

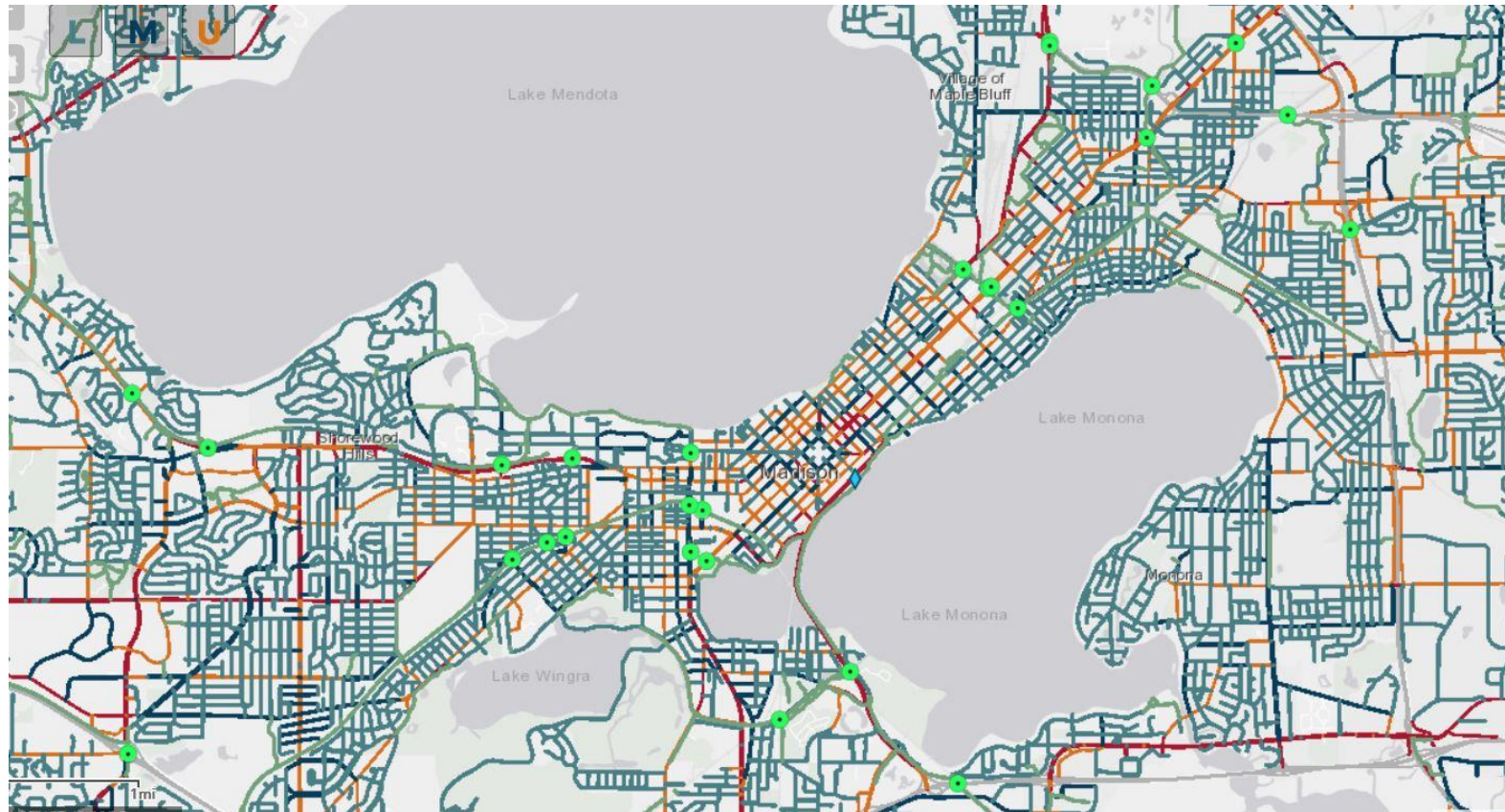


# BICYCLE RIDING IN MADISON WI

City of Madison Streets Division



# MADISON WI, PLATINUM-LEVEL\* BICYCLE FRIENDLY COMMUNITY



\*The League of American Bicyclists  
[www.bikeleague.org](http://www.bikeleague.org)

# CONTINUOUS EXPANSION AND INTERCONNECTIVITY

PROPOSALS IN DESIGN	
<b>BIKE LANES</b>	<a href="#">What is this?</a>
Anderson St., Stoughton Rd to International Ln	
Badger Rd., Park St East to Overpass	
Beltline Hwy Frontage Rd, Seminole Hwy to Atticus Ln	
Bike Lanes on Whitney Way	
Buffered Bike lane on South Point Rd	
Corporate Dr., Milwaukee St to Blettner	
East Springs, Zeier Rd to High Crossing Blvd	
Hammersley, Rd Home Depot to Whitney Way	
High Crossing, Am Fam to City View	
Northport Dr., West CPL to Sherman	
<b>LIGHTING</b>	
Acewood Bike Trail Lighting	
<b>BICYCLE AND PEDESTRIAN SAFETY PROJECTS</b>	
Bike/Ped Crossing modifications First St at E. Johnson	
Crosswalk improvements, & walk timers Sherman Ave at Aberg	

## Bike



### Active Projects

- 1
**Atwood Avenue**  
Project Status: In Design

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- 2
**Blair St / John Nolen Dr Corridor Study**  
Project Status: Construction

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- 3
**Cannonball Path Phase 6**  
Project Status: Planning

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- 4
**Capital City Path Segment 1 (Buckeye Rd to Dondee Road)**  
Project Status: Construction

---

- 5
**Capital City Path Segment 4-6 (Vondron Road to I-39/90)**

# FACILITIES DESIGNED FOR ALL LEVELS OF RIDERS

## Low-Stress Bike Route Finder

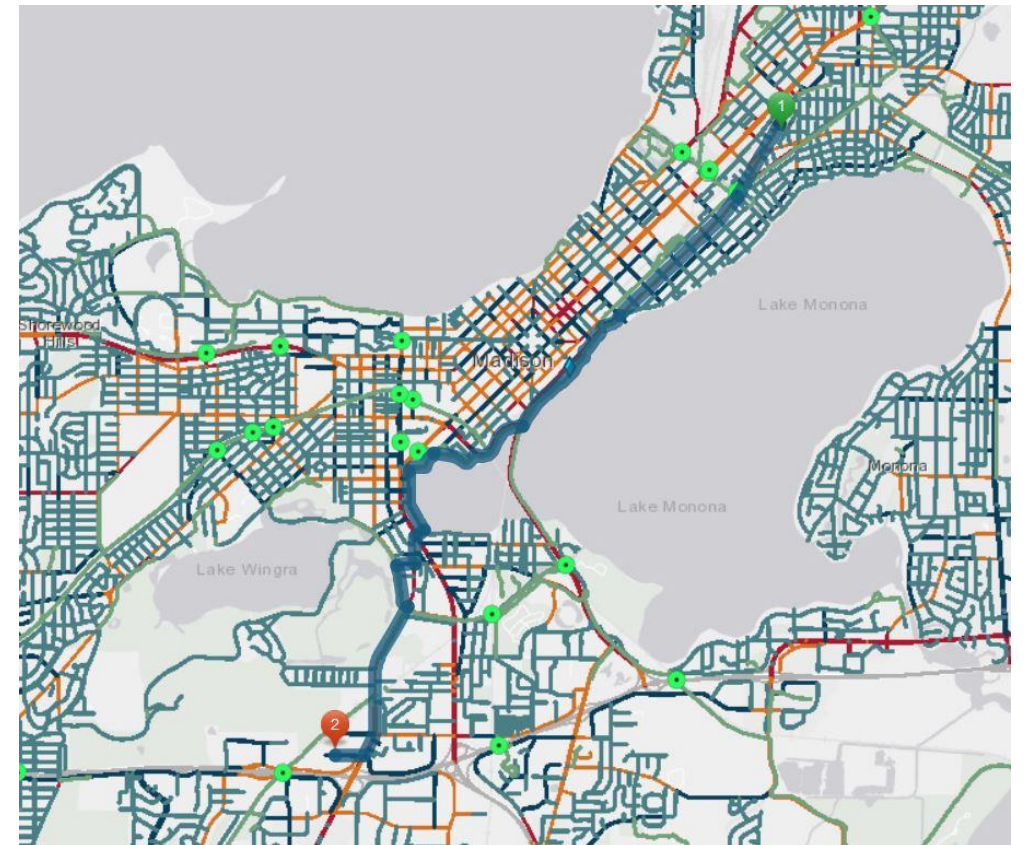
### Disclaimer

The Low-Stress Bicycle Route Finder was developed to assist bicyclists in identifying the urban streets on which they would be comfortable riding and to assist them in planning routes using those streets and paths to access desired destinations.

The map and suggested bicycling routing are based the Bicycle Level of Traffic Stress (LTS) system. It should be noted that this system does not account for pavement quality, access control, street grades, and others factors. Also, the routing tool is a first-of-its-kind application and thus should be used with caution. The user of this map and routing application bears full responsibility for his or her safety. Bicyclists should exercise good judgment and obey all traffic laws on all streets regardless of the bicycle LTS shown on this map and suggested bicycle routing. The City of Madison and Madison Area Transportation Planning Board and the individuals who contributed to the development of this

Do not show this splash screen again.

OK



# YEAR ROUND MAINTENANCE





# SPECIALIZED EQUIPMENT

PATH  
SWEEPER

# AMENITIES

## MONONA TERRACE BIKE ELEVATOR / BIKE REST STATION





# INNOVATIONS

## HOW TO USE A BIKE BOX

When the light is red or turning red, enter the bike box along the bike lane. Once you are in the bike box, position yourself according to the direction you are intending to go.

**Turning left:** Move to the left side of the bike box and signal that you're turning left.

**Going Straight:** Position yourself in line with your destination lane on the far side of the intersection — generally on the right-hand side of the road — but far enough from the curb to provide a safe clearance from parked cars and discourage motorists from passing if the lane is too narrow to do so safely.

**Turning right:** Move close to the right edge of the roadway and signal that you're turning right.

## WHY GREEN?

Green is the exclusive color approved by the Federal Highway Administration for testing for use in bicycle facility marking.



WHAT TO DO.



If you have questions, comments or feedback about bike boxes, please contact the Madison Traffic Engineering Division (608) 266-4761 or visit [www.cityofmadison.com/bikeMadison](http://www.cityofmadison.com/bikeMadison)

Please be safe and courteous. There's a lot riding on it.

## Get Behind It THE BIKE BOX



WAIT BEHIND...

WATCH AHEAD...

BE SAFE.



BIKCYLISTS STOP IN THE BIKE BOX TO BE MORE VISIBLE. MOTORISTS WAIT BEHIND STOP LINE.

## WHAT MOTORISTS SHOULD KNOW

When the traffic signal is yellow or red, motorists must stop at the white stop line behind the green bike box. Don't stop on top of the bike box. Keep it clear for bicyclists to use.

When the light turns green, motorists and bicyclists may move through the intersection as usual, with bicyclists going first. Motorists turning right should signal and watch for bicyclists to their right, especially in the green bike lane.

## WHAT BICYCLISTS SHOULD KNOW

When the Traffic signal is yellow or red, enter the bike box from the approaching green bike lane. Stop before the crosswalk.

When the light is green, proceed as normal. Be aware of right-turning motorists.

## WHY ARE BIKE BOXES BEING INSTALLED?

Bike Boxes improve conditions for both bicyclists and motorists at intersections by

- increasing the visibility of bicyclists
- helping bicyclists make safer turns and crossings.

The main goals are:

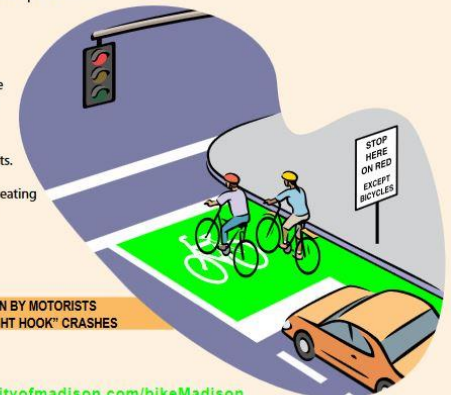
- to prevent collisions between motorists turning right and bicyclists going straight.
- to allow bicyclists to get into the proper lane position for left turns or continuing straight when there are parked cars

## BIKE BOXES

Increase safety when drivers are making right turns by allowing cyclists to move in front.

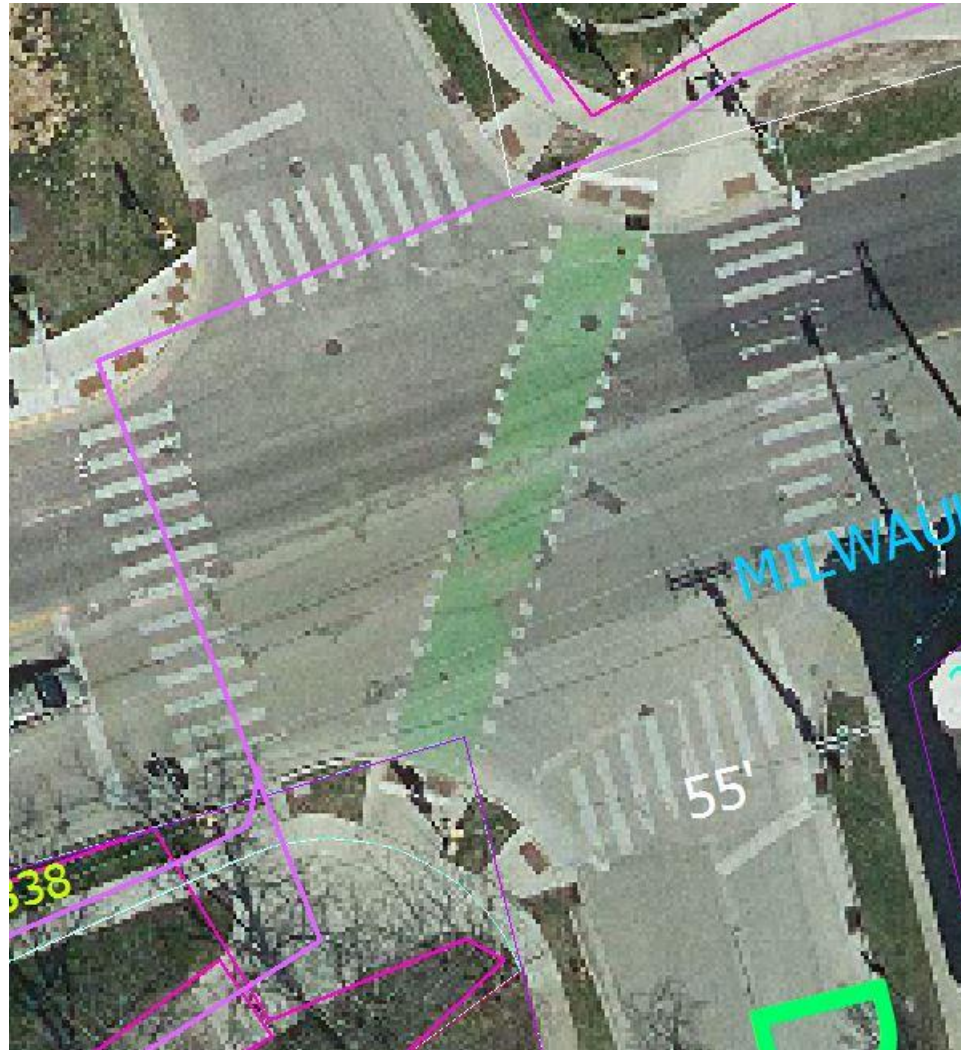
- Increase safety by reminding motorists to be alert for bicyclists.
- Encourage more bicycling by creating a safer, more comfortable road environment.

BIKCYLISTS ARE EASILY SEEN BY MOTORISTS REDUCING THE RISK OF "RIGHT HOOK" CRASHES



(608) 266-4761 [www.cityofmadison.com/bikeMadison](http://www.cityofmadison.com/bikeMadison)

# DIAGONAL BIKE CROSSINGS

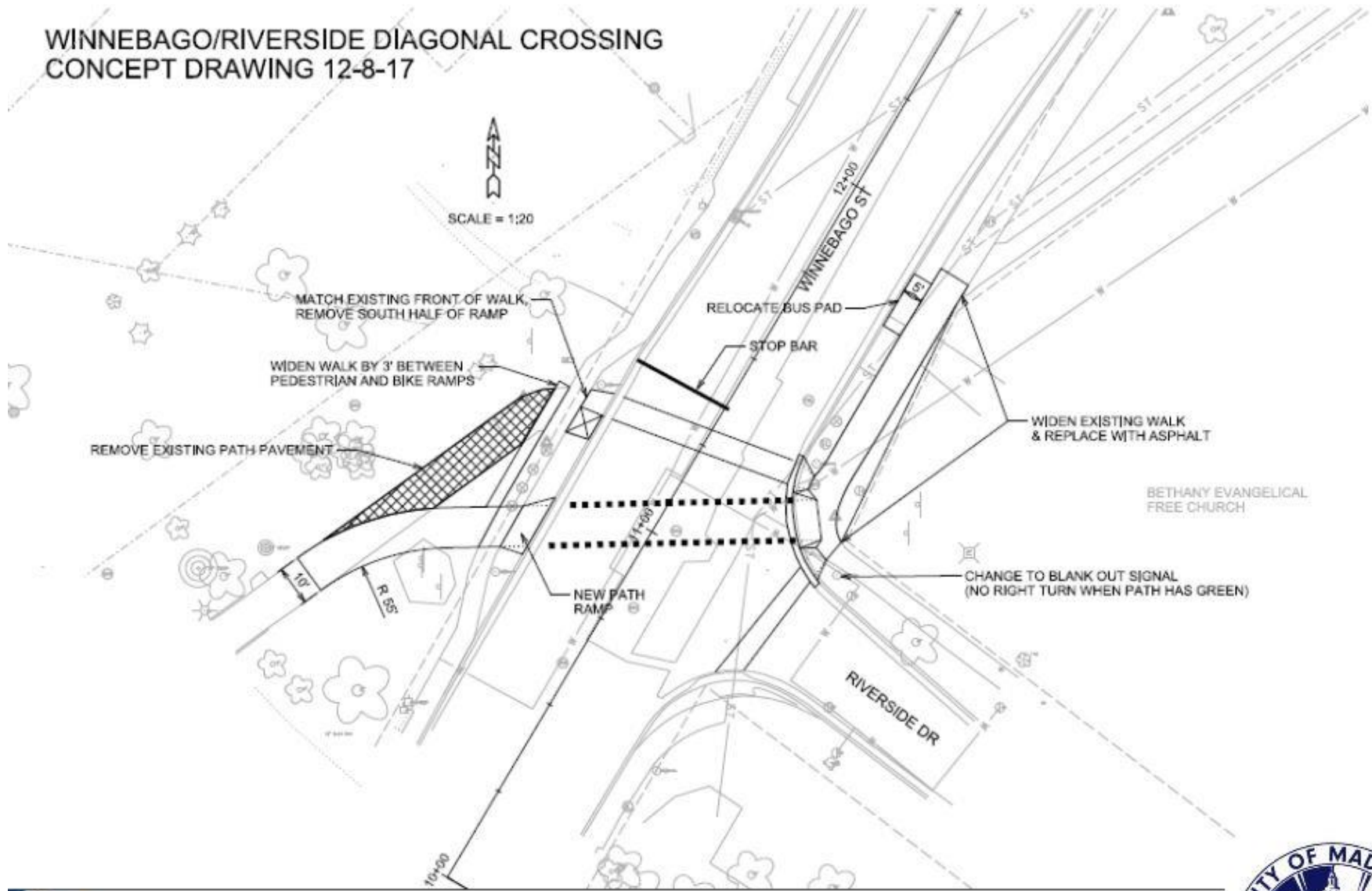




## MONROE ST DIAGONAL BIKE CROSSING

WHEN SIGNALLED GREEN FOR BIKE CROSSING, VEHICLE TRAFFIC IS SIGNALLED TO STOP IN ALL DIRECTIONS, PEDESTRIANS ARE DIRECTED TO CROSSWALKS

# WINNEBAGO/RIVERSIDE DIAGONAL CROSSING CONCEPT DRAWING 12-8-17



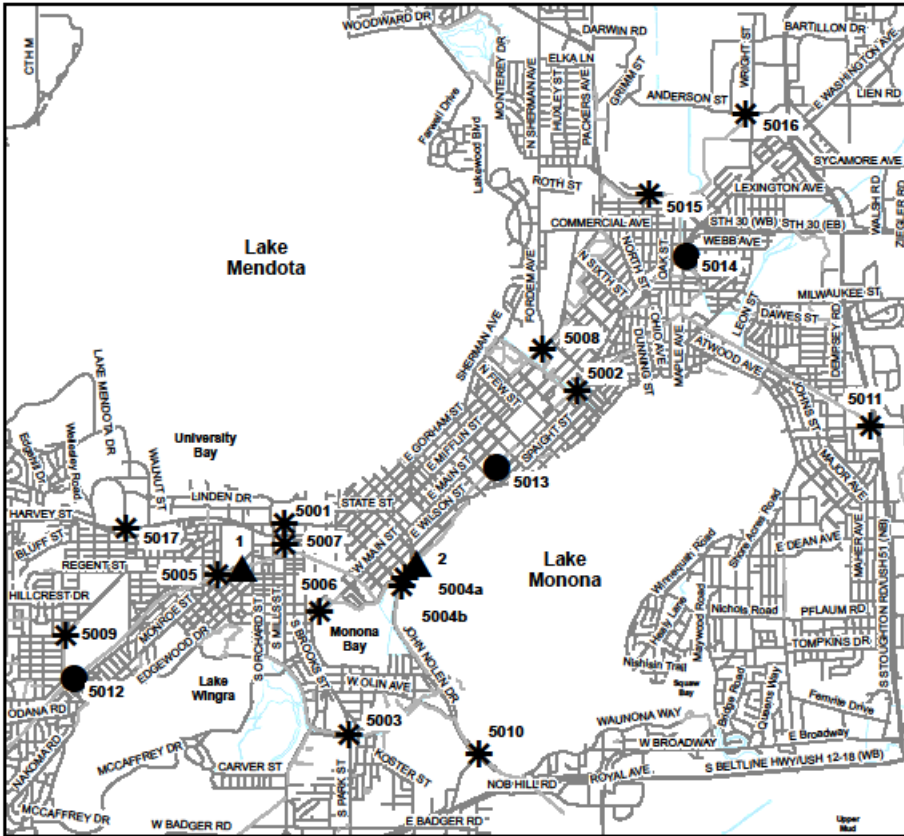
EXPANDING  
FACILITIES WITH  
COMMUNITY  
INPUT



