

HOUSTON-GALVESTON AREA COUNCIL



Temporary Pedestrian/Bicycle Counters
Data Summary

Deployment Summary	
Sponsoring Agency	City of Houston: Parks & Recreation Department
Deployment Period	March 31, 2015 – April 22, 2015
Number of Counters Deployed	3
Locations Deployed	
Counter #1	White Oak Trail at Antoine Drive
Counter #2	MKT Trail at 7 th Street/Moy Street (White Oak Bayou Crossing)
Counter #3	Brays Bayou at Gus Wortham Golf Course

About the Temporary Pedestrian/Bicycle Counters

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

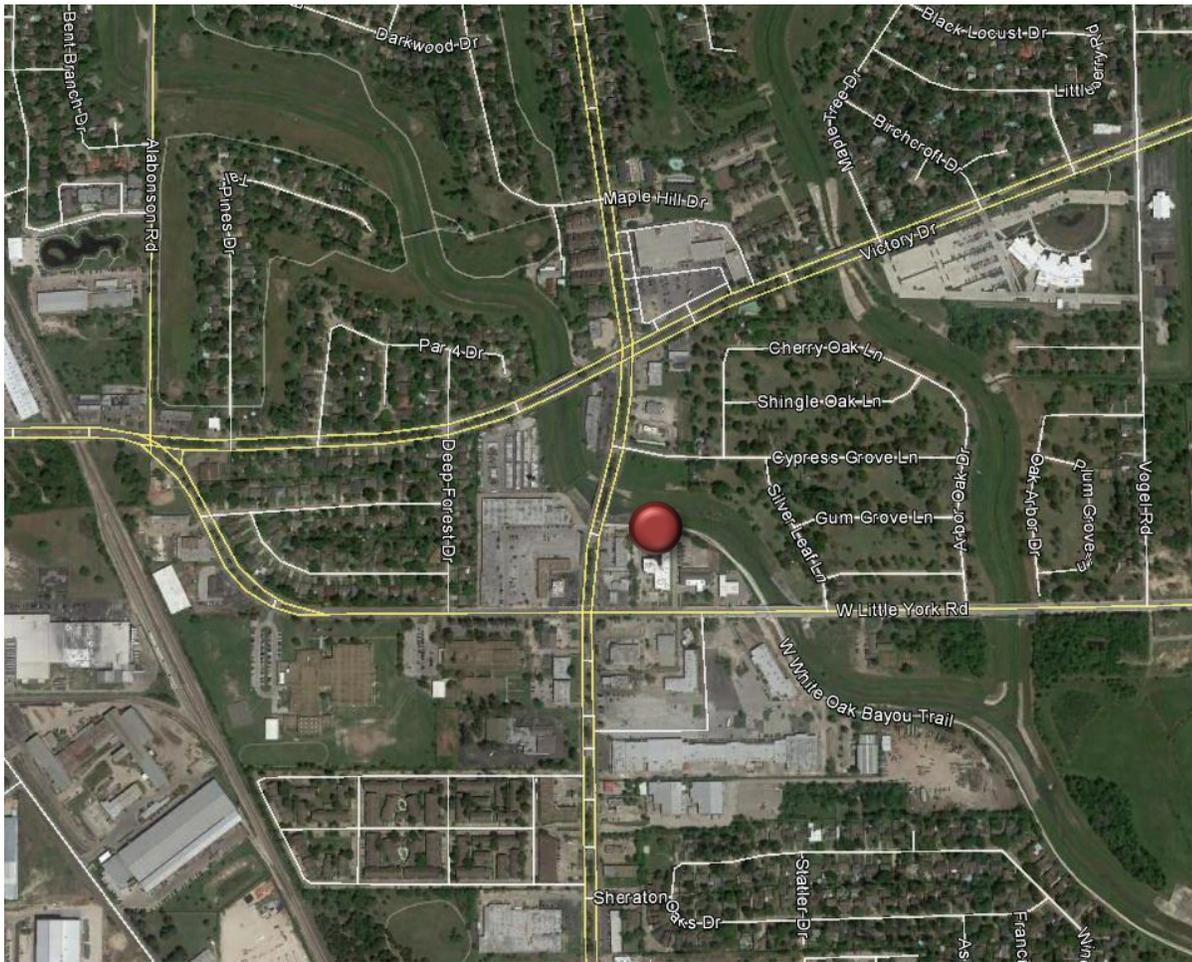
Counter #1

White Oak Trail at Antoine Drive

Location Information	
Location Name	White Oak Trail at Antoine Drive
Location Description	White Oak Trail approximately 200 feet east of Antoine Drive (Trees behind Harmony School of Excellence)
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
What object was device secured to?	Tree (200 feet east of Antoine Drive on White Oak Bayou: South Bank)
Date/Time Installed	Monday, March 30 (10:00 a.m.)
Date/Time Retrieved	Thursday, April 23 (10:00 a.m.)
Sidewalk Width	10'
Buffer Width	N/A (Off-Road Shared-Use Path)
Street Width	N/A (Off-Road Shared-Use Path)
Parallel Parking	N/A (Off-Road Shared-Use Path)
Landscaping or Trees	Mostly open with some shade trees
Sidewalk Pavement Type	Concrete
ADA Ramps	Yes
Sidewalk Condition	Excellent
Speed Limit	N/A (Off-Road Shared-Use Path)
Street Lighting	None
Street Traffic Volume	N/A (Off-Road Shared-Use Path)
Transit	Nearby (Bus Stops at Antoine Drive and W. Little York Road)
Shade	Mostly open with some shade trees
Have counts been collected by H-GAC at this location before?	No

Trends
<ul style="list-style-type: none"> • There tends to be higher usage on the weekends than during weekdays. • On weekends, peak usage is in the morning (around 8:00 a.m.). Usage gradually decreases as the day progresses. • On weekdays, usage peaks in the evening (5:00 p.m. – 6:00 p.m.).

