.6	5.8	8.2
6:00 p.m.	6.4	7.5	4.2
7:00 p.m.	9.7	10.8	7.5
8:00 p.m.	1.7	2.1	0.8
9:00 p.m.	0.6	0.7	0.5
10:00 p.m.	0.4	0.5	0.3
11:00 p.m.	0.5	0.8	0.0

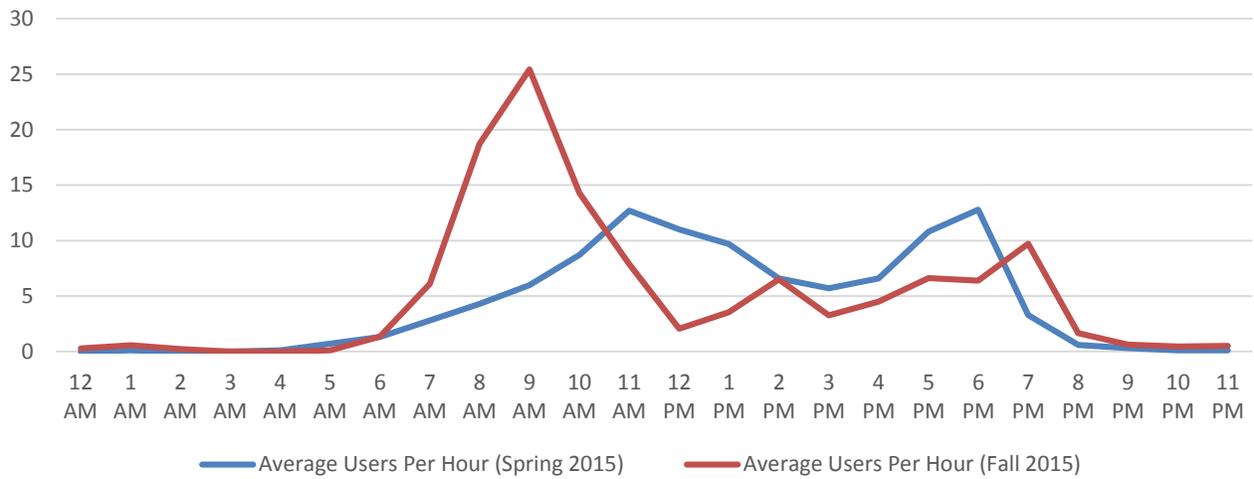


## Historical Comparison

### Comparison: Daily Usage



### Comparison: Average Usage Per Hour



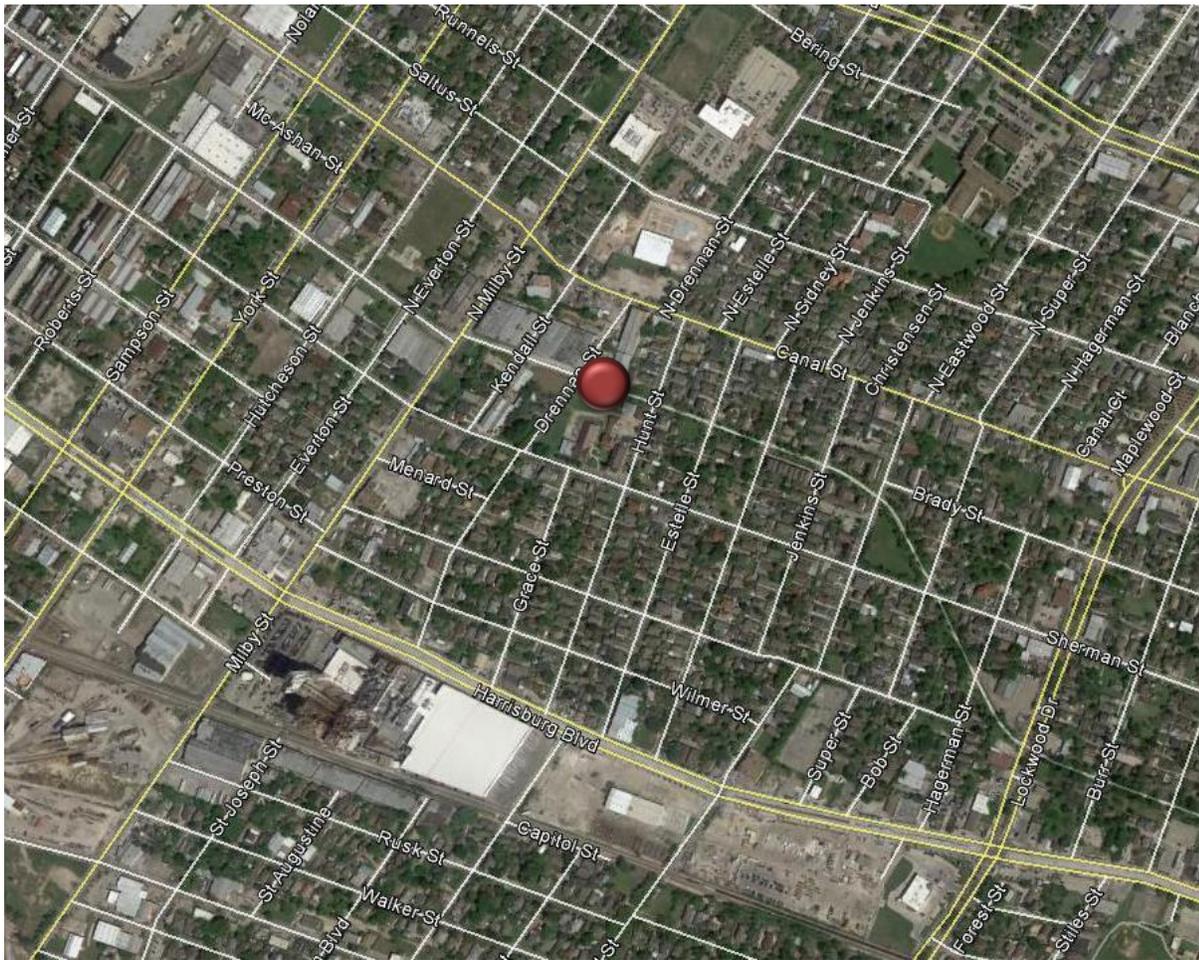
**Counter #2**

Harrisburg Trail at Drennan Street

Location Information		
Location Name	Harrisburg Trail at Drennan Street	
Location Description	Harrisburg Trail at Drennan Street	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks and Recreation Department	
GPS Coordinates	29°44'56.82"N, 95°20'3.33"W	
Surrounding Land Uses	North	Industrial, Single-Family Residential
	South	Institutional (Church), Single-Family Residential
	East	Institutional (Church), Single-Family Residential
	West	Industrial, Single-Family Residential
What object was device secured to?	Sign Post (Stop/Bicycle Crossing/Keep Houston Safe Signs)	
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 (Trees Planted at Regular Intervals)	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Excellent	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	Yes	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Nearby (Bus Stop about 600' Northeast at Canal St./Hunt St. Intersection)	
Shade	Yes	
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, usage is highest in the morning (8:00 a.m. – 11:00 a.m.) and the evening (7:00 p.m. – 8:00 p.m.).</li> <li>• On weekends, usage peaks in the morning (8:00 a.m. – 11:00 a.m.).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



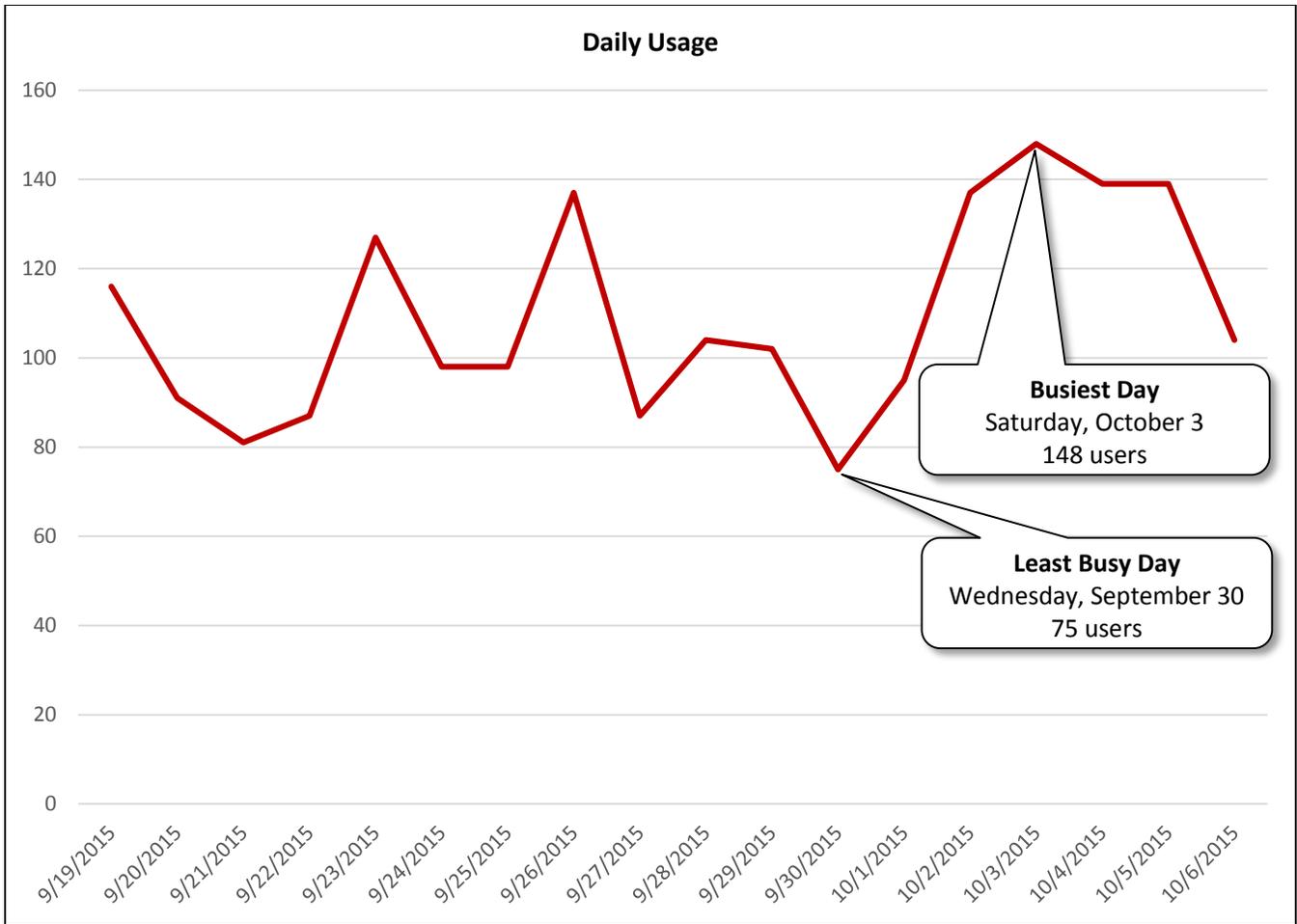
Image 3: Harrisburg Trail Facing East from Drennan Street



