

## HOUSTON-GALVESTON AREA COUNCIL



### Temporary Pedestrian/Bicycle Counters Data Summary

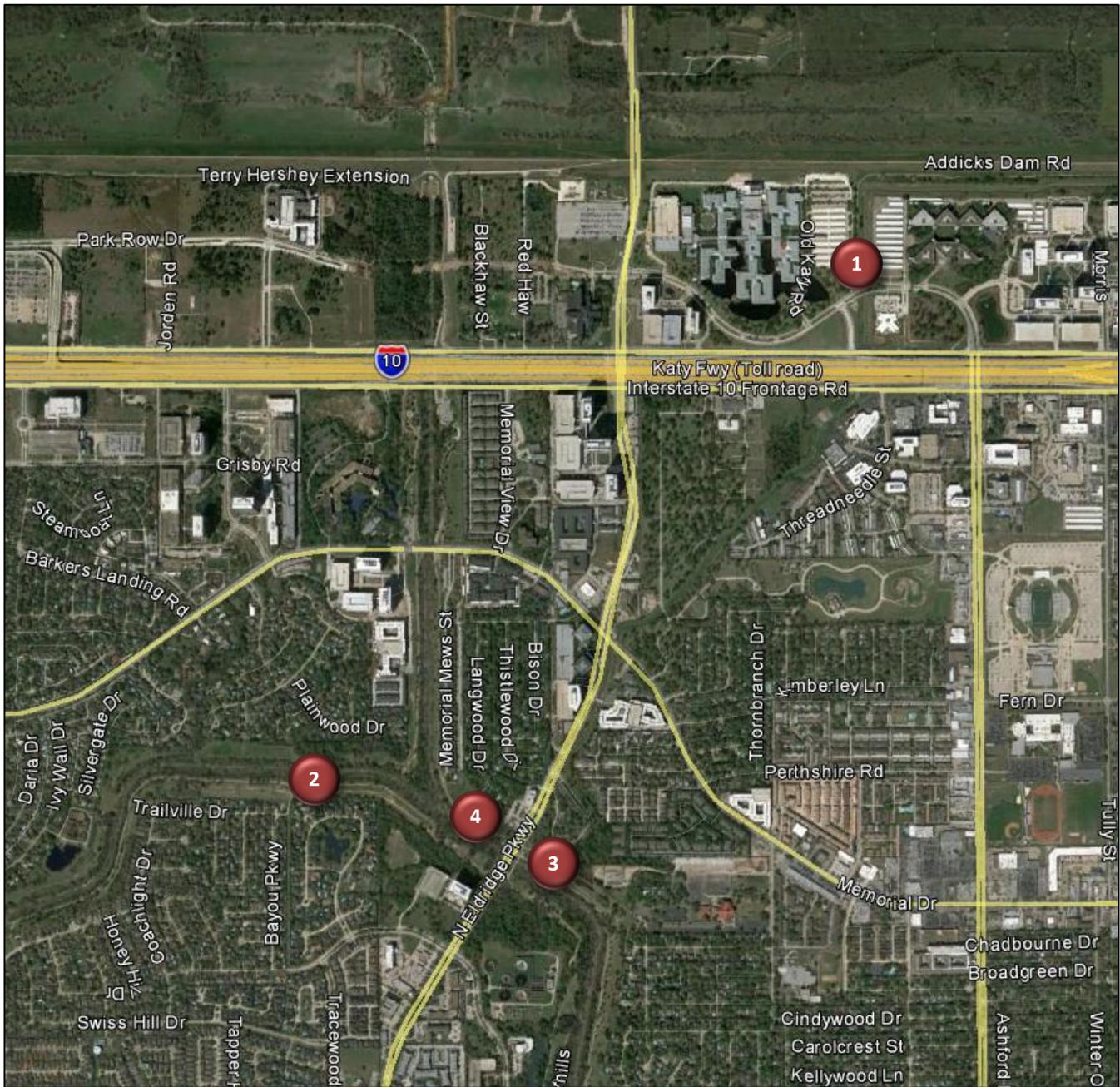
Deployment Summary	
Sponsoring Agency	Energy Corridor District
Deployment Period	Saturday, May 7, 2016 – Sunday, May 22, 2016
Number of Counters Deployed	4
Facility Description	Shared-Use Paths in the Energy Corridor District
Locations Deployed (Houston-Galveston Area Council)	
Counter #1	Turkey Creek Trail at N. Dairy Ashford Road
Counter #2	Terry Hershey Hike and Bike Trail (West of Eldridge Parkway)
Counter #3	Terry Hershey Hike and Bike Trail (East of Eldridge Parkway)
Counter #4	Terry Hershey Hike and Bike Trail at Kendall Neighborhood Library

#### 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



Counter	Location	Total Users	Average Daily Usage
1	Turkey Creek Trail at N. Dairy Ashford Road	731	46
2	Terry Hershey Hike and Bike Trail (West of Eldridge Parkway)	2,702	169
3	Terry Hershey Hike and Bike Trail (East of Eldridge Parkway)	4,984	312
4	Terry Hershey Hike and Bike Trail at Kendall Neighborhood Library	N/A <sup>1</sup>	N/A

<sup>1</sup> Counter #4 malfunctioned and did not collect data during the deployment period.

## Overall Trends

### *Turkey Creek Trail: Higher Weekday Usage*

Usage along Turkey Creek Trail tends to be higher on weekdays than during weekends. On weekdays, usage tends to be highest midday.

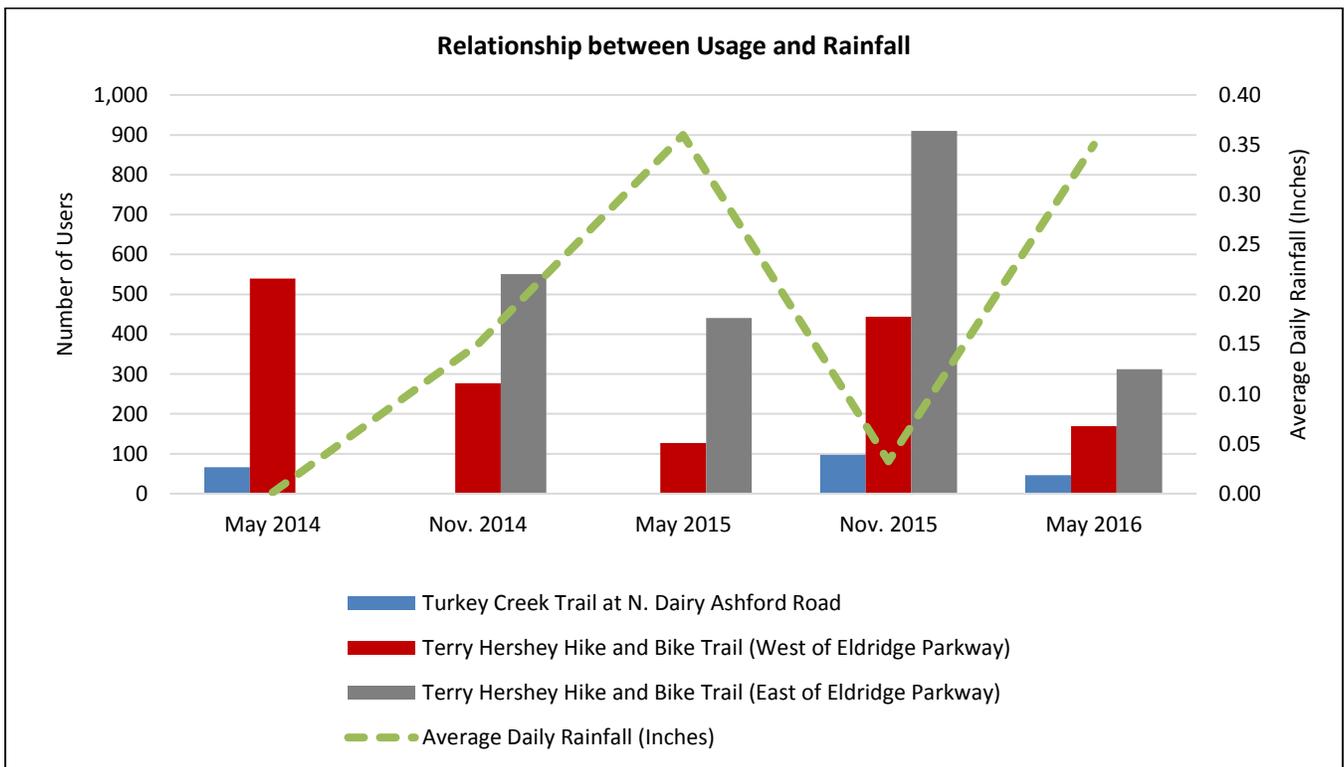
### *Terry Hershey Hike and Bike Trail: Higher Weekend Usage*

Usage along Terry Hershey Hike and Bike Trail tends to be significantly higher on weekends than during weekdays. During weekends, usage tends to be highest in the morning.