Location Information: Map



Location Information: Photos

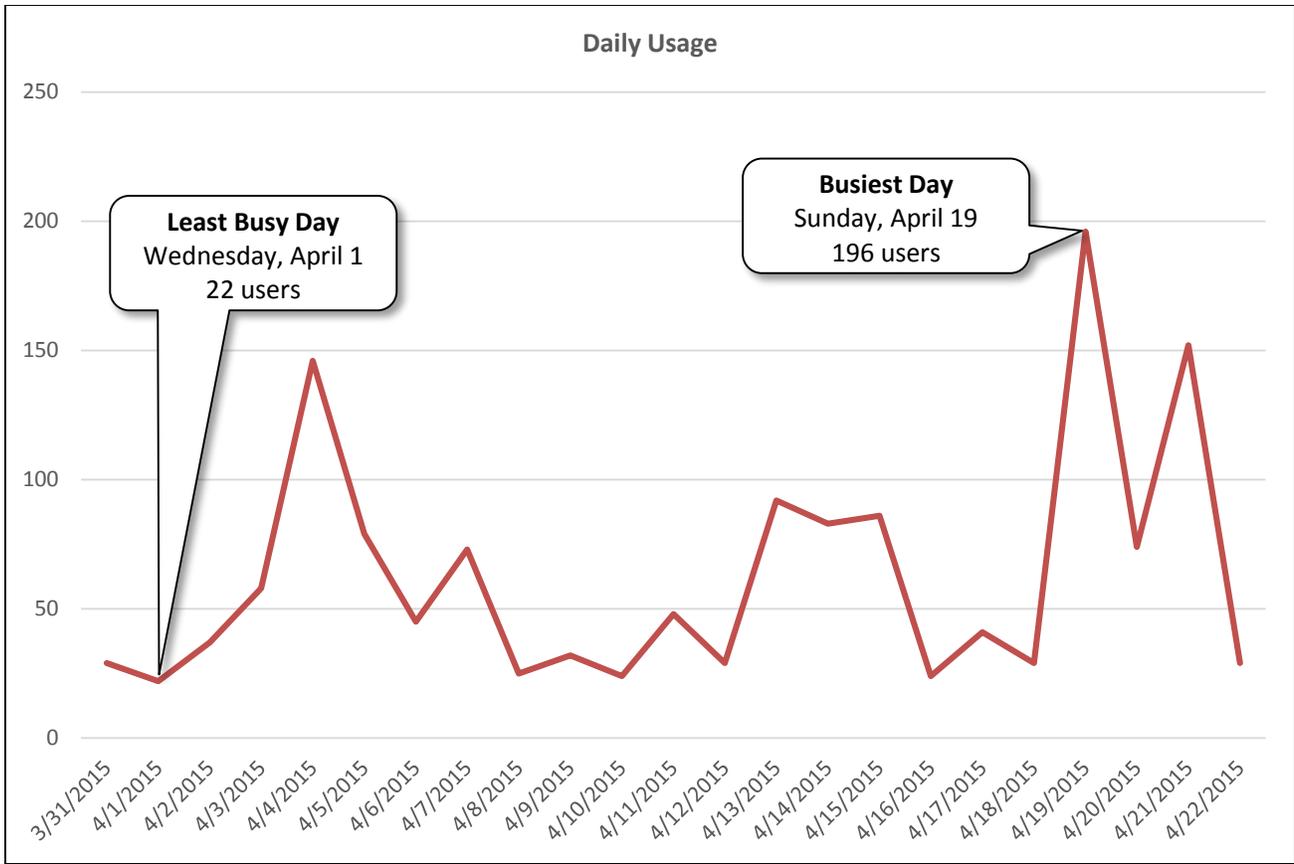


Image 1: Trail along White Oak Bayou Facing West

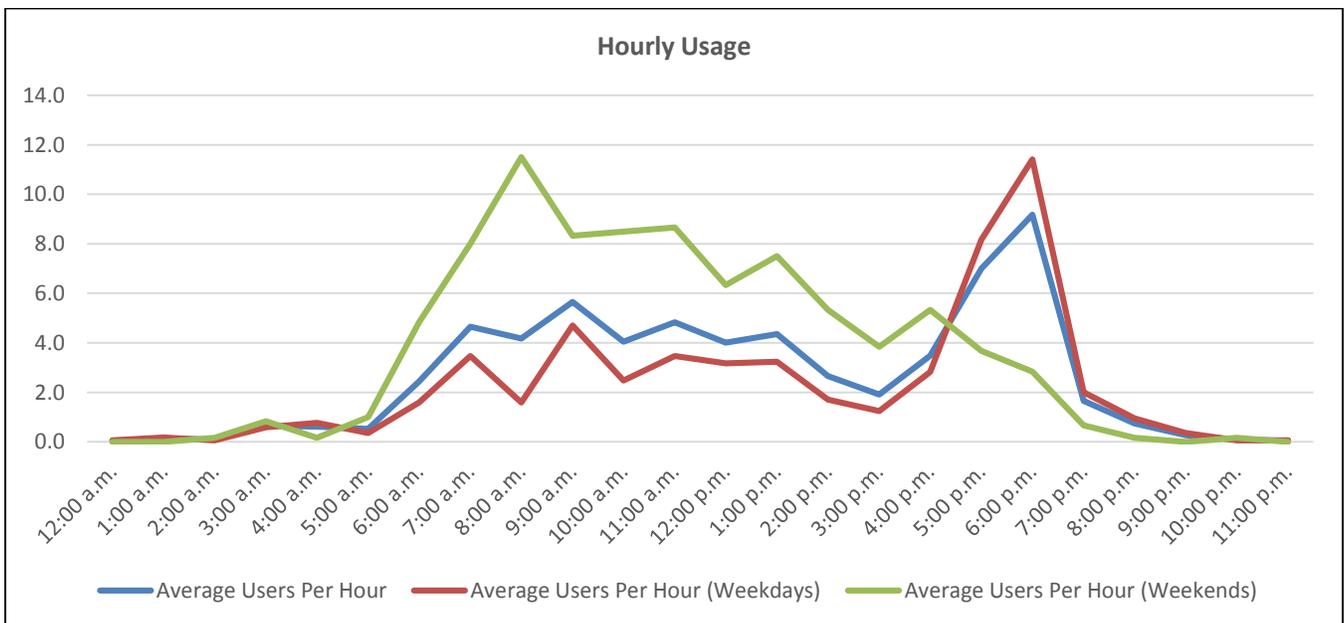


Image 2: Trail along White Oak Bayou Facing East

Daily Usage				
Date	Users	Select Weather Data		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Tuesday, March 31, 2015	29	83	64	0
Wednesday, April 1, 2015	22	79	69	0.01
Thursday, April 2, 2015	37	84	69	0
Friday, April 3, 2015	58	82	71	T
Saturday, April 4, 2015	146	73	61	0
Sunday, April 5, 2015	79	67	57	0.02
Monday, April 6, 2015	45	82	67	T
Tuesday, April 7, 2015	73	87	70	0
Wednesday, April 8, 2015	25	84	71	0
Thursday, April 9, 2015	32	86	70	0
Friday, April 10, 2015	24	74	61	1.74
Saturday, April 11, 2015	48	77	63	0.13
Sunday, April 12, 2015	29	80	68	0.14
Monday, April 13, 2015	92	86	71	0.32
Tuesday, April 14, 2015	83	76	64	0.12
Wednesday, April 15, 2015	86	81	60	T
Thursday, April 16, 2015	24	82	65	1.66
Friday, April 17, 2015	41	83	64	1.1