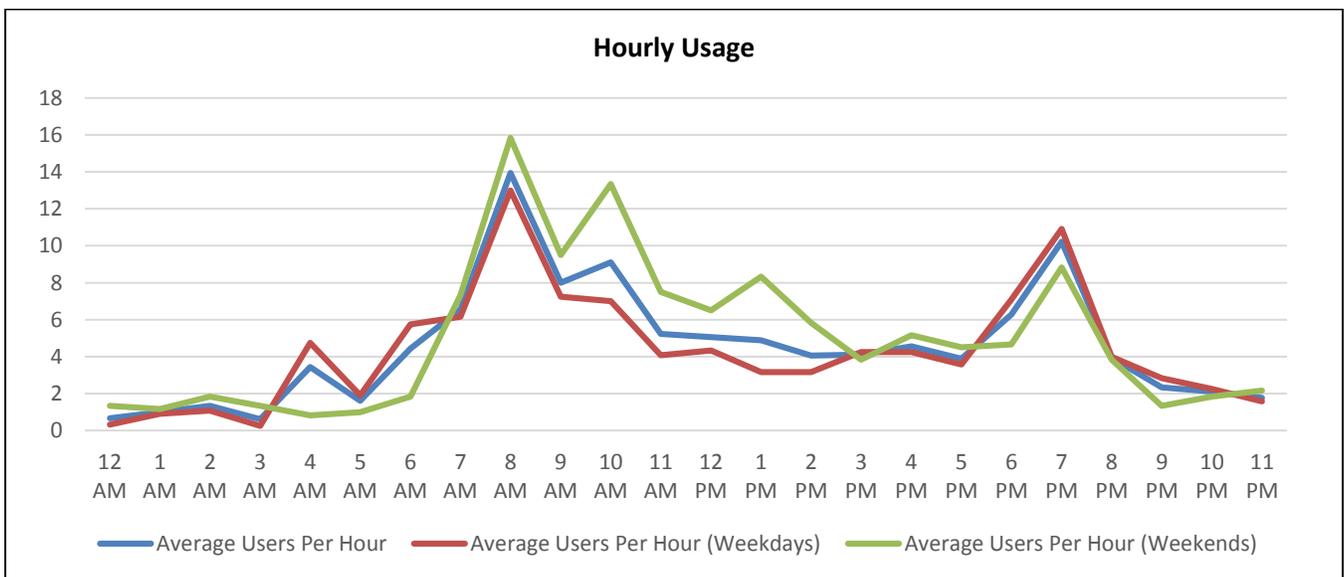
Image 4: Harrisburg Trail Facing West to Terminus at Drennan Street

<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>
Saturday, September 19, 2015	116	91	68	0
Sunday, September 20, 2015	91	92	70	0
Monday, September 21, 2015	81	92	73	T
Tuesday, September 22, 2015	87	92	72	0
Wednesday, September 23, 2015	127	93	68	0
Thursday, September 24, 2015	98	90	67	0
Friday, September 25, 2015	98	93	71	0
Saturday, September 26, 2015	137	94	68	0
Sunday, September 27, 2015	87	78	69	0.08
Monday, September 28, 2015	104	76	70	0.12
Tuesday, September 29, 2015	102	90	69	T
Wednesday, September 30, 2015	75	92	70	0
Thursday, October 1, 2015	95	90	68	0
Friday, October 2, 2015	137	84	60	0
Saturday, October 3, 2015	148	84	55	0
Sunday, October 4, 2015	139	84	56	0
Monday, October 5, 2015	139	86	57	0
Tuesday, October 6, 2015	104	89	65	0
<b>Total</b>	1,965			
<b>Average Daily Usage</b>	109			
<b>Average Daily Usage (Weekday)</b>	104			
<b>Average Daily Usage (Weekend)</b>	120			

\*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.	0.7	0.3	1.3
1:00 a.m.	1.0	0.9	1.2
2:00 a.m.	1.3	1.1	1.8
3:00 a.m.	0.6	0.3	1.3
4:00 a.m.	3.4	4.8	0.8
5:00 a.m.	1.6	1.9	1.0
6:00 a.m.	4.4	5.8	1.8
7:00 a.m.	6.6	6.2	7.3
8:00 a.m.	13.9	13.0	15.8
9:00 a.m.	8.0	7.3	9.5
10:00 a.m.	9.1	7.0	13.3
11:00 a.m.	5.2	4.1	7.5
12:00 p.m.	5.1	4.3	6.5
1:00 p.m.	4.9	3.2	8.3
2:00 p.m.	4.1	3.2	5.8
3:00 p.m.	4.1	4.3	3.8
4:00 p.m.	4.6	4.3	5.2
5:00 p.m.	3.9	3.6	4.5
6:00 p.m.	6.3	7.1	4.7
7:00 p.m.	10.2	10.9	8.8
8:00 p.m.	3.9	4.0	3.8
9:00 p.m.	2.3	2.8	1.3
10:00 p.m.	2.1	2.3	1.8
11:00 p.m.	1.8	1.6	2.2



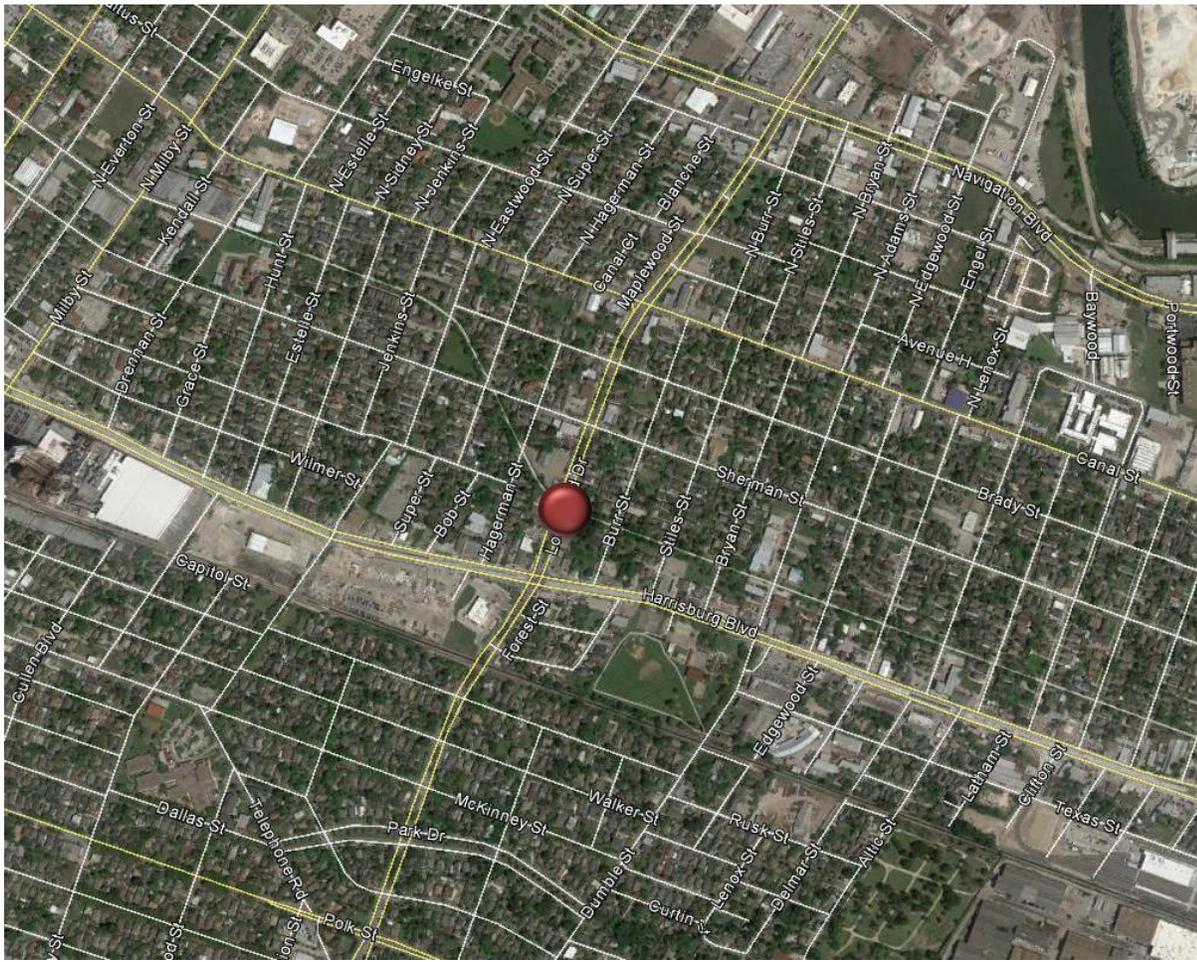
**Counter #3**

Harrisburg Trail at Lockwood Drive

Location Information		
Location Name	Harrisburg Trail at Lockwood Drive	
Location Description	Harrisburg Trail at Lockwood Drive (East of Roadway)	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks & Recreation Department	
GPS Coordinates	29°44'41"N, 95°19'41"W	
Surrounding Land Uses	North	Commercial, Single-Family Residential
	South	Commercial, Single-Family Residential
	East	Single-Family Residential
	West	Commercial, Single-Family Residential
What object was device secured to?	Sign Post (Bike Route/Directional Signs)	
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	Excellent	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	Yes	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Nearby (Bus Stops 400' South at Harrisburg/Lockwood and 500' North at Sherman/Lockwood)	
Shade	Yes	
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 weekdays than during weekends.</li> <li>• On weekdays, usage peaks in the evening (5:00 p.m. – 8:00 p.m.). There is a less pronounced increase in usage in the morning (7:00 a.m. – 10:00 a.m.).</li> <li>• On weekends, usage peaks in the evening (5:00 p.m. – 9:00 p.m.).</li> </ul>