### *Lower Usage in May 2016*

Pedestrian/bicycle traffic along shared-use paths tended to be lower in May 2016 than during previous deployments. Lower usage could be attributed to higher rainfall and the closure of connecting trails within nearby Addicks Reservoir and Barker Reservoir.

There seems to be an inverse relationship between average daily rainfall and facility usage. As rainfall increases, pedestrian/bicycle traffic tends to decrease.



**Note:**

Data was not collected along Turkey Creek Trail at N. Dairy Ashford Road in November 2014 or May 2015. Data was not collect along Terry Hershey Hike and Bike Trail east of Eldridge Parkway in May 2014.

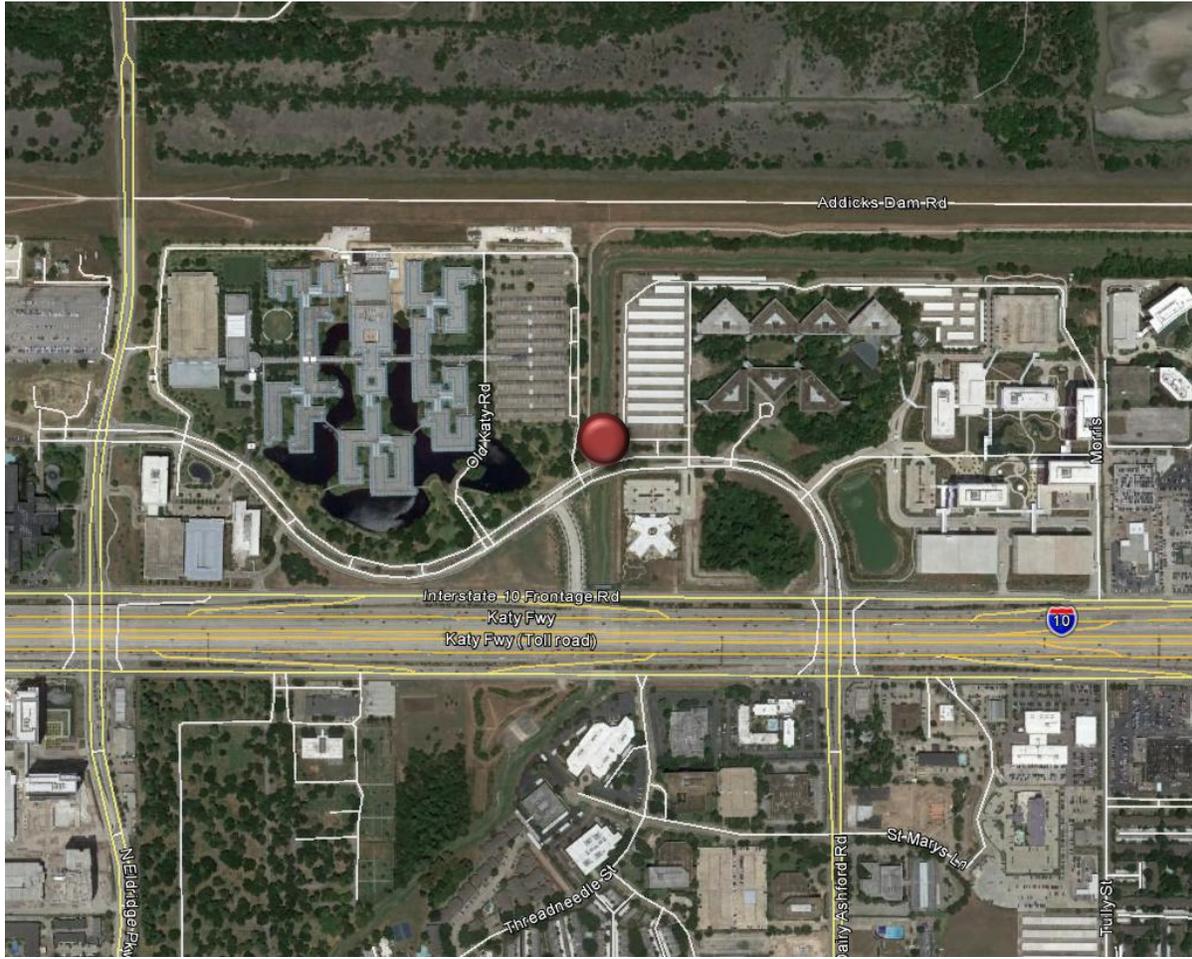
**Counter #1**

Turkey Creek Trail at N. Dairy Ashford Road

Location Information		
Location Name	Turkey Creek Trail at N. Dairy Ashford Road	
Location Description	Shared-Use Path along Turkey Creek (between ConocoPhillips and Shell: Woodcreek Complex)	
Jurisdiction	Energy Corridor District/City of Houston	
Agency Deployed	Energy Corridor District	
GPS Coordinates	29°46'11.7"N, 95°36'20"W	
Surrounding Land Uses	North	Office, Open Space (Addicks Reservoir)
	South	Office, Vacant Land
	East	Office
	West	Office
What object was device secured to?	Sign Post (Bikeway)	
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	N/A (Off-Road Shared-Use Path)	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Nearby (METRO Bus Stops on N. Dairy Ashford Road 550' west and 750' east)	
Shade	No	
Have counts been collected by H-GAC at this location before?	Yes (Counts were collected in May 2014 and November 2015. The counter was also deployed at this location in November 2014 and May 2015, but it did not collect data.)	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be higher on weekdays (59 users/day) than during weekends (24 users/day).</li> <li>• On weekdays, usage is highest midday (11:00 a.m. – 1:00 p.m.).</li> <li>• During weekends, usage remains relatively steady throughout the day, with a slight increase in the late morning (10:00 a.m. – 12:00 p.m.).</li> <li>• Pedestrian/bicycle counts were also collected at this location in May 2014 and November 2015. Average daily usage in May 2016 was the lowest recorded. As in previous years, the facility was busiest in the middle of the day (around lunchtime). During this deployment period, rainfall was high (Average Rainfall: 0.35"/day) and a connecting shared-use path near Addicks Dam was closed (Spring 2016 – Spring 2019).</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 1: Shared-Use Path along Turkey Creek Facing North



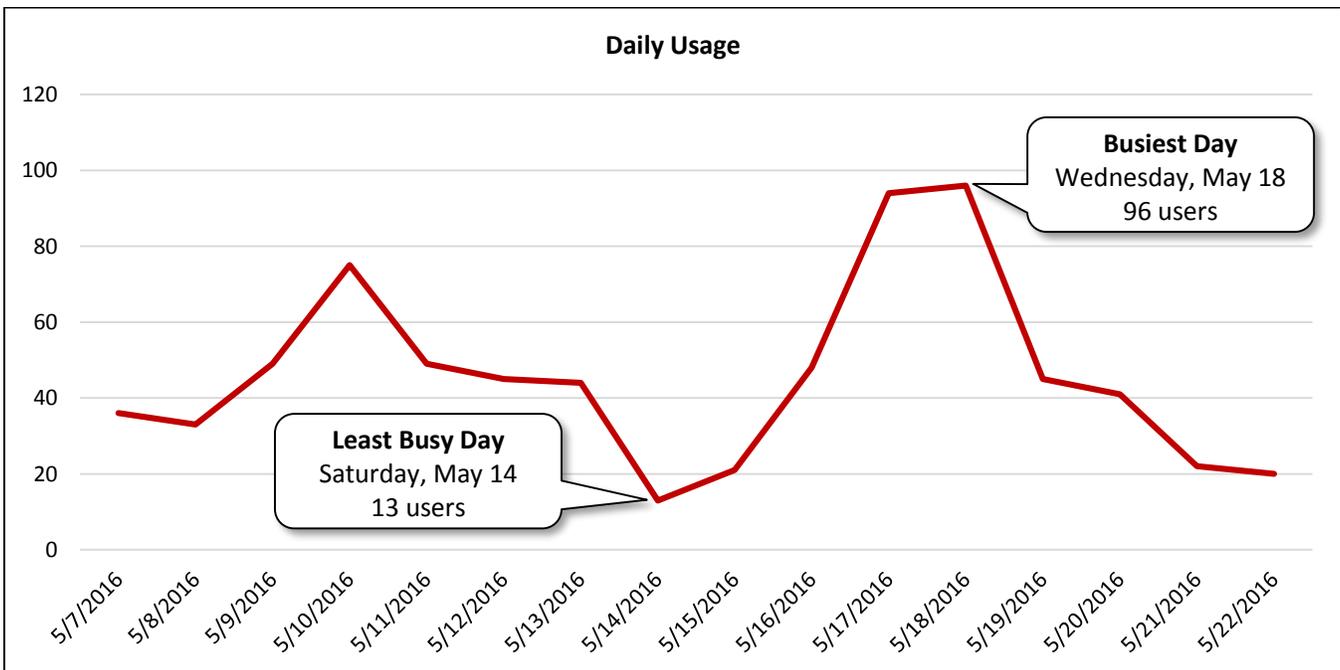
Image 2: Shared-Use Path along Turkey Creek Facing South