Saturday, April 18, 2015	29	78	66	0.09
Sunday, April 19, 2015	196	86	58	0.54
Monday, April 20, 2015	74	74	59	0
Tuesday, April 21, 2015	152	79	56	0
Wednesday, April 22, 2015	29	84	67	0
Total	1,453			
Average Daily Usage	63			
Average Daily Usage (Weekday)	55			
Average Daily Usage (Weekend)	88			
		Notes		
		White Oak Trail west of Antoine Drive was under construction during this period.		



Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.0	0.1	0.0
1:00 a.m.	0.1	0.2	0.0
2:00 a.m.	0.1	0.1	0.2
3:00 a.m.	0.7	0.6	0.8
4:00 a.m.	0.6	0.8	0.2
5:00 a.m.	0.5	0.4	1.0
6:00 a.m.	2.4	1.6	4.8
7:00 a.m.	4.7	3.5	8.0
8:00 a.m.	4.2	1.6	11.5
9:00 a.m.	5.7	4.7	8.3
10:00 a.m.	4.0	2.5	8.5
11:00 a.m.	4.8	3.5	8.7
12:00 p.m.	4.0	3.2	6.3
1:00 p.m.	4.3	3.2	7.5
2:00 p.m.	2.7	1.7	5.3
3:00 p.m.	1.9	1.2	3.8
4:00 p.m.	3.5	2.8	5.3
5:00 p.m.	7.0	8.2	3.7
6:00 p.m.	9.2	11.4	2.8
7:00 p.m.	1.7	2.0	0.7
8:00 p.m.	0.7	0.9	0.2
9:00 p.m.	0.3	0.4	0.0
10:00 p.m.	0.1	0.1	0.2
11:00 p.m.	0.0	0.1	0.0

