

HOUSTON-GALVESTON AREA COUNCIL



Temporary Pedestrian/Bicycle Counters
Data Summary

Deployment Summary	
Sponsoring Agency	Energy Corridor District
Deployment Period	May 9, 2015 – May 19, 2015
Number of Counters Deployed	3
Locations Deployed	
Counter #1	N. Dairy Ashford at Turkey Creek
Counter #2	Terry Hershey Hike and Bike Trail (West of Eldridge)
Counter #3	Terry Hershey Hike and Bike Trail (East of Eldridge)

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.

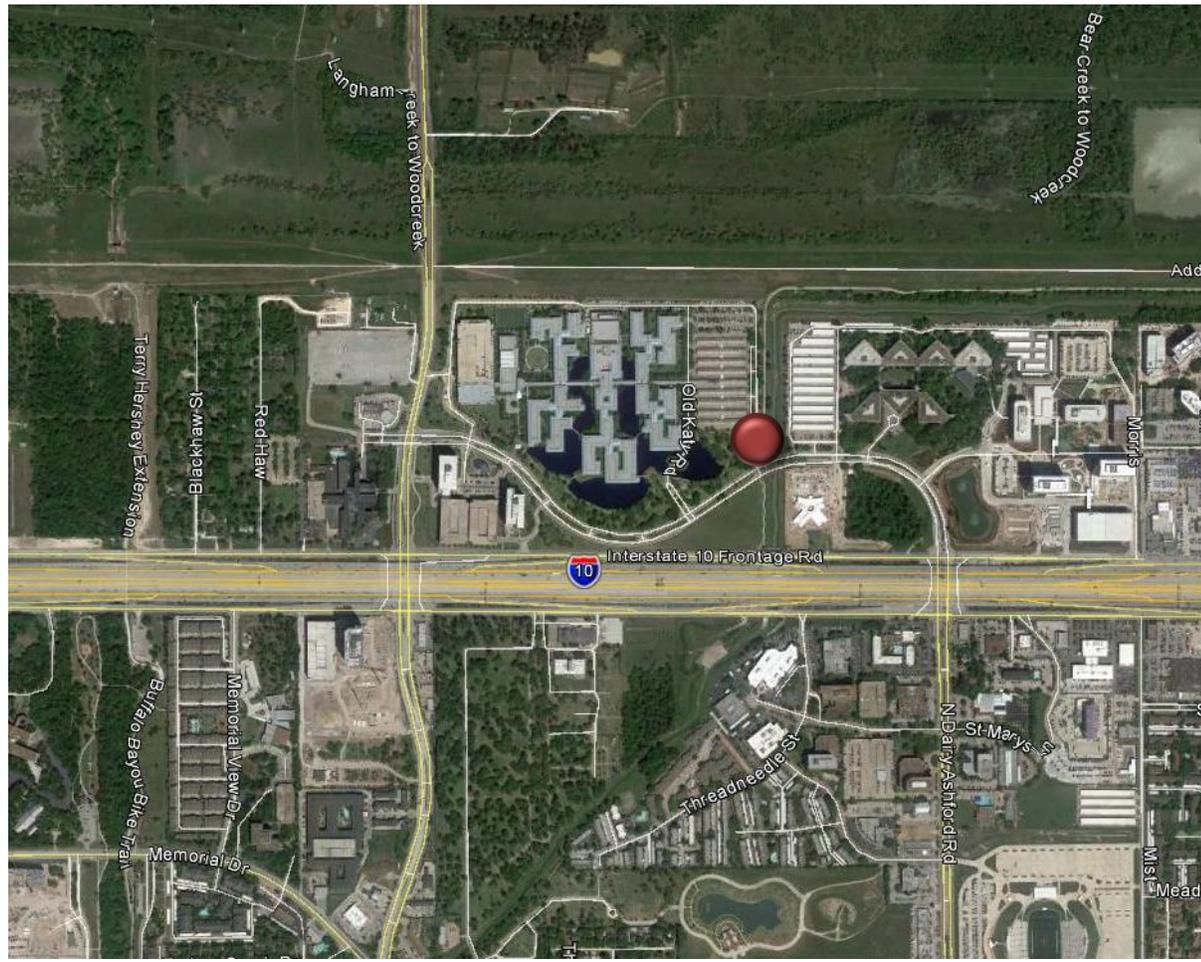
Counter #1

N. Dairy Ashford at Turkey Creek

Location Information	
Location Name	N. Dairy Ashford at Turkey Creek
Location Description	Trail Along Turkey Creek (between ConocoPhillips and Shell: Woodcreek Complex)
Jurisdiction	Energy Corridor District/City of Houston
Agency Deployed	Energy Corridor District
GPS Coordinates	29°47'14"N, 95°36'27"W
What object was device secured to?	Bike Path Post
Date/Time Installed	Friday, May 8, 2015 (3:00 p.m.)
Date/Time Retrieved	Wednesday, May 20, 2015 (2:50 p.m.)
Sidewalk Width	10 feet
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	None Directly on Trail (Bus Service on N. Dairy Ashford)
Shade	Open Area
Have counts been collected by H-GAC at this location before?	Yes Counts were collected in May 2014. The counter was also deployed at this location in November 2014, but it did not collect data.

Notes
This counter did not collect data during its deployment.