# BICYCLE BOULEVARDS



## City of Madison - Traffic Engineering Bicycle Station Counts - Daily Traffic



**\* Monthly Bicycle Stations Connected to a Traffic Signal**

- 5001) University Av at Mills St
- 5002) Eastrail Path at Winnebago St
- 5003) Wingra Creek Path at Park St
- 5004a) Cap City Trail/John Nolen by Bridge
- 5004b) Cap City Trail/John Nolen by Station
- 5005) Southwest Path at Breese Ter
- 5006) Brittingham Park at Monona Bay
- 5007) Dayton at Mills Westbound bike lane
- 5008) Sherman Flyer Path at Johnson St
- 5009) Southwest at Speedway/Glenway
- 5010) Cap City Trail at Rimrock Rd
- 5011) Eastrail at Cottage Grove Rd
- 5015) Starkweather Path at Aberg Av
- 5016) Starkweather Path at Anderson St
- 5017) Campus Bike Path at Highland Av

**● Monthly Bicycle Stations Connected to a Stand Alone Traffic Counter**

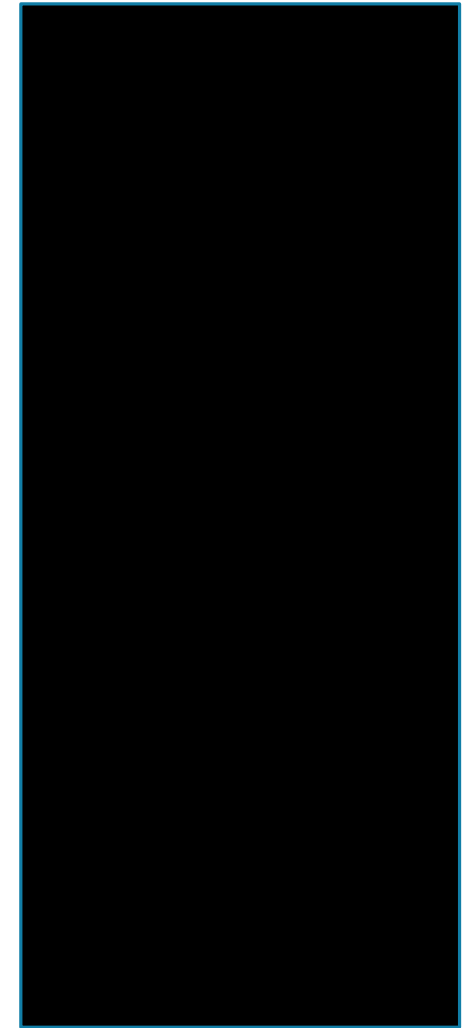
- 5012) Southwest Path at Glenway St
- 5013) Cap City Trail at Paterson St
- 5014) Starkweather Creek Path at Darbo Dr

**▲ Eco-Counter Stations**

- 1) Southwest Bike Path at Monroe St
- 2) Capital City Trail at North Shore Dr

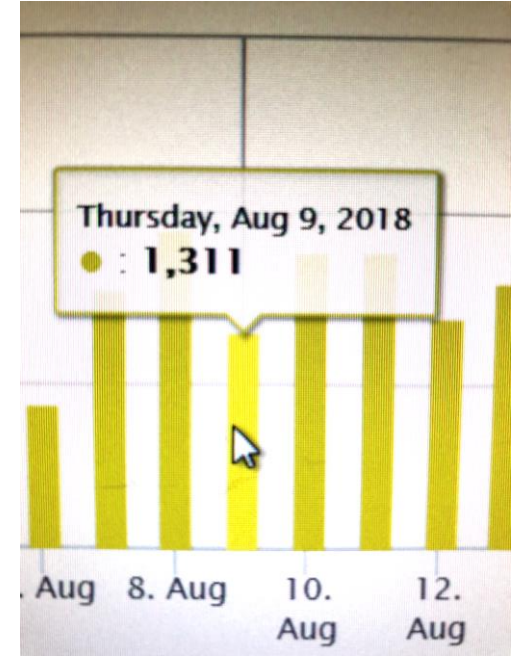
s80803\_DailyTraffic Count  
revised: 10-10-17 CTY  
s:\TheCityCount\Programs\Traffic Count\StationMap0803\_count.mxd

# AND LOTS OF DATA



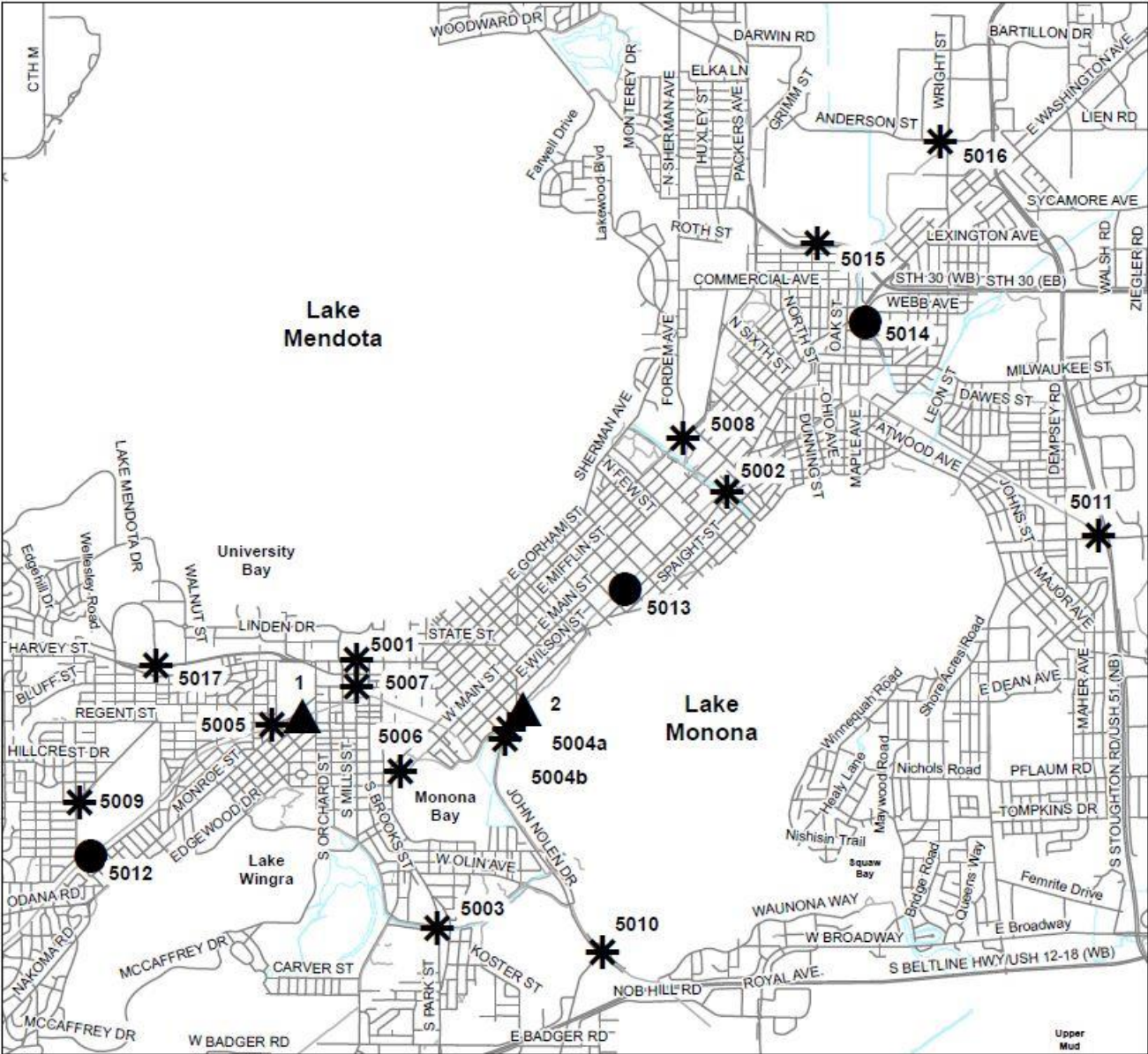
DATA  
SOURCES

# eco-public.com





# CITY OF MADISON TRAFFIC ENGINEERING BICYCLE STATION COUNTS



119	LOCATION	Eastrail Bike Path @ Williamson							TRAFFIC ENGINEERING DIVISION		
120	STATION	5002							CITY OF MADISON, WI		
121	DIRECTION	EB							AUTOMATIC TRAFFIC COUNTER RECORD		
122	REMARKS										
123	START TIME	0 on February 2017									
124	END TIME	0 on									
125											
126	Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	TOTAL M-F	AWT	ADT
127	Date								Volume	Volume	Volume
128	AM 12-1	1	1	1	2	3	4	5	8	2	2
129	1-2	0	1	2	2	2	4	3	7	1	2
130	2-3	0	1	1	0	1	0	2	3	1	1
131	3-4	1	1	1	0	0	2	2	3	1	1
132	4-5	1	0	0	0	0	2	1	1	0	1
133	5-6	4	4	4	2	2	1	2	16	3	3
134	6-7	13	6	8	8	8	2	3	43	9	7
135	7-8	40	42	40	33	31	3	3	186	37	27
136	8-9	49	35	40	42	36	10	6	202	40	31
137	9-10	24	18	15	22	16	15	17	95	19	18
138	10-11	10	12	11	10	10	36	30	53	11	17
139	11-12	11	8	8	12	11	32	32	50	10	16
140	PM 12-1	18	14	11	12	18	49	50	73	15	25
141	1-2	19	11	10	9	11	58	48	60	12	24
142	2-3	17	18	17	18	19	80	42	89	18	30
143	3-4	21	17	14	18	22	78	31	92	18	29
144	4-5	50	39	32	35	38	71	32	194	39	42
145	5-6	70	62	39	42	47	52	22	260	52	48
146	6-7	36	24	28	31	19	16	8	138	28	23
147	7-8	20	18	14	13	12	11	6	77	15	13
148	8-9	6	12	12	10	8	10	8	48	10	9
149	9-10	11	10	11	10	8	13	4	50	10	10
150	10-11	6	6	10	4	6	8	4	32	6	6
151	11-12	3	4	3	4	4	8	1	18	4	4
152											
153	24 HR Tot	431	364	332	339	332	565	362	1,798	361	389
		5002	5003	5004 Bridge	5004 Station	5005	5006	5007	5008	5009	



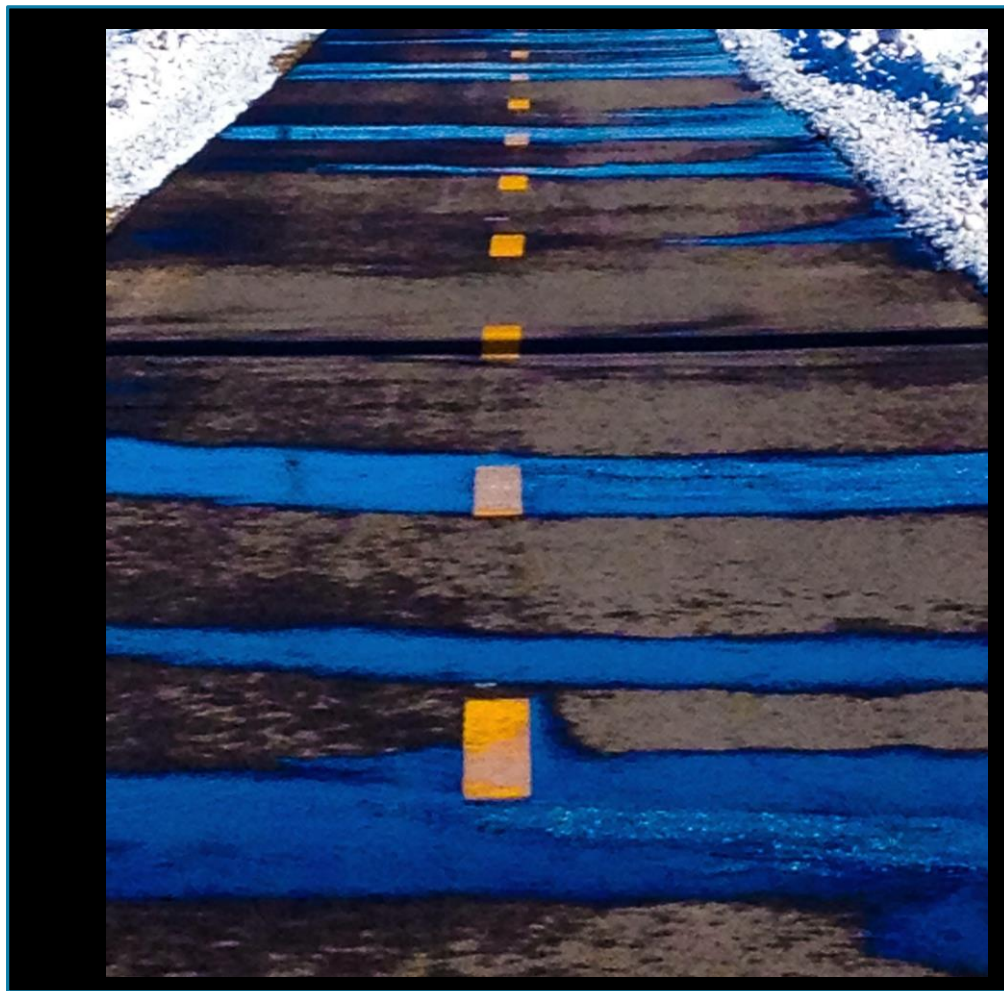
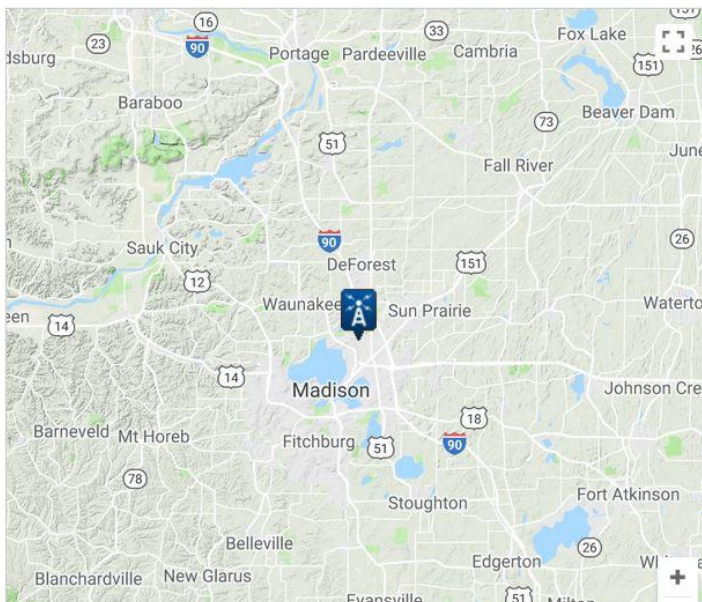
## Local Climatological Data Station Details

### STATION DETAILS

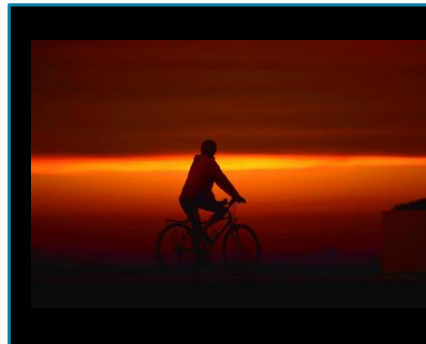
Name	MADISON DANE CO REGIONAL AIRPORT, WI US
Network:ID	WBAN:14837
Latitude/Longitude	43.1405°, -89.3452°
Elevation	264 m

### PERIOD OF RECORD

Start Date <sup>1</sup>	1948-01-01
End Date <sup>1</sup>	2018-09-18
Data Coverage <sup>2</sup>	100%



STATION	NAME	DATE	AWND	PRCP	SNOW	SNWD	TAVG	TMAX	TMIN	TD
USW00014	MADISON DANE CO REGIONAL A	4/25/2017	12.3	0	0	0	64	74	54	
USW00014	MADISON DANE CO REGIONAL A	4/26/2017	7.38	0.78	0	0	63	65	47	
USW00014	MADISON DANE CO REGIONAL A	4/27/2017	8.05	0.87	0	0	44	47	35	
USW00014	MADISON DANE CO REGIONAL A	4/28/2017	3.8	0.08	0	0	41	49	32	
USW00014	MADISON DANE CO REGIONAL A	4/29/2017	15.21	0.09	0	0	44	45	37	
USW00014	MADISON DANE CO REGIONAL A	4/30/2017	15.21	0.5	0	0	40	44	39	
USW00014	MADISON DANE CO REGIONAL A	5/1/2017	7.83	0.36	0	0	44	52	39	
USW00014	MADISON DANE CO REGIONAL A	5/2/2017	8.95	0.01	0	0	42	51	36	
USW00014	MADISON DANE CO REGIONAL A	5/3/2017	4.03	0	0	0	47	60	32	
USW00014	MADISON DANE CO REGIONAL A	5/4/2017	6.93	0	0	0	50	65	33	
USW00014	MADISON DANE CO REGIONAL A	5/5/2017	10.29	0.19	0	0	53	67	40	





# CUMULATIVE RIDERSHIP BY DAY AS A FUNCTION OF TEMPERATURE





English US



## Madison, WI – Eco-Totem on the Southwest Path at Monroe Street

From October 8, 2014 to September 11, 2018

**1,482,502** Counts

Yesterday

**2,102** Counts

### Period

#### Begin

10/09/2014



#### End

09/12/2018



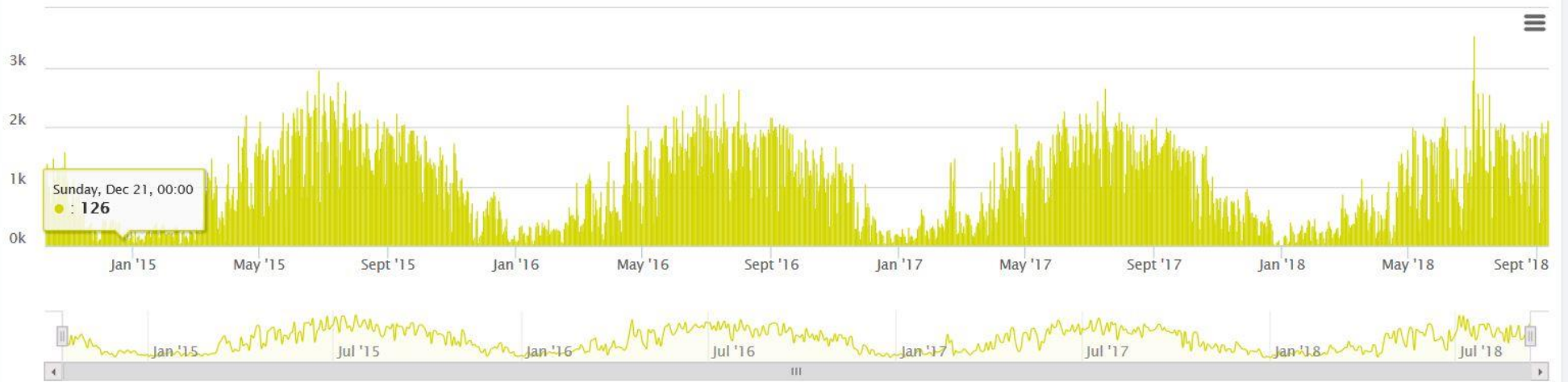
Day

Week

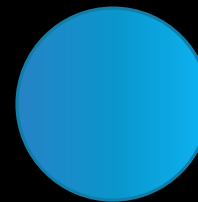
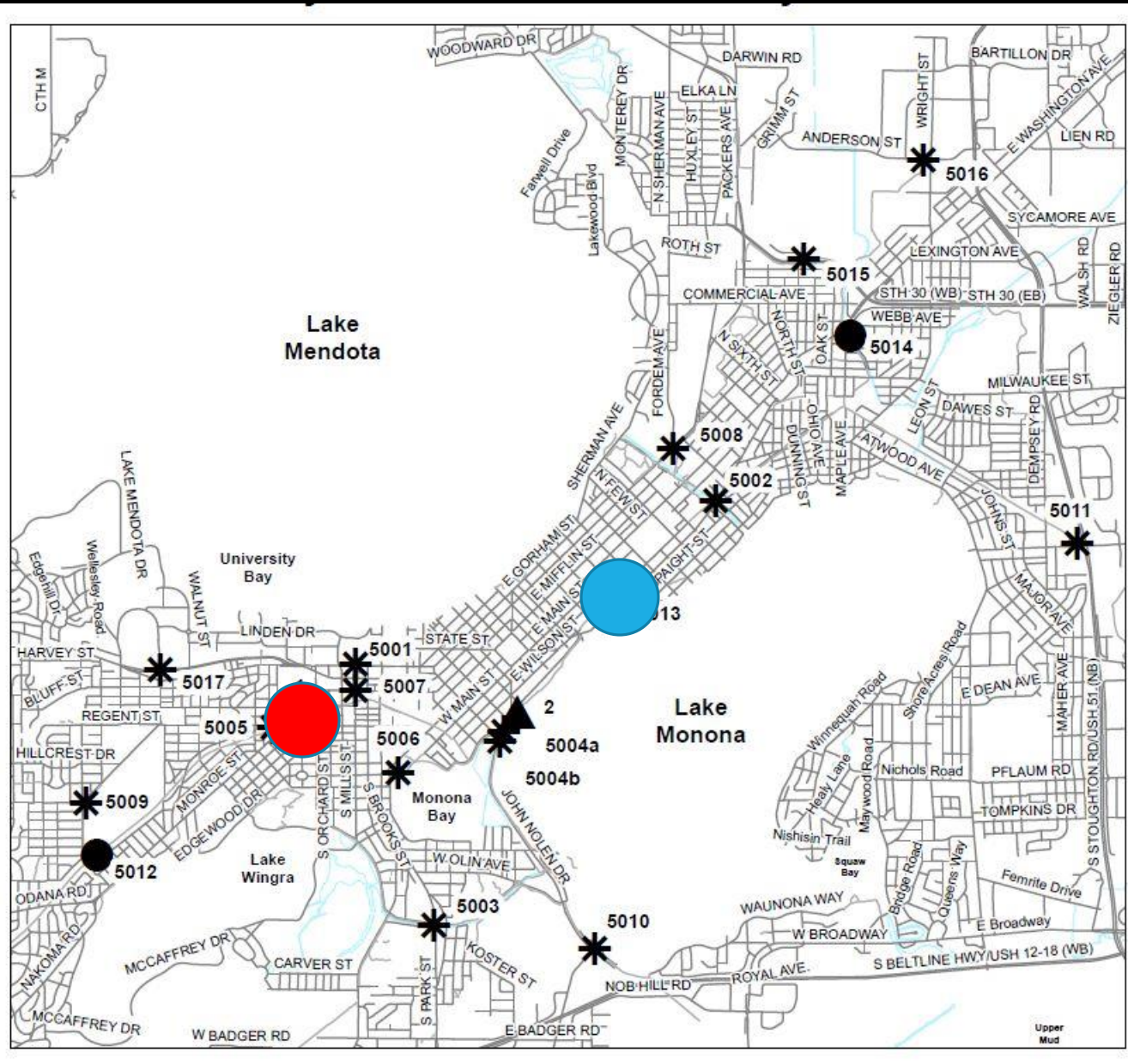
Month