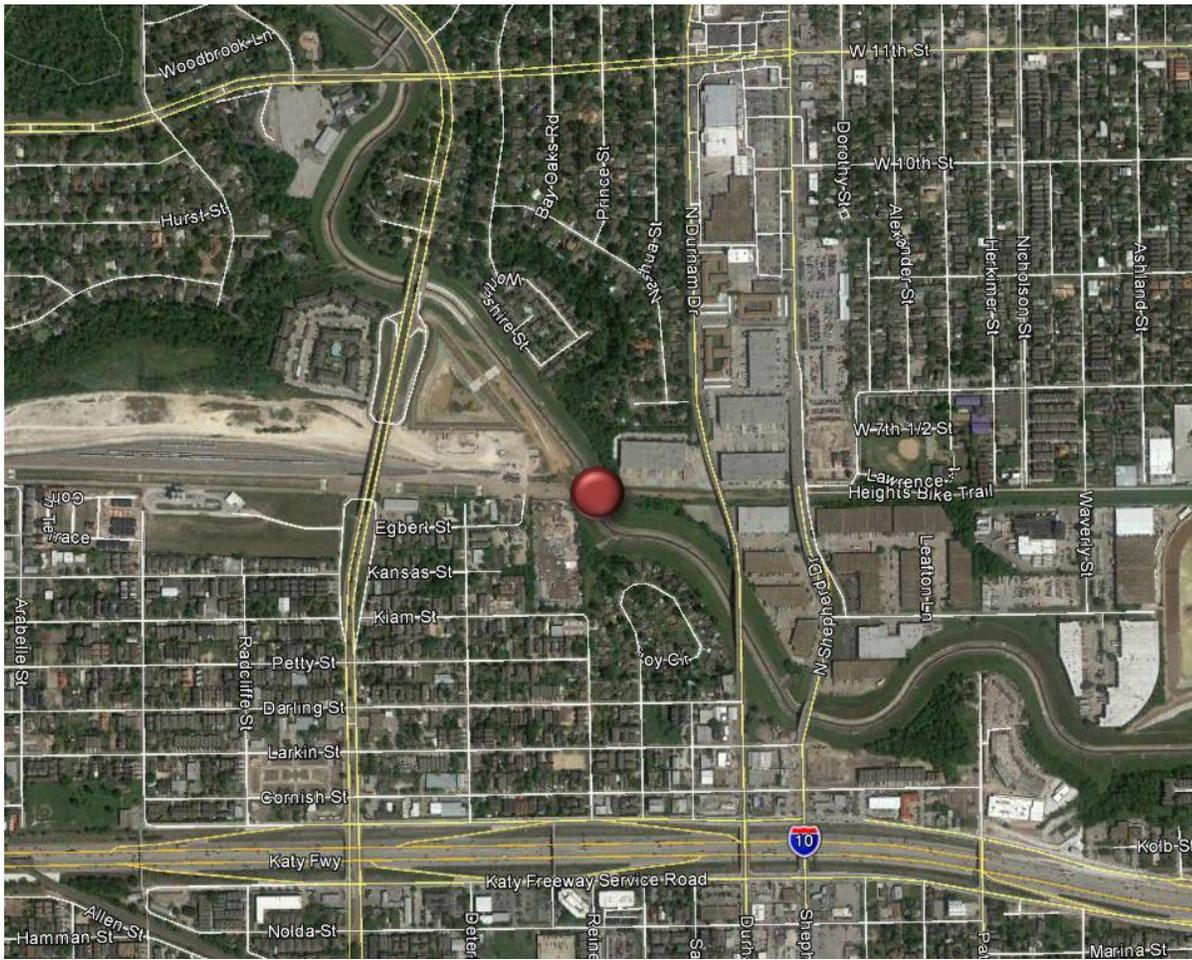


Counter #2MKT Trail at 7th Street/Moy Street (White Oak Bayou Crossing)

Location Information	
Location Name	MKT Trail at 7 th Street/Moy Street (White Oak Bayou Crossing)
Location Description	MKT Trail at 7 th Street/Moy Street (White Oak Bayou Crossing)
Jurisdiction	City of Houston
Agency Deployed	City of Houston: Parks & Recreation Dept.
GPS Coordinates	29°46'59.96"N, 95°24'48.94"W
What object was device secured to?	Bridge Railing (Near Western End of Bridge)
Date/Time Installed	Monday, March 30 (10:00 a.m.)
Date/Time Retrieved	Thursday, April 23 (10:00 a.m.)
Sidewalk Width	14'
Buffer Width	N/A (Off-Road Shared-Use Path)
Street Width	N/A (Off-Road Shared-Use Path)
Parallel Parking	N/A (Off-Road Shared-Use Path)
Landscaping or Trees	Mostly Open with Newly-Planted Trees
Sidewalk Pavement Type	Concrete
ADA Ramps	Yes
Sidewalk Condition	Excellent
Speed Limit	N/A (Off-Road Shared-Use Path)
Street Lighting	None
Street Traffic Volume	N/A (Off-Road Shared-Use Path)
Transit	No
Shade	Mostly Open with Newly-Planted Trees
Have counts been collected by H-GAC at this location before?	No

Trends
<ul style="list-style-type: none"> • There tends to be higher usage on the weekends than during weekdays. • On weekends, usage remains relatively steady in the morning. Usage gradually decreases as the day progresses. • On weekdays, usage peaks in the evening (4:00 p.m. – 6:00 p.m.). • The day with the lowest usage (Friday, April 10, 2015) was also the rainiest day (1.74 inches).