Location Information: Map



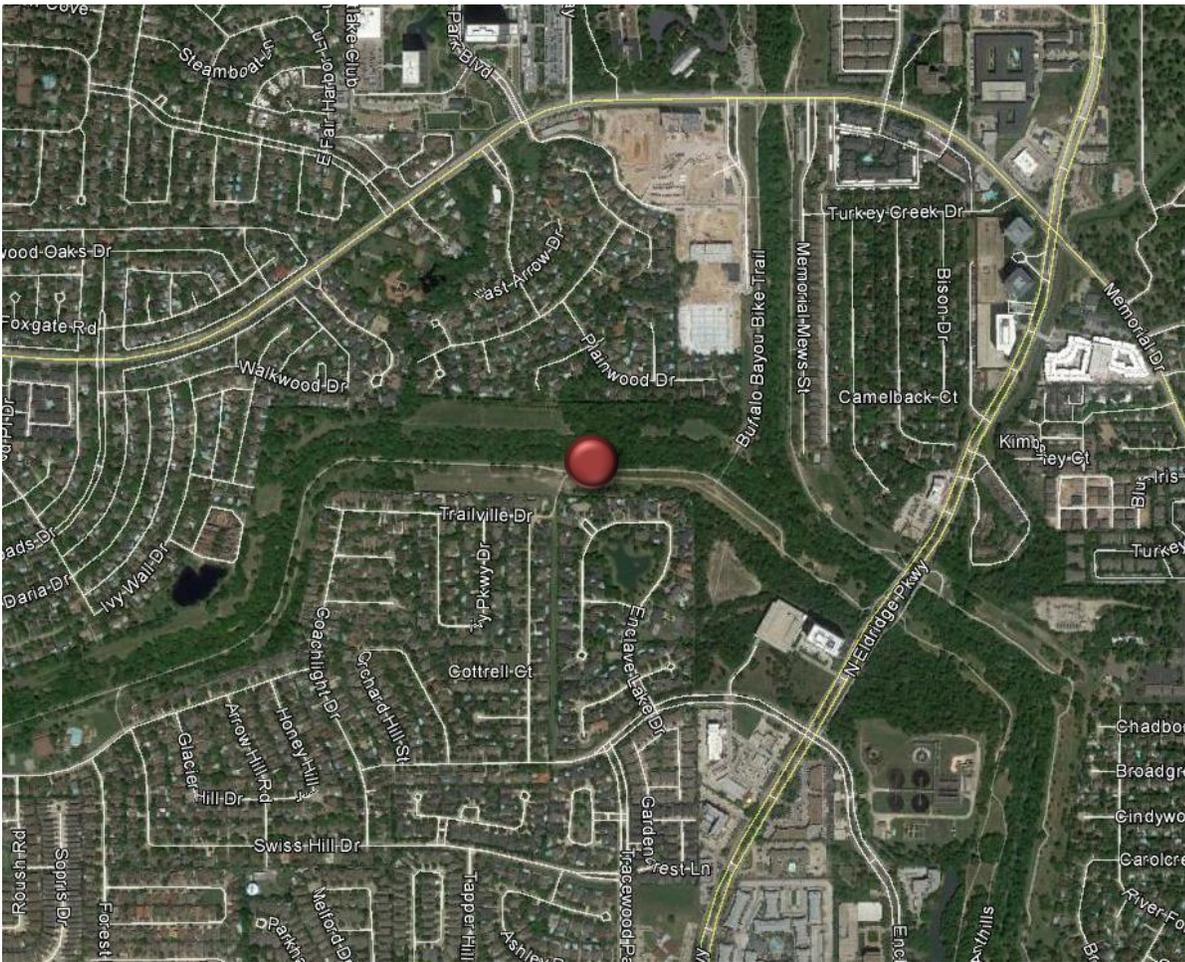
Counter #2

Terry Hershey Hike and Bike Trail (West of Eldridge)

Location Information	
Location Name	Terry Hershey Hike and Bike Trail (West of Eldridge)
Location Description	Terry Hershey Hike and Bike Trail: East of Intersection of Bayou Parkway and Trailville Drive
Jurisdiction	Energy Corridor District/City of Houston
Agency Deployed	Energy Corridor District
GPS Coordinates	29°46'59.96"N, 95°24'48.94"W
What object was device secured to?	Oak Tree
Date/Time Installed	Friday, May 8, 2015 (3:00 p.m.)
Date/Time Retrieved	Wednesday, May 20, 2015 (2:40 p.m.)
Sidewalk Width	8 feet
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	None
Sidewalk Condition	Good (No Major Cracks or Potholes)
Speed Limit	N/A (Off-Road Shared-Use Path)
Street Lighting	Yes
Street Traffic Volume	N/A (Off-Road Shared-Use Path)
Transit	N/A (Off-Road Shared-Use Path)
Shade	Yes (Some Trees)
Have counts been collected by H-GAC at this location before?	Yes Counts were collected in May 2014 and November 2014.