Key Numbers

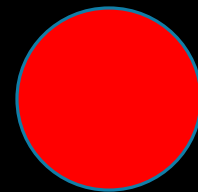
### Display



# VISUAL DISPLAY WITH REAL TIME & HISTORICAL DATA



**CAPITAL CITY TRAIL @ NORTH SHORE DRIVE ECO DISPLAY**



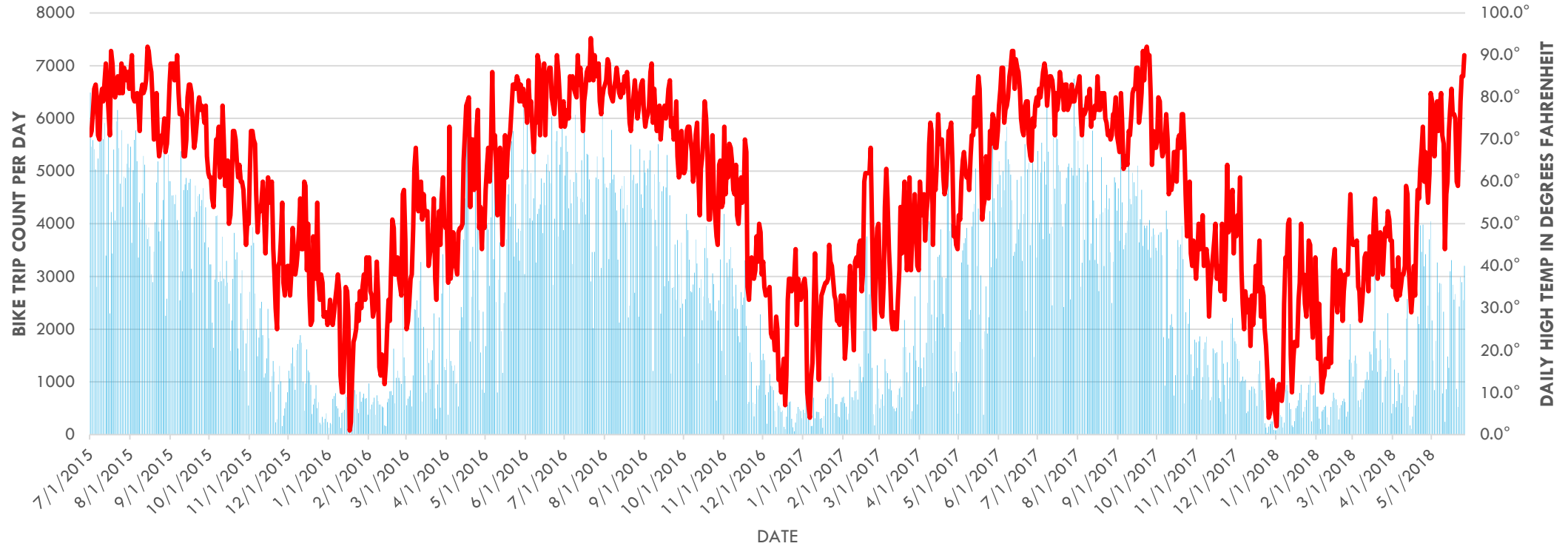
**SOUTHWEST BIKE PATH @ MONROE ST ECO DISPLAY**



NORTH SHORE DR  
ECO DISPLAY  
DIGITAL BIKE TRIP COUNTER

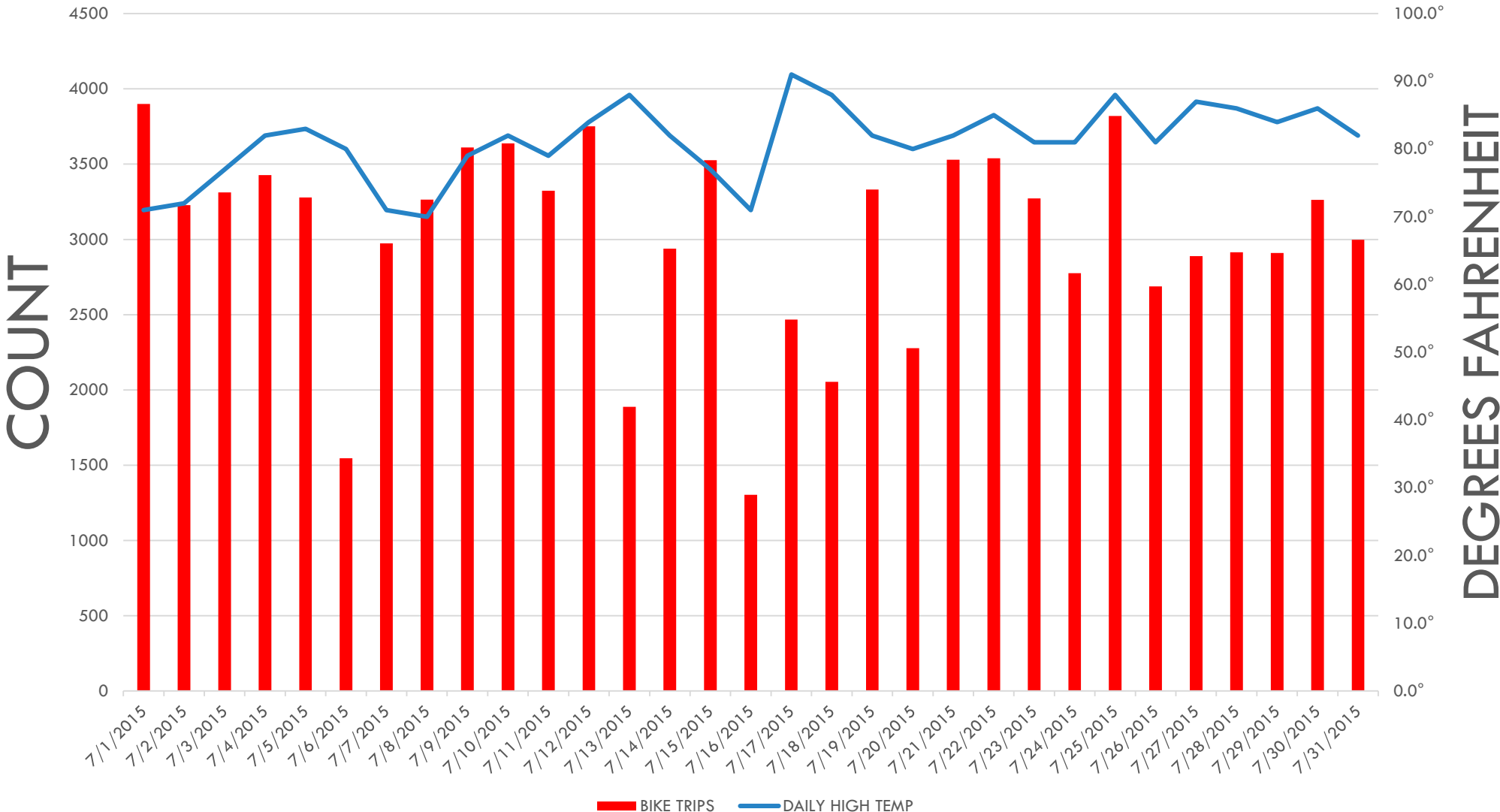
# COMBINED ECO DISPLAY BIKE TRIPS/DAILY HIGH TEMP

COEFFICIENT: .87



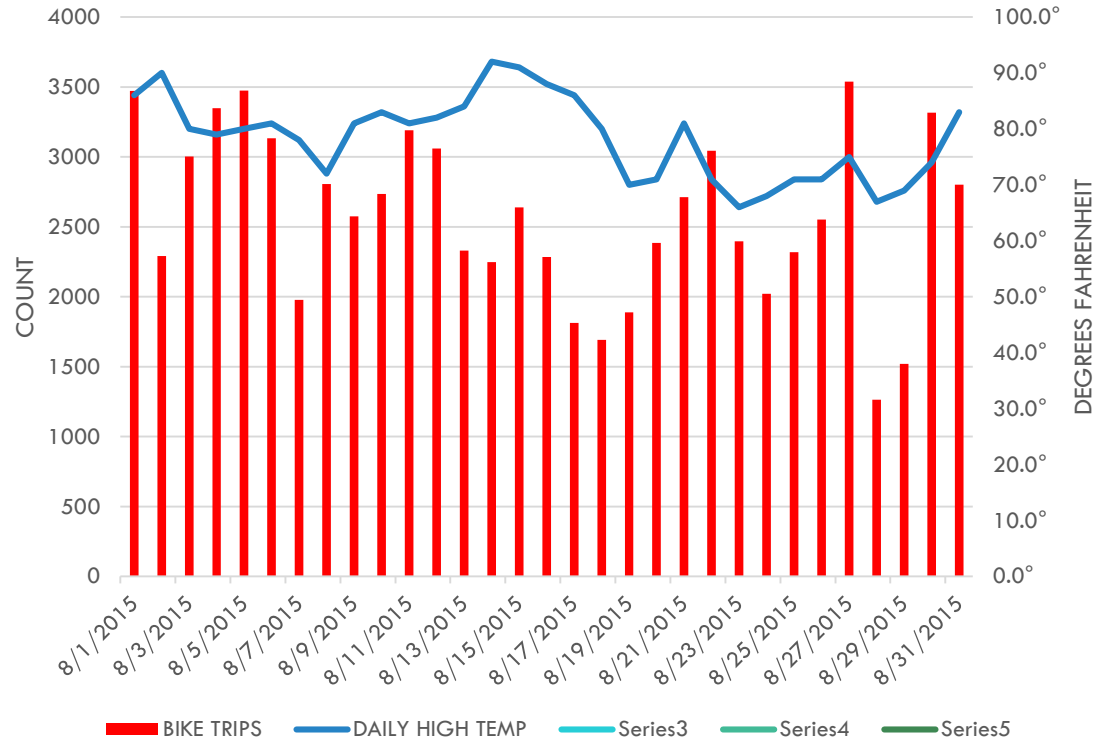
**BIKE TRIPS**    **DAILY HIGH TEMPS**

# JULY 2015

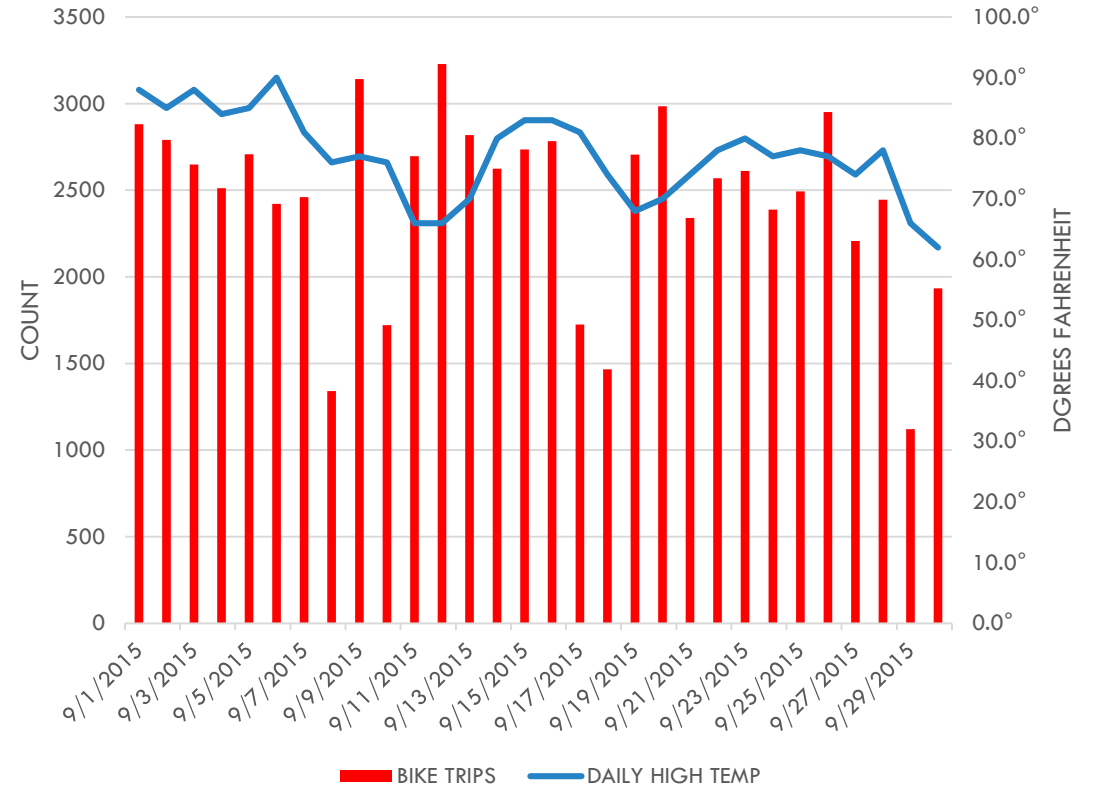




### AUGUST 2015



### SEPTEMBER 2015



# JULY 2015

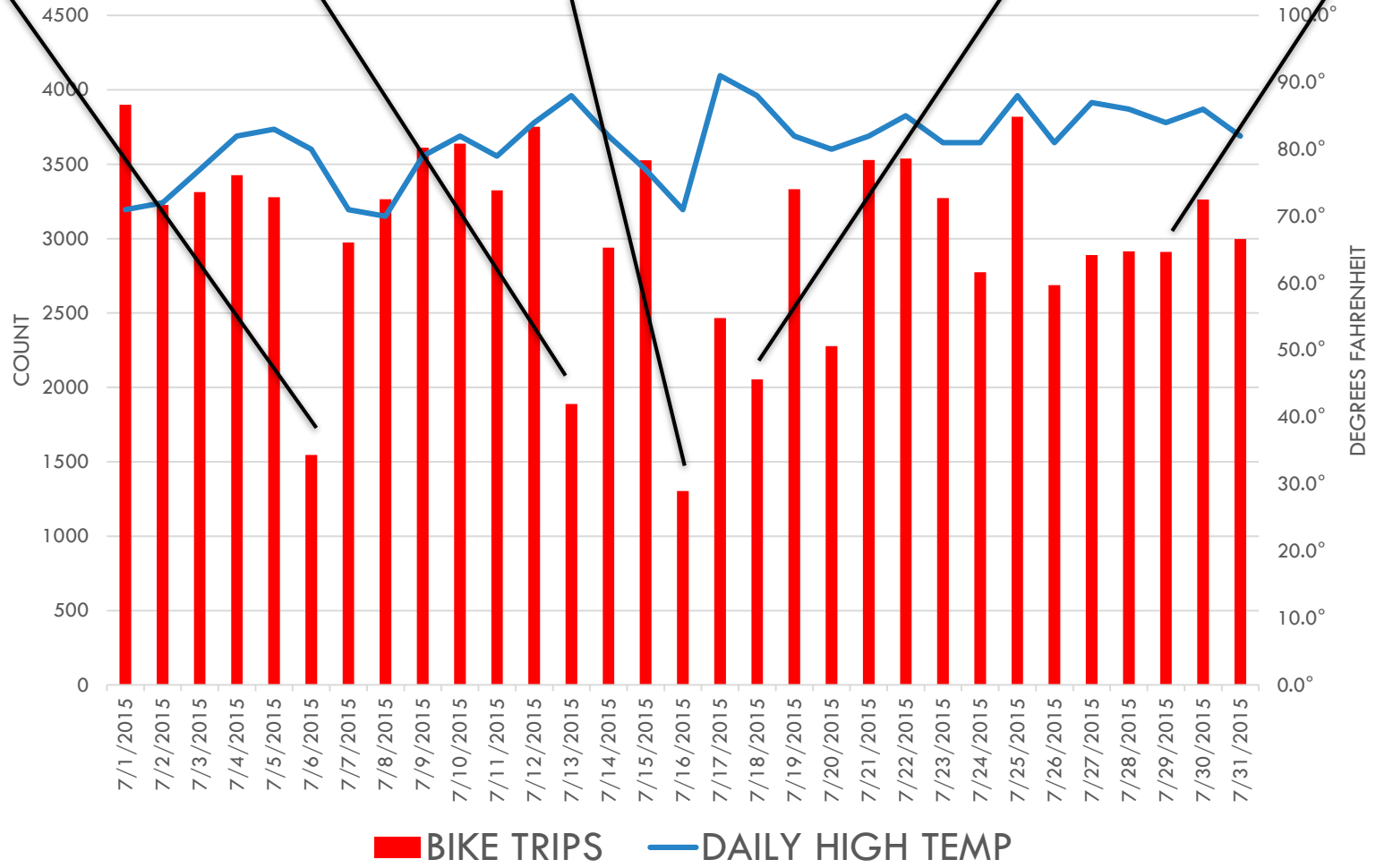
PRECIPITATION 0.77"

PRECIPITATION 0.88"

PRECIPITATION 0.83"

PRECIPITATION 1.12"

PRECIPITATION 1.42"

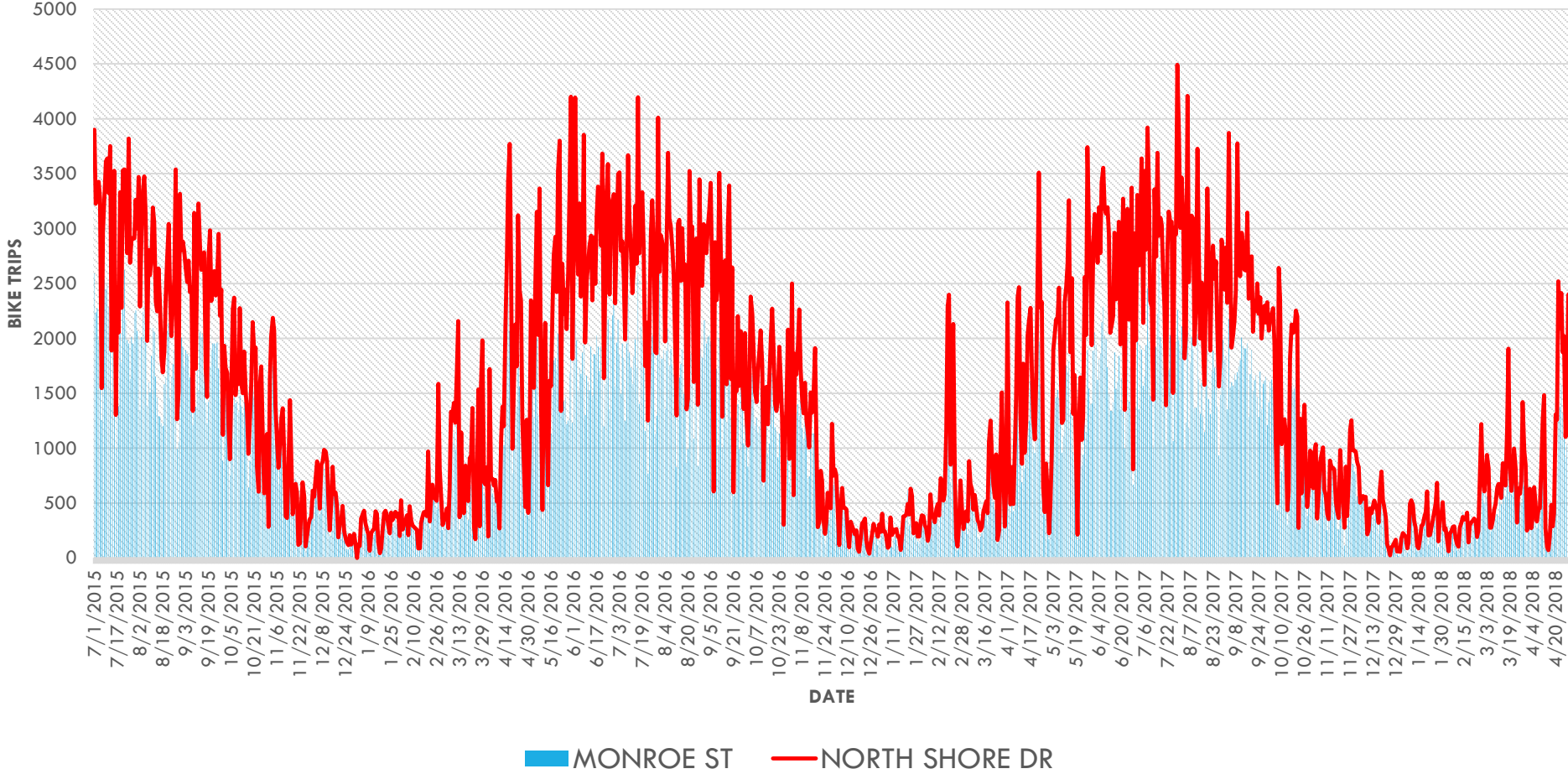




# BIKE TRAFFIC CORRELATION



**DAILY BIKE TRIPS MONROE ST & NORTH SHORE DR ECO DISPLAYS**  
**COEFFICIENT: .97**



LOCATION	SouthWest Path @ Glenway				TRAFFIC ENGINEERING DIVISION						
STATION	Sta 5012				CITY OF MADISON, WI						
DIRECTIC	WB				AUTOMATIC TRAFFIC COUNTER RECORD						
REMARKS											
START TIME	0	on	January	2017							
END TIME	0	on									