**Daily Usage**  
Turkey Creek Trail at N. Dairy Ashford Road

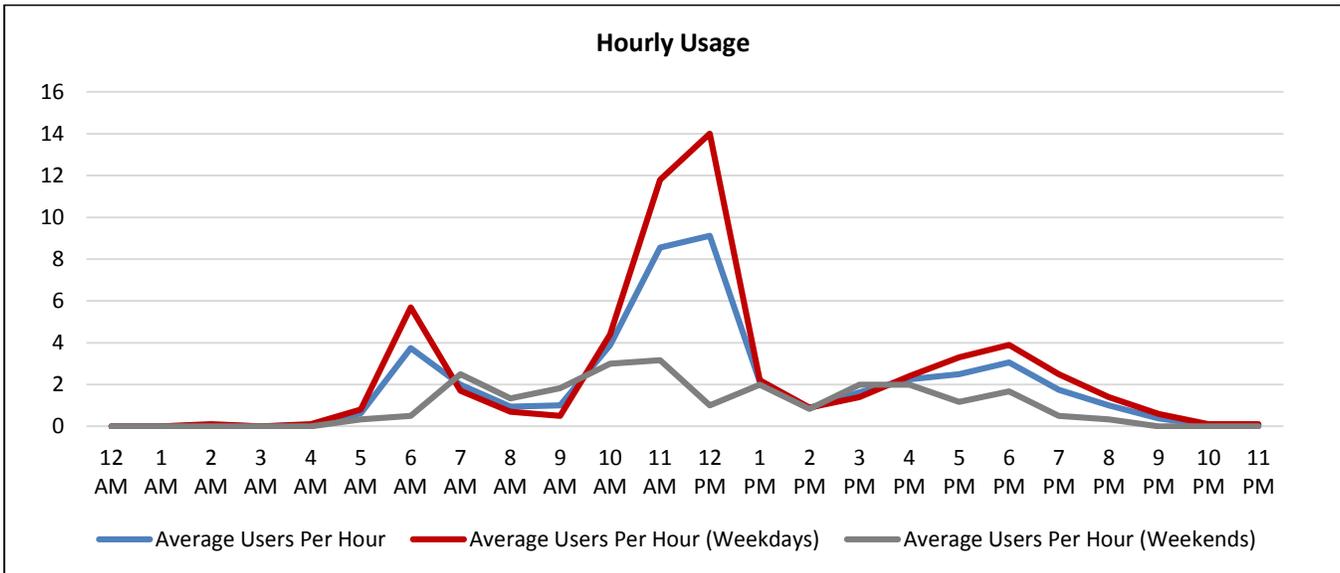
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Saturday, May 7, 2016	36	82	57	0
Sunday, May 8, 2016	33	79	66	0
Monday, May 9, 2016	49	82	71	0.07
Tuesday, May 10, 2016	75	87	72	0
Wednesday, May 11, 2016	49	86	69	0.05
Thursday, May 12, 2016	45	89	71	0.01
Friday, May 13, 2016	44	90	70	0.03
Saturday, May 14, 2016	13	88	66	1.98
Sunday, May 15, 2016	21	81	66	1.37
Monday, May 16, 2016	48	75	66	0.36
Tuesday, May 17, 2016	94	86	66	0
Wednesday, May 18, 2016	96	82	70	0.1
Thursday, May 19, 2016	45	73	64	1.46
Friday, May 20, 2016	41	84	66	0
Saturday, May 21, 2016	22	86	71	0.17
Sunday, May 22, 2016	20	84	73	0

<b>Total</b>	731
<b>Average Daily Usage</b>	46
<b>Average Daily Usage (Weekday)</b>	59
<b>Average Daily Usage (Weekend)</b>	24

\*Weather conditions recorded at KSGR.



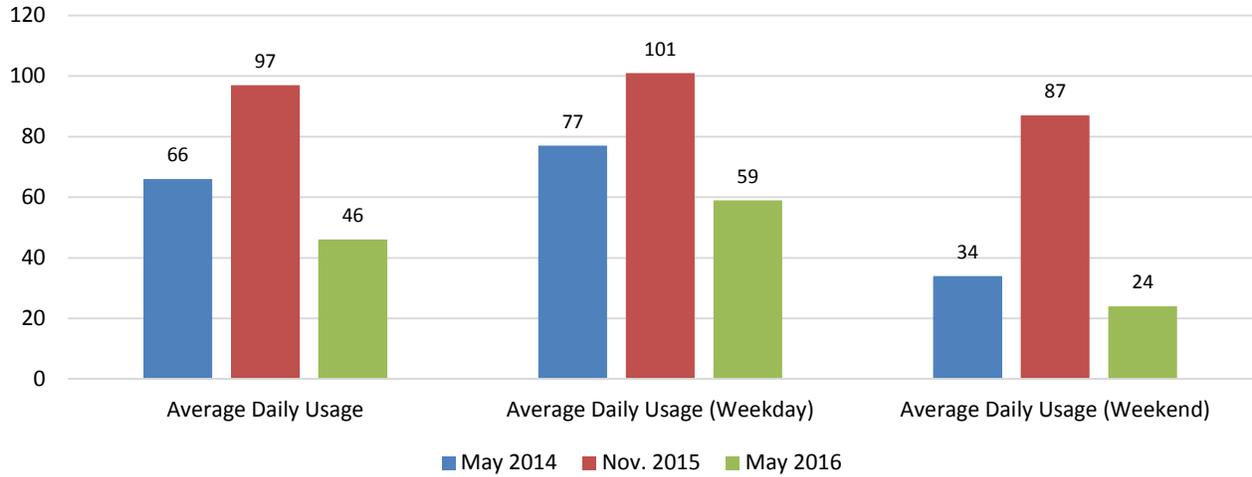
<b>Hourly Usage</b> Turkey Creek Trail at N. Dairy Ashford Road			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.0	0.0	0.0
1:00 a.m.	0.0	0.0	0.0
2:00 a.m.	0.1	0.1	0.0
3:00 a.m.	0.0	0.0	0.0
4:00 a.m.	0.1	0.1	0.0
5:00 a.m.	0.6	0.8	0.3
6:00 a.m.	3.8	5.7	0.5
7:00 a.m.	2.0	1.7	2.5
8:00 a.m.	0.9	0.7	1.3
9:00 a.m.	1.0	0.5	1.8
10:00 a.m.	3.9	4.4	3.0
11:00 a.m.	8.6	11.8	3.2
12:00 p.m.	9.1	14.0	1.0
1:00 p.m.	2.1	2.2	2.0
2:00 p.m.	0.9	0.9	0.8
3:00 p.m.	1.6	1.4	2.0
4:00 p.m.	2.3	2.4	2.0
5:00 p.m.	2.5	3.3	1.2
6:00 p.m.	3.1	3.9	1.7
7:00 p.m.	1.8	2.5	0.5
8:00 p.m.	1.0	1.4	0.3
9:00 p.m.	0.4	0.6	0.0
10:00 p.m.	0.1	0.1	0.0
11:00 p.m.	0.1	0.1	0.0