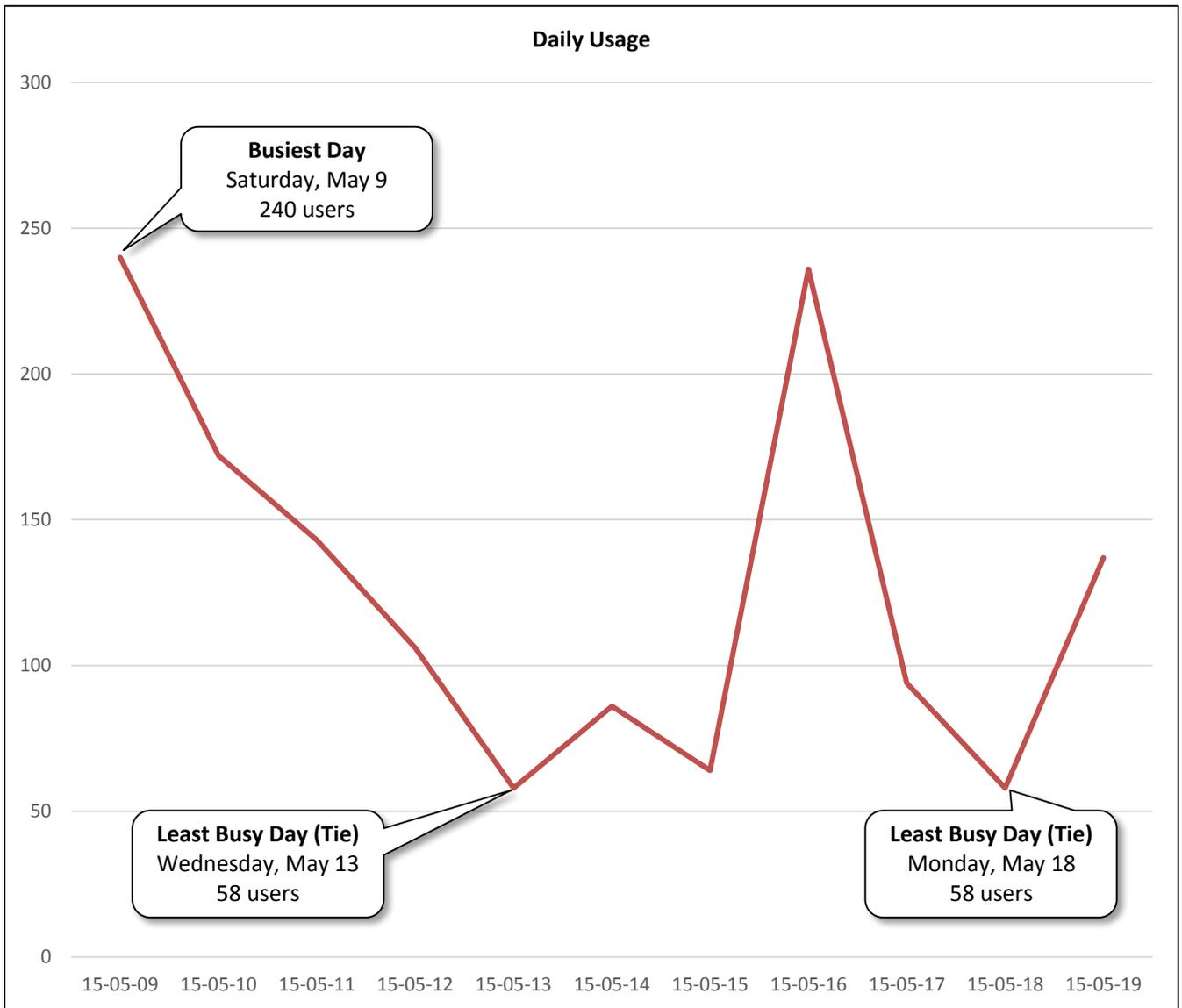
Trends
<ul style="list-style-type: none"> • There tends to be higher usage on weekends than during weekdays. Three of the busiest days were on weekends. • On weekends, peak usage is in the morning (7:00 a.m. – 9:00 a.m.). Usage remains relatively steady through the afternoon and evening, when there are approximately 10 to 15 users per hour. • On weekdays, usage peaks in the evening (6:00 p.m. – 8:00 p.m.). • Rain seems to influence usage. Usage was about 45% less on Sunday, May 17 (0.69 inches of rainfall) than it was the previous Sunday, when there was no rainfall. The rainiest day (Wednesday, May 13: 1.78 inches) was one of the least busy days. • High water may have made nearby trails that cross the Barker Reservoir impassable, resulting in lower usage (see p. 16 for more details). • Average daily usage in May 2015 was about 75% less than average daily usage in May 2014. Lower usage could be attributed to weather conditions. It rained 3.96 inches during the 11-day period the counter was deployed in May 2015, while it only rained 0.01 inches during the 8-day deployment period in May 2014.