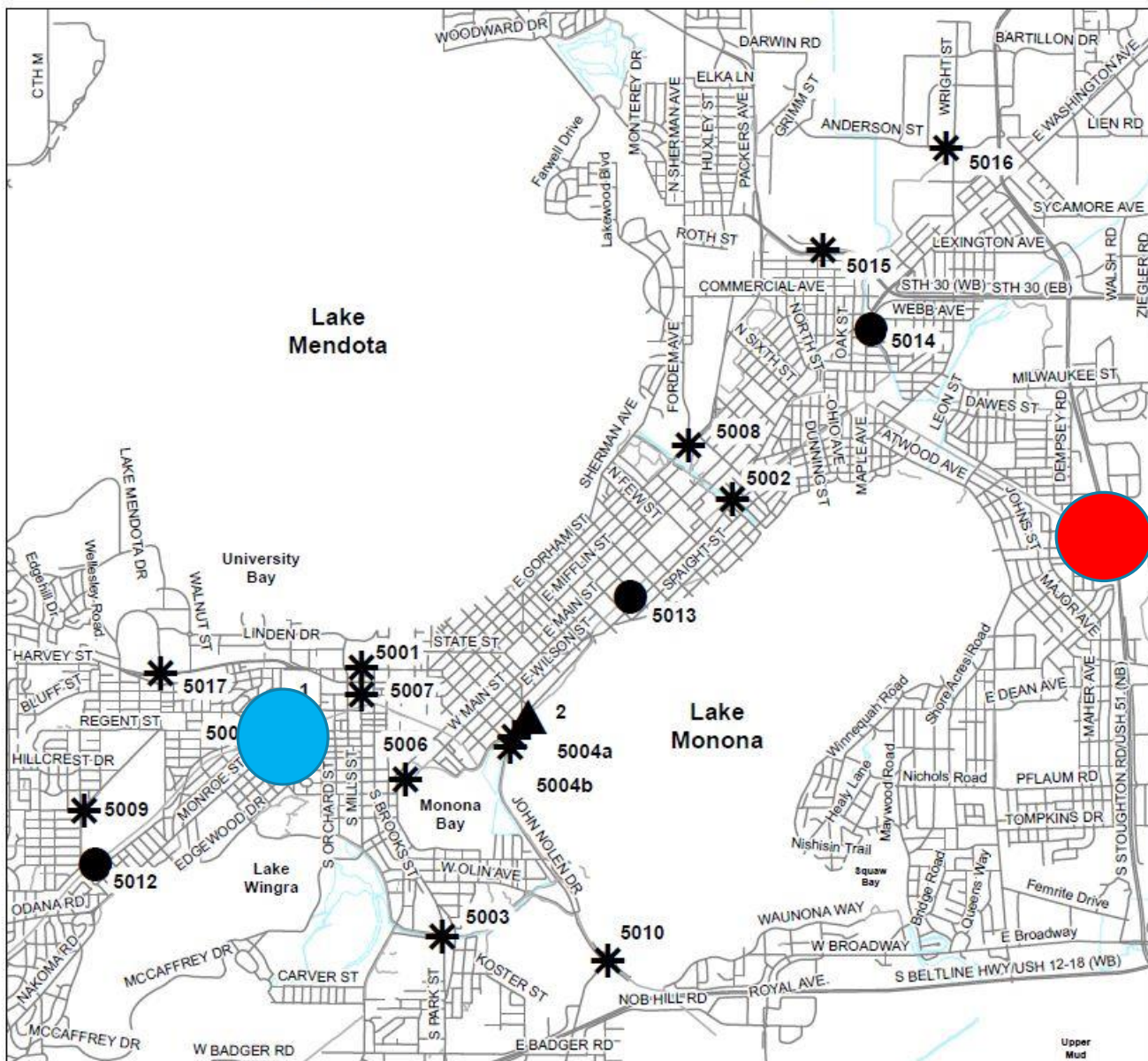
STATIONS MEASURE ONE WEEK PER MONTH

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	TOTAL M-F	AWT	ADT
Date	9-Jan	10-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan	Volume	Volume	Volume
AM 12-1	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	1	0	0	1	0	0
2-3	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0
4-5	0	0	0	0	1	0	0	1	0	0
5-6	0	0	0	0	0	0	0	0	0	0
6-7	0	1	0	1	0	0	0	2	0	0
7-8	2	0	2	0	0	0	0	4	1	1
8-9	2	0	3	1	1	0	0	7	1	1
9-10	1	3	2	0	0	0	0	6	1	1
10-11	1	0	0	0	0	0	0	1	0	0
11-12	1	0	0	2	0	0	0	3	1	0
PM 12-1	0	1	1	1	0	2	1	3	1	1
1-2	3	1	1	1	1	1	1	7	1	1
2-3	2	1	1	0	0	1	0	4	1	1
3-4	1	0	2	3	2	2	1	8	2	2
4-5	8	5	5	4	3	2	1	25	5	4
5-6	3	4	7	7	2	1	1	23	5	4
6-7	5	4	5	4	1	1	1	19	4	3
7-8	0	1	2	1	0	0	0	4	1	1
8-9	1	0	0	1	0	1	0	2	0	0
9-10	0	0	0	0	0	0	1	0	0	0
10-11	0	0	1	0	0	0	0	1	0	0
11-12	1	0	0	1	0	0	0	2	0	0
24 HR Tot	31	21	32	27	12	11	7	123	24	20

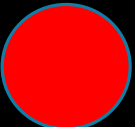
# TRAFFIC ENGINEERING BIKE STATION TEMPORARY COUNTS

5012 | 5013 | 5014 | 5015 | 5016 | 5017 | (+)

24 HOUR TRIP TOTALS

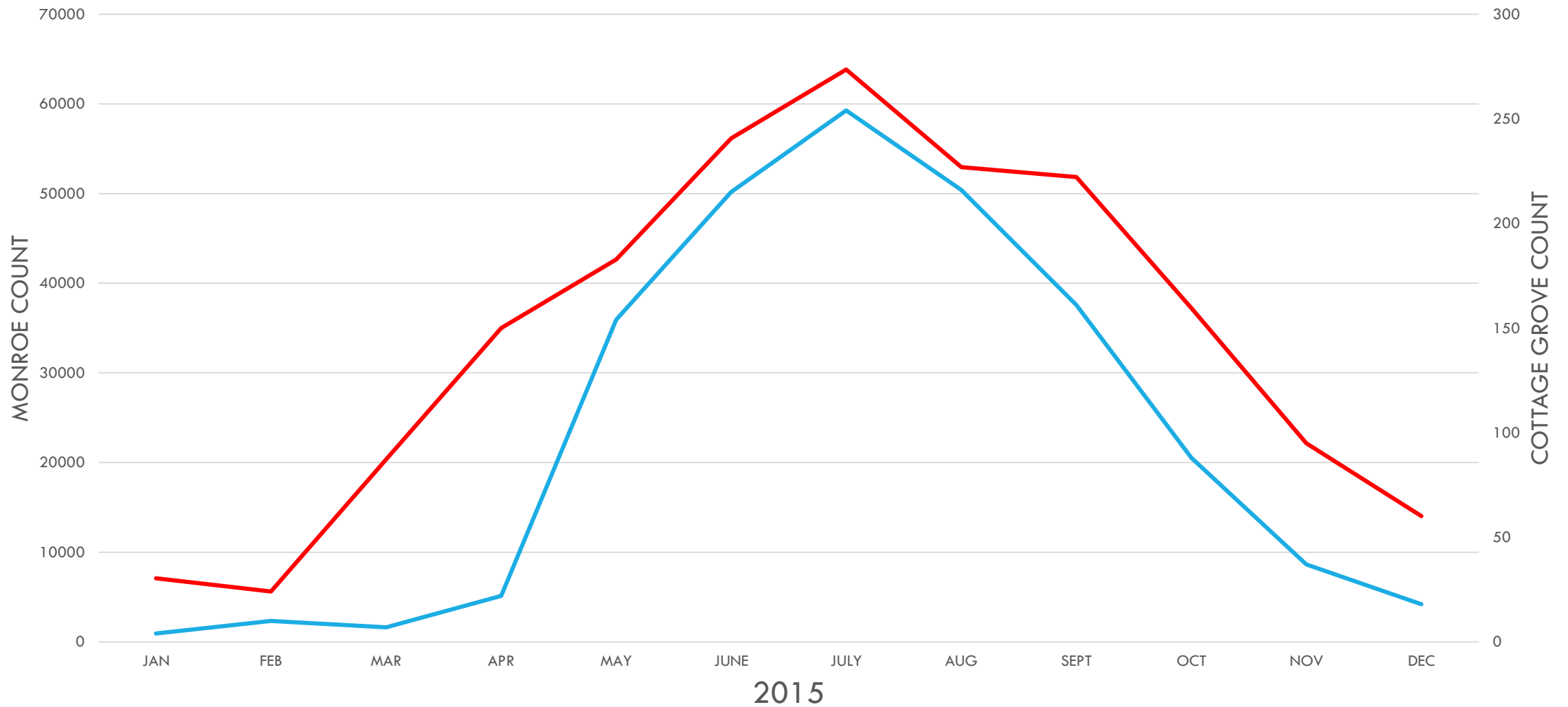


MONROE ST ECO DISPLAY



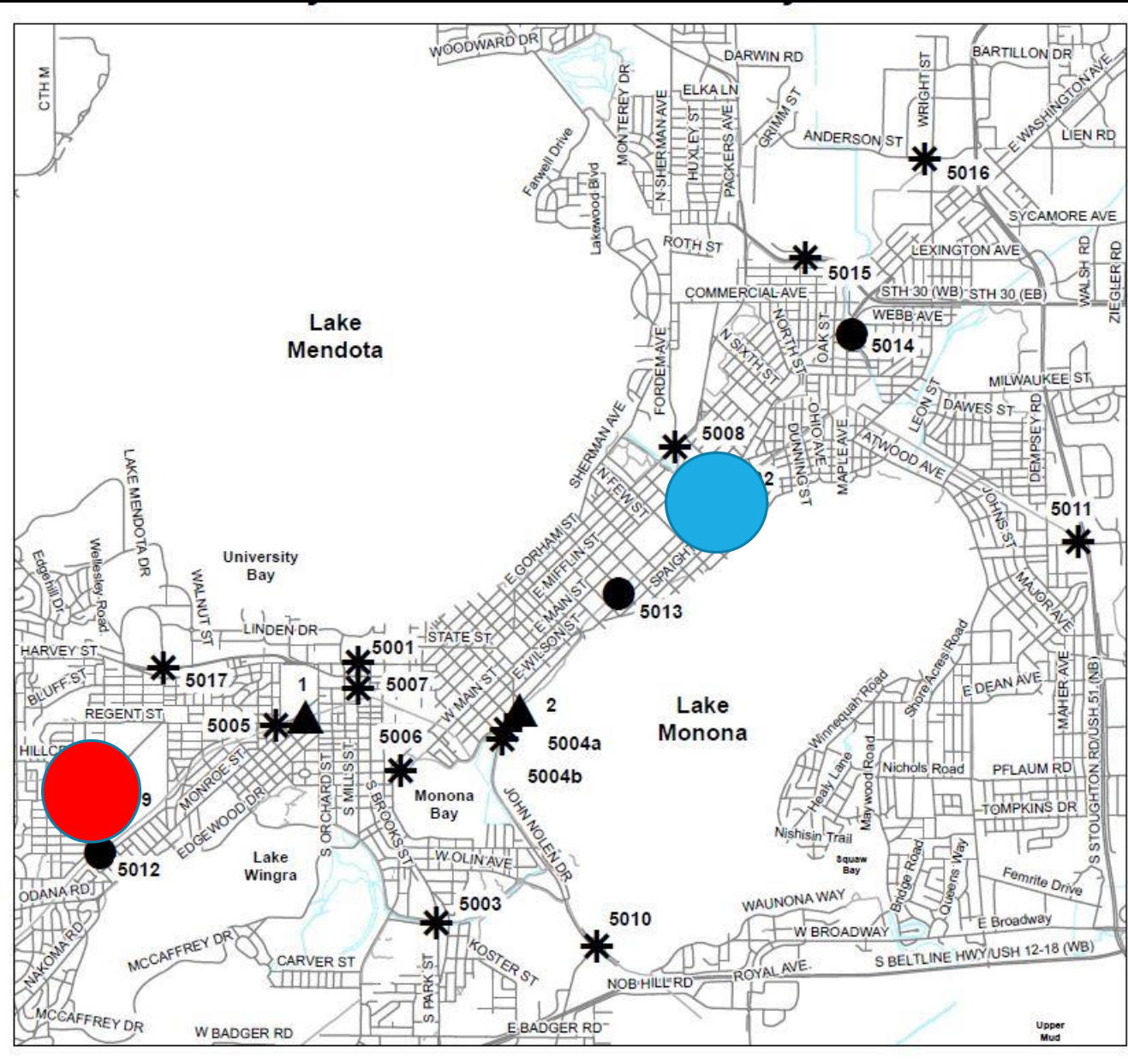
EASTRAIL @ COTTAGE GROVE RD  
MONTHLY BICYCLE STATION

# MONROE ECO DISPLAY/EASTRAIL @ COTTAGE GROVE BIKE TRIPS COEFFICIENT: .93

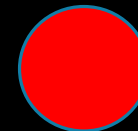


— MONROE ECO TOTEM

— EASTRAIL @ COTTAGE GROVE

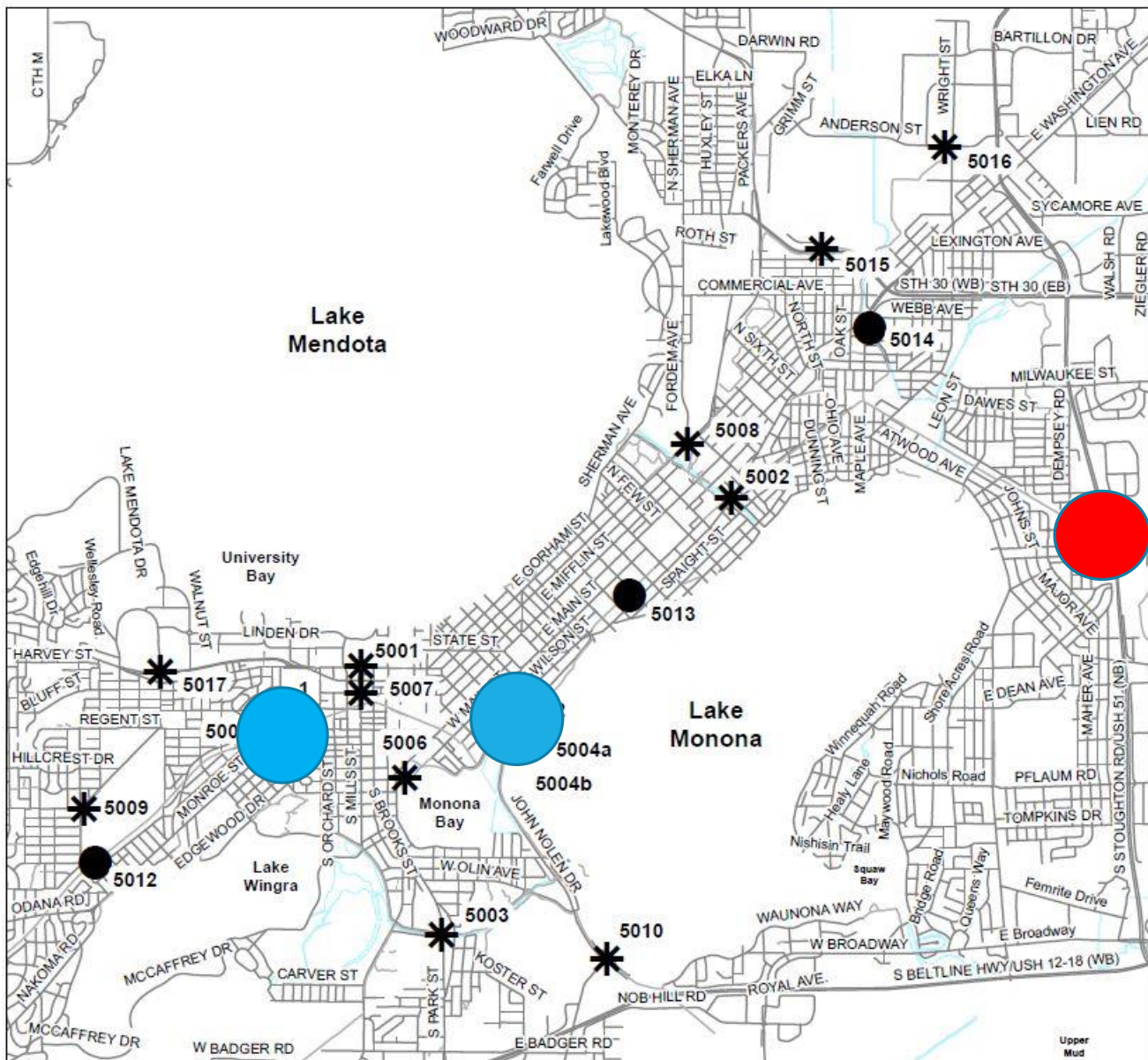


EASTRAIL PATH @  
WINNEBAGO ST



SOUTHWEST TRAIL @  
GLENWAY/SPEEDWAY

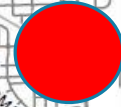




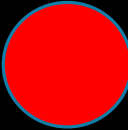
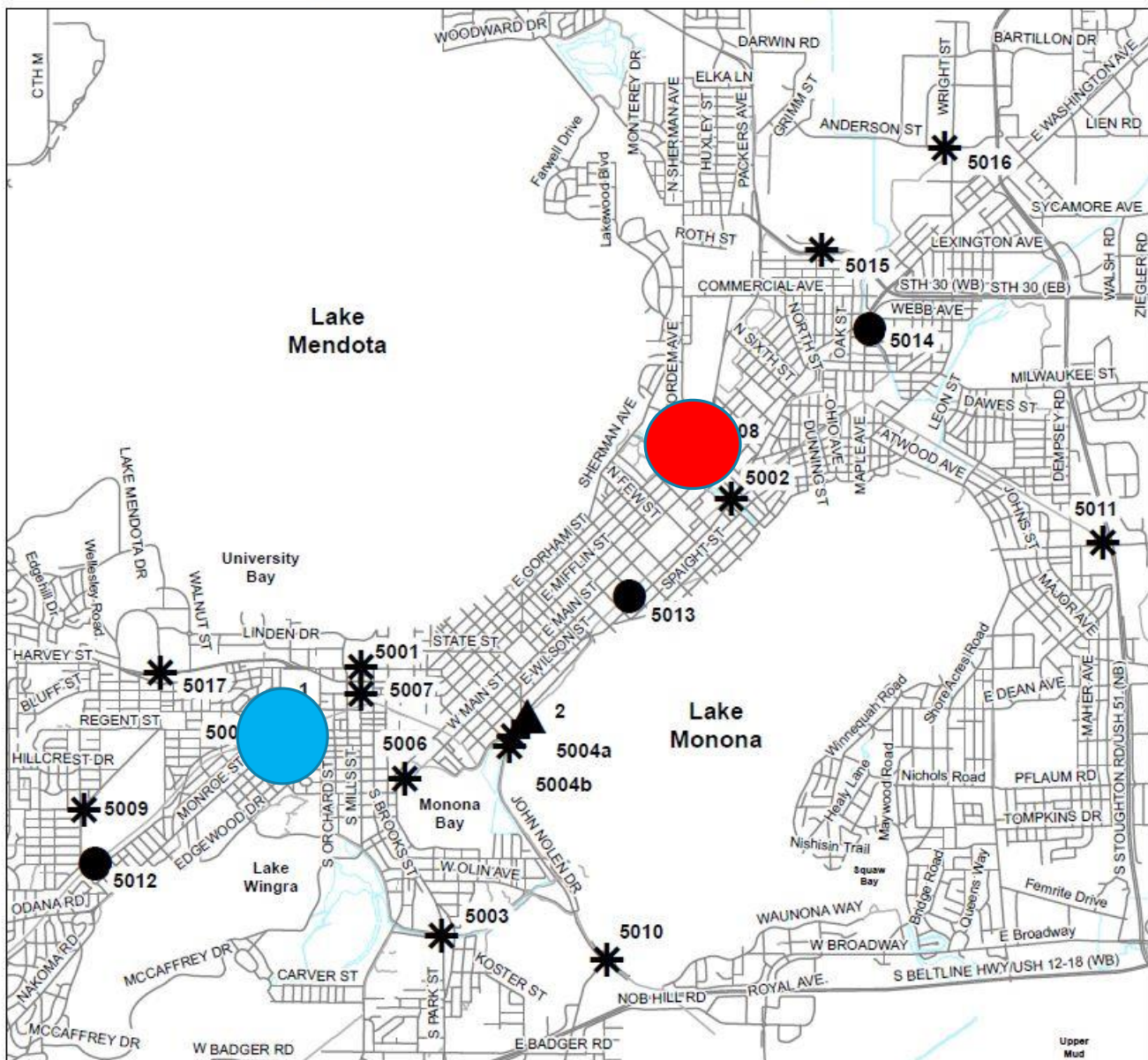
MONROE ST ECO DISPLAY