Location Information: Map



Location Information: Photos

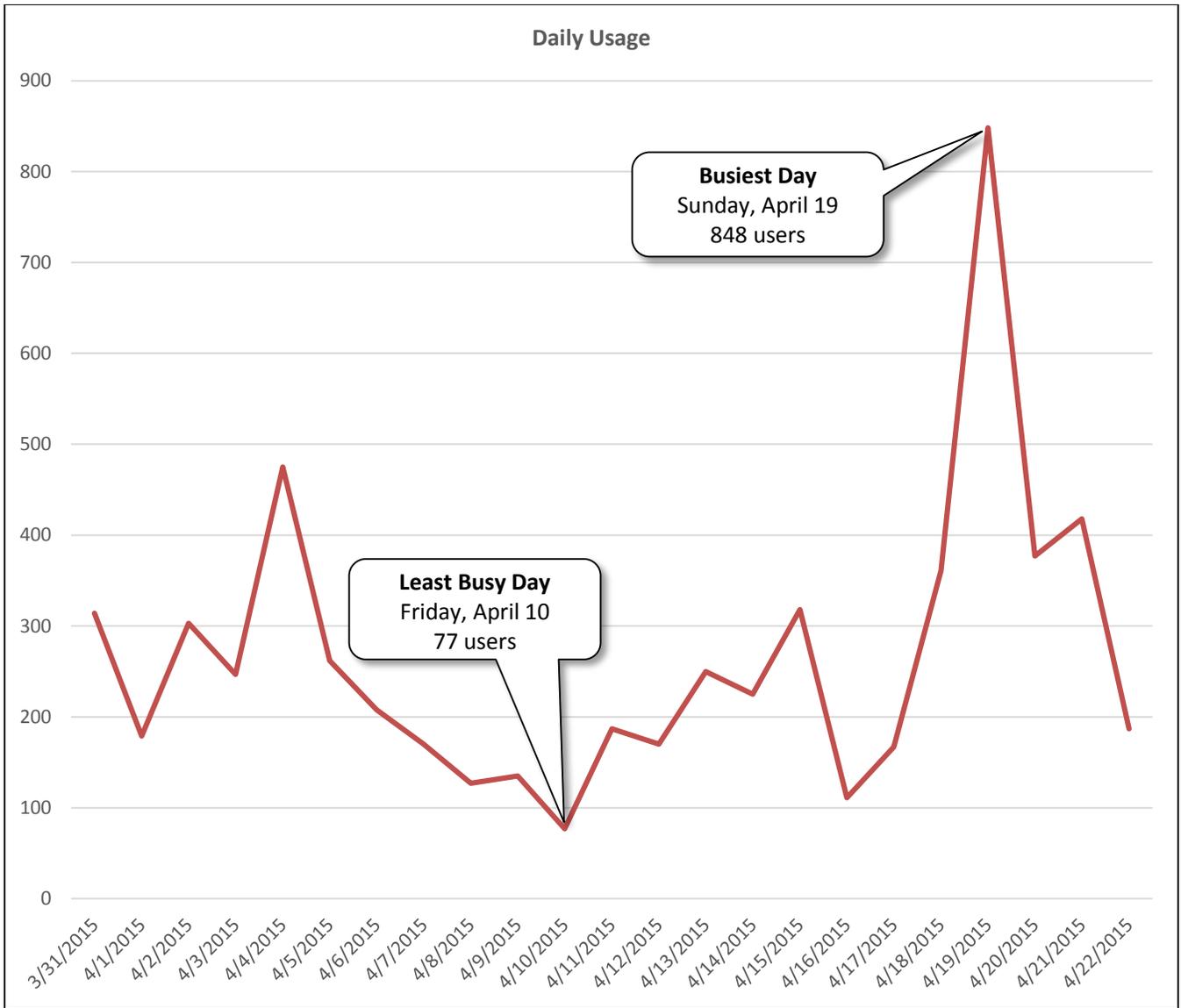


Image 3: Trail across White Oak Bayou Facing Moy Street Access

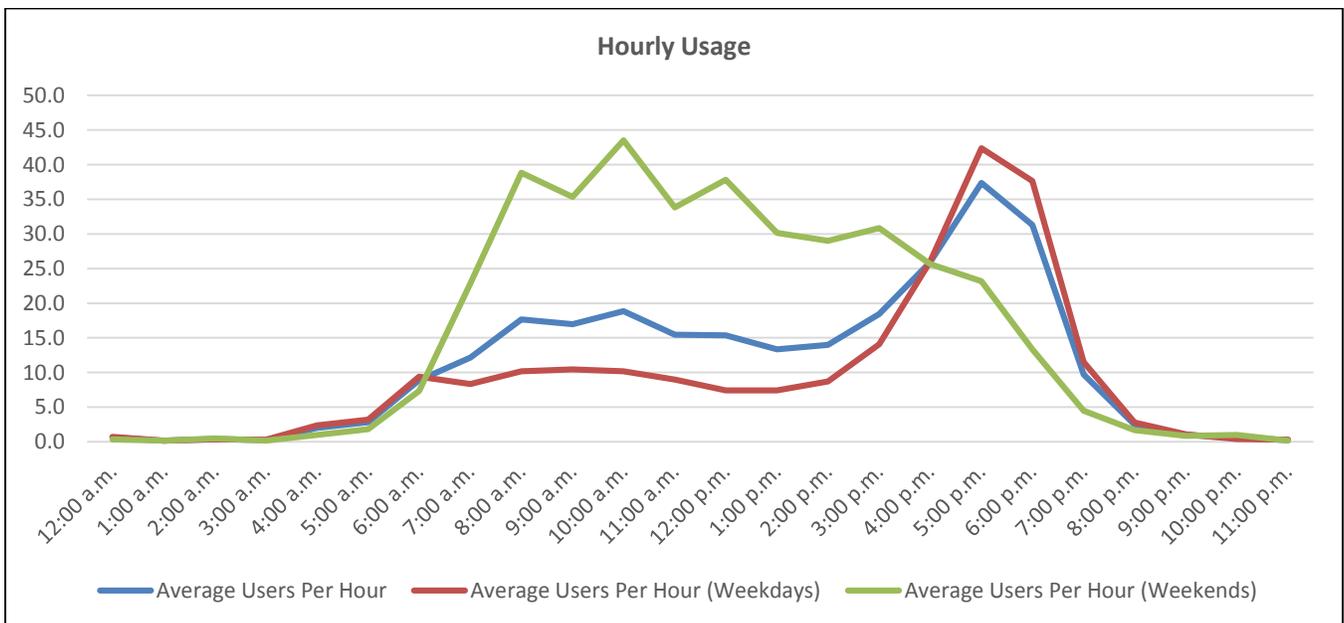


Image 4: Trail across White Oak Bayou Facing East

Daily Usage				
Date	Users	Select Weather Data		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Tuesday, March 31, 2015	314	83	64	0
Wednesday, April 1, 2015	179	79	69	0.01
Thursday, April 2, 2015	303	84	69	0
Friday, April 3, 2015	247	82	71	T
Saturday, April 4, 2015	475	73	61	0
Sunday, April 5, 2015	262	67	57	0.02
Monday, April 6, 2015	208	82	67	T
Tuesday, April 7, 2015	170	87	70	0
Wednesday, April 8, 2015	127	84	71	0
Thursday, April 9, 2015	135	86	70	0
Friday, April 10, 2015	77	74	61	1.74
Saturday, April 11, 2015	187	77	63	0.13
Sunday, April 12, 2015	170	80	68	0.14
Monday, April 13, 2015	250	86	71	0.32
Tuesday, April 14, 2015	225	76	64	0.12
Wednesday, April 15, 2015	318	81	60	T
Thursday, April 16, 2015	111	82	65	1.66
Friday, April 17, 2015	167	83	64	1.1