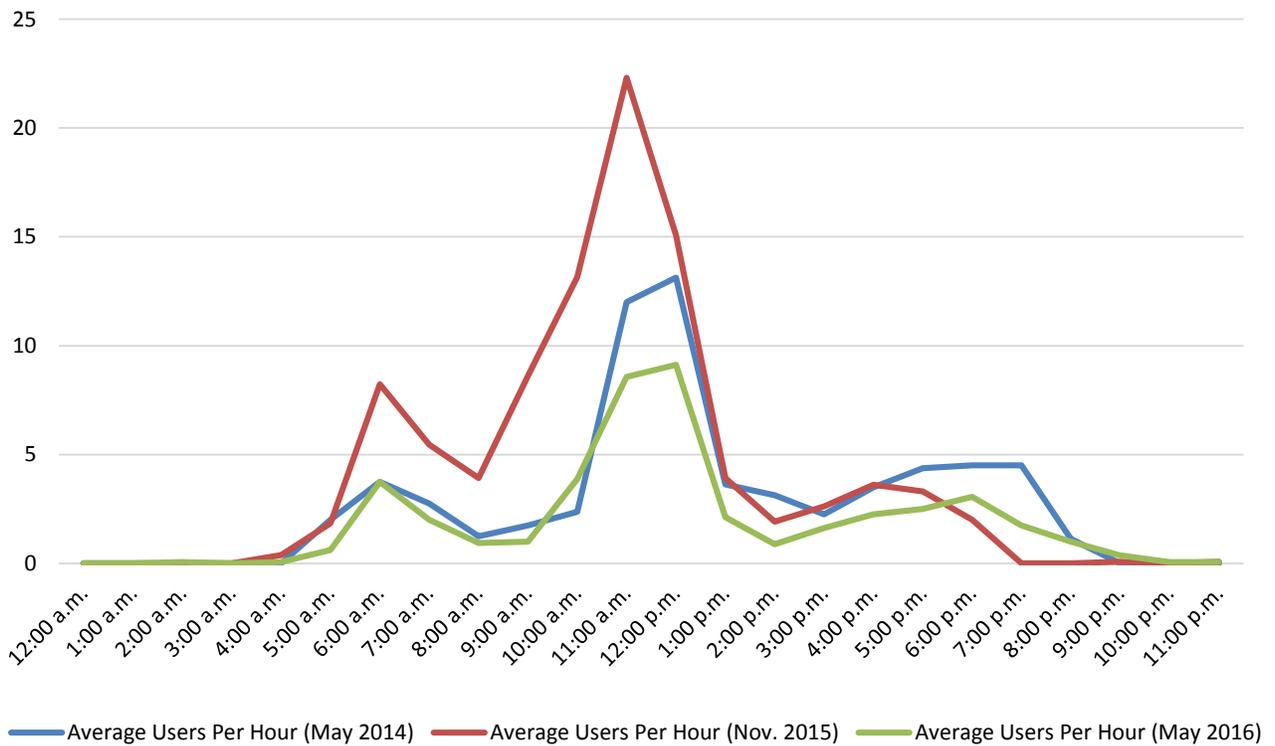
## Historical Comparison

Turkey Creek Trail at N. Dairy Ashford Road

### Comparison: Daily Usage



### Comparison: Hourly Usage



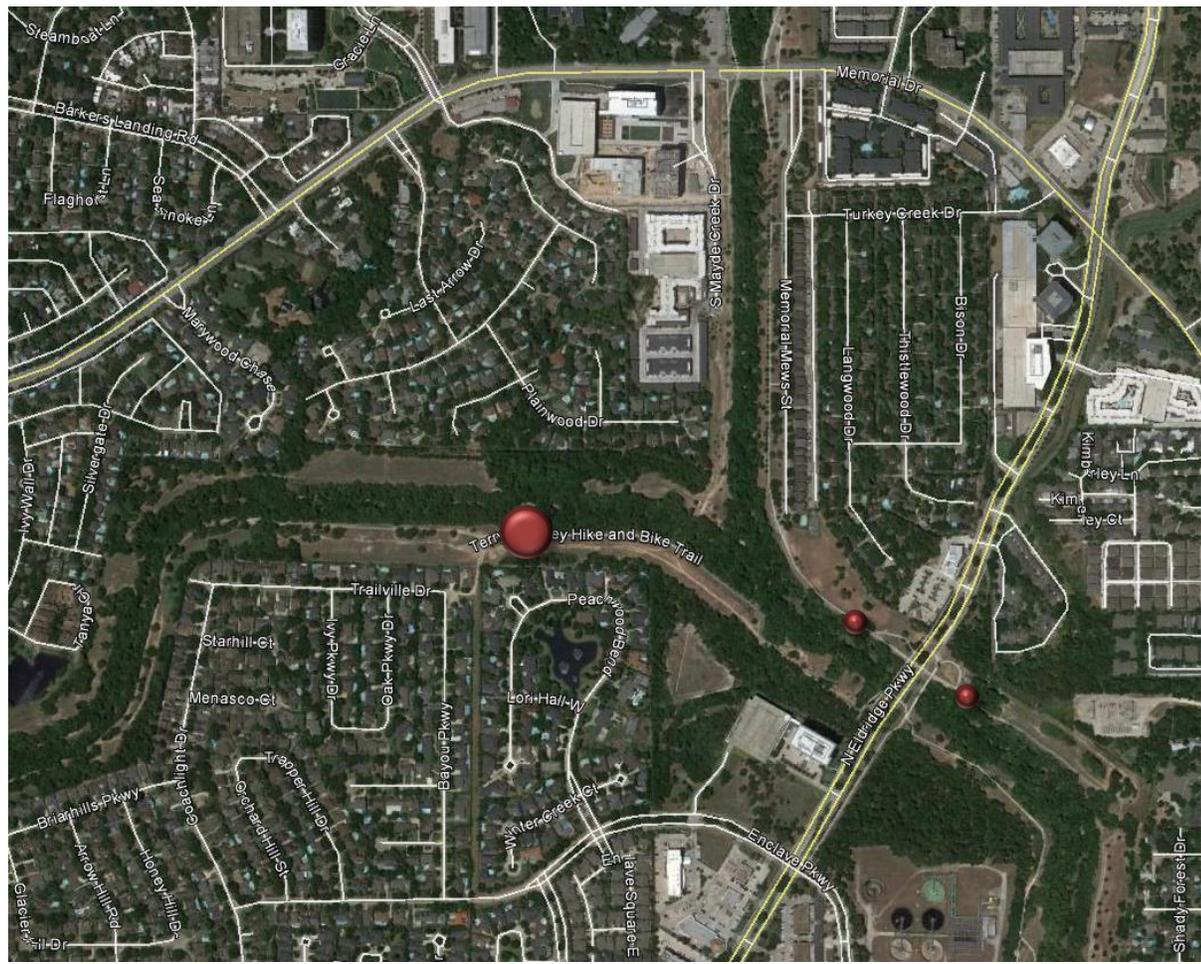
**Counter #2**

Terry Hershey Hike and Bike Trail (West of Eldridge Parkway)

Location Information		
Location Name	Terry Hershey Hike and Bike Trail (West of Eldridge Parkway)	
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°46'16.25"N, 95°37'13.5"W	
Surrounding Land Uses	North	Single-Family Residential
	South	Single-Family Residential
	East	Terry Hershey Park
	West	Terry Hershey Park
What object was device secured to?	Oak Tree	
Sidewalk Width	8'	
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	Fair (Some Major Cracks)	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	N/A (Off-Road Shared-Use Path)	
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, November 2014, May 2015, and November 2015)	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be much higher during weekends (220 users/day) than on weekdays (138 users/day).</li> <li>• On weekdays, usage is high in the morning (7:00 a.m. – 9:00 a.m.) and evening (6:00 p.m. – 9:00 p.m.).</li> <li>• During weekends, usage is highest in the morning (7:00 a.m. – 9:00 a.m.).</li> <li>• Pedestrian/bicycle counts were also collected at this location in May 2014, November 2014, May 2015, and November 2015. Average daily usage in May 2016 was slightly higher than what was recorded in May 2015, but was significantly lower than usage during other deployments. During this deployment period, rainfall was high (Average Rainfall: 0.35"/day); rainfall in May 2015 was comparable (0.36"/day). High water levels in nearby Barker Reservoir resulted in the closure of several connecting trails.</li> </ul>