**Location Information: Map**



**Location Information: Photos**

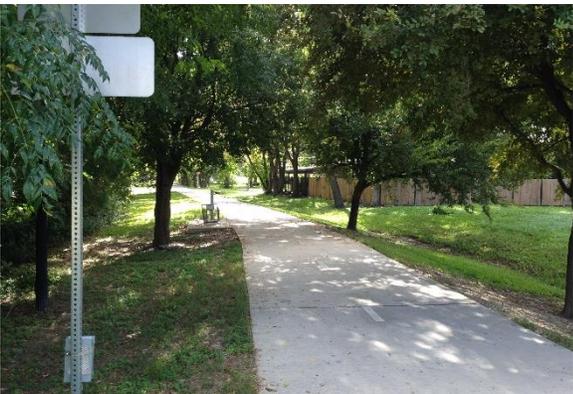


Image 5: Harrisburg Trail Facing East from Lockwood Drive

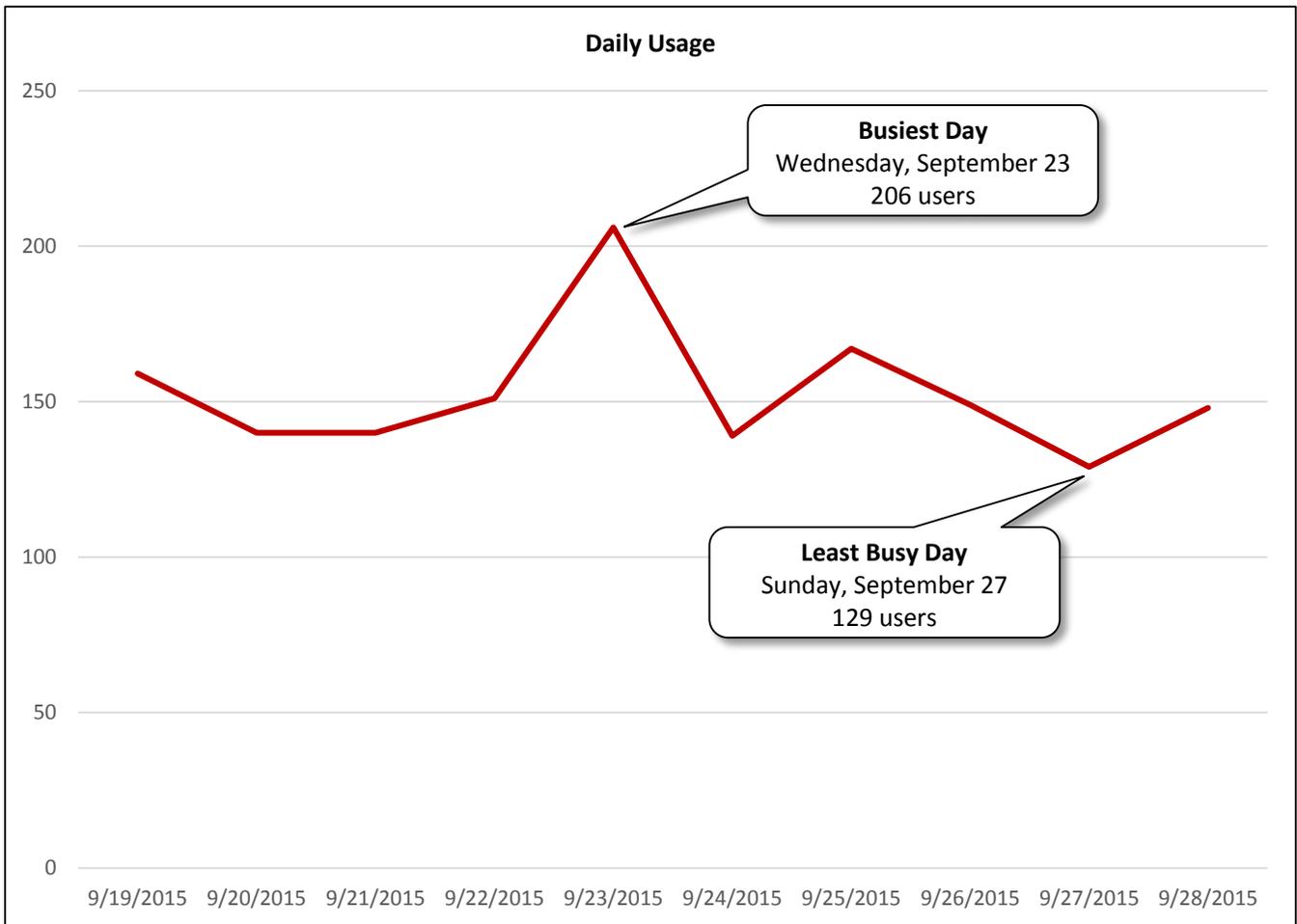


Image 6: Harrisburg Trail Facing West towards Lockwood Drive

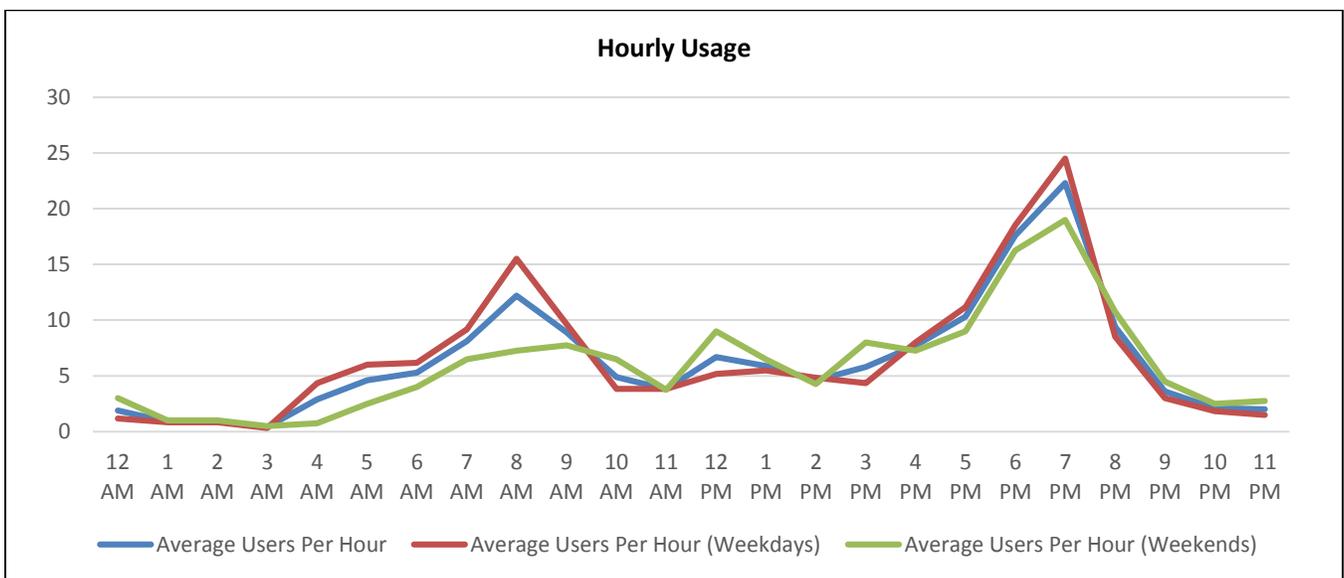
<b>Daily Usage</b>				
<b>Date</b>	<b>Users</b>	<b>Select Weather Data*</b>		
		<b>High Temperature (°F)</b>	<b>Low Temperature (°F)</b>	<b>Precipitation (inches)</b>
Saturday, September 19, 2015	159	91	68	0
Sunday, September 20, 2015	140	92	70	0
Monday, September 21, 2015	140	92	73	T
Tuesday, September 22, 2015	151	92	72	0
Wednesday, September 23, 2015	206	93	68	0
Thursday, September 24, 2015	139	90	67	0
Friday, September 25, 2015	167	93	71	0
Saturday, September 26, 2015	149	94	68	0
Sunday, September 27, 2015	129	78	69	0.08
Monday, September 28, 2015	148	76	70	0.12
<b>Total</b>	1,528			
<b>Average Daily Usage</b>	153			
<b>Average Daily Usage (Weekday)</b>	159			
<b>Average Daily Usage (Weekend)</b>	144			

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

<b>Notes</b>
<ul style="list-style-type: none"> <li>Harris County Constable Precinct #6 reported that this counter was vandalized on Friday, October 2. Based upon analysis of the data retrieved, it seems that the vandalism occurred the night of Monday, September 28. This counter only collected data from September 19, 2015 through September 28, 2015.</li> </ul>



Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	1.9	1.2	3.0
1:00 a.m.	0.9	0.8	1.0
2:00 a.m.	0.9	0.8	1.0
3:00 a.m.	0.4	0.3	0.5
4:00 a.m.	2.9	4.3	0.8
5:00 a.m.	4.6	6.0	2.5
6:00 a.m.	5.3	6.2	4.0
7:00 a.m.	8.1	9.2	6.5
8:00 a.m.	12.2	15.5	7.3
9:00 a.m.	8.9	9.7	7.8
10:00 a.m.	4.9	3.8	6.5
11:00 a.m.	3.8	3.8	3.8
12:00 p.m.	6.7	5.2	9.0
1:00 p.m.	5.9	5.5	6.5
2:00 p.m.	4.6	4.8	4.3
3:00 p.m.	5.8	4.3	8.0
4:00 p.m.	7.7	8.0	7.3
5:00 p.m.	10.3	11.2	9.0
6:00 p.m.	17.6	18.5	16.3
7:00 p.m.	22.3	24.5	19.0
8:00 p.m.	9.4	8.5	10.8
9:00 p.m.	3.6	3.0	4.5
10:00 p.m.	2.1	1.8	2.5
11:00 p.m.	2.0	1.5	2.8