Saturday, April 18, 2015	361	78	66	0.09
Sunday, April 19, 2015	848	86	58	0.54
Monday, April 20, 2015	377	74	59	0
Tuesday, April 21, 2015	418	79	56	0
Wednesday, April 22, 2015	187	84	67	0
Total	6,116			
Average Daily Usage	266			
Average Daily Usage (Weekday)	224			
Average Daily Usage (Weekend)	384			
		Notes		
		The bridge across White Oak Bayou was recently completed, but construction continues on nearby trail.		



Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.6	1	0.3
1:00 a.m.	0.2	0.2	0.2
2:00 a.m.	0.4	0.4	0.5
3:00 a.m.	0.3	0.3	0.2
4:00 a.m.	2.0	2.4	1.0
5:00 a.m.	2.8	3.2	1.8
6:00 a.m.	8.9	9.4	7.3
7:00 a.m.	12.1	8.4	22.8
8:00 a.m.	17.7	10.2	38.8
9:00 a.m.	17.0	10.5	35.3
10:00 a.m.	18.9	10.2	43.5
11:00 a.m.	15.5	9.0	33.8
12:00 p.m.	15.3	7.4	37.8
1:00 p.m.	13.3	7.4	30.2
2:00 p.m.	14.0	8.7	29.0
3:00 p.m.	18.4	14.1	30.8
4:00 p.m.	25.9	26.0	25.7
5:00 p.m.	37.3	42.4	23.2
6:00 p.m.	31.3	37.6	13.3
7:00 p.m.	9.7	11.5	4.5
8:00 p.m.	2.5	2.8	1.7
9:00 p.m.	1.0	1.1	0.8
10:00 p.m.	0.6	0.4	1.0
11:00 p.m.	0.3	0.3	0.2