NORTH SHORE DR ECO DISPLAY



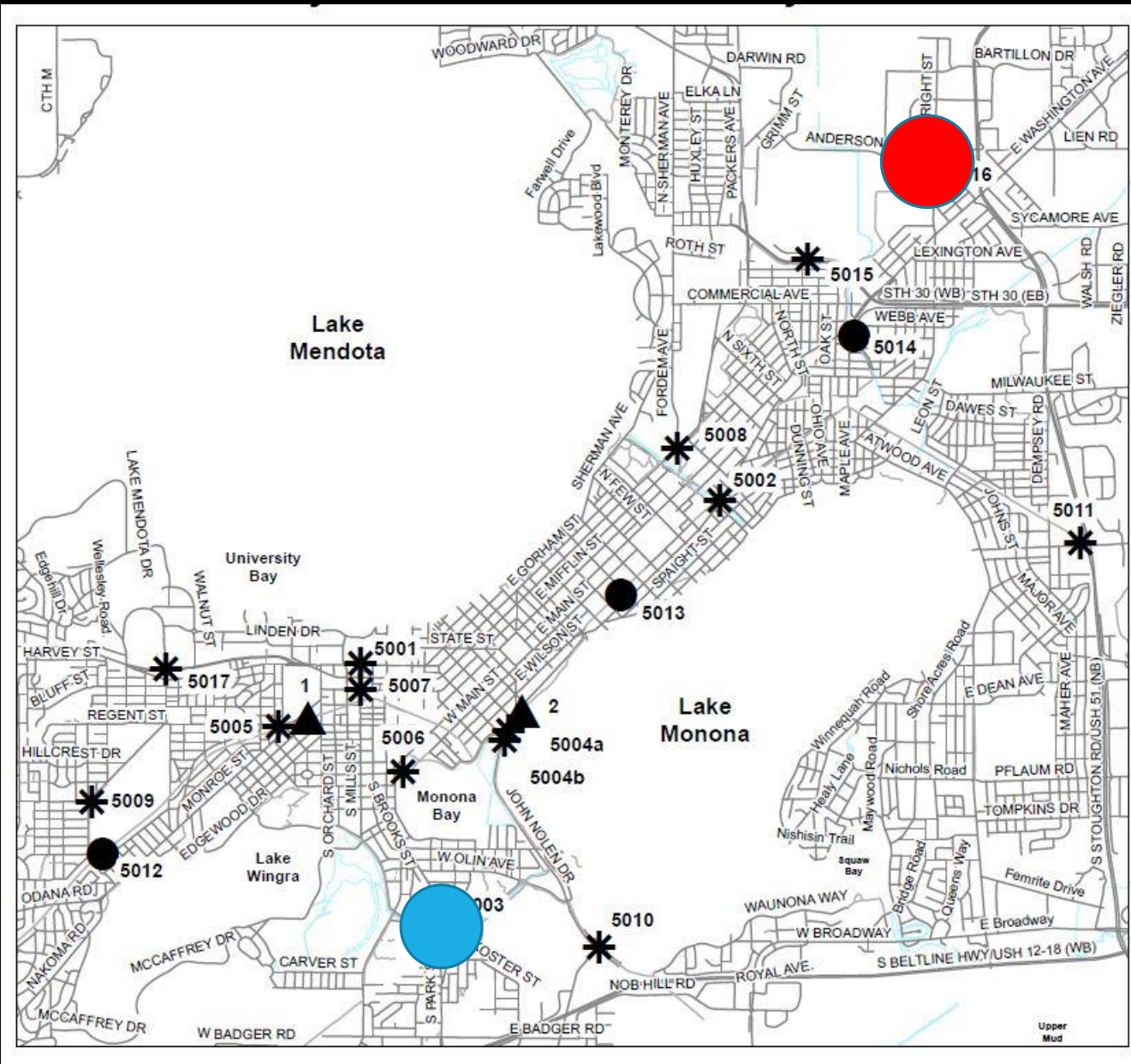
EASTRAIL @ COTTAGE GROVE RD MONTHLY BICYCLE STATION



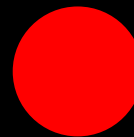
SHERMAN FLYER PATH @  
E JOHNSON ST MONTHLY  
BICYCLE STATION



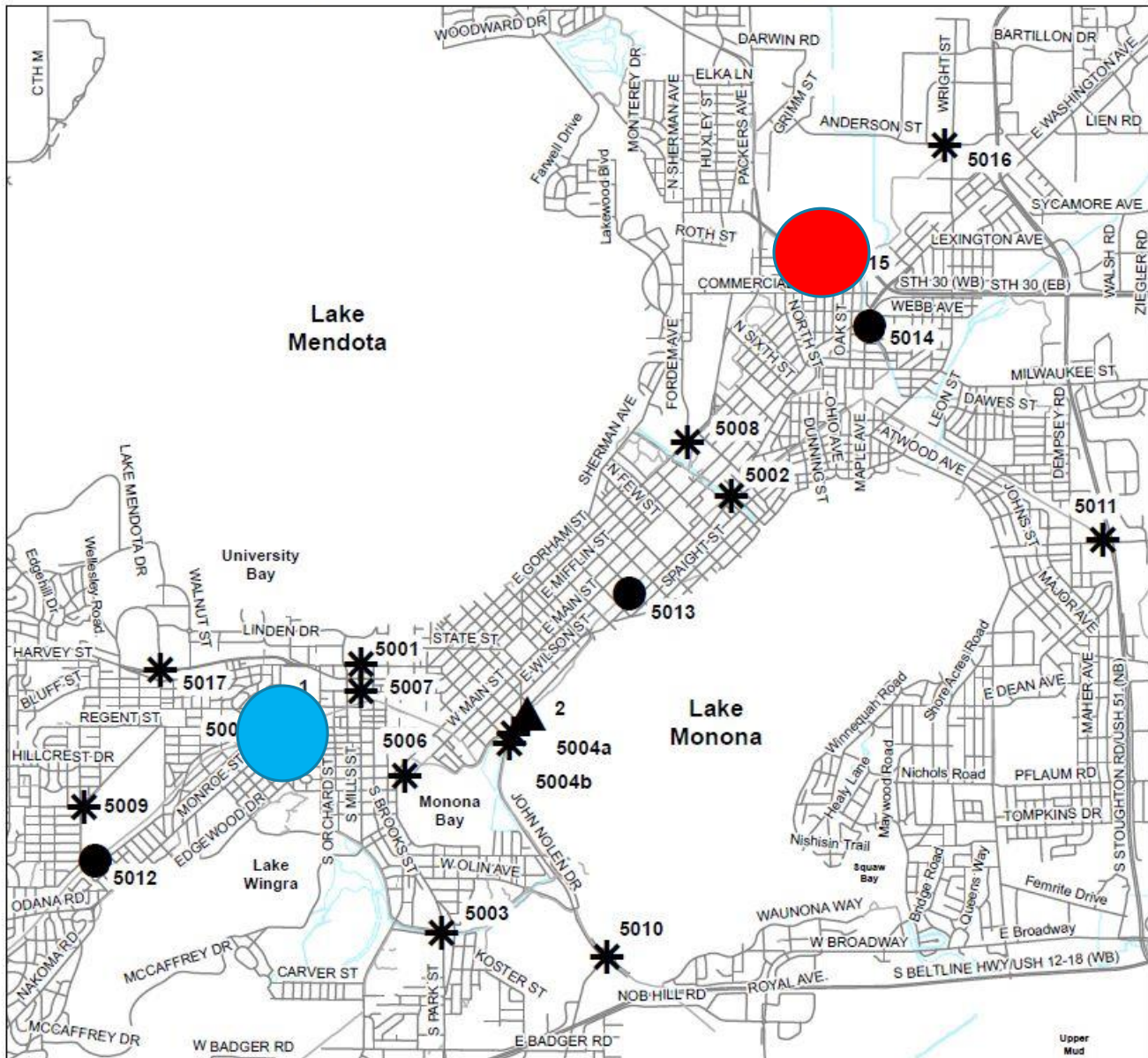
MONROE ST ECO DISPLAY



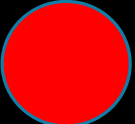
WINGRA CREEK PATH @  
S PARK ST



STARKWEATHER PATH @  
ANDERSON ST



MONROE ST ECO DISPLAY



STARKWEATHER PATH @ ABERG AVE  
MONTHLY BICYCLE STATION



# WINTER BICYCLE RIDING



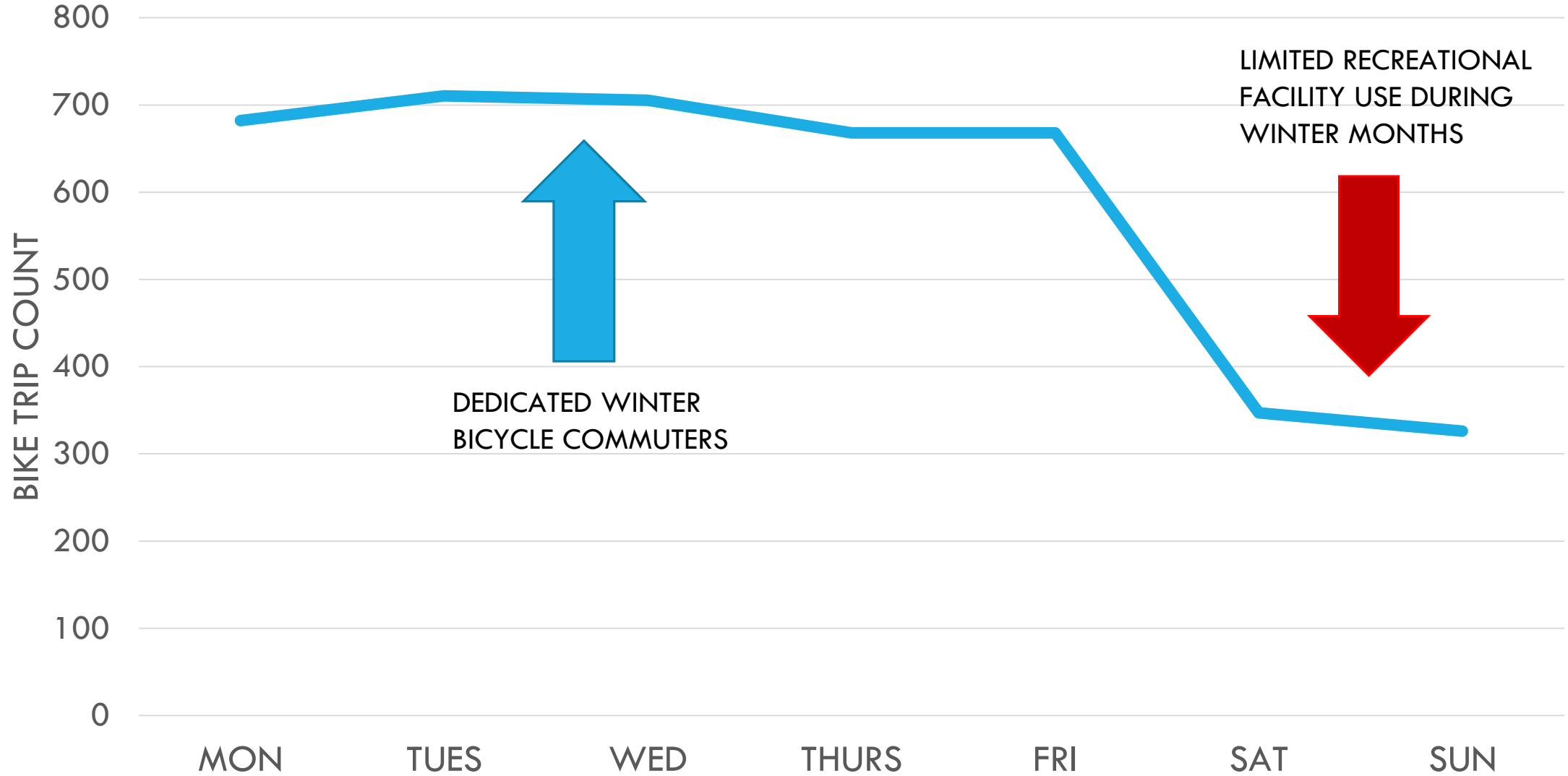
## COMBINED ECO DISPLAYS

<b>AVG TRIPS</b>	<b>2504</b>
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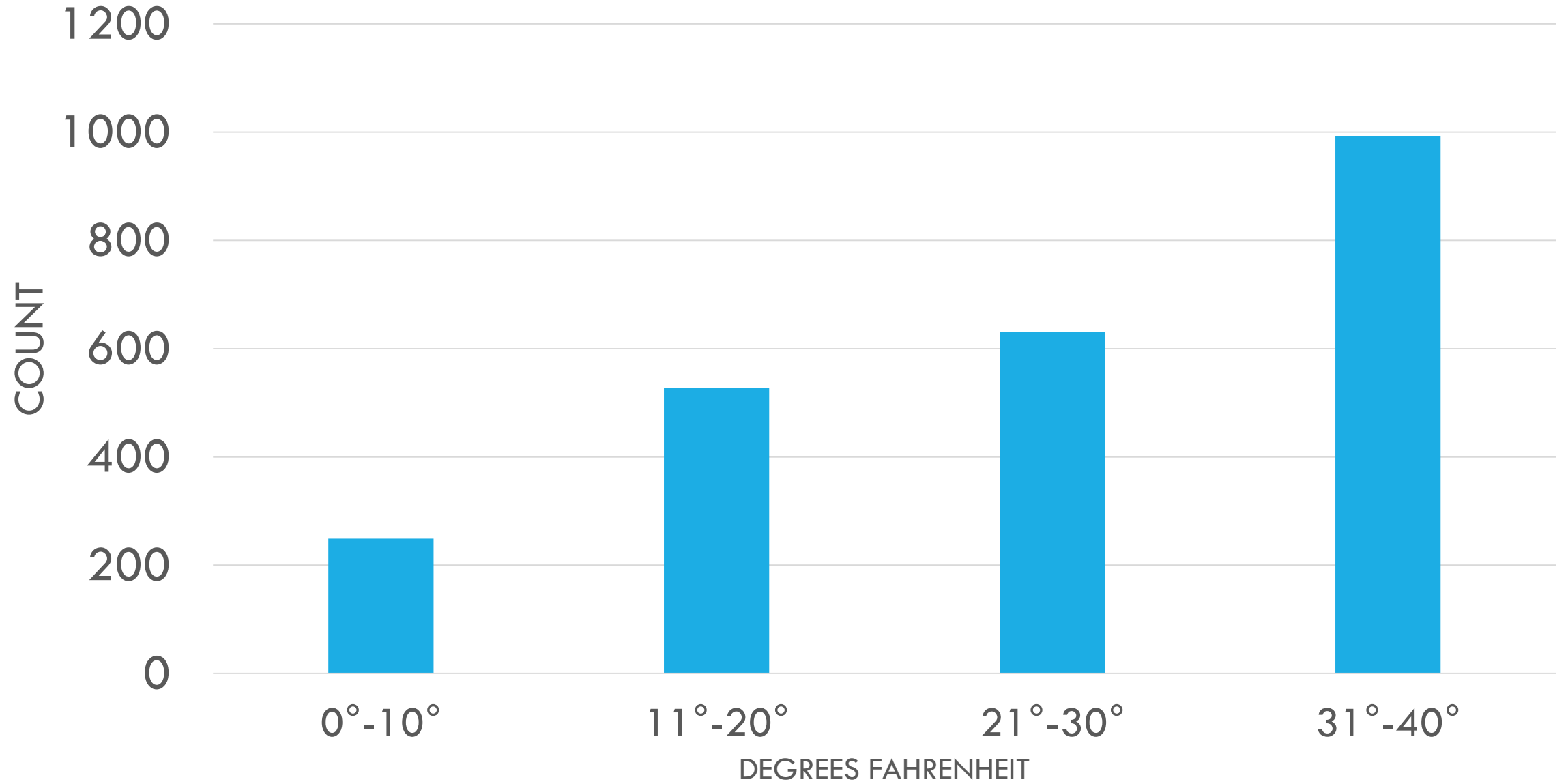
<b>MEDIAN TRIPS</b>	<b>2278</b>
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**NO TRIPS ABOVE MEDIAN BELOW 48°**