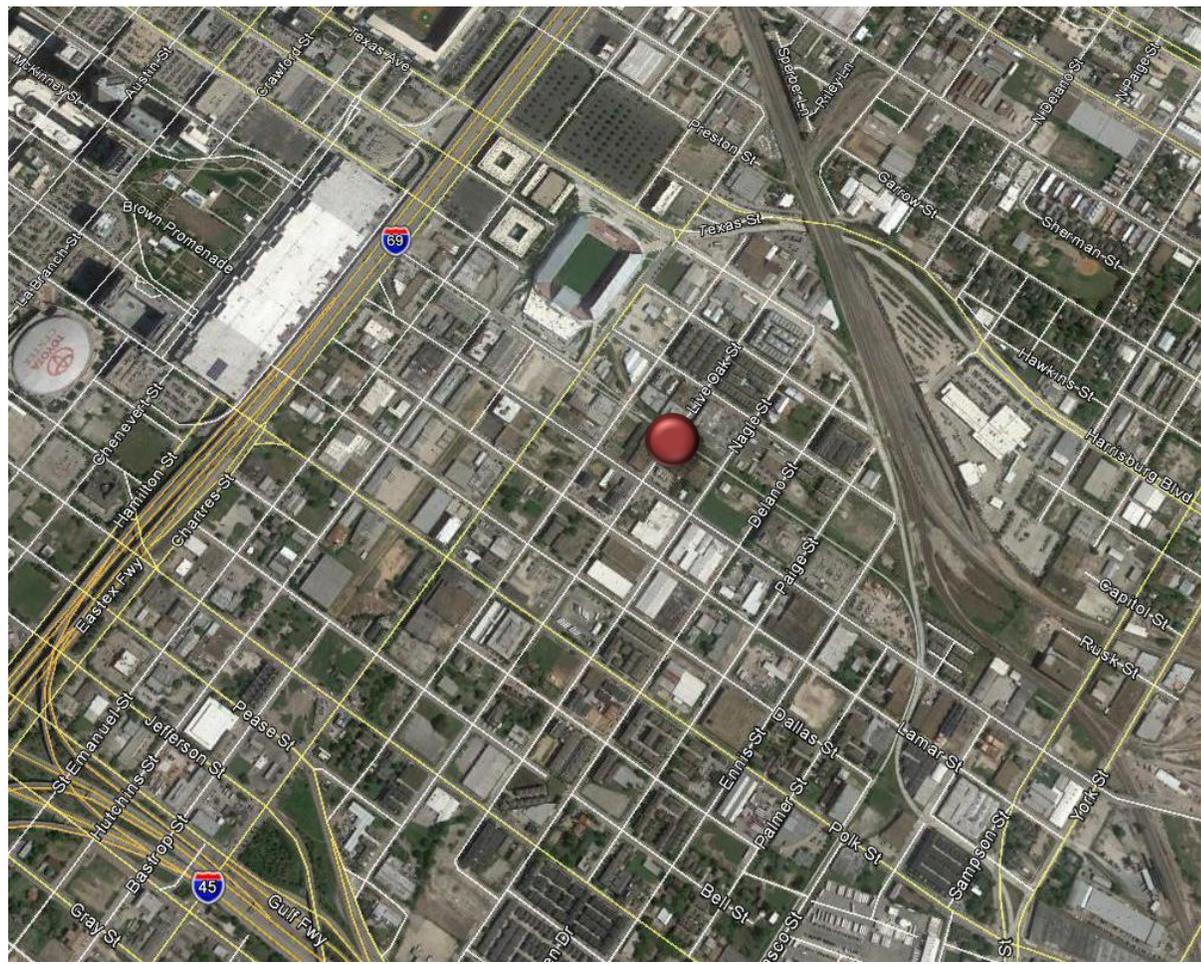
**Counter #4**

## Columbia Tap Trail at Live Oak Street

Location Information		
Location Name	Columbia Tap Trail at Live Oak Street	
Location Description	Columbia Tap Trail at Live Oak Street (East of Roadway)	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks & Recreation Department	
GPS Coordinates	29°44'58.24"N, 95°21'2.90"W	
Surrounding Land Uses	North	Industrial, Multi-Family Residential
	South	Industrial
	East	Industrial
	West	Industrial, BBVA Compass Stadium
What object was device secured to?	Sign Post (Stop/Street Signs)	
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 (Trees Planted at Regular Intervals)	
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 (Bus Stop 350' South at McKinney/Live Oak)	
Shade	No (Small 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 slightly higher usage on weekdays than during weekends.</li> <li>• On weekdays, usage is highest in the evening (5:00 p.m. – 8:00 p.m.).</li> <li>• On weekends, usage peaks in the morning (8:00 a.m. – 12:00 p.m.). There is a less pronounced increase in usage in the evening (6:00 p.m. – 8:00 p.m.).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



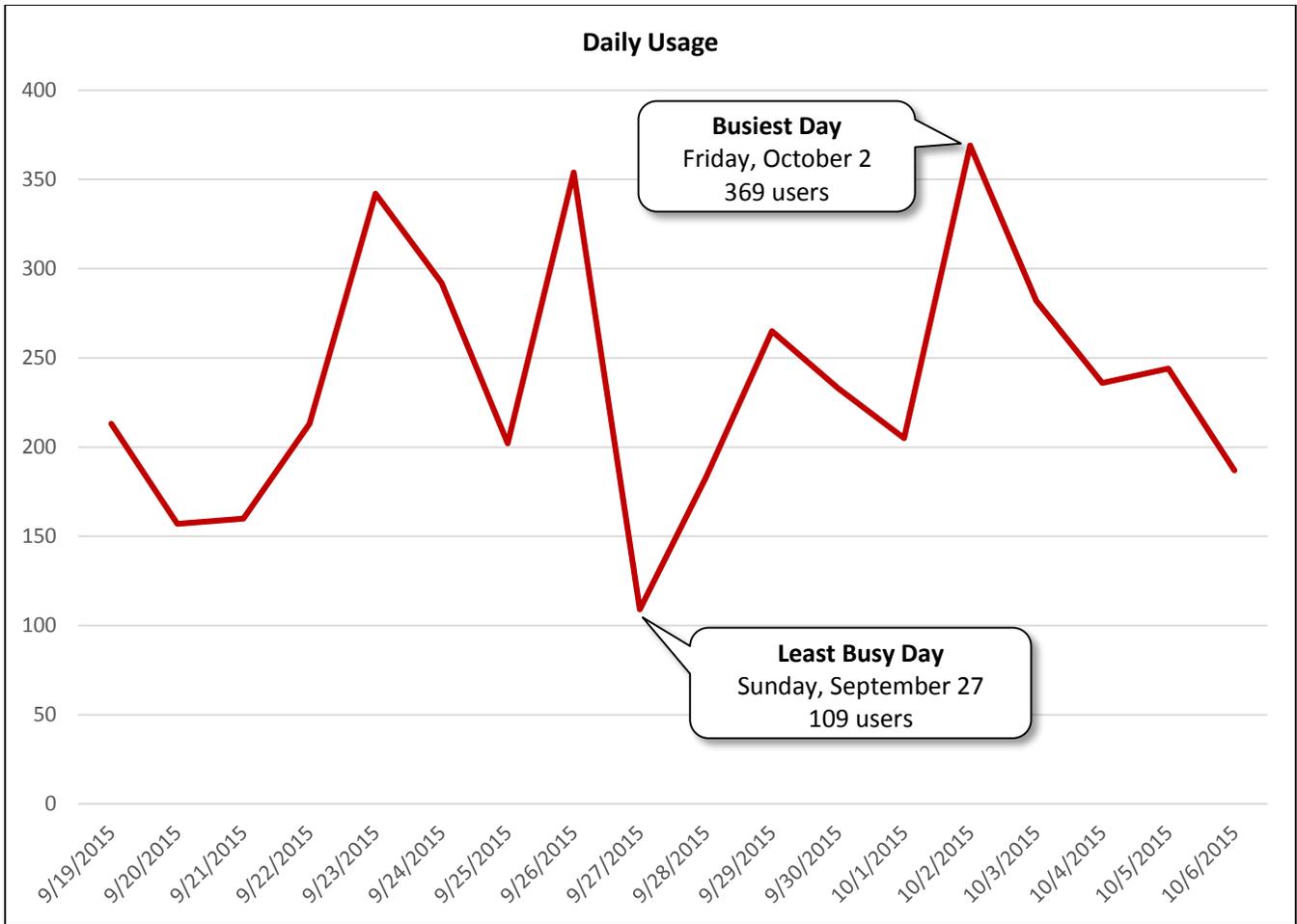
Image 7: Columbia Tap Trail Facing East from Live Oak Street



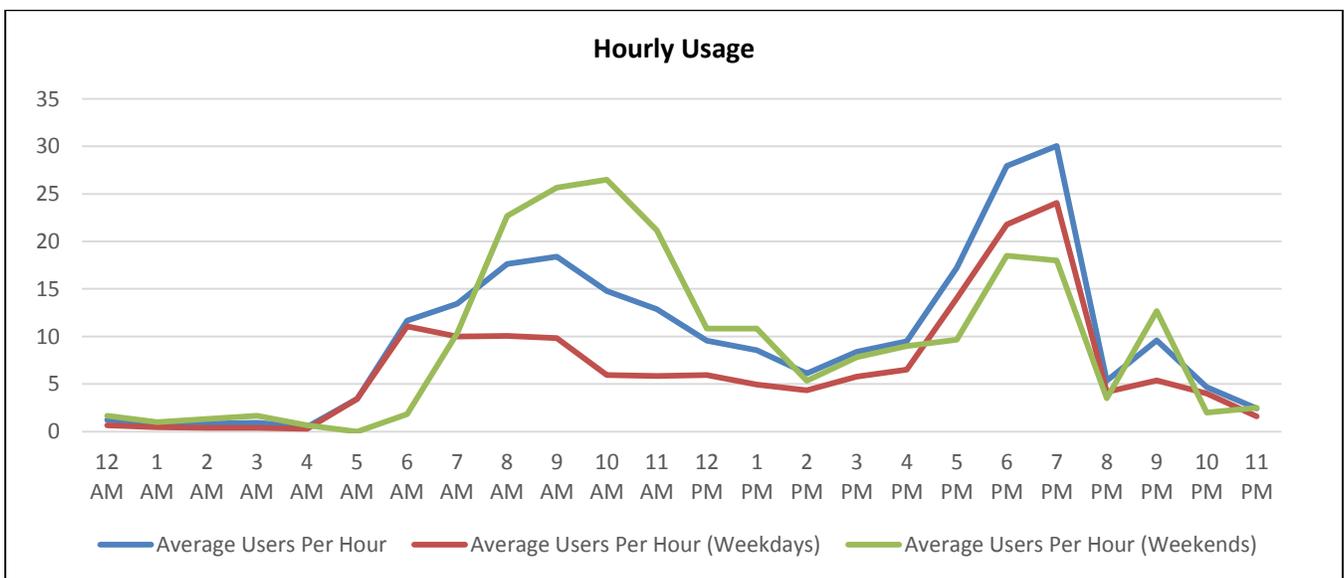
Image 8: Columbia Tap Trail Facing West Towards Live Oak Street

<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>
Saturday, September 19, 2015	213	91	68	0
Sunday, September 20, 2015	157	92	70	0
Monday, September 21, 2015	160	92	73	T
Tuesday, September 22, 2015	213	92	72	0
Wednesday, September 23, 2015	342	93	68	0
Thursday, September 24, 2015	292	90	67	0
Friday, September 25, 2015	202	93	71	0
Saturday, September 26, 2015	354	94	68	0
Sunday, September 27, 2015	109	78	69	0.08
Monday, September 28, 2015	183	76	70	0.12
Tuesday, September 29, 2015	265	90	69	T
Wednesday, September 30, 2015	233	92	70	0
Thursday, October 1, 2015	205	90	68	0
Friday, October 2, 2015	369	84	60	0
Saturday, October 3, 2015	282	84	55	0
Sunday, October 4, 2015	236	84	56	0
Monday, October 5, 2015	244	86	57	0
Tuesday, October 6, 2015	187	89	65	0
<b>Total</b>	4,246			
<b>Average Daily Usage</b>	236			
<b>Average Daily Usage (Weekday)</b>	241			
<b>Average Daily Usage (Weekend)</b>	225			