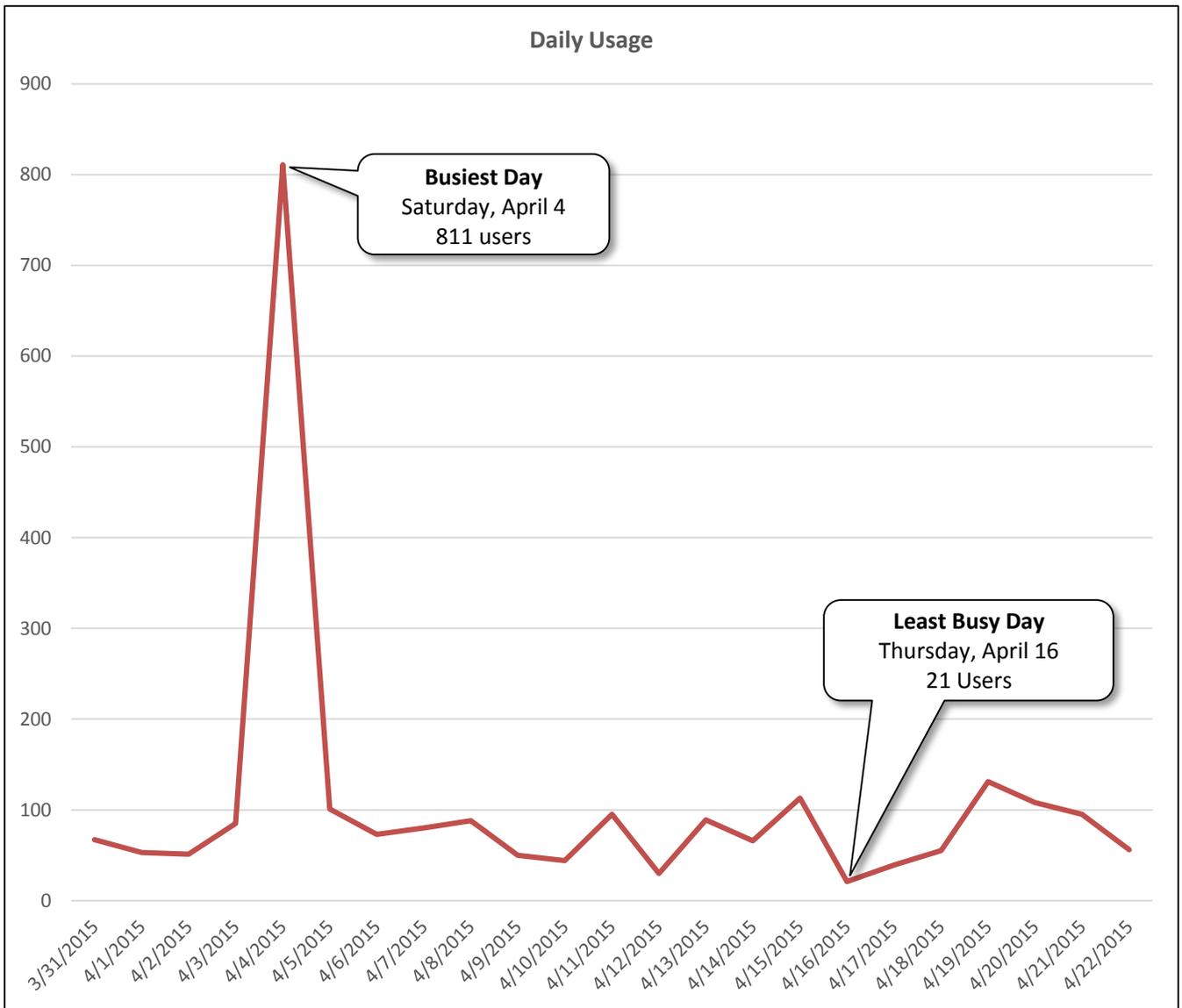
Counter #3

Brays Bayou at Gus Wortham Golf Course

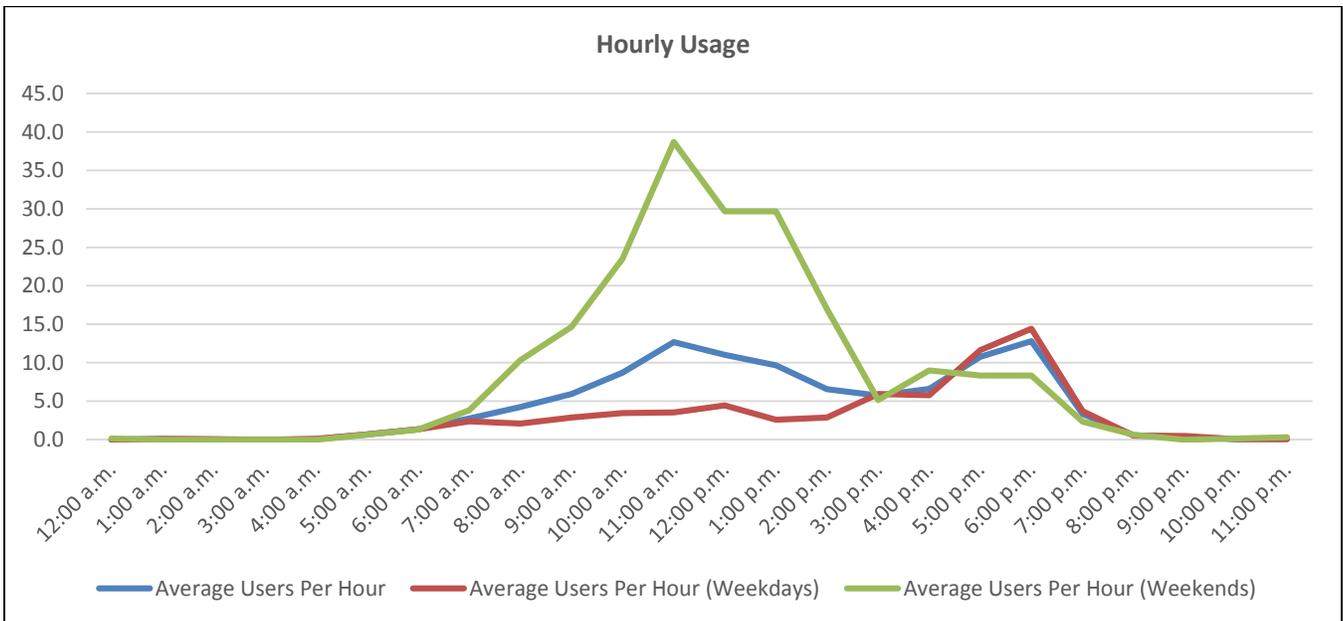
Location Information	
Location Name	Brays Bayou at Gus Wortham Golf Course
Location Description	Brays Bayou adjacent to Gus Worham Golf Course on a bridge crossing a tributary of Brays Bayou.
Jurisdiction	City of Houston
Agency Deployed	City of Houston: Parks and Recreation Department
GPS Coordinates	29°43'49.33"N, 95°18'10.71"W
What object was device secured to?	Bridge Railing (Near Eastern End of Bridge)
Date/Time Installed	Monday, March 30 (10:00 a.m.)
Date/Time Retrieved	Thursday, April 23 (10:00 a.m.)
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?	No

Trends
<ul style="list-style-type: none"> • There tends to be higher usage on the weekends than during weekdays. Events in celebration of Bayou Greenway Day 2015 (Saturday, April 4, 2015 from 10:00 a.m. to 3:00 p.m.) were held along Brays Bayou near this counter, which may have resulted in higher weekend usage than normal. • On weekends, usage peaks in the middle of the day (10:00 a.m. – 1:00 p.m.) • On weekdays, usage peaks in the evening (5:00 p.m. – 6:00 p.m.). • The day with the lowest usage (Thursday, April 16, 2015) was also one of the rainiest days (1.66 inches).