# WINTER MEDIAN BIKE TRIPS BY DAY 2015-2018

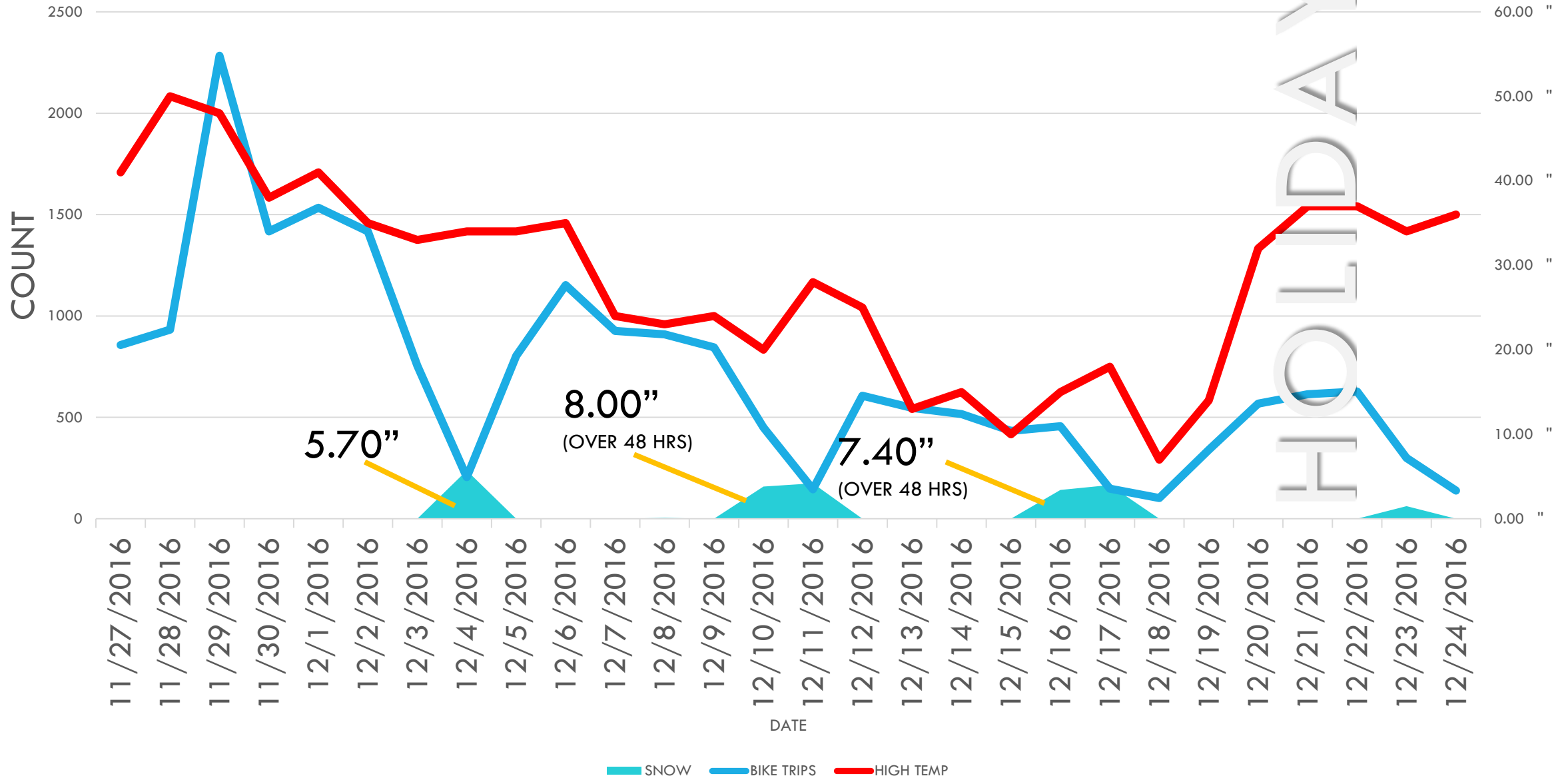


# WINTER BIKE TRIPS





# BIKE TRIPS & SNOWFALL

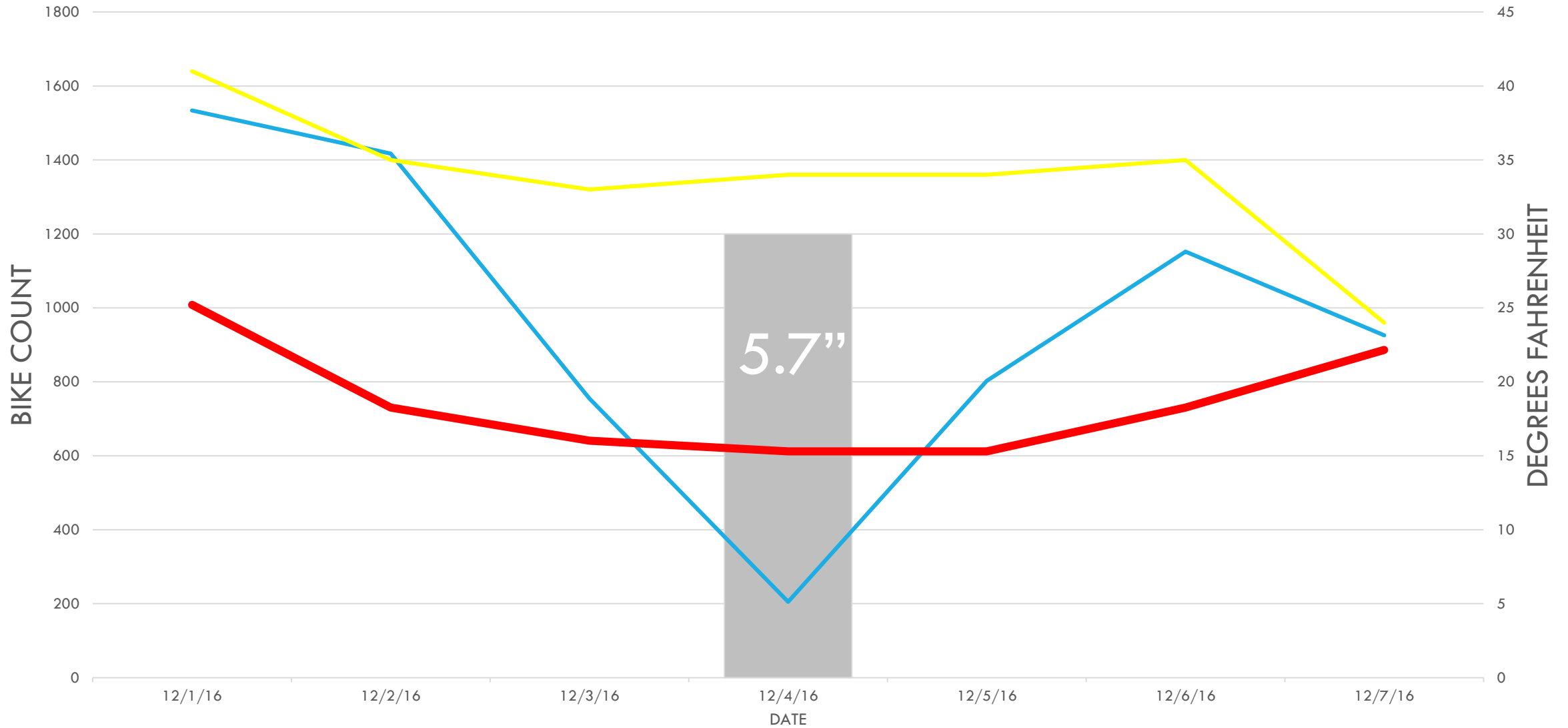


# AVERAGE BIKE TRIPS BY DEGREE FAHRENHEIT

## COMBINED ECO DISPLAYS

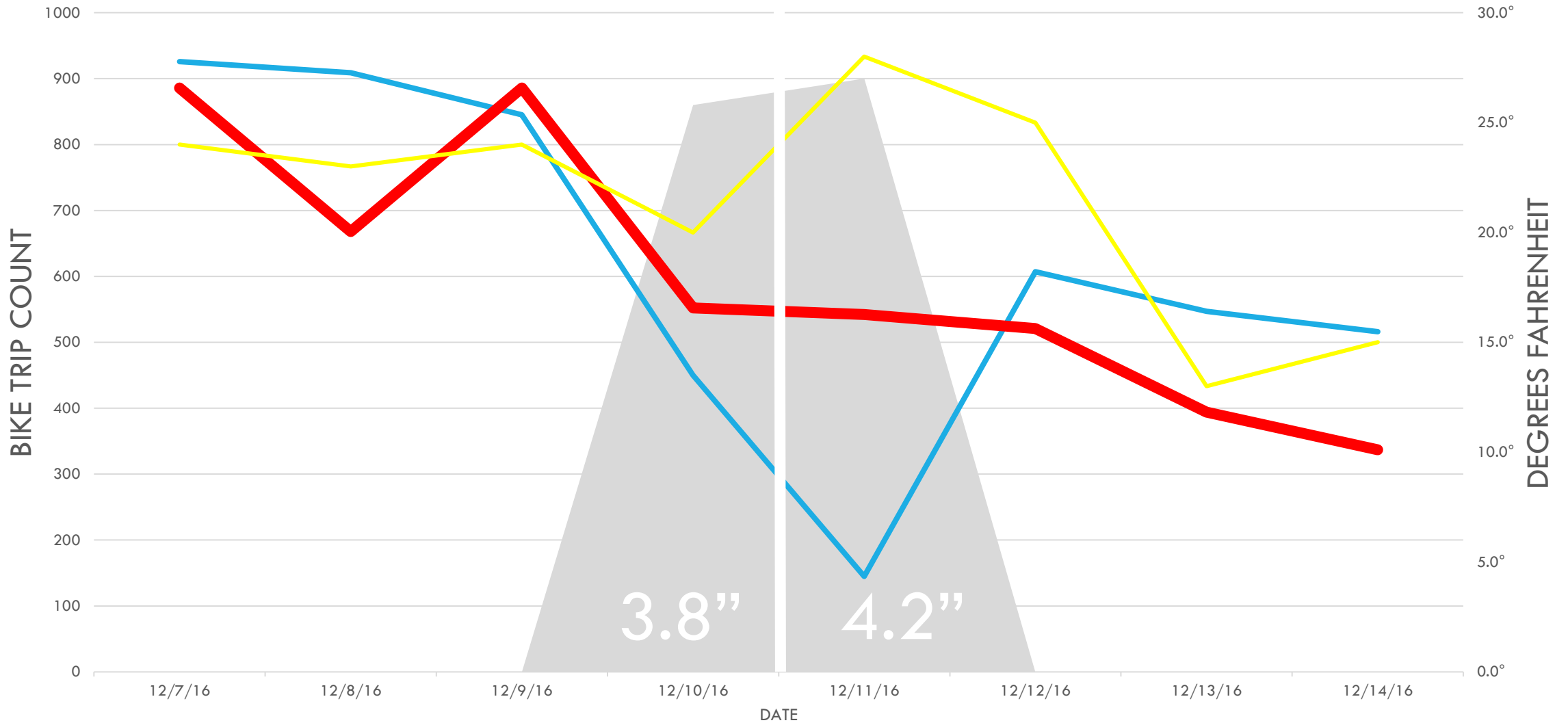
TEMP	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
AVG BIKE TRIPS	90	85	201	261	140	173	206	338	312	384
TEMP	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°
AVG BIKE TRIPS	135	296	394	390	337	380	295	370	510	552
TEMP	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°
AVG BIKE TRIPS	487	515	668	886	521	583	549	542	516	453
TEMP	31°	32°	33°	34°	35°	36°	37°	38°	39°	40°
AVG BIKE TRIPS	617	575	635	612	730	504	842	772	839	1007
TEMP	41°	42°	43°	44°	45°	46°	47°	48°	49°	50°
AVG BIKE TRIPS	1008	1129	1090	1040	1275	1120	1114	1450	1501	1483

# 12/04/2016: 5.7" SNOW



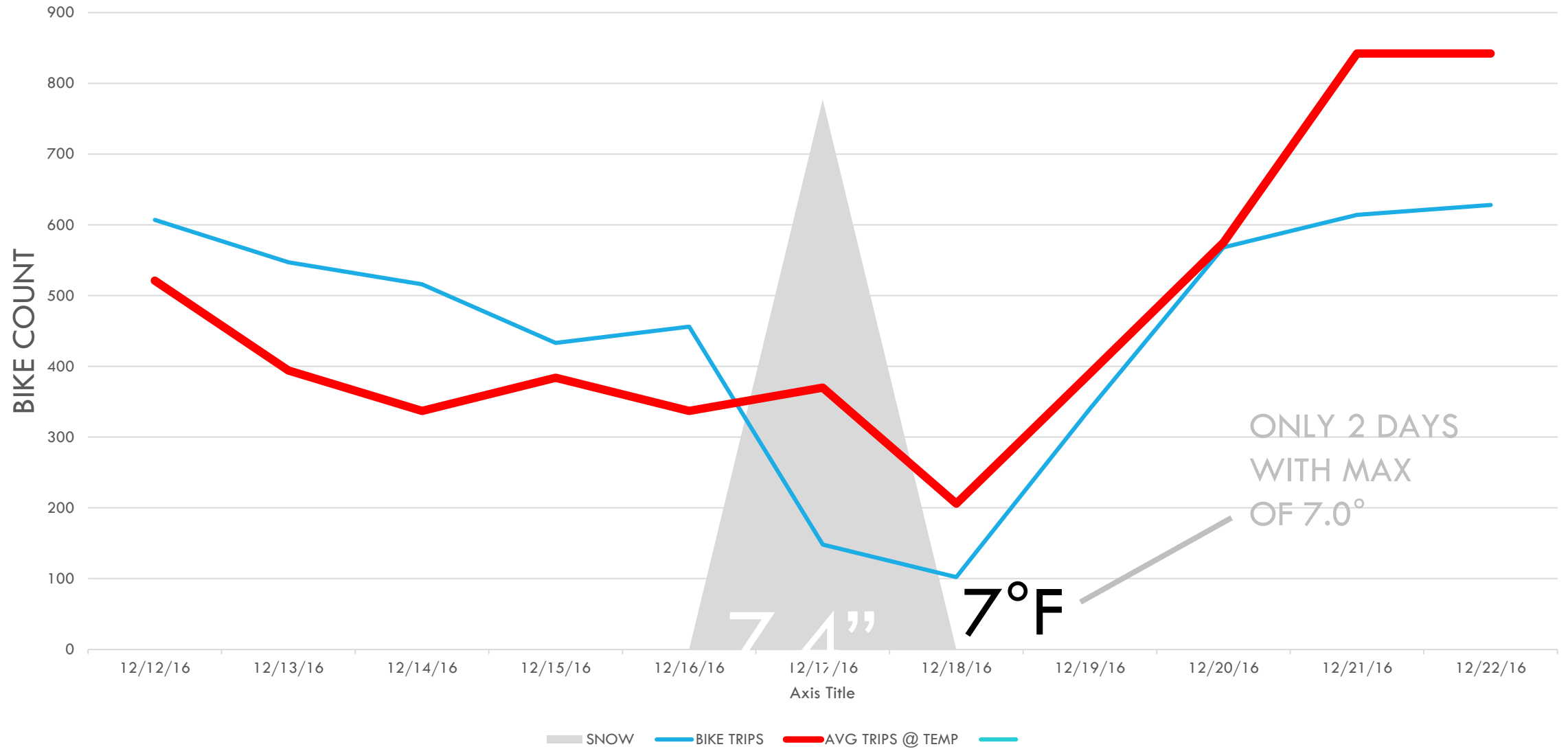
— BIKE TRIPS — AVG TRIPS @ TEMP — HIGH TEMP