\*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.	1.2	0.7	1.7
1:00 a.m.	0.8	0.4	1.0
2:00 a.m.	0.8	0.4	1.3
3:00 a.m.	0.9	0.4	1.7
4:00 a.m.	0.5	0.3	0.7
5:00 a.m.	3.4	3.4	0.0
6:00 a.m.	11.7	11.1	1.8
7:00 a.m.	13.4	10.0	10.3
8:00 a.m.	17.6	10.1	22.7
9:00 a.m.	18.4	9.8	25.7
10:00 a.m.	14.8	5.9	26.5
11:00 a.m.	12.9	5.8	21.2
12:00 p.m.	9.6	5.9	10.8
1:00 p.m.	8.6	4.9	10.8
2:00 p.m.	6.1	4.3	5.3
3:00 p.m.	8.4	5.8	7.8
4:00 p.m.	9.5	6.5	9.0
5:00 p.m.	17.2	14.0	9.7
6:00 p.m.	27.9	21.8	18.5
7:00 p.m.	30.1	24.1	18.0
8:00 p.m.	5.3	4.2	3.5
9:00 p.m.	9.6	5.4	12.7
10:00 p.m.	4.7	4.0	2.0
11:00 p.m.	2.4	1.6	2.5



**Counter #5**

## Columbia Tap Trail at Webster Street

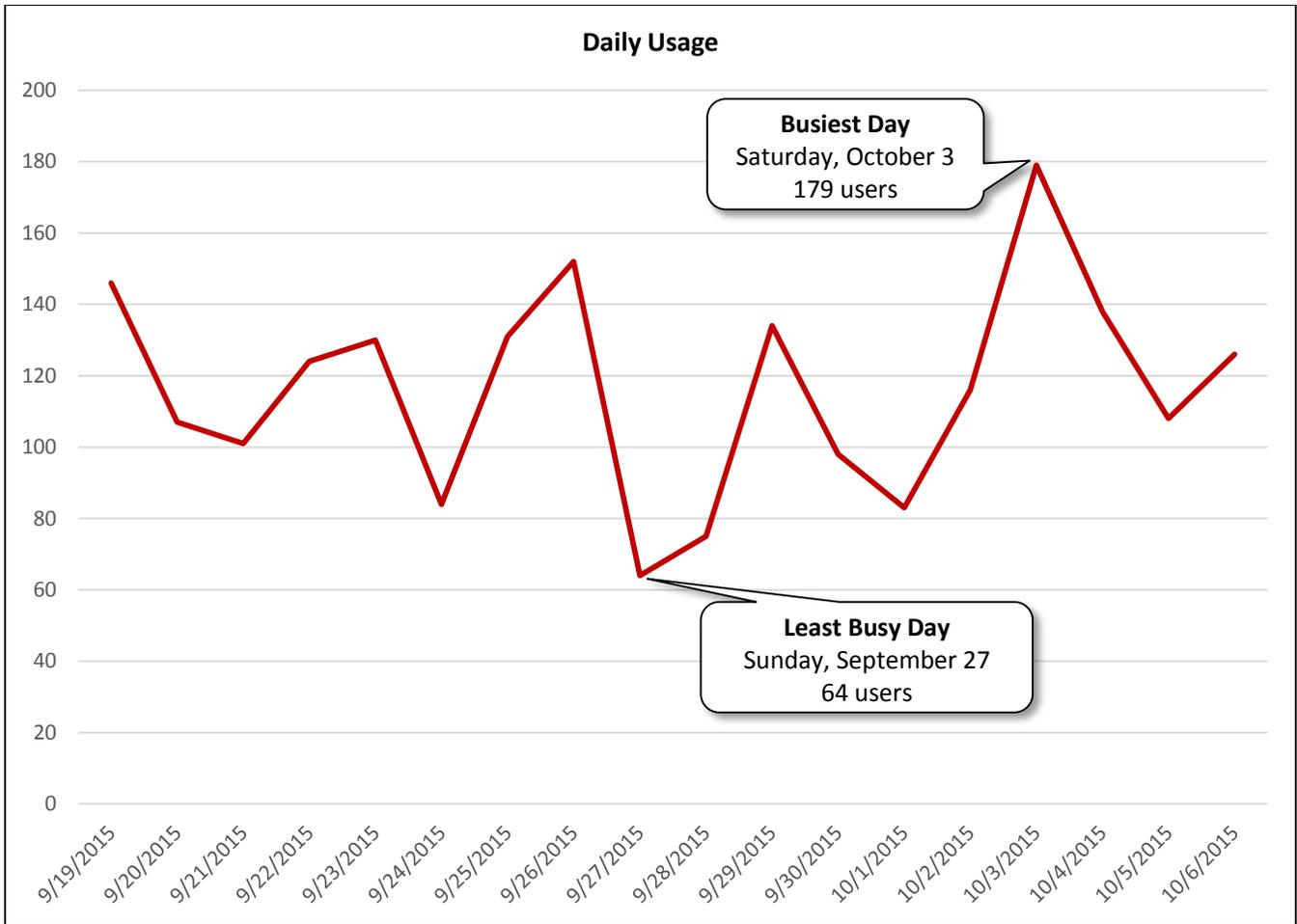
Location Information		
Location Name	Columbia Tap Trail at Webster Street	
Location Description	Columbia Tap Trail at Webster Street (North of Roadway)	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks & Recreation Department	
GPS Coordinates	29°44'14.72"N, 95°21'9.36"W	
Surrounding Land Uses	North	Multi-Family Residential, Interstate 45
	South	Single-Family Residential, Institutional (Church), Vacant Land
	East	Institutional (Church), Vacant Land
	West	Multi-Family Residential, Single-Family Residential
What object was device secured to?	Sign Post (No Motor Vehicles Sign)	
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	None	
Sidewalk Pavement Type	Concrete	
ADA Ramps	Yes	
Sidewalk Condition	Good	
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 Stop 300' Northeast at Interstate 45 Frontage Road/Tierwester)	
Shade	No	
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. – 11:00 a.m.) and generally decreases as the day progresses.</li> <li>• On weekends, usage is highest in the morning (8:00 a.m. – 12:00 p.m.) and generally decreases as the day progresses.</li> </ul>

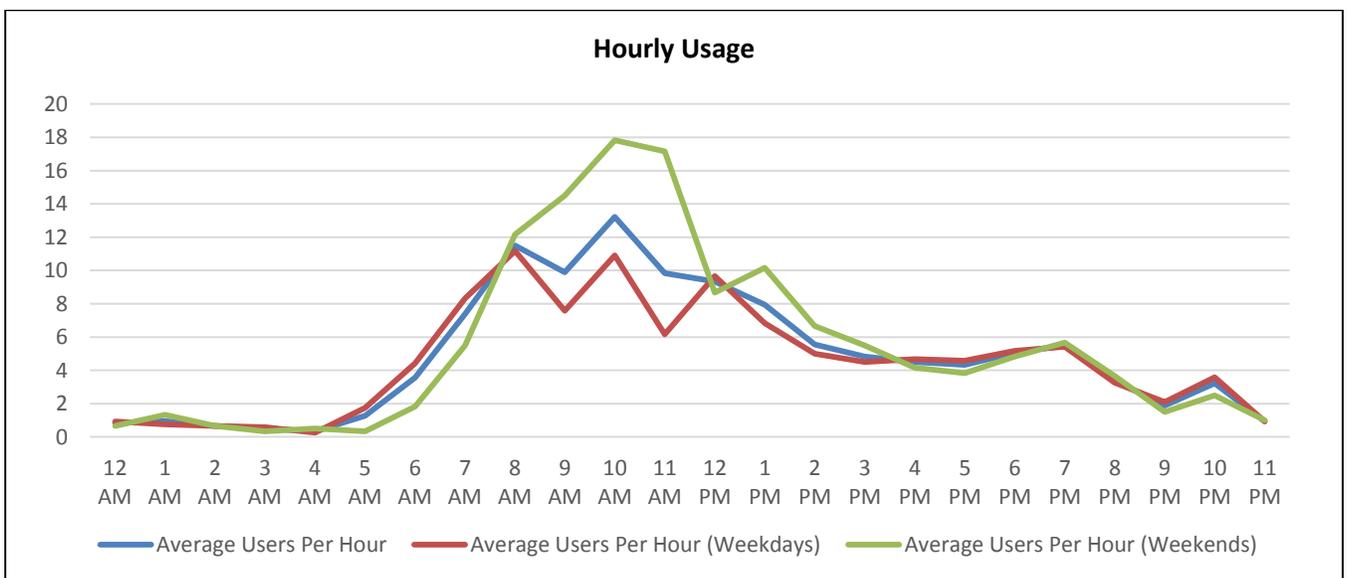


<b>Daily Usage</b>				
<b>Date</b>	<b>Users</b>	<b>Select Weather Data*</b>		
		<b>High Temperature (°F)</b>	<b>Low Temperature (°F)</b>	<b>Precipitation (inches)</b>
Saturday, September 19, 2015	146	91	68	0
Sunday, September 20, 2015	107	92	70	0
Monday, September 21, 2015	101	92	73	T
Tuesday, September 22, 2015	124	92	72	0
Wednesday, September 23, 2015	130	93	68	0
Thursday, September 24, 2015	84	90	67	0
Friday, September 25, 2015	131	93	71	0
Saturday, September 26, 2015	152	94	68	0
Sunday, September 27, 2015	64	78	69	0.08
Monday, September 28, 2015	75	76	70	0.12
Tuesday, September 29, 2015	134	90	69	T
Wednesday, September 30, 2015	98	92	70	0
Thursday, October 1, 2015	83	90	68	0
Friday, October 2, 2015	116	84	60	0
Saturday, October 3, 2015	179	84	55	0
Sunday, October 4, 2015	138	84	56	0
Monday, October 5, 2015	108	86	57	0
Tuesday, October 6, 2015	126	89	65	0
<b>Total</b>	2,096			
<b>Average Daily Usage</b>	116			
<b>Average Daily Usage (Weekday)</b>	109			
<b>Average Daily Usage (Weekend)</b>	131			

\*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.	0.8	0.9	0.7
1:00 a.m.	0.9	0.8	1.3
2:00 a.m.	0.7	0.7	0.7
3:00 a.m.	0.5	0.6	0.3
4:00 a.m.	0.3	0.3	0.5
5:00 a.m.	1.3	1.8	0.3
6:00 a.m.	3.6	4.4	1.8
7:00 a.m.	7.4	8.3	5.5
8:00 a.m.	11.5	11.2	12.2
9:00 a.m.	9.9	7.6	14.5
10:00 a.m.	13.2	10.9	17.8
11:00 a.m.	9.8	6.2	17.2
12:00 p.m.	9.3	9.7	8.7
1:00 p.m.	7.9	6.8	10.2
2:00 p.m.	5.6	5.0	6.7
3:00 p.m.	4.8	4.5	5.5
4:00 p.m.	4.5	4.7	4.2
5:00 p.m.	4.3	4.6	3.8
6:00 p.m.	5.1	5.2	4.8
7:00 p.m.	5.5	5.4	5.7
8:00 p.m.	3.4	3.3	3.7
9:00 p.m.	1.9	2.1	1.5
10:00 p.m.	3.2	3.6	2.5
11:00 p.m.	0.9	0.9	1.0