**Location Information: Map**



**Location Information: Photos**



Image 3: Terry Hershey Hike and Bike Trail Facing East

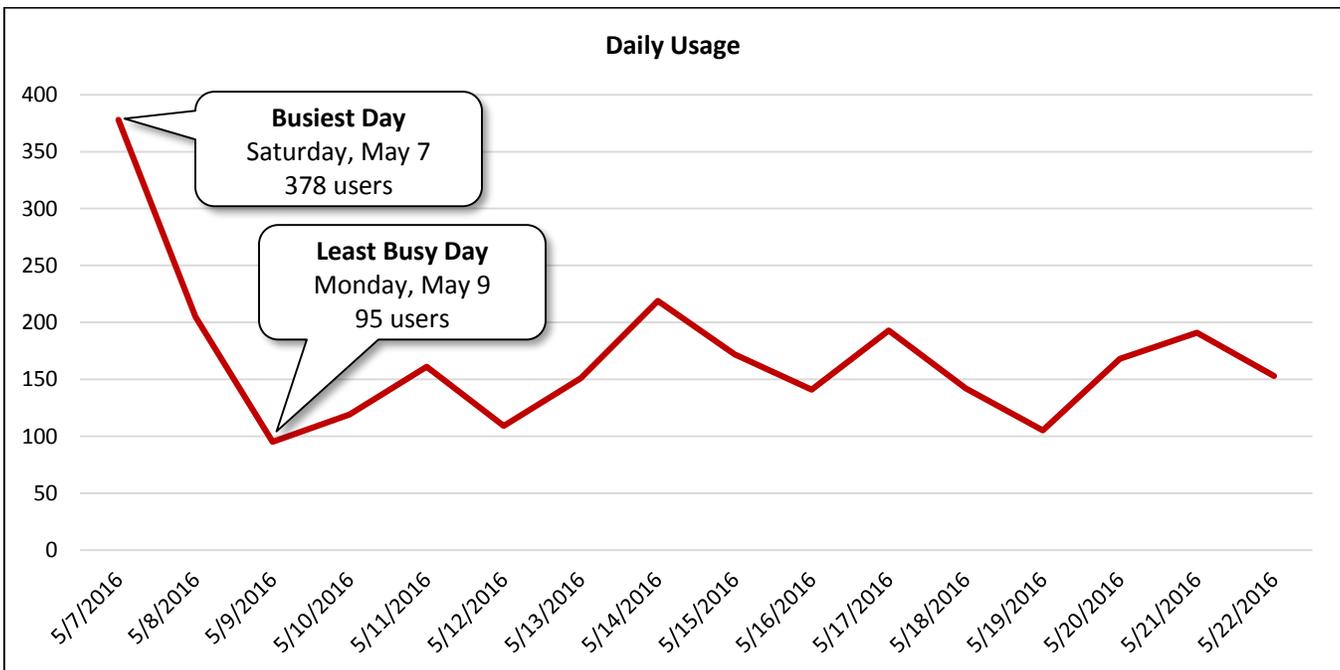


Image 4: Terry Hershey Hike and Bike Trail Facing West

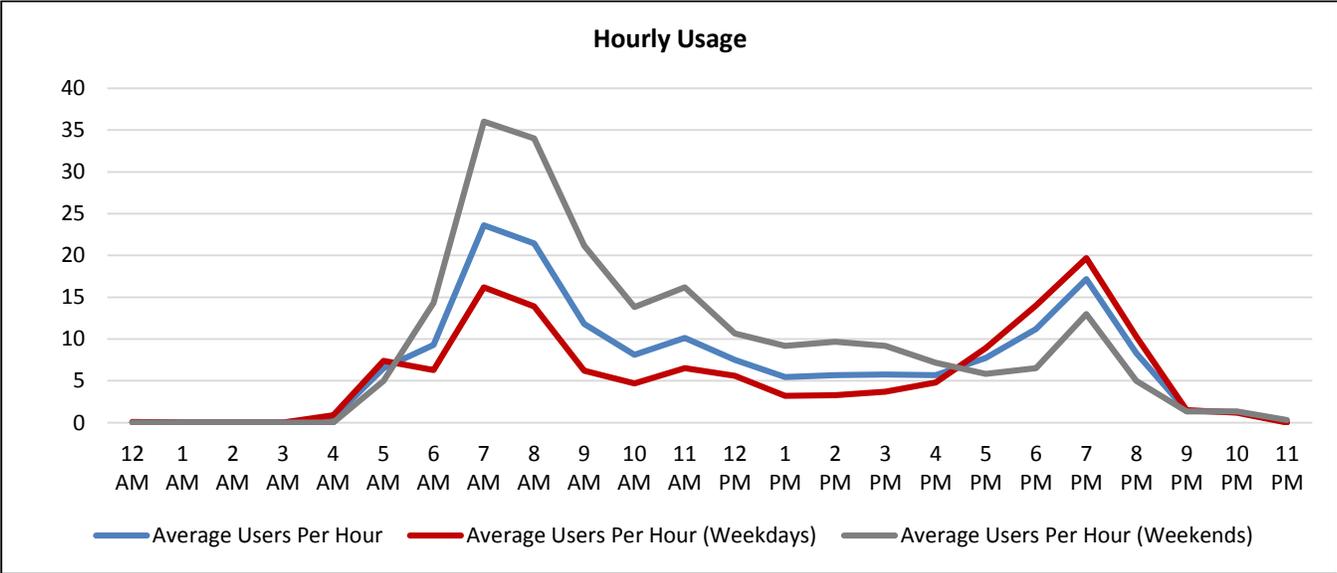
<b>Daily Usage</b> Terry Hershey Hike and Bike Trail (West of Eldridge Parkway)				
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Saturday, May 7, 2016	378	82	57	0
Sunday, May 8, 2016	205	79	66	0
Monday, May 9, 2016	95	82	71	0.07
Tuesday, May 10, 2016	119	87	72	0
Wednesday, May 11, 2016	161	86	69	0.05
Thursday, May 12, 2016	109	89	71	0.01
Friday, May 13, 2016	151	90	70	0.03
Saturday, May 14, 2016	219	88	66	1.98
Sunday, May 15, 2016	172	81	66	1.37
Monday, May 16, 2016	141	75	66	0.36
Tuesday, May 17, 2016	193	86	66	0
Wednesday, May 18, 2016	142	82	70	0.1
Thursday, May 19, 2016	105	73	64	1.46
Friday, May 20, 2016	168	84	66	0
Saturday, May 21, 2016	191	86	71	0.17
Sunday, May 22, 2016	153	84	73	0

<b>Total</b>	2,702
<b>Average Daily Usage</b>	169
<b>Average Daily Usage (Weekday)</b>	138
<b>Average Daily Usage (Weekend)</b>	220

\*Weather conditions recorded at KSGR.



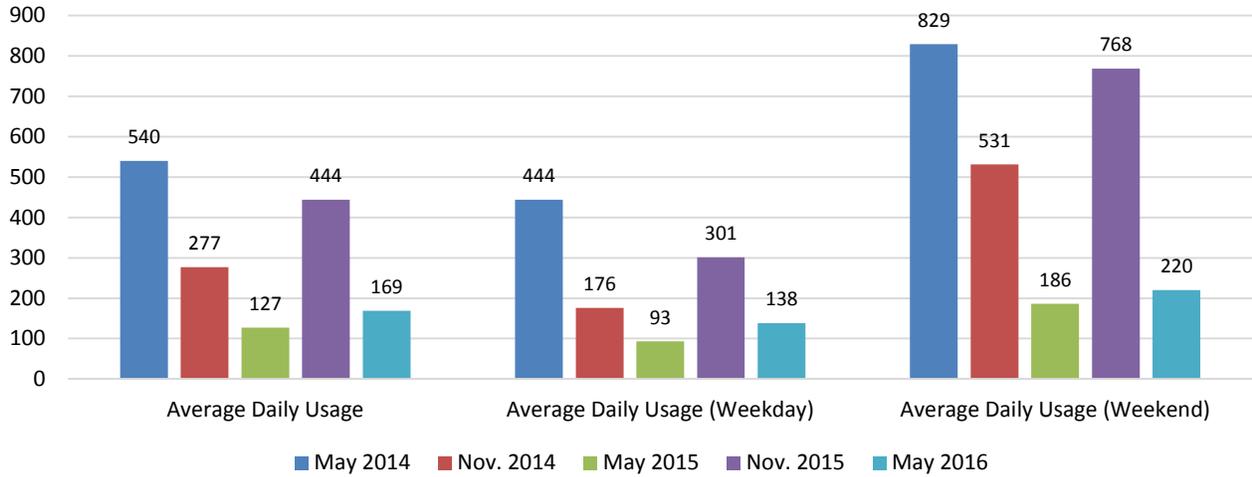
Hourly Usage			
Terry Hershey Hike and Bike Trail (West of Eldridge Parkway)			
Time of Day	Average Users Per Hour	Average Users Per Hour (Weekdays)	Average Users Per Hour (Weekends)
12:00 a.m.	0.1	0.1	0.0
1:00 a.m.	0.0	0.0	0.0
2:00 a.m.	0.0	0.0	0.0
3:00 a.m.	0.0	0.0	0.0
4:00 a.m.	0.6	0.9	0.0
5:00 a.m.	6.5	7.4	5.0
6:00 a.m.	9.3	6.3	14.3
7:00 a.m.	23.6	16.2	36.0
8:00 a.m.	21.4	13.9	34.0
9:00 a.m.	11.8	6.2	21.2
10:00 a.m.	8.1	4.7	13.8
11:00 a.m.	10.1	6.5	16.2
12:00 p.m.	7.5	5.6	10.7
1:00 p.m.	5.4	3.2	9.2
2:00 p.m.	5.7	3.3	9.7
3:00 p.m.	5.8	3.7	9.2
4:00 p.m.	5.7	4.8	7.2
5:00 p.m.	7.8	8.9	5.8
6:00 p.m.	11.2	14.0	6.5
7:00 p.m.	17.2	19.7	13.0
8:00 p.m.	8.3	10.3	5.0
9:00 p.m.	1.4	1.5	1.3
10:00 p.m.	1.3	1.2	1.3
11:00 p.m.	0.1	0.0	0.3