# 12/10-11/2016: 8" SNOWFALL

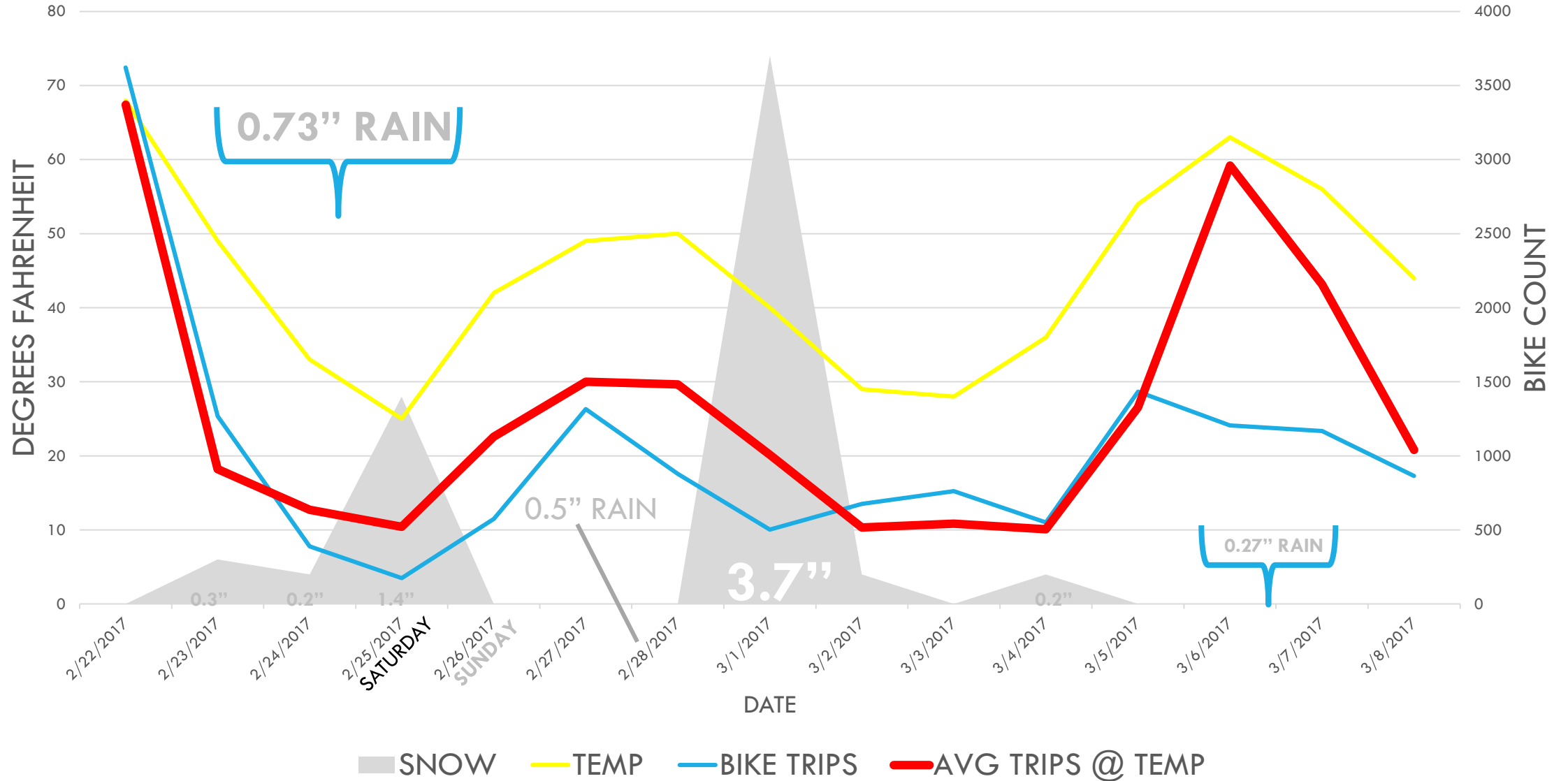


■ SNOWFALL    — BIKE TRIPS    — AVG TRIPS @ TEMP    — HIGH TEMP

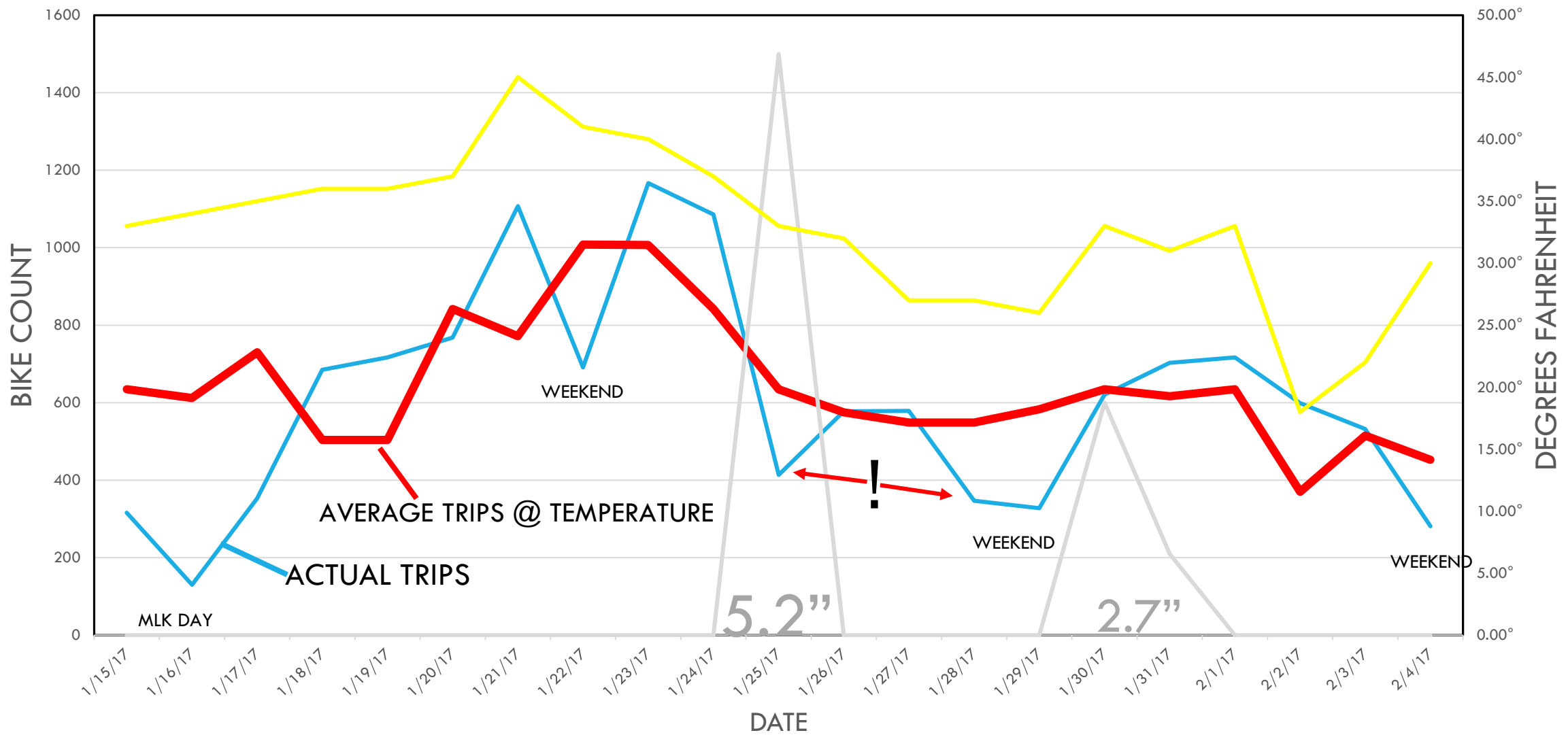
# 12/16-17/2016



# 03/01/2017: 3.7" SNOW

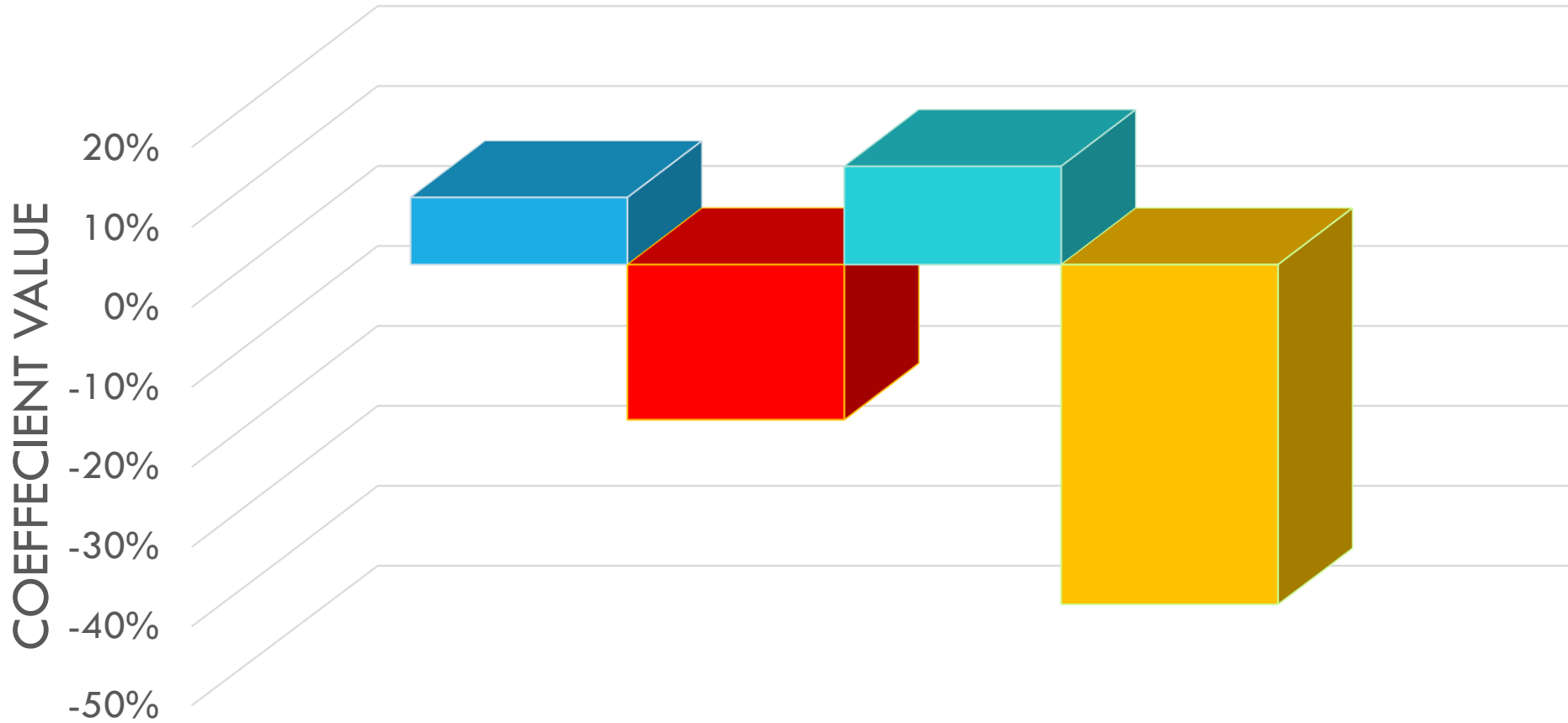


# 01/25/2017: 5.2" SNOWFALL



—BIKE TRIPS    —AVG TRIPS @ TEMP    —SNOWFALL    —HIGH TEMP

# SNOWFALL AMOUNT/BIKE TRIPS COEFFICIENT



## SNOWFALL AMOUNT BY INCREMENT

■ 0.1"-1 ■ 1"-2" ■ 2"-3" ■ 3"+



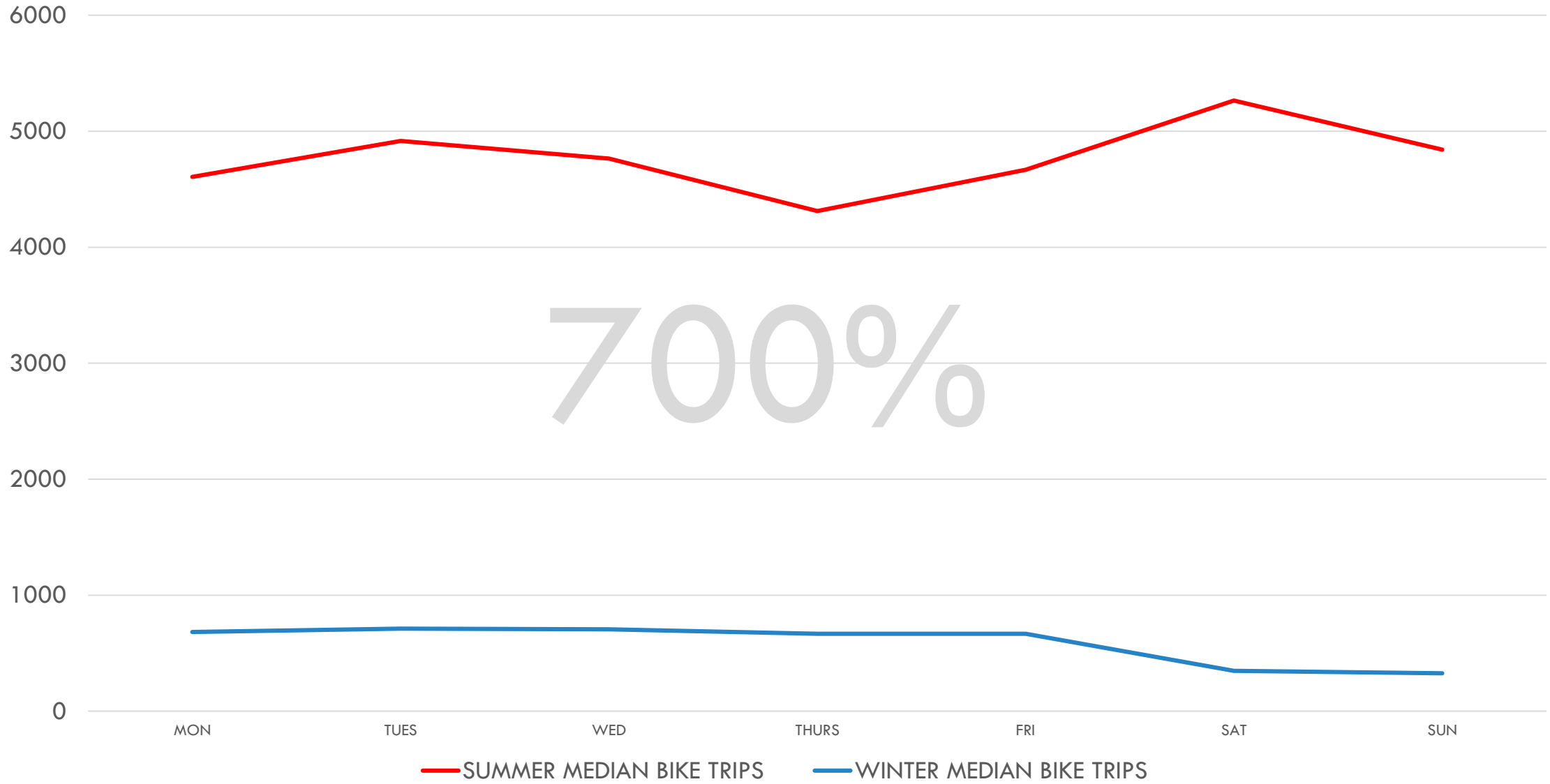


# SUMMER BICYCLE RIDING

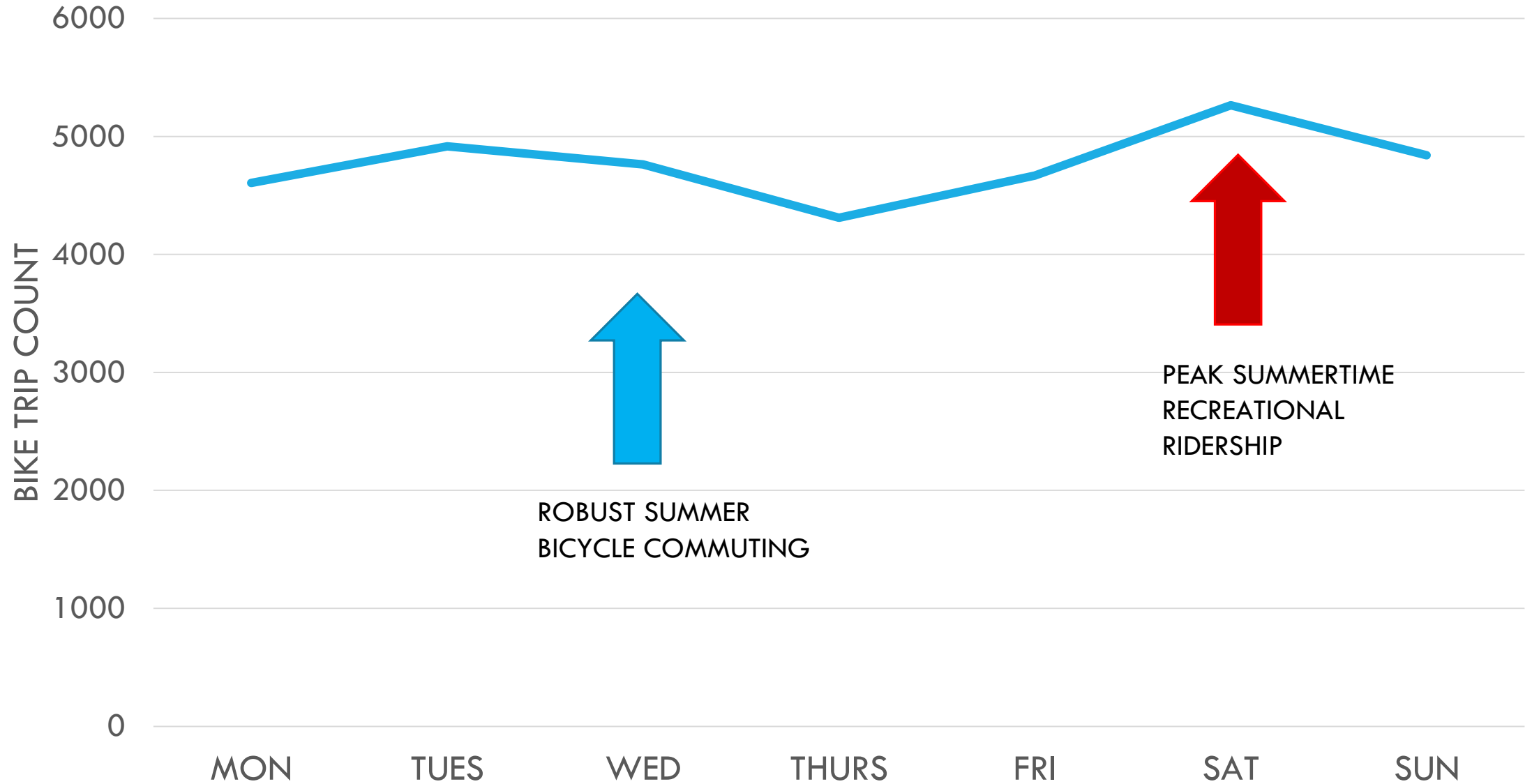




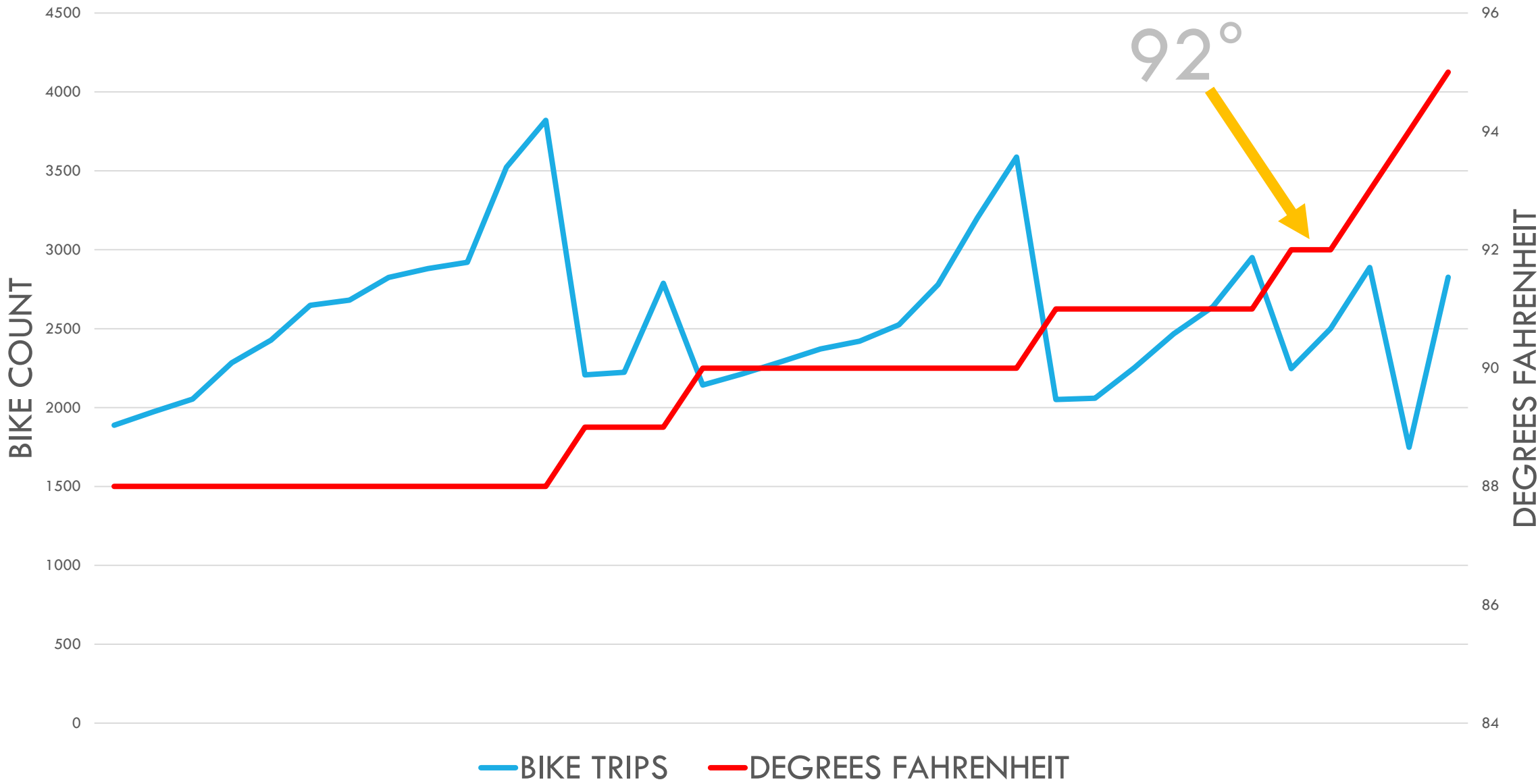
# SUMMER & WINTER BIKE TRIPS



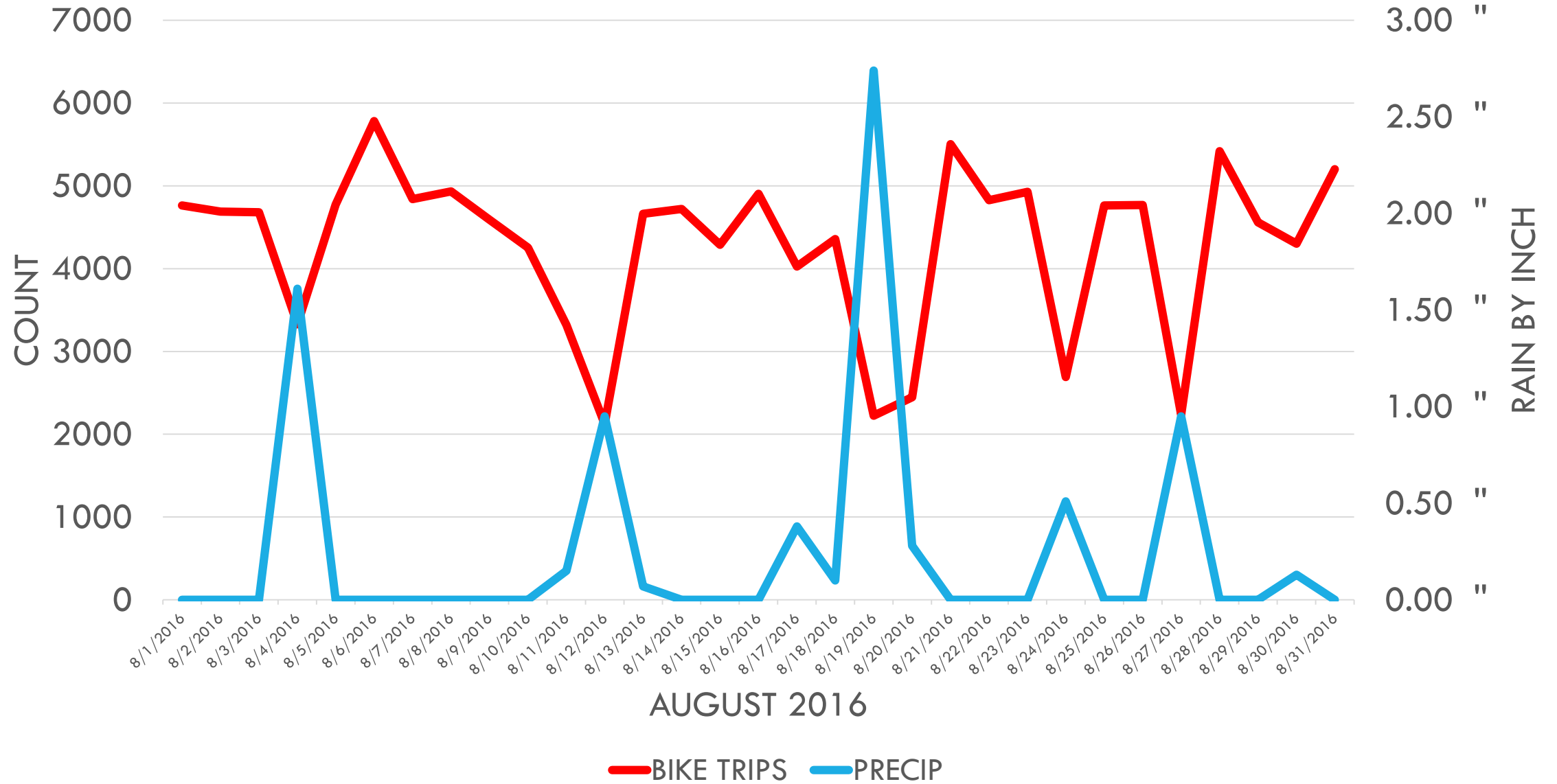
# SUMMER MEDIAN TRIPS BY DAY 2015-2017



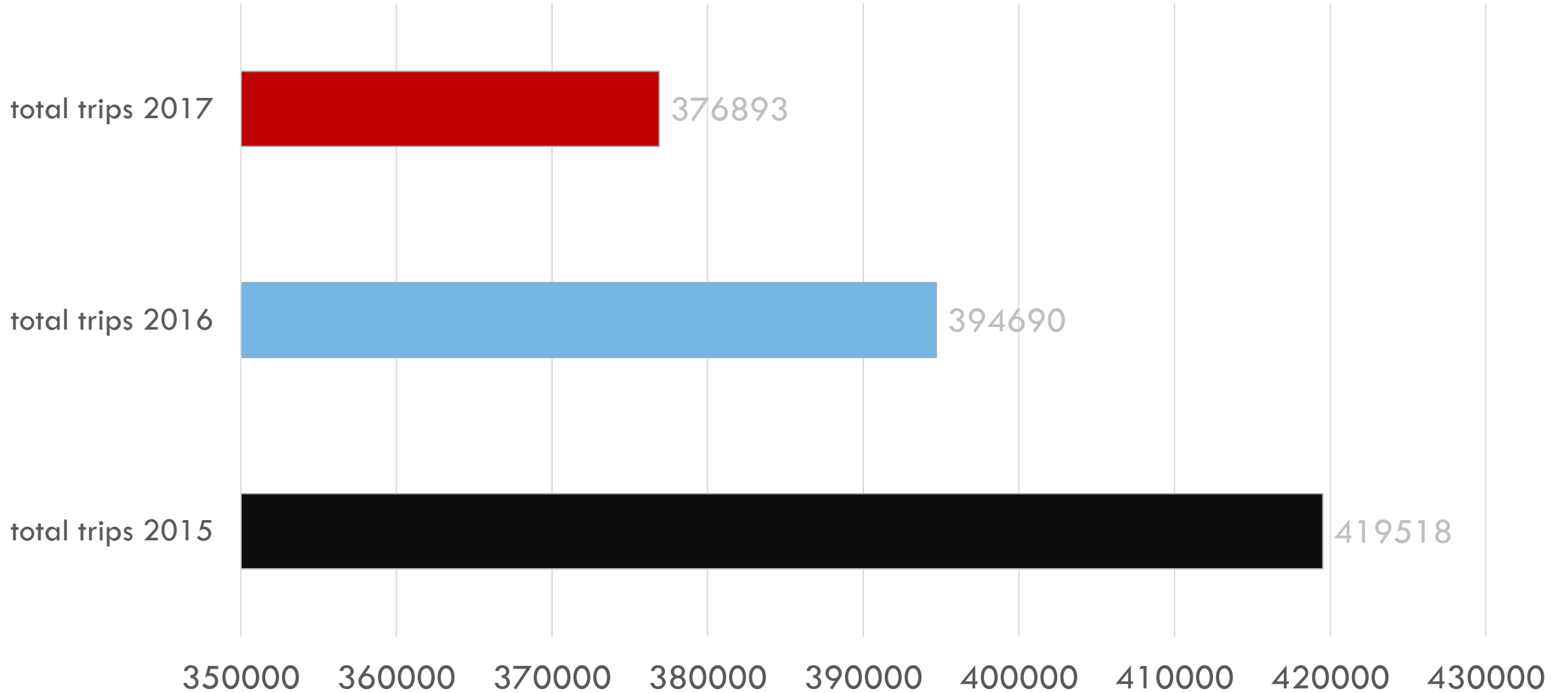
# BIKE TRIPS >88°



# BIKE TRIPS/PRECIPITATION



# TOTAL TRIPS BY YEAR 2015-2017 COMBINED ECO DISPLAY COUNTS



## SUMMARY

BIKE TRIPS CORRELATE WITH DAILY HIGH TEMPERATURE

BIKE TRIP COUNTS CORRELATE AMONG DIFFERENT STATION COUNTS

LARGE SAMPLES CORRELATE WITH SMALL SAMPLES

BIKE TRIPS RETURN TO THE AVERAGE TRIP COUNTS AT DAILY HIGH TEMPERATURE WITHIN 24 HOURS OF SNOW EMERGENCIES



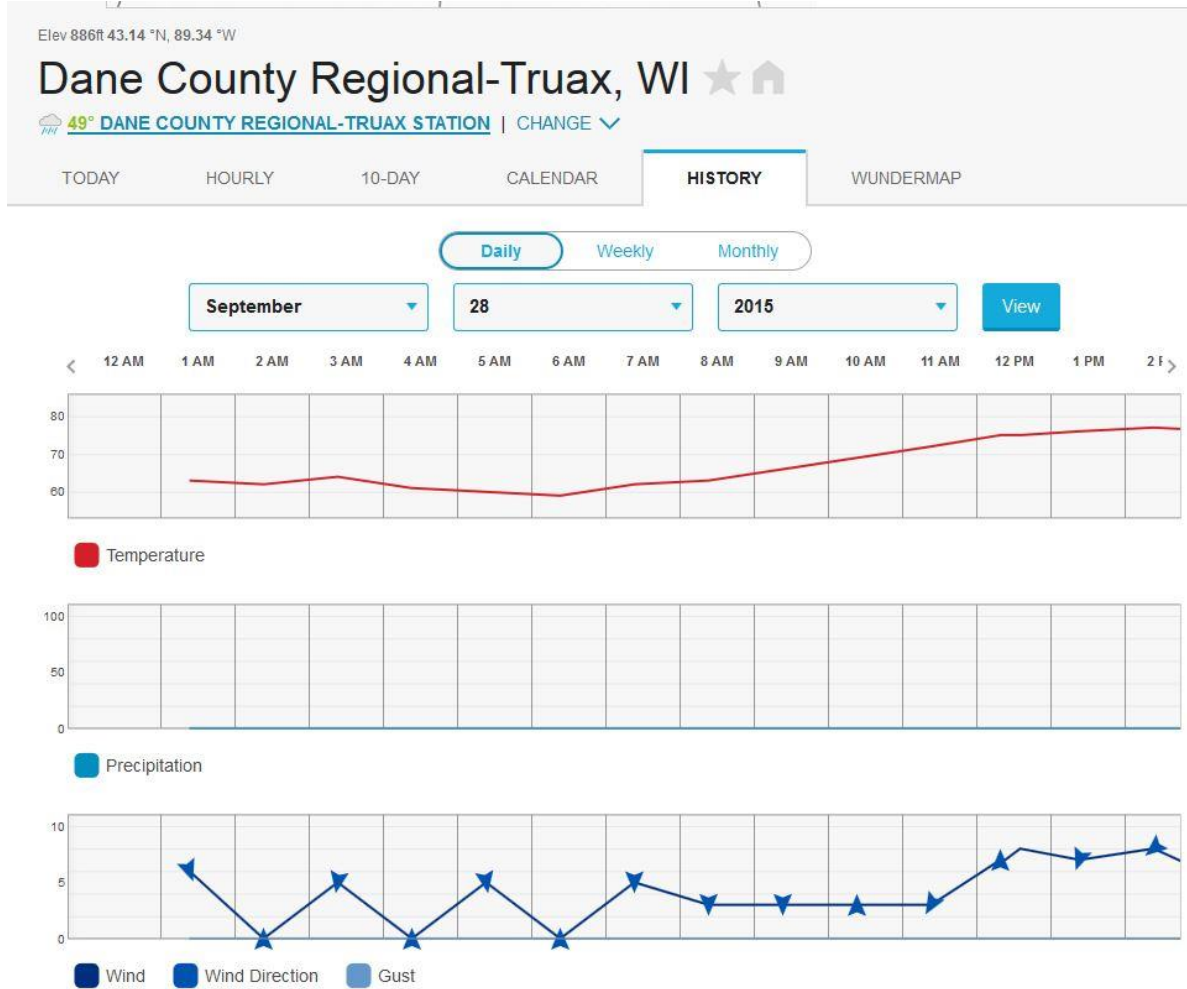
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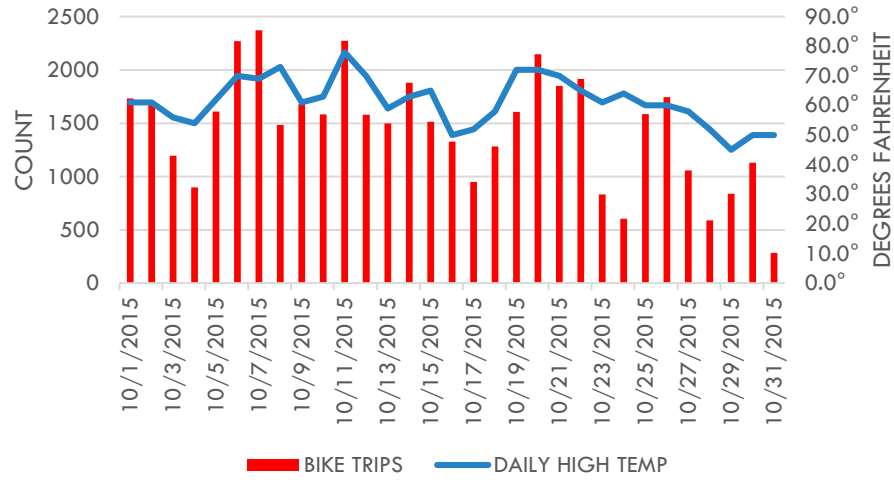