Location Information: Map

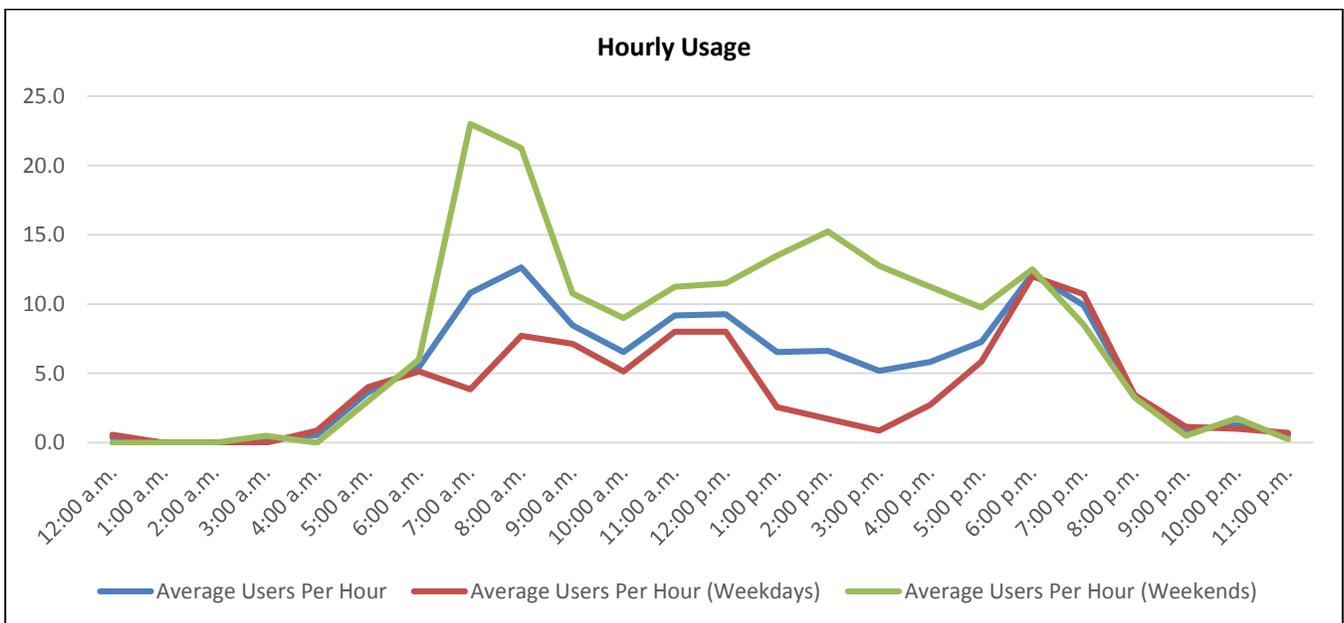


Daily Usage				
Date	Users	Select Weather Data		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Saturday, May 9, 2015	240	79 °F	76.8 °F	0 in
Sunday, May 10, 2015	172	92.7 °F	61 °F	0 in
Monday, May 11, 2015	143	84.7 °F	70.3 °F	0.09 in
Tuesday, May 12, 2015	106	85.5 °F	68.9 °F	0.74 in
Wednesday, May 13, 2015	58	82.4 °F	68.4 °F	1.78 in
Thursday, May 14, 2015	86	90.3 °F	69.3 °F	0.43 in
Friday, May 15, 2015	64	88.2 °F	74.3 °F	0.14 in
Saturday, May 16, 2015	236	93.2 °F	76.6 °F	0.01 in
Sunday, May 17, 2015	94	87.6 °F	71.1 °F	0.69 in
Monday, May 18, 2015	58	93.7 °F	72 °F	0.08 in
Tuesday, May 19, 2015	137	92.3 °F	76.8 °F	0 in
Total	1,394			
Average Daily Usage	127			
Average Daily Usage (Weekday)	93			
Average Daily Usage (Weekend)	186			

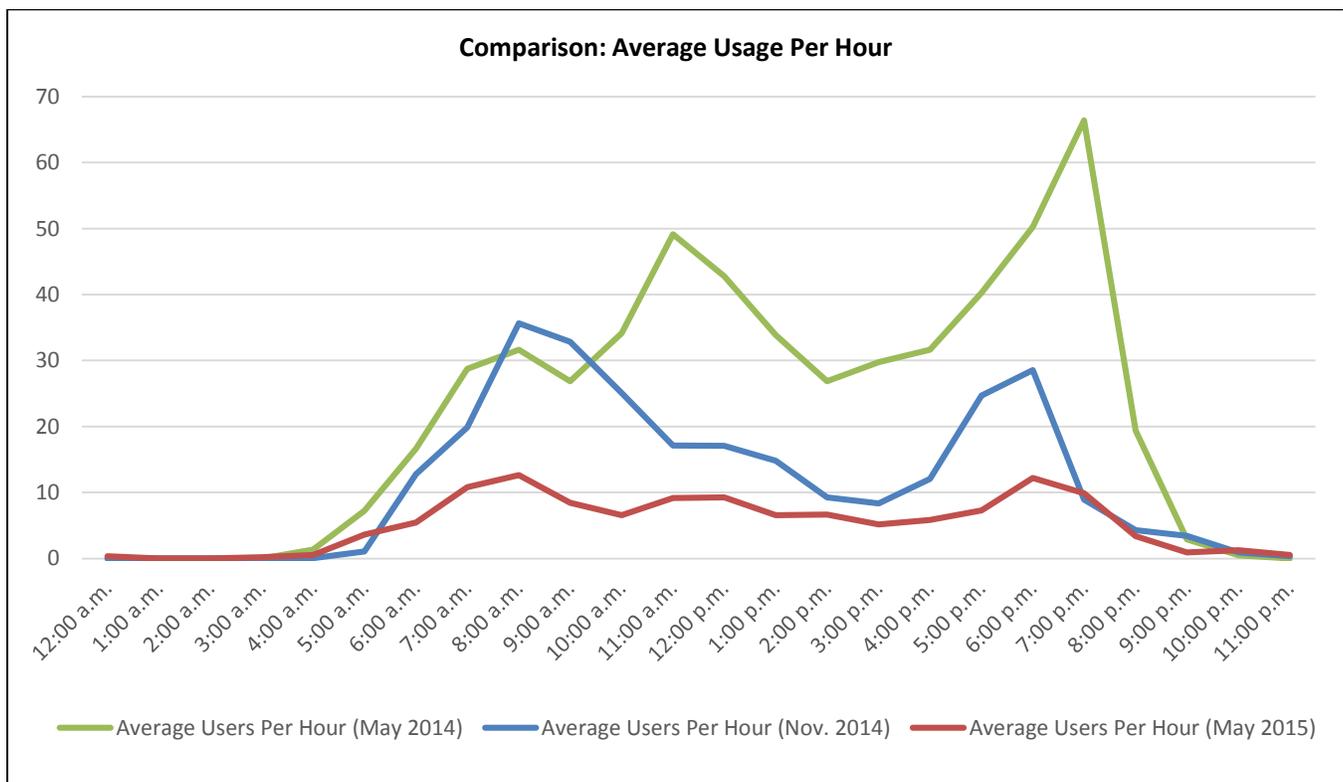
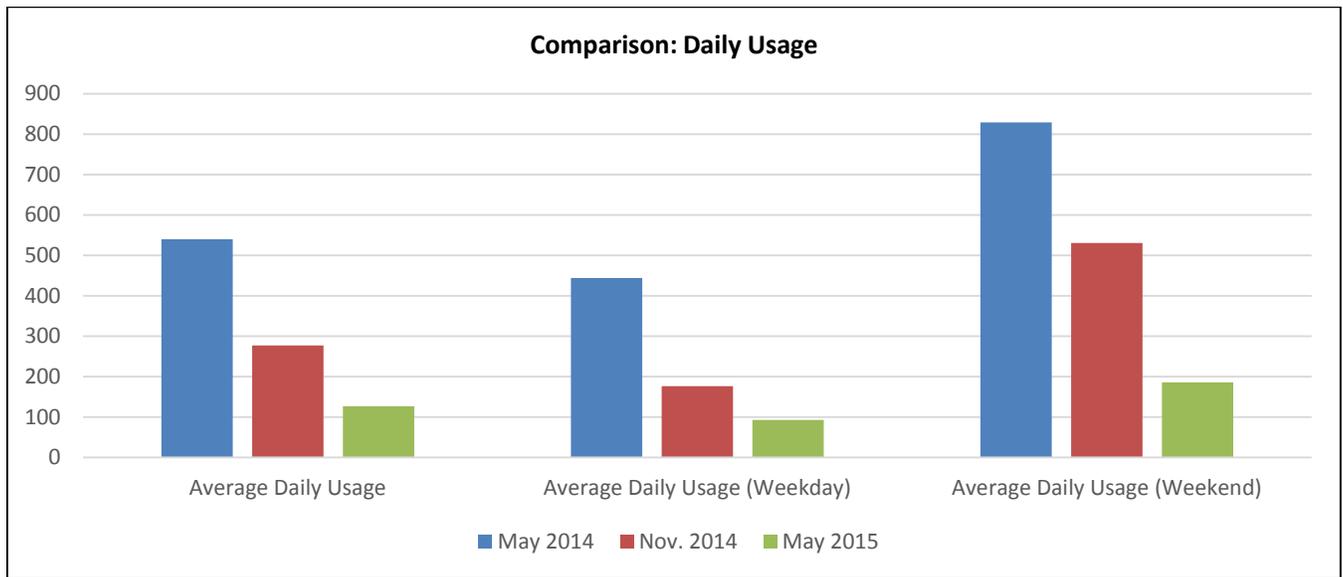
Notes
The Energy Corridor District held its annual Bike to Work Day on Thursday, May 14, 2015.



Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.4	0.6	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.	0.2	0.0	0.5
4:00 a.m.	0.5	0.9	0.0
5:00 a.m.	3.6	4.0	3.0
6:00 a.m.	5.5	5.1	6.0
7:00 a.m.	10.8	3.9	23.0
8:00 a.m.	12.6	7.7	21.3
9:00 a.m.	8.5	7.1	10.8
10:00 a.m.	6.5	5.1	9.0
11:00 a.m.	9.2	8.0	11.3
12:00 p.m.	9.3	8.0	11.5
1:00 p.m.	6.5	2.6	13.5
2:00 p.m.	6.6	1.7	15.3
3:00 p.m.	5.2	0.9	12.8
4:00 p.m.	5.8	2.7	11.3
5:00 p.m.	7.3	5.9	9.8
6:00 p.m.	12.2	12.0	12.5
7:00 p.m.	9.9	10.7	8.5
8:00 p.m.	3.4	3.4	3.3
9:00 p.m.	0.9	1.1	0.5
10:00 p.m.	1.3	1.0	1.8
11:00 p.m.	0.5	0.7	0.3



Counter #2: Historical Comparison



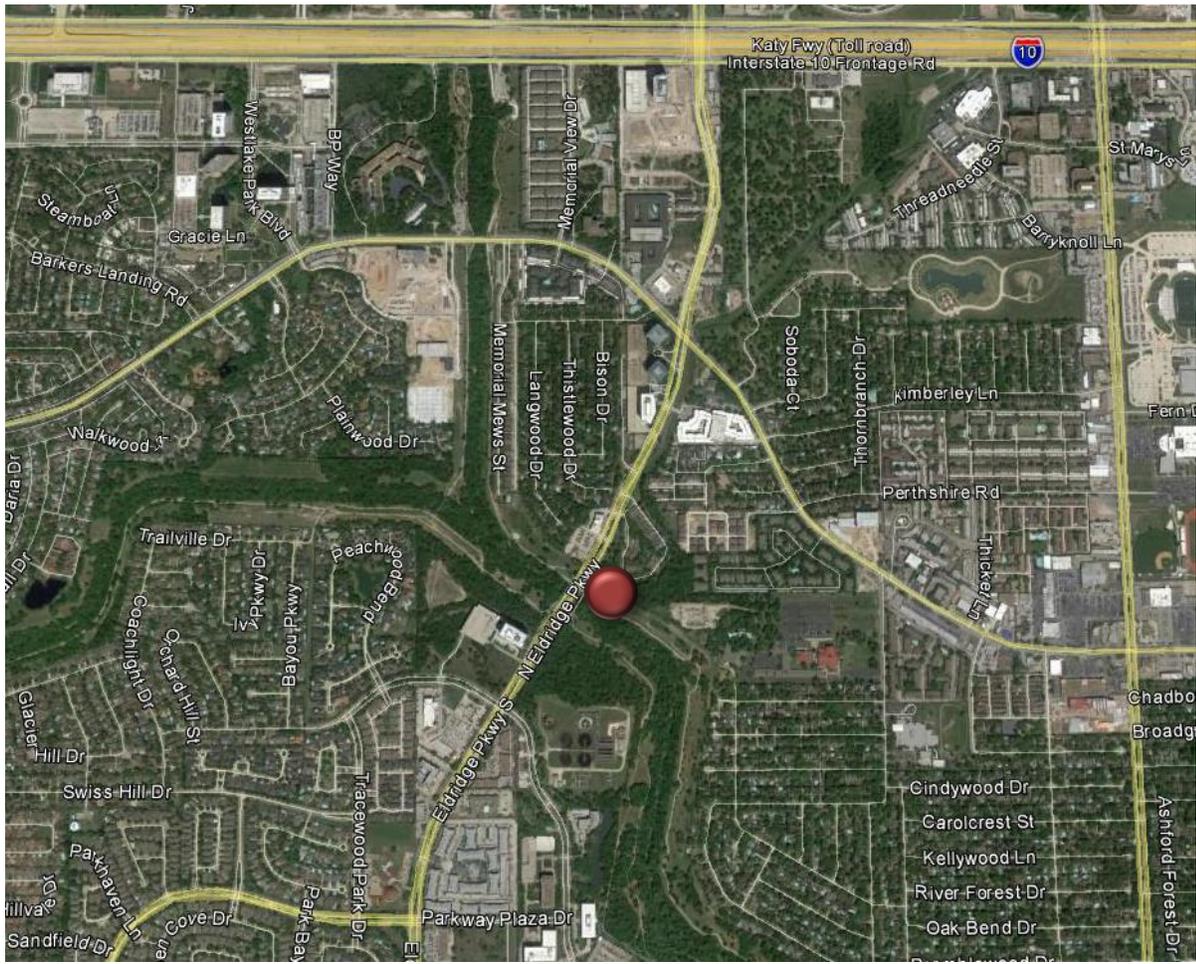
Counter #3

Terry Hershey Hike and Bike Trail (East of Eldridge)