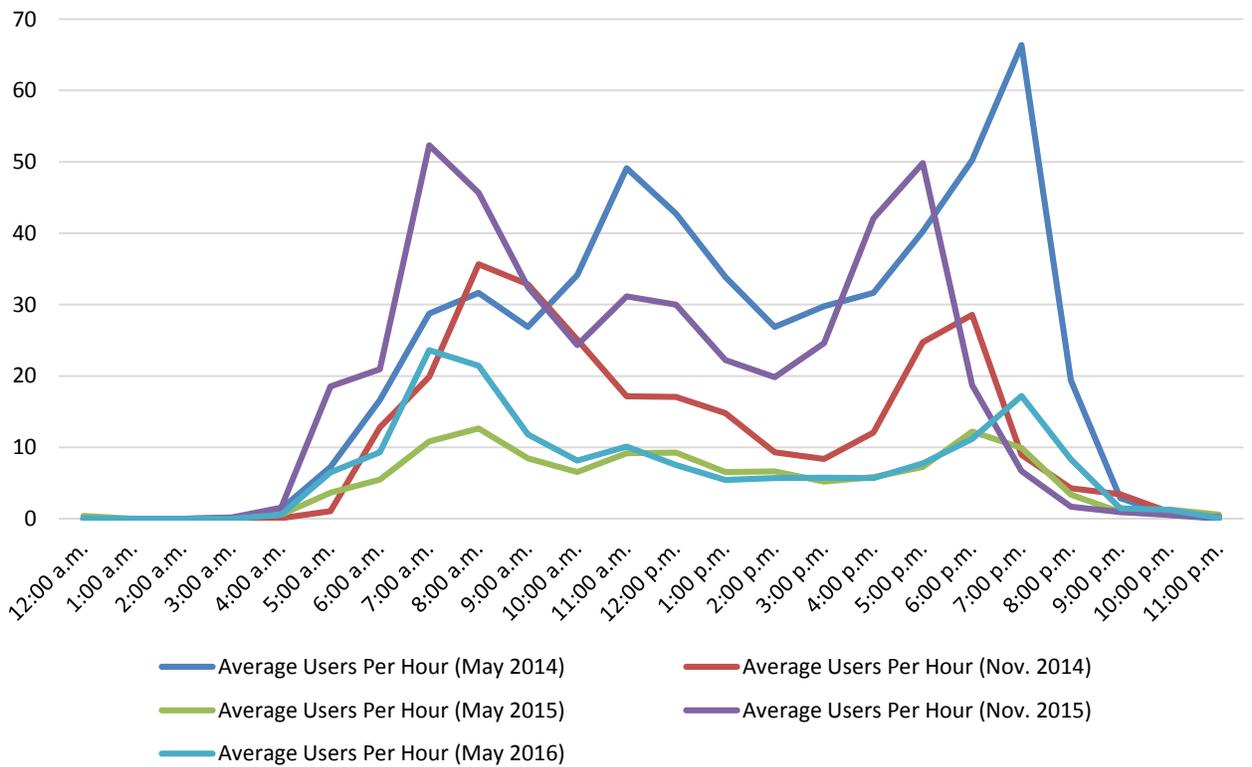
## Historical Comparison

Terry Hershey Hike and Bike Trail (West of Eldridge Parkway)

### Comparison: Daily Usage



### Comparison: Average Usage Per Hour



**Counter #3**

Terry Hershey Hike and Bike Trail (East of Eldridge Parkway)

Location Information		
Location Name	Terry Hershey Hike and Bike Trail (East of Eldridge Parkway)	
Location Description	Terry Hershey Hike and Bike Trail at Eldridge Parkway (East) near Turkey Creek Bridge	
Jurisdiction	Energy Corridor District/City of Houston	
Agency Deployed	Energy Corridor District	
GPS Coordinates	29°46'16.27"N, 95°37'13.79"W	
Surrounding Land Uses	North	Multi-Family Residential, Institutional (Kendall Neighborhood Library), Single-Family Residential
	South	Vacant Land, Office
	East	Terry Hershey Park, Institutional (Church)
	West	Terry Hershey Park, Office, Single-Family Residential
What object was device secured to?	Sign Post (Warning: Cyclists Must Yield to Pedestrians)	
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	Asphalt	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	N/A (Off-Road Shared-Use Path)	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Nearby (METRO Bus Stop 300' North on Eldridge Parkway)	
Shade	Yes	
Have counts been collected by H-GAC at this location before?	Yes (Counts were collected in November 2014, May 2015, and November 2015. The counter was also deployed at this location in May 2014, but it did not collect data.)	

Trends
<ul style="list-style-type: none"> <li>• Usage tends to be much higher during weekends (428 users/day) than on weekdays (242 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 (7:00 a.m. – 10:00 a.m.) and generally decreases as the day progresses.</li> <li>• Pedestrian/bicycle counts were also collected at this location in November 2014, May 2015, and November 2015. Average daily usage in May 2016 was the lowest recorded. During this deployment period, rainfall was high (Average Rainfall: 0.35"/day). High water levels in nearby Barker Reservoir resulted in the closure of several connecting trails.</li> </ul>