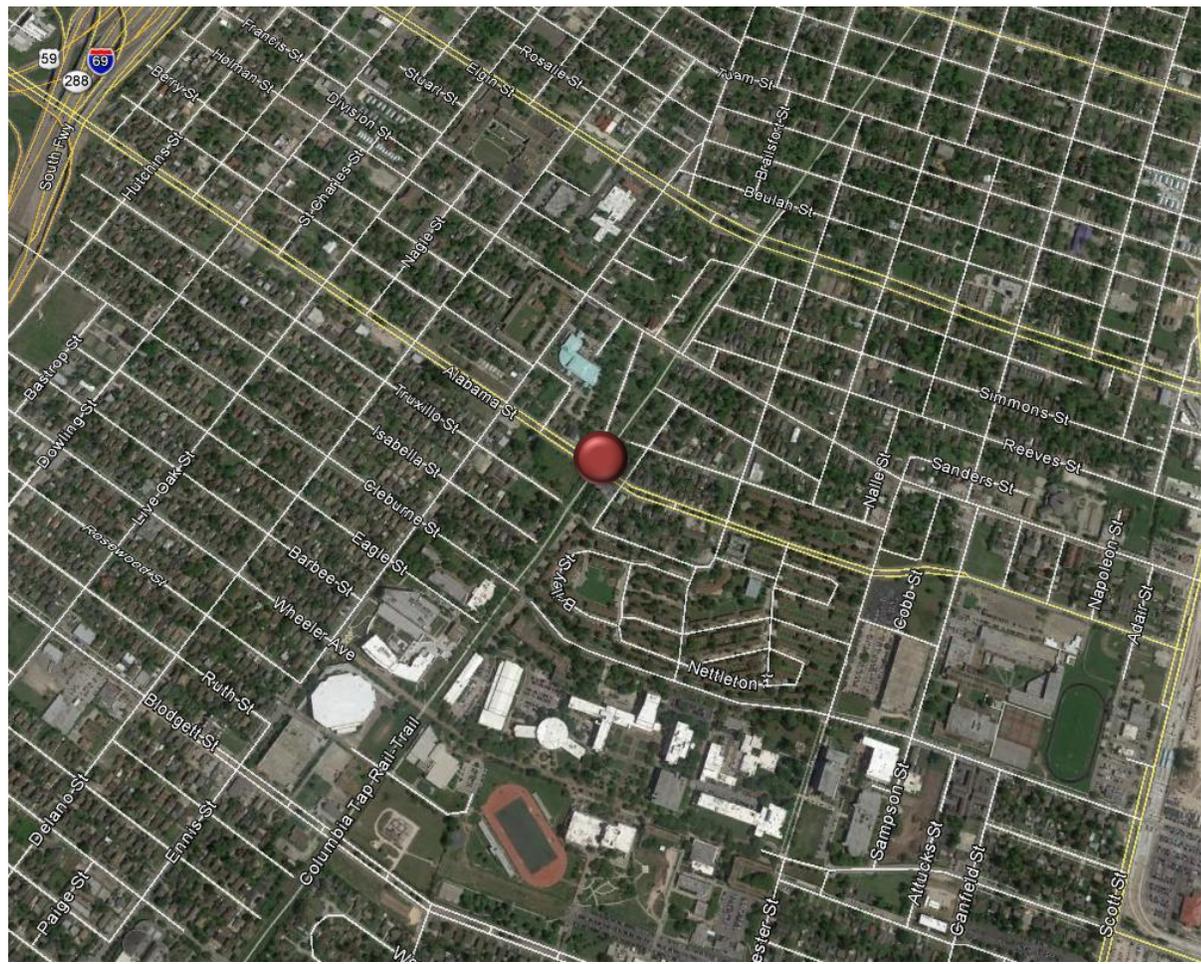
**Counter #6**

Columbia Tap Trail at Alabama Street

Location Information	
Location Name	Columbia Tap Trail at Alabama Street
Location Description	Columbia Tap Trail at Alabama Street (North of Roadway)
Jurisdiction	City of Houston
Agency Deployed	City of Houston: Parks & Recreation Department
GPS Coordinates	29°43'36.19"N, 95°21'39.80"W
Surrounding Land Uses	North   Single-Family Residential
	South   Single-Family Residential, Multi-Family Residential, Commercial, Texas Southern University
	East   Single-Family Residential, Multi-Family Residential, Commercial
	West   Single-Family Residential, Institutional (Church), Government Offices
What object was device secured to?	Sign Post (Columbia Tap Rail to Trail Sign)
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	None
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 (Bus Stop 650' West at Ennis/Alabama)
Shade	No
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 weekdays than during weekends.</li> <li>• On weekdays, usage remains relatively steady between sunrise and sunset. Usage peaks in the late afternoon (3:00 p.m. – 4:00 p.m.).</li> <li>• On weekends, usage remains relatively steady between sunrise and sunset. Usage peaks midday (12:00 p.m. – 1:00 p.m.).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



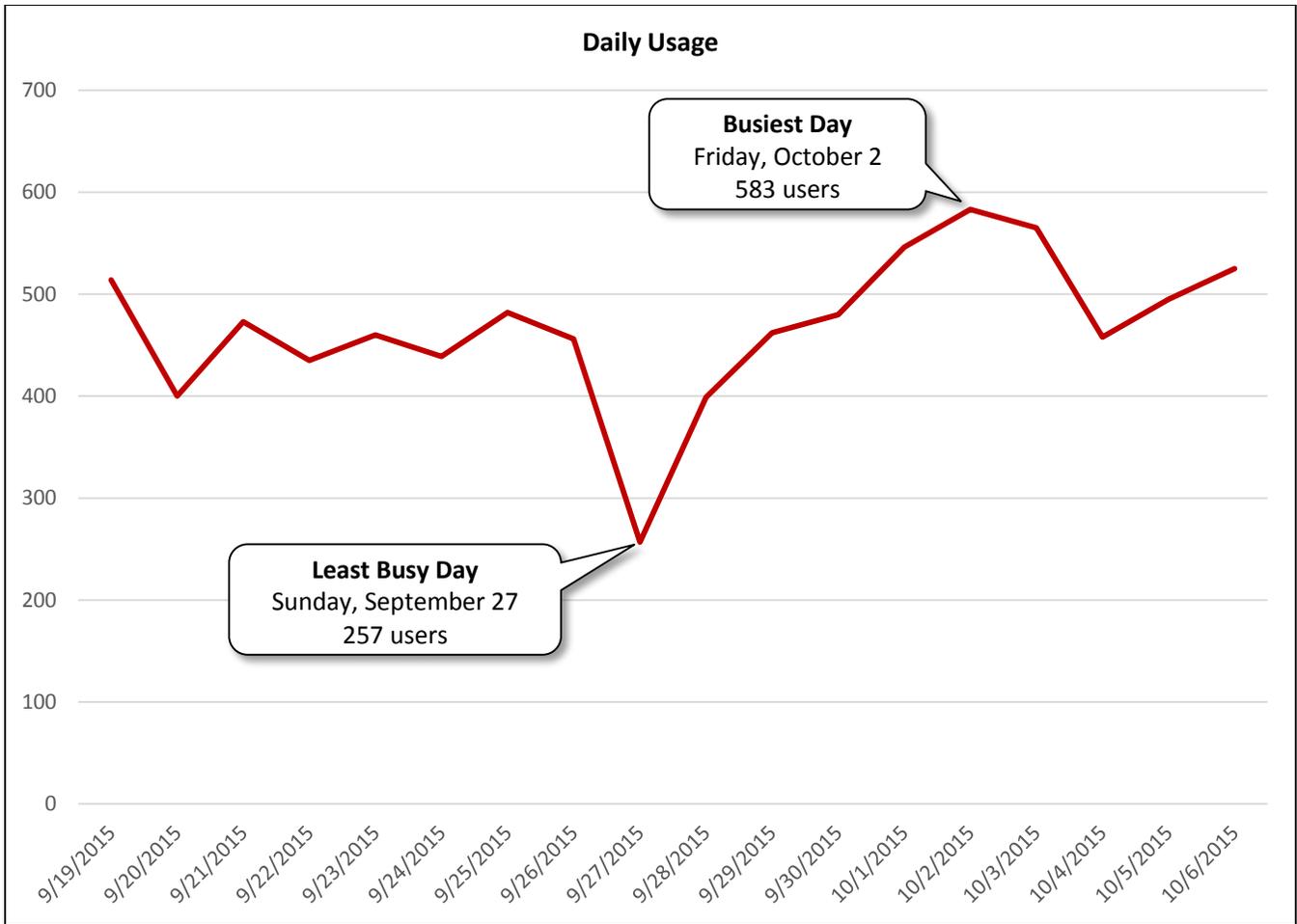
Image 11: Columbia Tap Trail Facing Northeast from Alabama Street



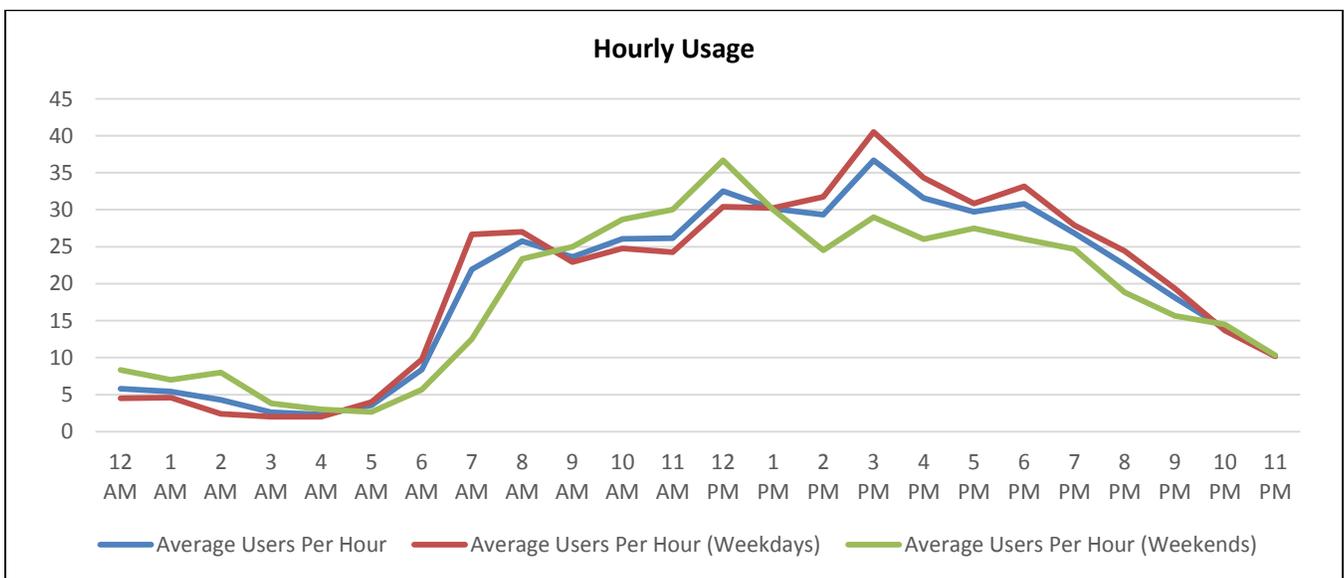
Image 12: Columbia Tap Trail Facing Southwest towards Alabama Street