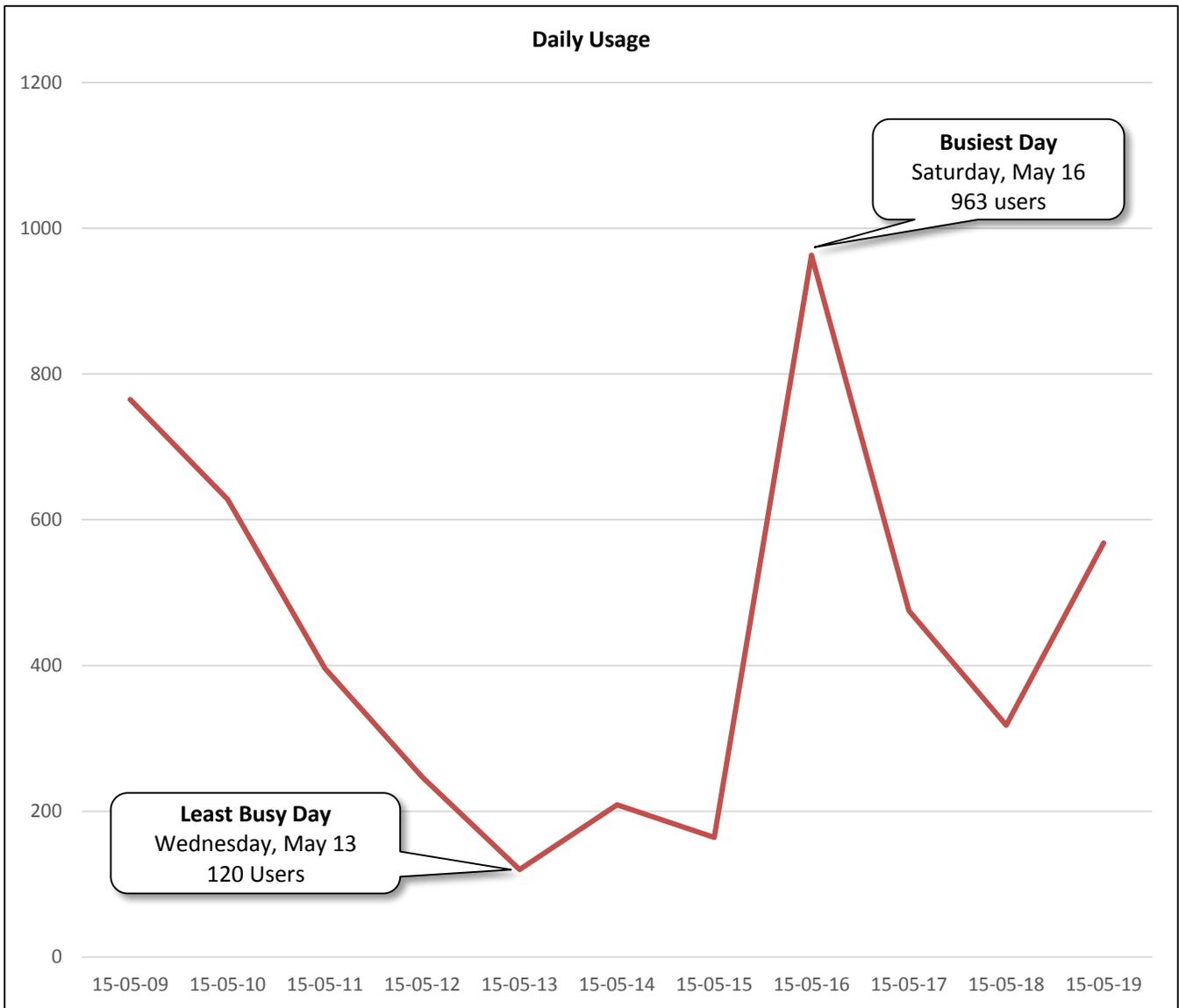
Location Information	
Location Name	Terry Hershey Hike and Bike Trail (East of Eldridge)
Location Description	Terry Hershey Hike and Bike Trail at Eldridge (East) near Turkey Creek Bridge
Jurisdiction	Energy Corridor District/City of Houston
Agency Deployed	Energy Corridor District
GPS Coordinates	29°46'16.25"N, 95°37'13.5"W
What object was device secured to?	Sign Post (Warning: Cyclists Must Yield to Pedestrians)
Date/Time Installed	Friday, May 8, 2015 (3:00 p.m.)
Date/Time Retrieved	Wednesday, May 20, 2015 (2:50 p.m.)
Sidewalk Width	10 feet
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 along Buffalo Bayou)
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	None Directly on Trail (Bus Service Nearby on Eldridge)
Shade	Yes
Have counts been collected by H-GAC at this location before?	Yes Counts were collected in November 2014. The counter was also deployed at this location in May 2014, but it did not collect data.

Trends
<ul style="list-style-type: none"> • There tends to be higher usage on weekends than during weekdays. Three of the busiest days were on weekends. • On weekends, peak usage is mid-day (11:00 a.m. – 1:00 p.m.), with a smaller peak in the evening (6:00 p.m. – 7:00 p.m.). • On weekdays, usage peaks in the evening (5:00 p.m. – 8:00 p.m.). • Rain seems to influence usage. Usage was about 25% less on Sunday, May 17 (0.69 inches of rainfall) than it was the previous Sunday, which was dry. The rainiest day (Wednesday, May 13: 1.78 inches) was the least busy day. • High water may have made nearby trails that cross the Barker Reservoir impassable, resulting in lower usage (see p. 16 for more details). • Average daily usage in May 2015 was about 20% less than average daily usage in November 2014, the only other time counts were collected at this location. Lower usage could be attributed to weather conditions. It rained 3.96 inches during the 11-day period the counter was deployed in May 2015, while it only rained 0.54 inches during the 14-day deployment period in November 2014.