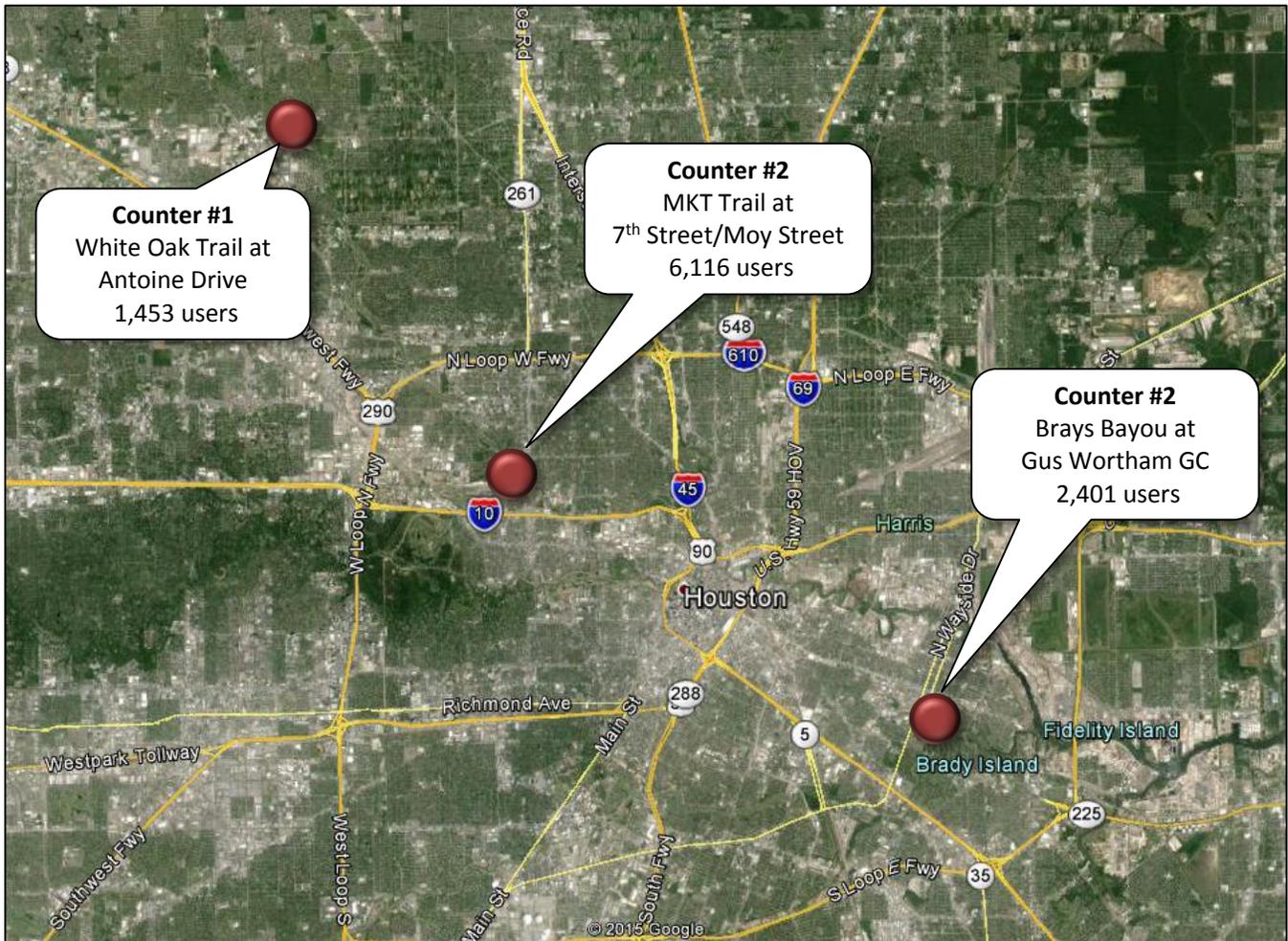
Daily Usage				
Date	Users	Select Weather Data		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Tuesday, March 31, 2015	67	83	64	0
Wednesday, April 1, 2015	53	79	69	0.01
Thursday, April 2, 2015	51	84	69	0
Friday, April 3, 2015	85	82	71	T
Saturday, April 4, 2015	811	73	61	0
Sunday, April 5, 2015	101	67	57	0.02
Monday, April 6, 2015	73	82	67	T
Tuesday, April 7, 2015	80	87	70	0
Wednesday, April 8, 2015	88	84	71	0
Thursday, April 9, 2015	50	86	70	0
Friday, April 10, 2015	44	74	61	1.74
Saturday, April 11, 2015	95	77	63	0.13
Sunday, April 12, 2015	30	80	68	0.14
Monday, April 13, 2015	89	86	71	0.32
Tuesday, April 14, 2015	66	76	64	0.12
Wednesday, April 15, 2015	113	81	60	T
Thursday, April 16, 2015	21	82	65	1.66
Friday, April 17, 2015	39	83	64	1.1
Saturday, April 18, 2015	55	78	66	0.09
Sunday, April 19, 2015	131	86	58	0.54
Monday, April 20, 2015	108	74	59	0
Tuesday, April 21, 2015	95	79	56	0
Wednesday, April 22, 2015	56	84	67	0
Total	2,401			
Average Daily Usage	104			
Average Daily Usage (Weekday)	69			
Average Daily Usage (Weekend)	204			
		Notes		
		Events in celebration of Bayou Greenway Day 2015 (Saturday, April 4, 2015 from 10:00 a.m. to 3:00 p.m.) were held along Brays Bayou near this counter.		



Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.0	0	0.2
1:00 a.m.	0.1	0	0.0
2:00 a.m.	0.0	0	0.0
3:00 a.m.	0.0	0	0.0
4:00 a.m.	0.1	0	0.0
5:00 a.m.	0.7	1	0.7
6:00 a.m.	1.3	1	1.3
7:00 a.m.	2.8	2	3.8
8:00 a.m.	4.3	2	10.3
9:00 a.m.	6.0	3	14.7
10:00 a.m.	8.7	3	23.5
11:00 a.m.	12.7	4	38.7
12:00 p.m.	11.0	4	29.7
1:00 p.m.	9.7	3	29.7
2:00 p.m.	6.6	3	17.0
3:00 p.m.	5.7	6	5.2
4:00 p.m.	6.6	6	9.0
5:00 p.m.	10.8	12	8.3
6:00 p.m.	12.8	14	8.3
7:00 p.m.	3.3	4	2.3
8:00 p.m.	0.6	1	0.7
9:00 p.m.	0.3	0	0.0
10:00 p.m.	0.1	0	0.2
11:00 p.m.	0.1	0	0.3



Counter Locations



Participants

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

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

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