<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>
Saturday, September 19, 2015	514	91	68	0
Sunday, September 20, 2015	400	92	70	0
Monday, September 21, 2015	473	92	73	T
Tuesday, September 22, 2015	435	92	72	0
Wednesday, September 23, 2015	460	93	68	0
Thursday, September 24, 2015	439	90	67	0
Friday, September 25, 2015	482	93	71	0
Saturday, September 26, 2015	456	94	68	0
Sunday, September 27, 2015	257	78	69	0.08
Monday, September 28, 2015	399	76	70	0.12
Tuesday, September 29, 2015	462	90	69	T
Wednesday, September 30, 2015	480	92	70	0
Thursday, October 1, 2015	546	90	68	0
Friday, October 2, 2015	583	84	60	0
Saturday, October 3, 2015	565	84	55	0
Sunday, October 4, 2015	458	84	56	0
Monday, October 5, 2015	495	86	57	0
Tuesday, October 6, 2015	525	89	65	0
<b>Total</b>	<b>8,429</b>			
<b>Average Daily Usage</b>	<b>468</b>			
<b>Average Daily Usage (Weekday)</b>	<b>482</b>			
<b>Average Daily Usage (Weekend)</b>	<b>442</b>			

\*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.	5.8	4.5	8.3
1:00 a.m.	5.4	4.6	7.0
2:00 a.m.	4.3	2.4	8.0
3:00 a.m.	2.6	2.0	3.8
4:00 a.m.	2.3	2.0	3.0
5:00 a.m.	3.6	4.0	2.7
6:00 a.m.	8.4	9.8	5.7
7:00 a.m.	21.9	26.7	12.5
8:00 a.m.	25.8	27.0	23.3
9:00 a.m.	23.6	22.9	25.0
10:00 a.m.	26.1	24.8	28.7
11:00 a.m.	26.2	24.3	30.0
12:00 p.m.	32.5	30.4	36.7
1:00 p.m.	30.2	30.3	30.0
2:00 p.m.	29.3	31.8	24.5
3:00 p.m.	36.7	40.5	29.0
4:00 p.m.	31.6	34.3	26.0
5:00 p.m.	29.7	30.8	27.5
6:00 p.m.	30.8	33.2	26.0
7:00 p.m.	26.8	27.9	24.7
8:00 p.m.	22.6	24.4	18.8
9:00 p.m.	18.1	19.3	15.7
10:00 p.m.	13.9	13.7	14.5
11:00 p.m.	10.2	10.2	10.3



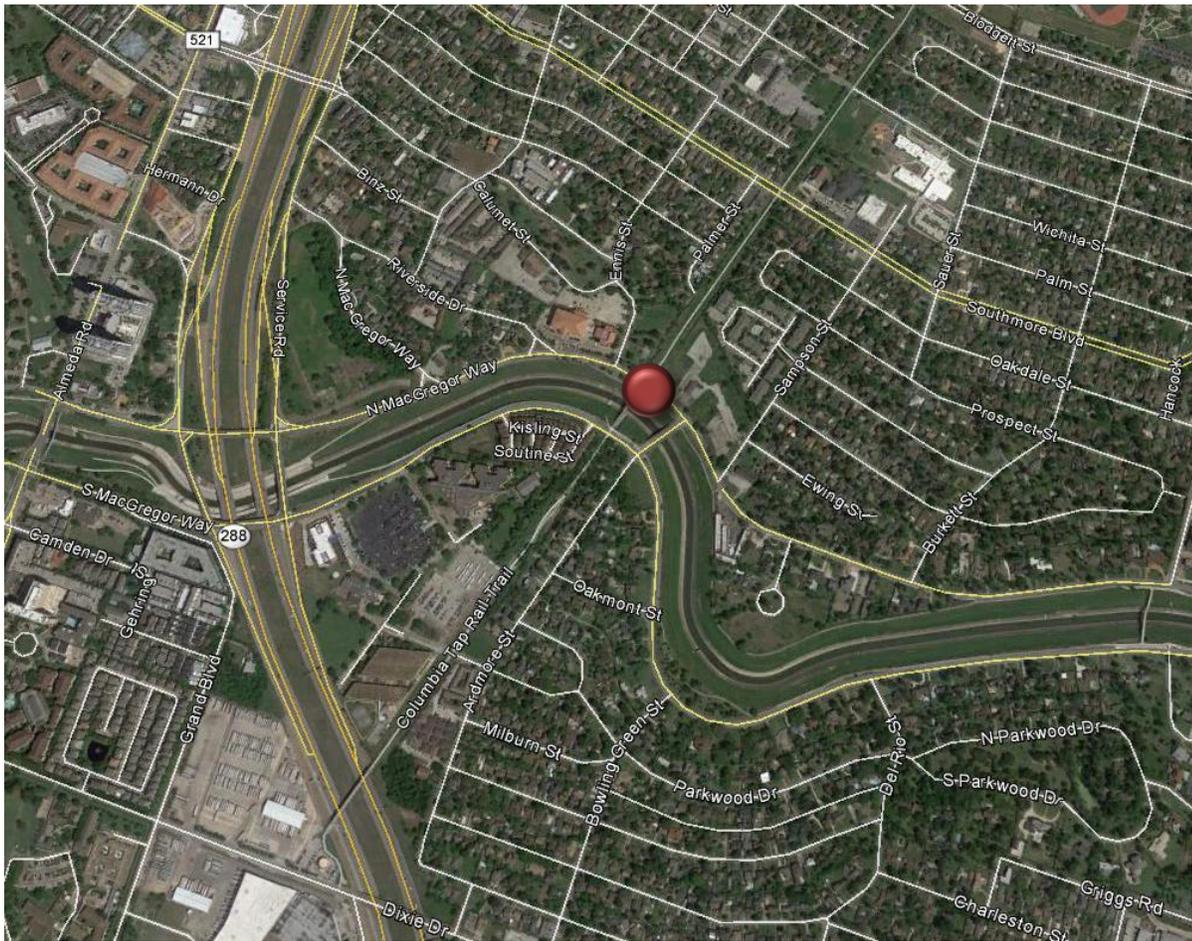
**Counter #7**

Columbia Tap Trail at North MacGregor Way

Location Information		
Location Name	Columbia Tap Trail at North MacGregor Way	
Location Description	Columbia Tap Trail at North MacGregor Way (North of Roadway)	
Jurisdiction	City of Houston	
Agency Deployed	City of Houston: Parks & Recreation Department	
GPS Coordinates	29°42'50.60"N, 95°22'15.95"W	
Surrounding Land Uses	North	Single-Family Residential, Multi-Family Residential
	South	Brays Bayou, Single-Family Residential, Multi-Family Residential
	East	Vacant Land, Multi-Family Residential, Single-Family Residential
	West	Institutional (Church), Single-Family Residential
What object was device secured to?	Sign Post (No Motor Vehicles Sign)	
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	None	
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 (Bus Stops 100' East on N. MacGregor and 200' West at Ennis/N. MacGregor)	
Shade	No	
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 (7:00 a.m. – 9:00 a.m.). There is a less pronounced increase in usage in the evening (6:00 p.m. – 8:00 p.m.).</li> <li>• On weekends, usage is highest in the morning (8:00 a.m. – 12:00 p.m.) and generally decreases as the day progresses.</li> </ul>

**Location Information: Map**



**Location Information: Photos**



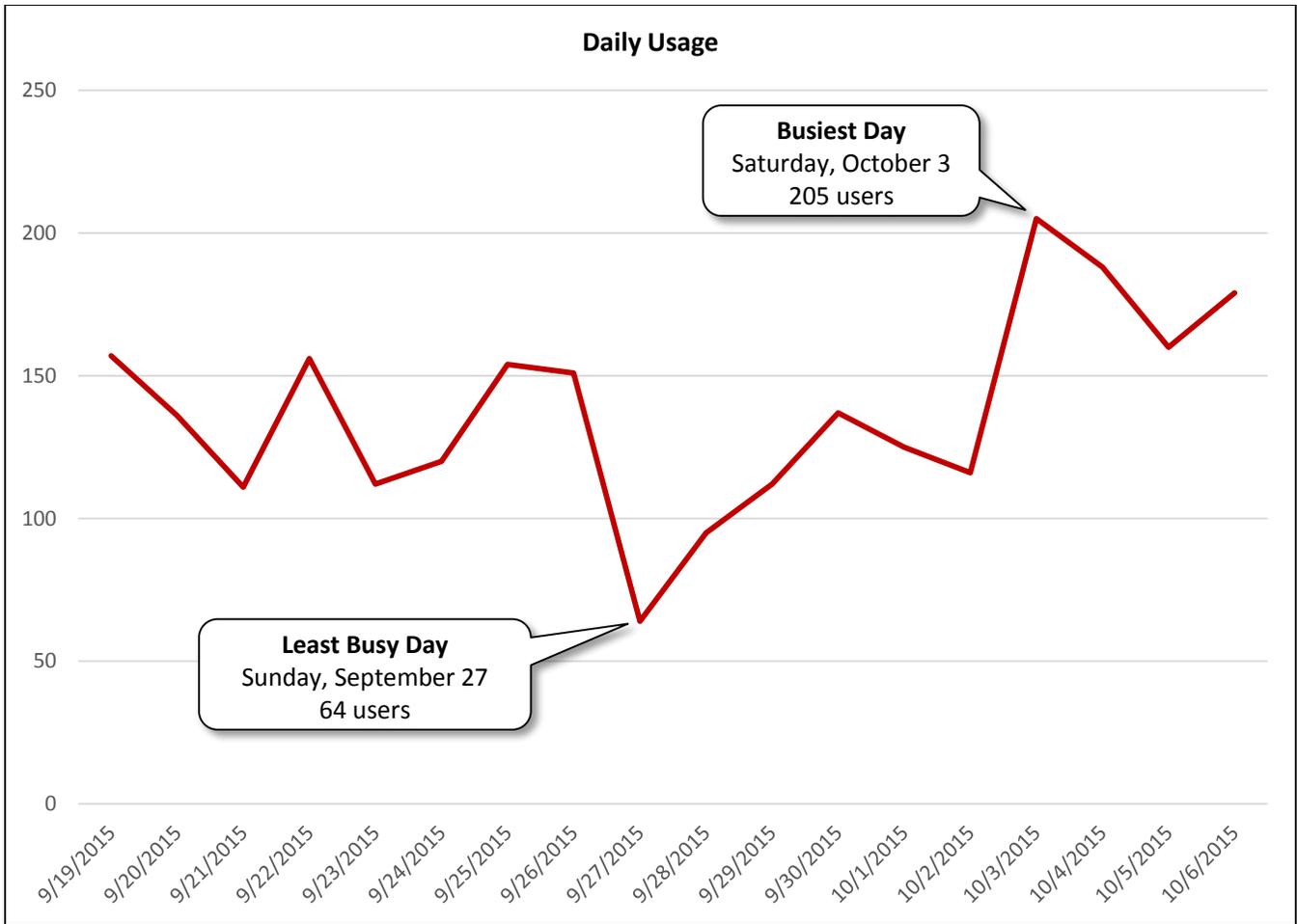
Image 13: Columbia Tap Trail Facing Northeast from N. MacGregor Way