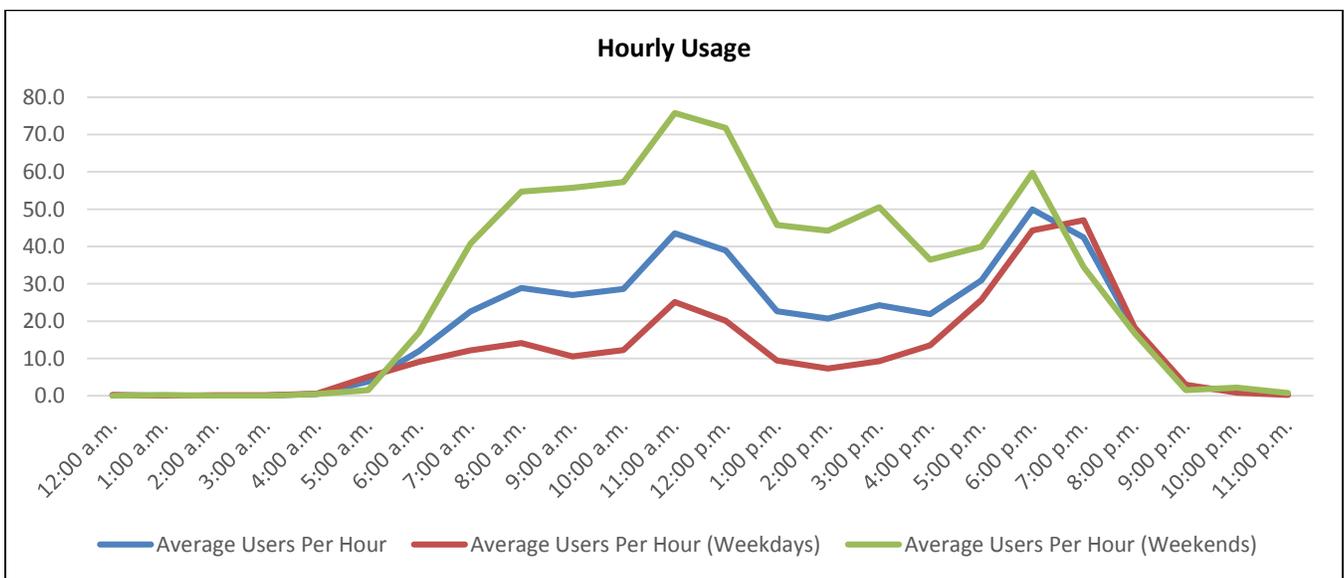
Location Information: Map



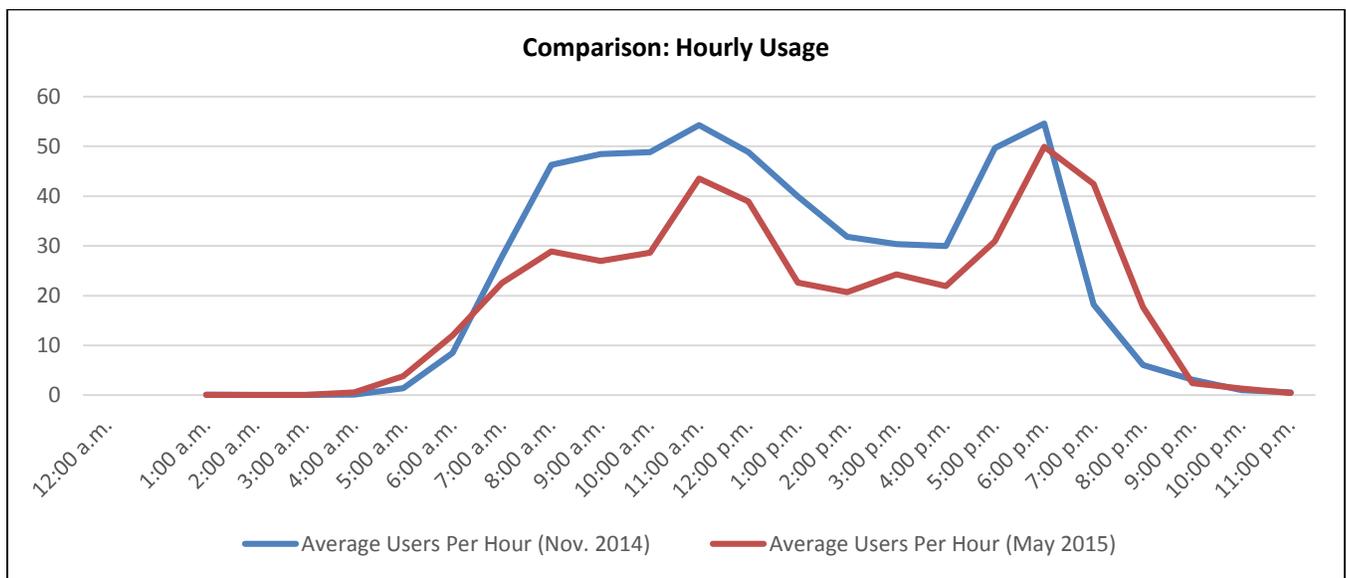
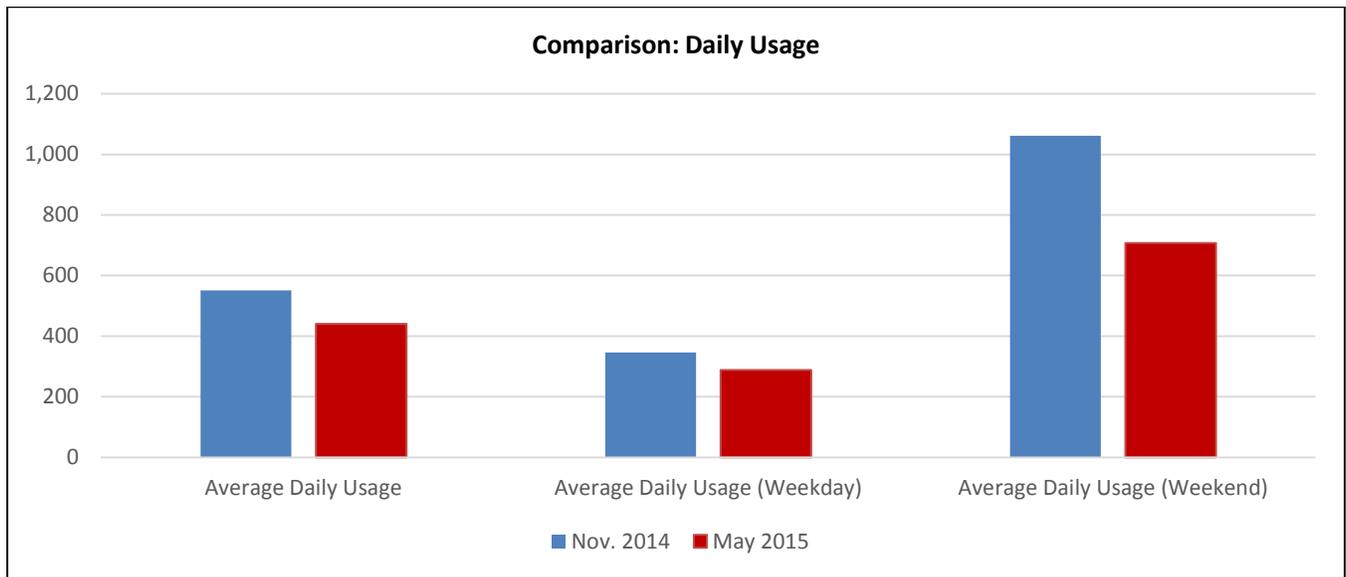
Daily Usage				
Date	Users	Select Weather Data		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Saturday, May 9, 2015	765	79 °F	76.8 °F	0 in
Sunday, May 10, 2015	628	92.7 °F	61 °F	0 in
Monday, May 11, 2015	396	84.7 °F	70.3 °F	0.09 in
Tuesday, May 12, 2015	247	85.5 °F	68.9 °F	0.74 in
Wednesday, May 13, 2015	120	82.4 °F	68.4 °F	1.78 in
Thursday, May 14, 2015	209	90.3 °F	69.3 °F	0.43 in
Friday, May 15, 2015	164	88.2 °F	74.3 °F	0.14 in
Saturday, May 16, 2015	963	93.2 °F	76.6 °F	0.01 in
Sunday, May 17, 2015	475	87.6 °F	71.1 °F	0.69 in
Monday, May 18, 2015	318	93.7 °F	72 °F	0.08 in
Tuesday, May 19, 2015	568	92.3 °F	76.8 °F	0 in
Total	4,853			
Average Daily Usage	441			
Average Daily Usage (Weekday)	289			
Average Daily Usage (Weekend)	708			
		Notes		
		The Energy Corridor District held its annual Bike to Work Day on Thursday, May 14, 2015.		