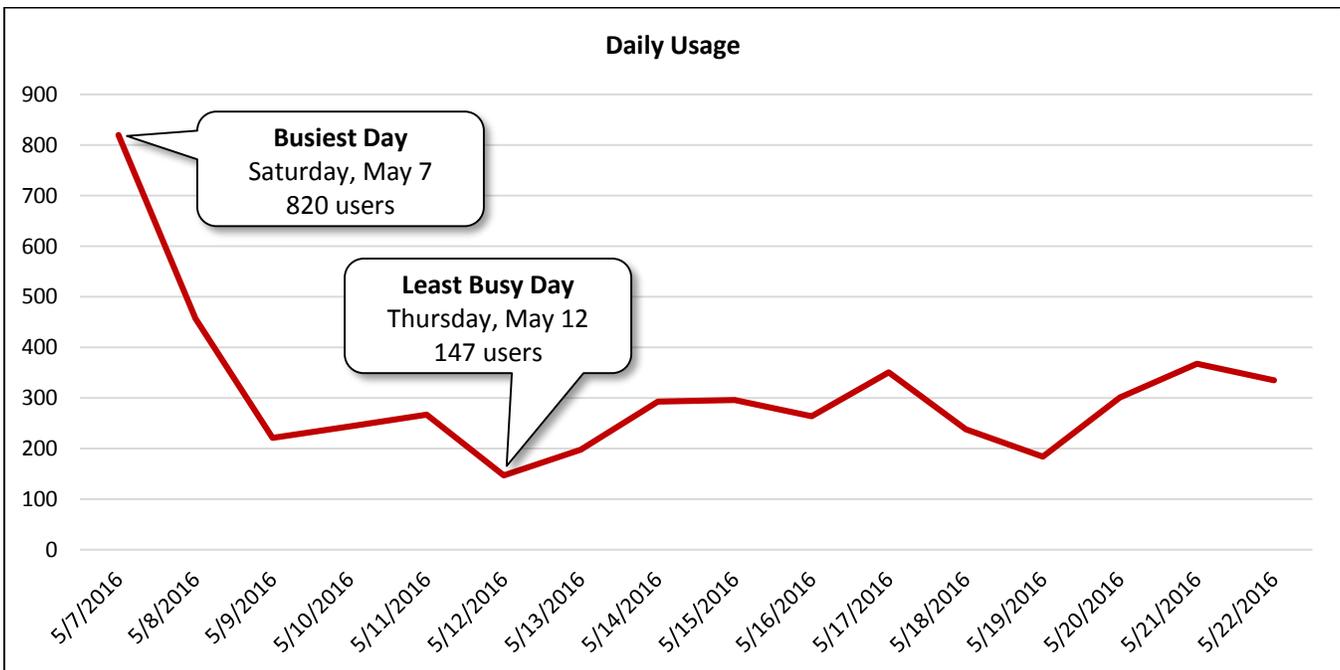


**Daily Usage**  
Terry Hershey Hike and Bike Trail (East of Eldridge Parkway)

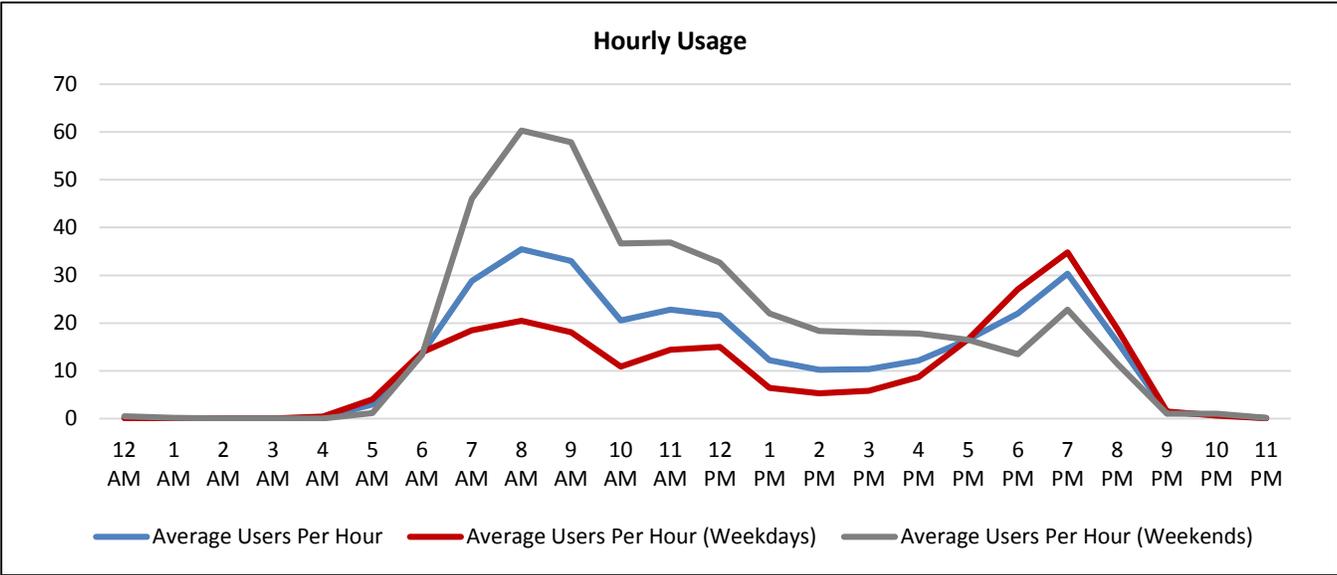
Date	Users	Select Weather Data*		
		High Temperature (°F)	Low Temperature (°F)	Precipitation (inches)
Saturday, May 7, 2016	820	82	57	0
Sunday, May 8, 2016	457	79	66	0
Monday, May 9, 2016	221	82	71	0.07
Tuesday, May 10, 2016	244	87	72	0
Wednesday, May 11, 2016	267	86	69	0.05
Thursday, May 12, 2016	147	89	71	0.01
Friday, May 13, 2016	198	90	70	0.03
Saturday, May 14, 2016	293	88	66	1.98
Sunday, May 15, 2016	296	81	66	1.37
Monday, May 16, 2016	264	75	66	0.36
Tuesday, May 17, 2016	351	86	66	0
Wednesday, May 18, 2016	238	82	70	0.1
Thursday, May 19, 2016	184	73	64	1.46
Friday, May 20, 2016	301	84	66	0
Saturday, May 21, 2016	368	86	71	0.17
Sunday, May 22, 2016	335	84	73	0

<b>Total</b>	4,984
<b>Average Daily Usage</b>	312
<b>Average Daily Usage (Weekday)</b>	242
<b>Average Daily Usage (Weekend)</b>	428

\*Weather conditions recorded at KSGR.



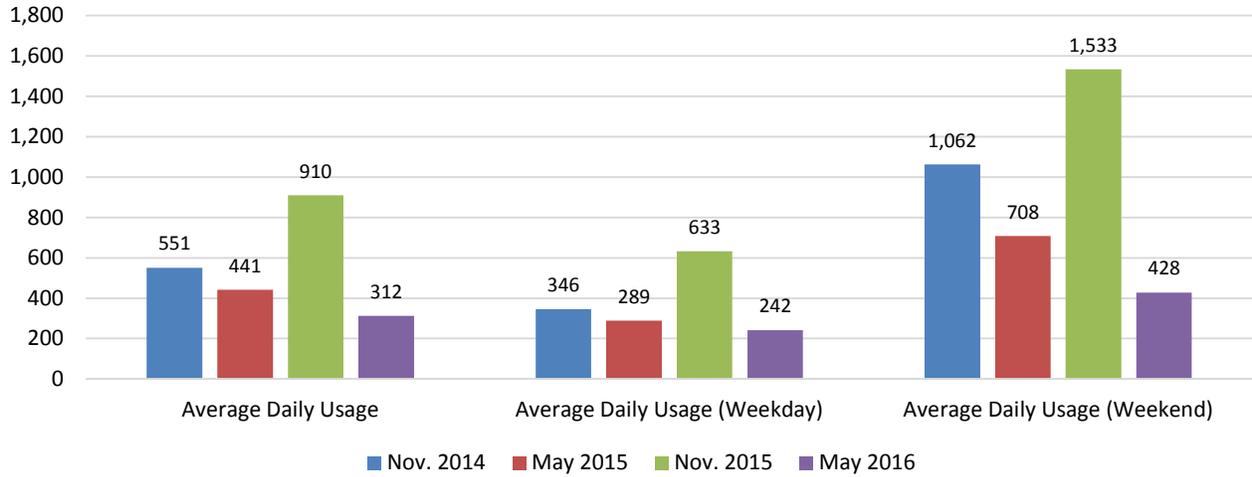
<b>Hourly Usage</b>			
Terry Hershey Hike and Bike Trail (East of Eldridge Parkway)			
<b>Time of Day</b>	<b>Average Users Per Hour</b>	<b>Average Users Per Hour (Weekdays)</b>	<b>Average Users Per Hour (Weekends)</b>
12:00 a.m.	0.3	0.1	0.5
1:00 a.m.	0.1	0.0	0.2
2:00 a.m.	0.0	0.0	0.0
3:00 a.m.	0.0	0.0	0.0
4:00 a.m.	0.3	0.4	0.0
5:00 a.m.	2.9	4.0	1.2
6:00 a.m.	13.7	13.9	13.3
7:00 a.m.	28.8	18.5	46.0
8:00 a.m.	35.4	20.5	60.3
9:00 a.m.	33.0	18.1	57.8
10:00 a.m.	20.6	10.9	36.7
11:00 a.m.	22.8	14.4	36.8
12:00 p.m.	21.6	15.0	32.7
1:00 p.m.	12.3	6.4	22.0
2:00 p.m.	10.2	5.3	18.3
3:00 p.m.	10.4	5.8	18.0
4:00 p.m.	12.1	8.7	17.8
5:00 p.m.	16.6	16.6	16.5
6:00 p.m.	22.0	27.1	13.5
7:00 p.m.	30.3	34.8	22.8
8:00 p.m.	16.1	18.8	11.5
9:00 p.m.	1.3	1.5	1.0
10:00 p.m.	0.8	0.6	1.0
11:00 p.m.	0.1	0.1	0.2