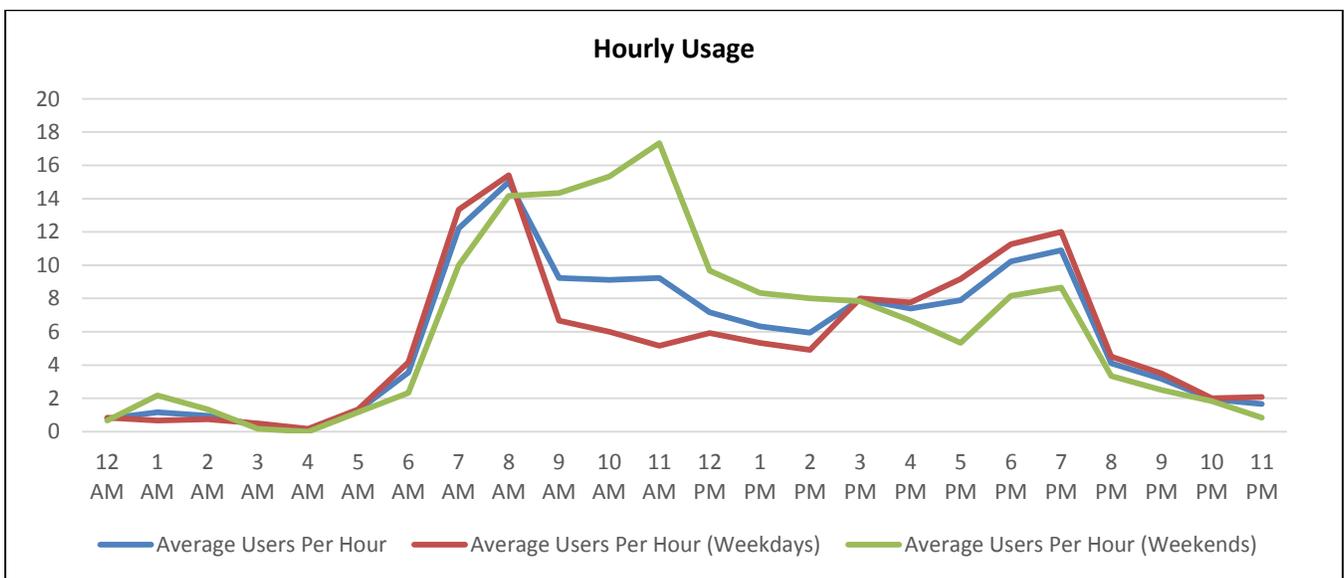
Image 14: Columbia Tap Trail Facing Southwest toward N. MacGregor Way

<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>
Saturday, September 19, 2015	157	91	68	0
Sunday, September 20, 2015	136	92	70	0
Monday, September 21, 2015	111	92	73	T
Tuesday, September 22, 2015	156	92	72	0
Wednesday, September 23, 2015	112	93	68	0
Thursday, September 24, 2015	120	90	67	0
Friday, September 25, 2015	154	93	71	0
Saturday, September 26, 2015	151	94	68	0
Sunday, September 27, 2015	64	78	69	0.08
Monday, September 28, 2015	95	76	70	0.12
Tuesday, September 29, 2015	112	90	69	T
Wednesday, September 30, 2015	137	92	70	0
Thursday, October 1, 2015	125	90	68	0
Friday, October 2, 2015	116	84	60	0
Saturday, October 3, 2015	205	84	55	0
Sunday, October 4, 2015	188	84	56	0
Monday, October 5, 2015	160	86	57	0
Tuesday, October 6, 2015	179	89	65	0
<b>Total</b>	<b>2,478</b>			
<b>Average Daily Usage</b>	<b>138</b>			
<b>Average Daily Usage (Weekday)</b>	<b>131</b>			
<b>Average Daily Usage (Weekend)</b>	<b>150</b>			

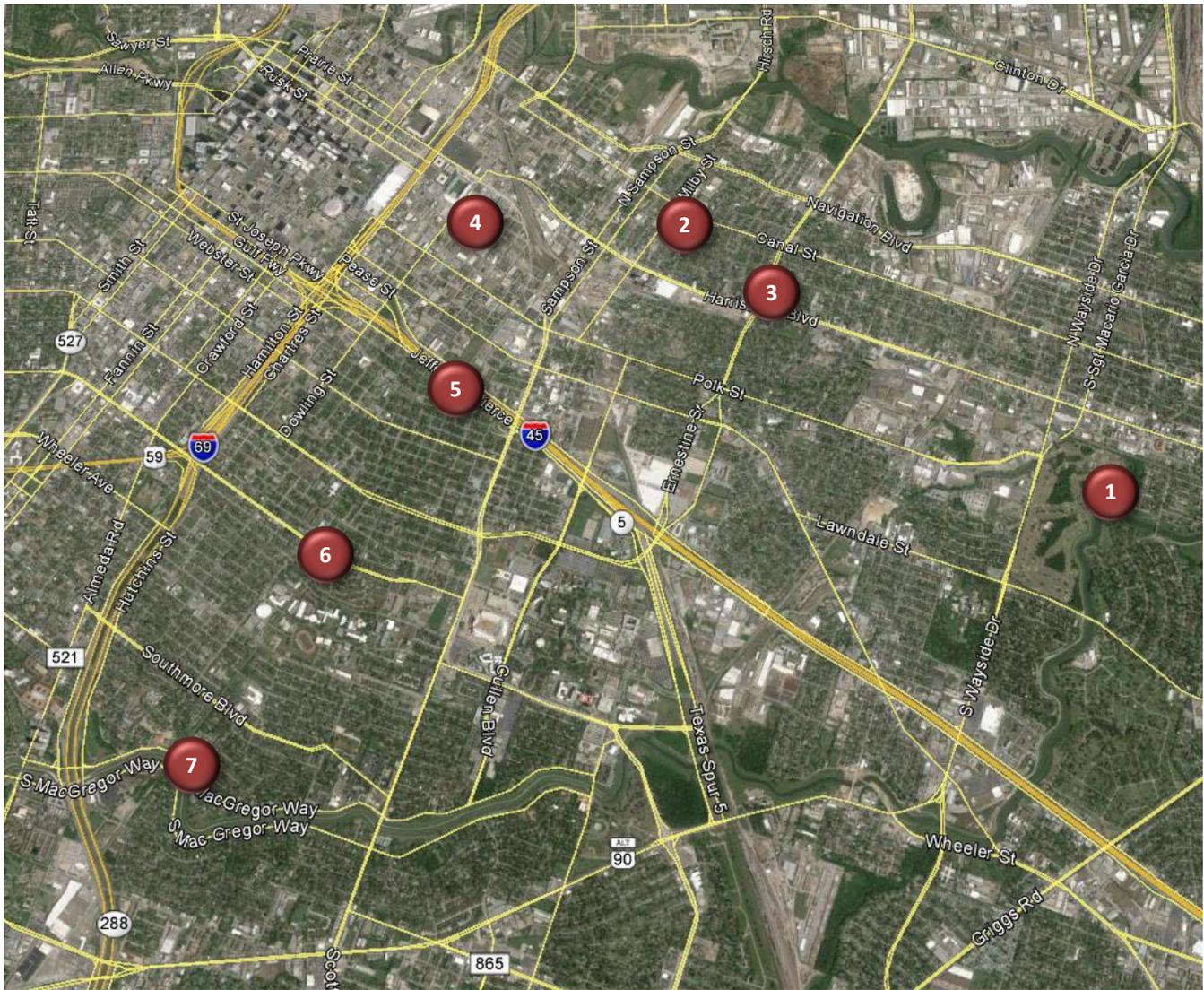
\*Weather conditions recorded at KHOU (Houston, TX).



Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.8	0.8	0.7
1:00 a.m.	1.2	0.7	2.2
2:00 a.m.	0.9	0.8	1.3
3:00 a.m.	0.4	0.5	0.2
4:00 a.m.	0.1	0.2	0.0
5:00 a.m.	1.3	1.3	1.2
6:00 a.m.	3.6	4.2	2.3
7:00 a.m.	12.2	13.3	10.0
8:00 a.m.	15.0	15.4	14.2
9:00 a.m.	9.2	6.7	14.3
10:00 a.m.	9.1	6.0	15.3
11:00 a.m.	9.2	5.2	17.3
12:00 p.m.	7.2	5.9	9.7
1:00 p.m.	6.3	5.3	8.3
2:00 p.m.	5.9	4.9	8.0
3:00 p.m.	7.9	8.0	7.8
4:00 p.m.	7.4	7.8	6.7
5:00 p.m.	7.9	9.2	5.3
6:00 p.m.	10.2	11.3	8.2
7:00 p.m.	10.9	12.0	8.7
8:00 p.m.	4.1	4.5	3.3
9:00 p.m.	3.2	3.5	2.5
10:00 p.m.	1.9	2.0	1.8
11:00 p.m.	1.7	2.1	0.8



## Counter Locations



Counter	Location	Total Users	Average Daily Usage
1	Brays Bayou at Gus Wortham Golf Course	2,174	121
2	Harrisburg Trail at Drennan Street	1,965	109
3	Harrisburg Trail at Lockwood Drive	1,528	153
4	Columbia Tap Trail at Live Oak Street	4,246	236
5	Columbia Tap Trail at Webster Street	2,096	116
6	Columbia Tap Trail at Alabama Street	8,429	468
7	Columbia Tap Trail at North MacGregor Way	2,478	138

Note: Counter #3 was only deployed September 19, 2015 through September 28, 2015. The other counters were deployed from September 19, 2015 through October 6, 2015.

## **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/>