Hourly Usage			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.2	0.3	0.0
1:00 a.m.	0.1	0.0	0.3
2:00 a.m.	0.1	0.1	0.0
3:00 a.m.	0.1	0.1	0.0
4:00 a.m.	0.5	0.6	0.5
5:00 a.m.	3.8	5.1	1.5
6:00 a.m.	12.0	9.1	17.0
7:00 a.m.	22.5	12.1	40.8
8:00 a.m.	28.9	14.1	54.8
9:00 a.m.	27.0	10.6	55.8
10:00 a.m.	28.6	12.3	57.3
11:00 a.m.	43.5	25.1	75.8
12:00 p.m.	38.9	20.1	71.8
1:00 p.m.	22.6	9.4	45.8
2:00 p.m.	20.7	7.3	44.3
3:00 p.m.	24.3	9.3	50.5
4:00 p.m.	21.9	13.6	36.5
5:00 p.m.	30.9	25.7	40.0
6:00 p.m.	49.9	44.3	59.8
7:00 p.m.	42.5	47.0	34.5
8:00 p.m.	17.7	18.3	16.8
9:00 p.m.	2.5	3.0	1.5
10:00 p.m.	1.4	0.9	2.3
11:00 p.m.	0.5	0.3	0.8



Counter #3: Historical Comparison



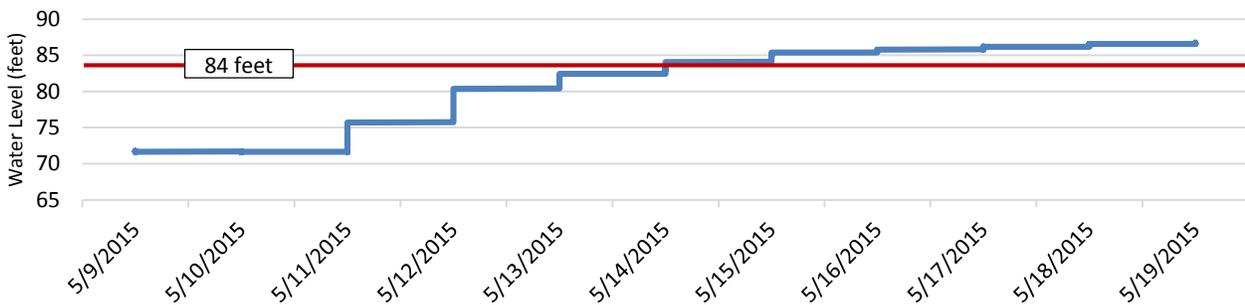
Counter Locations



Barker Reservoir

Buffalo Bayou leaves the Barker Reservoir (which includes George Bush Park) about 1.3 miles upstream from Counter #2. Bicyclists traveling from Cinco Ranch and other communities west of the Energy Corridor may take trails through the reservoir to access the Terry Hershey Trail, which follows Buffalo Bayou. While these trails are passable in normal conditions, locals report that they flood when water levels in the reservoir reach 84 feet and above. Water levels rose to 84 feet late on May 14 and remained above that level for the remainder of the deployment period.

Water Levels in Barker Reservoir (Deployment Period)



Participants

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

Energy Corridor District
www.energycorridor.org

Texas Transportation Institute
www.tti.tamu.edu