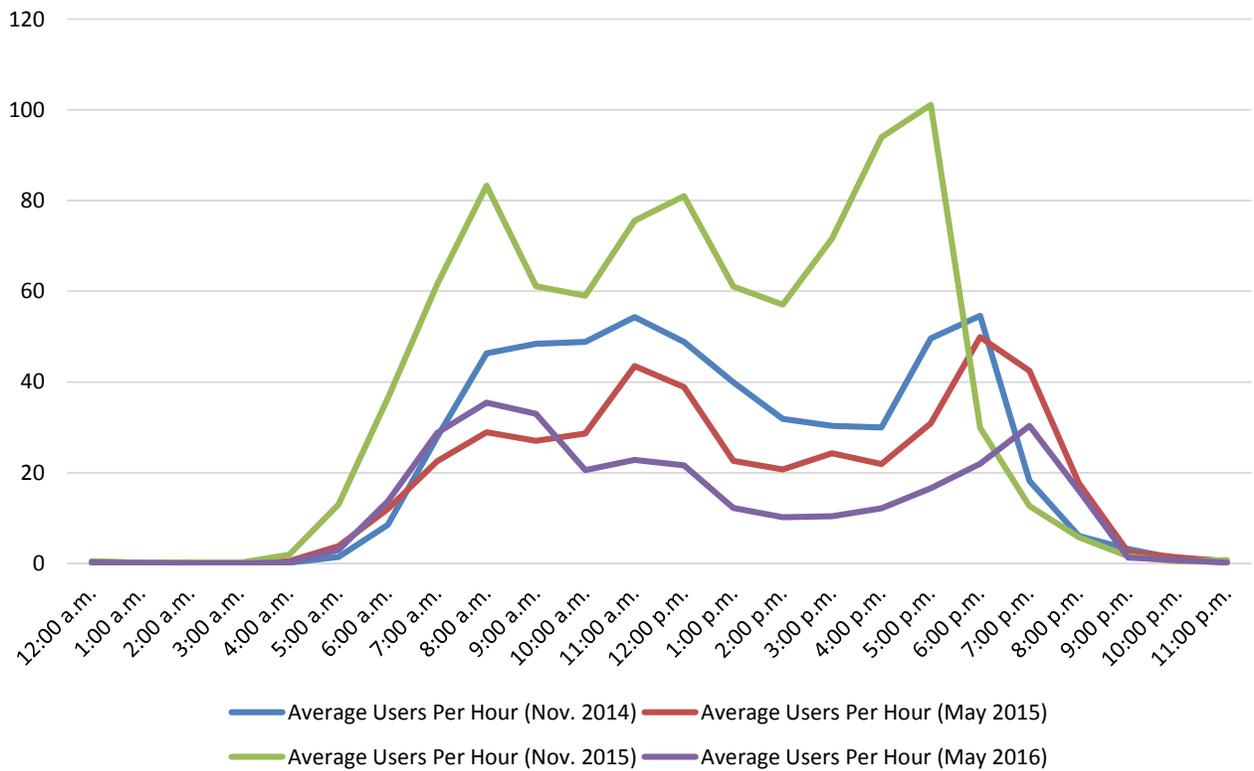
## Historical Comparison

Terry Hershey Hike and Bike Trail (East of Eldridge Parkway)

### Comparison: Daily Usage



### Comparison: Hourly Usage

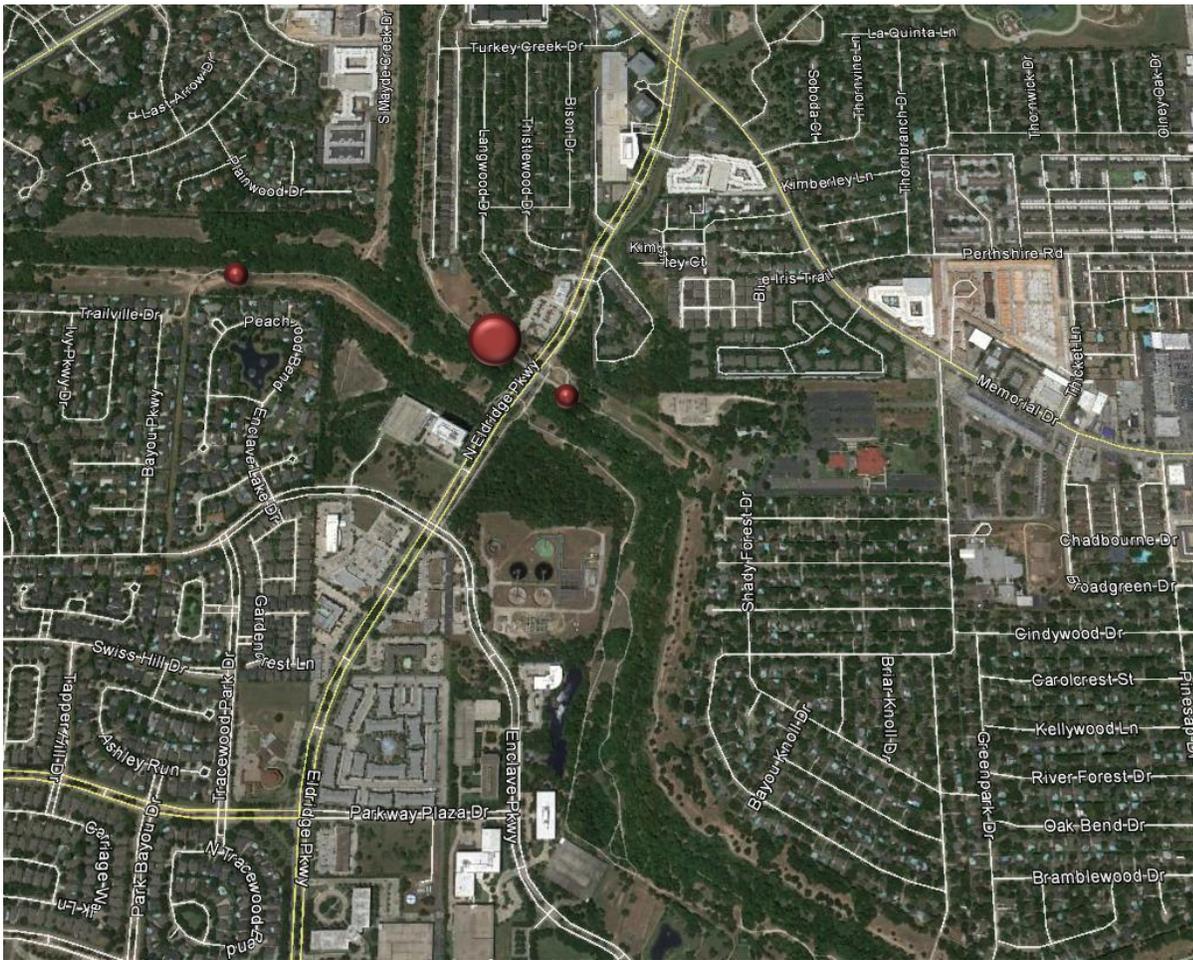


**Counter #4**

Terry Hershey Hike and Bike Trail at Kendall Neighborhood Library

Location Information		
Location Name	Terry Hershey Hike and Bike Trail at Kendall Neighborhood Library	
Location Description	Terry Hershey Hike and Bike Trail: West of Eldridge Parkway (North Bank of Buffalo Bayou) Just South of Kendall Neighborhood Library	
Jurisdiction	Energy Corridor District/City of Houston	
Agency Deployed	Energy Corridor District	
GPS Coordinates	29°46'19.44"N, 95°37'19.32"W	
Surrounding Land Uses	North	Multi-Family Residential, Institutional (Kendall Neighborhood Library), Single-Family Residential
	South	Vacant Land, Office
	East	Terry Hershey Park, Institutional (Church)
	West	Terry Hershey Park, Office, Single-Family Residential
What object was device secured to?	Sign Post (Warning: Cyclists Must Yield to Pedestrians)	
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	Asphalt	
ADA Ramps	Yes	
Sidewalk Condition	Good	
Speed Limit	N/A (Off-Road Shared-Use Path)	
Street Lighting	N/A (Off-Road Shared-Use Path)	
Street Traffic Volume	N/A (Off-Road Shared-Use Path)	
Transit	Nearby (METRO Bus Stop 300' North on Eldridge Parkway)	
Shade	Yes	
Have counts been collected by H-GAC at this location before?	No	
Notes	<b>Counter #4 malfunctioned and did not collect data during the deployment period.</b>	

**Location Information: Map**



**Location Information: Photos**



Image 7: Terry Hershey Hike and Bike Trail Facing East



Image 8: Terry Hershey Hike and Bike Trail Facing West

## Participants

Energy Corridor District  
[www.energycorridor.org](http://www.energycorridor.org)

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/>