<https://www.wunderground.com/>

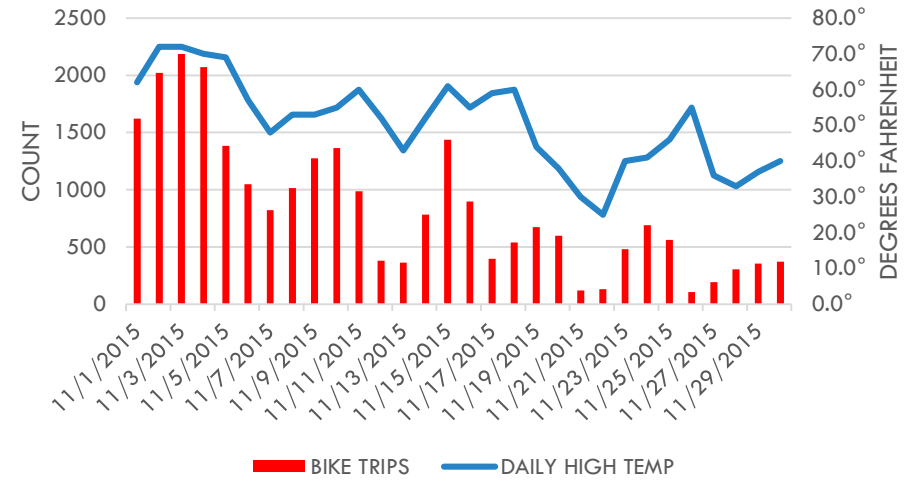


HISTORICAL WEATHER DATA BY HOUR

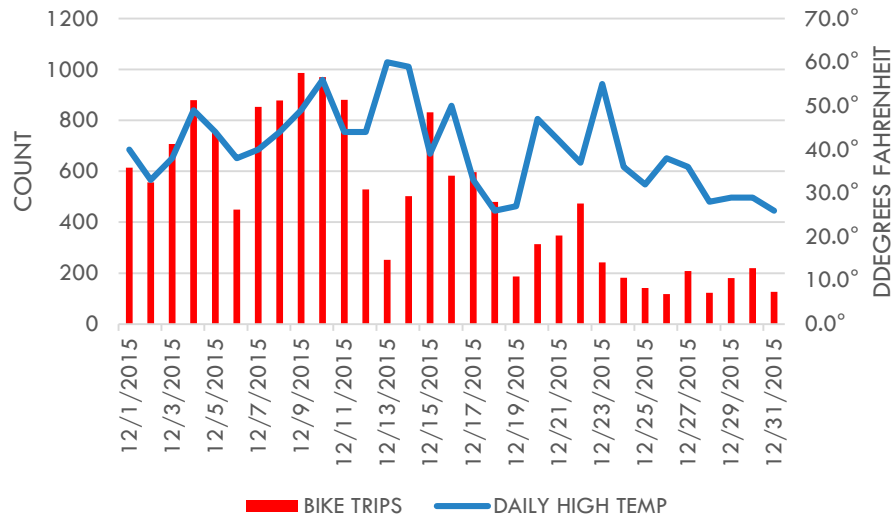
### OCTOBER 2015



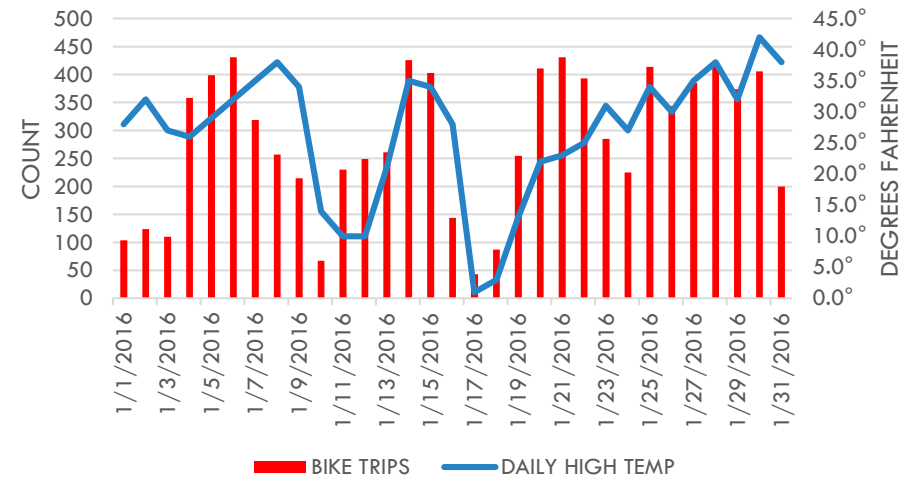
### NOVEMBER 2015



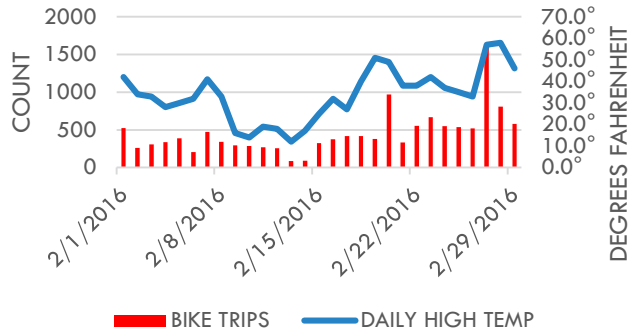
### DECEMBER 2015



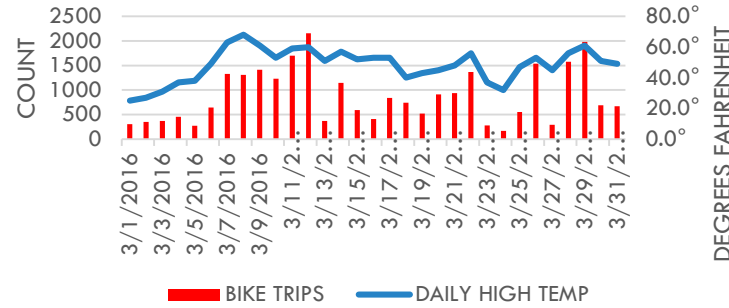
### JANUARY 2016



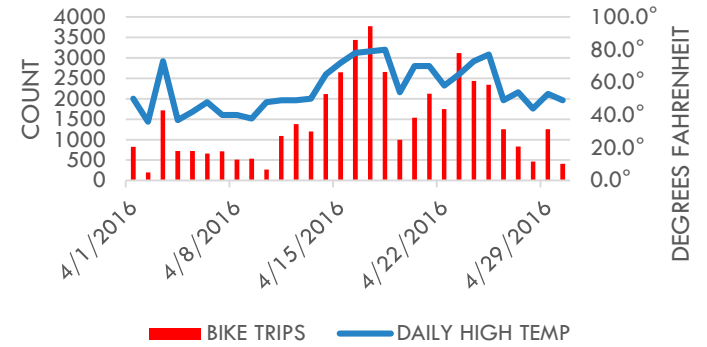
### FEBRUARY 2016



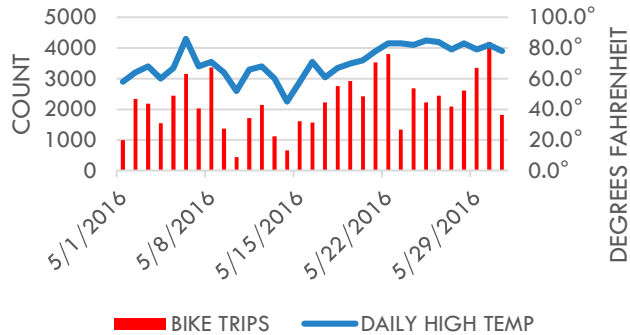
### MARCH 2016



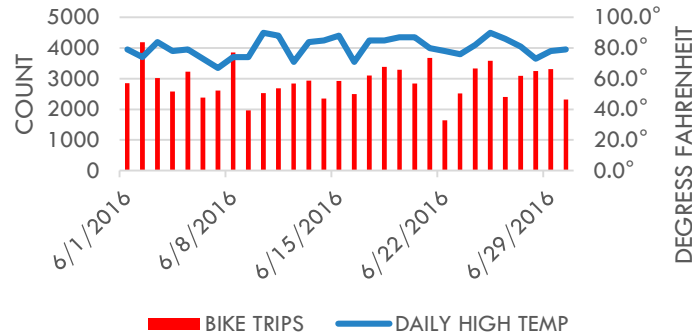
### APRIL 2016



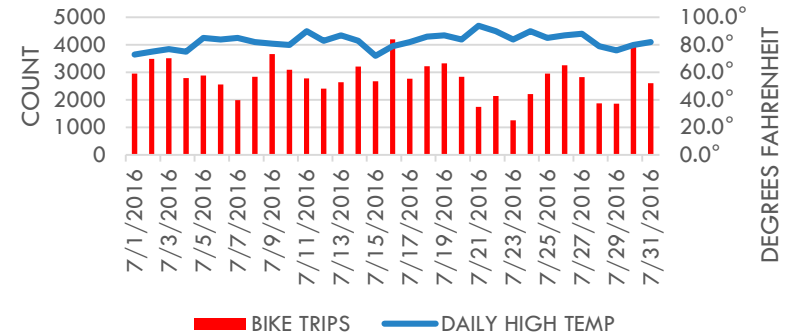
### MAY 2016



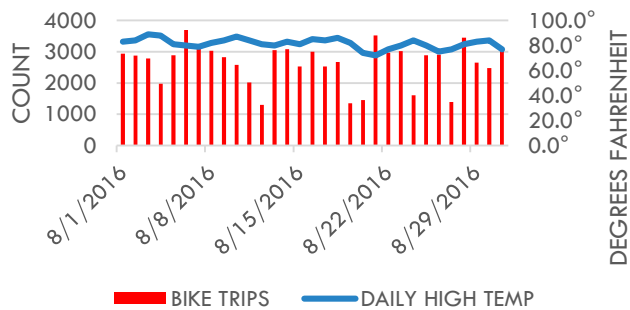
### JUNE 2016



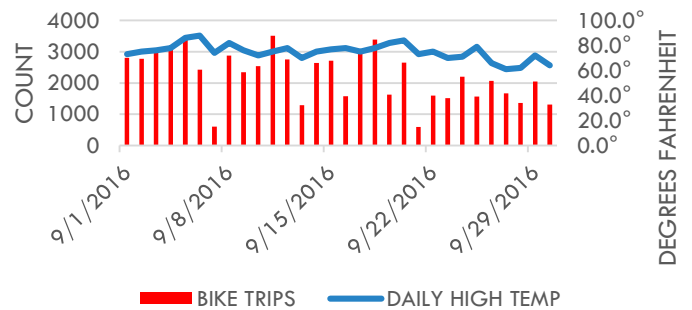
### JULY 2016



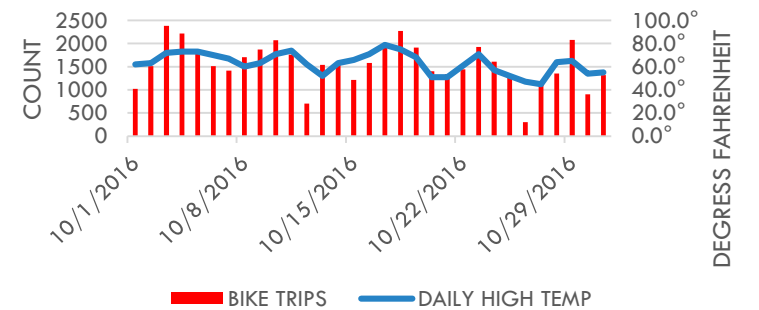
### AUGUST 2016



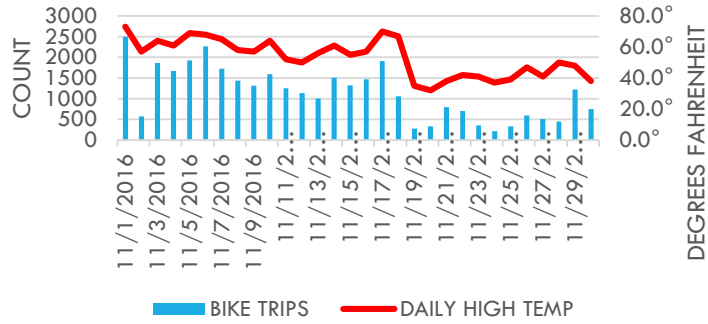
### SEPTEMBER 2016



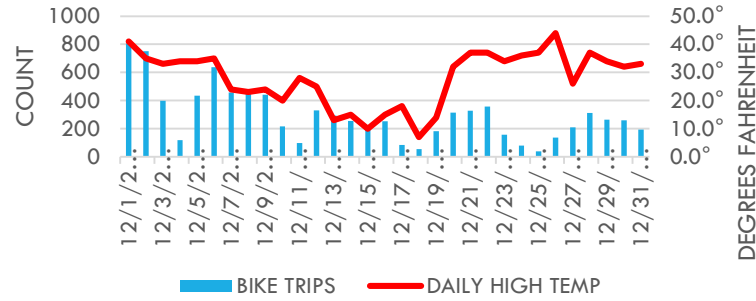
### OCTOBER 2016



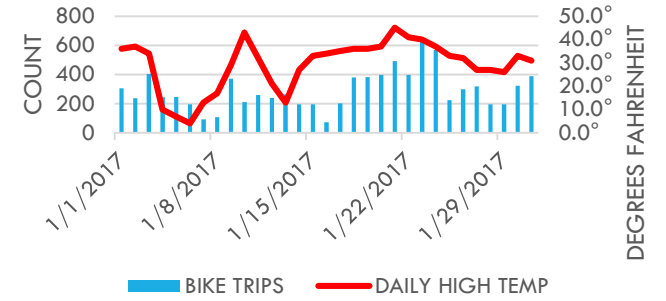
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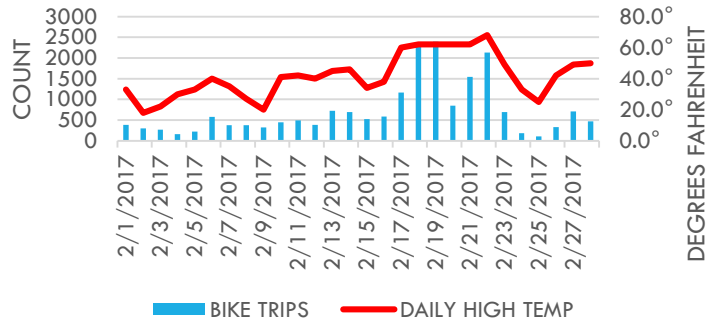
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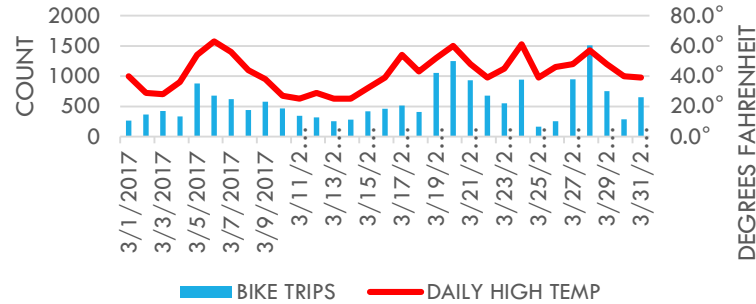
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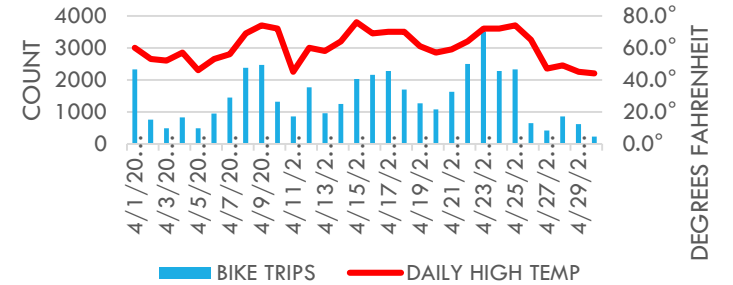
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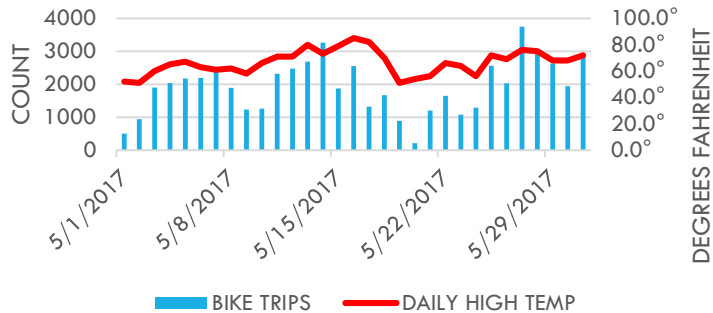
### MARCH 2017



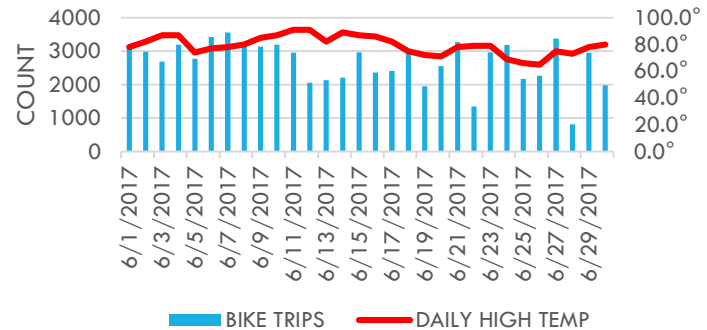
### APRIL 2017



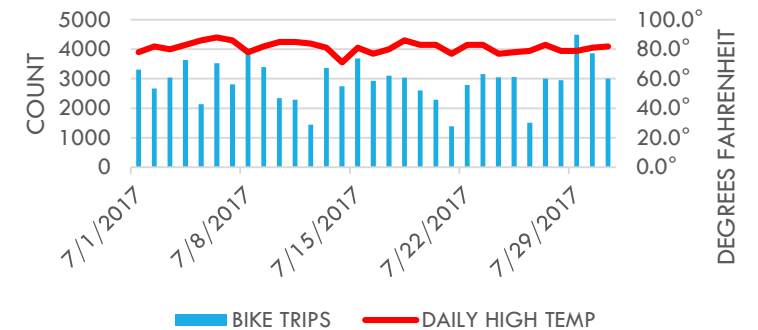
### MAY 2017

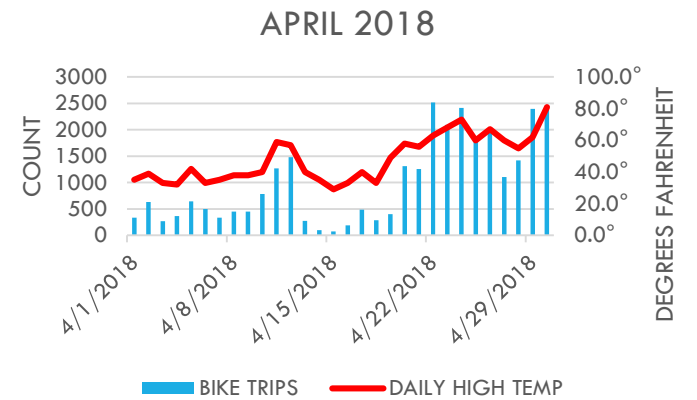
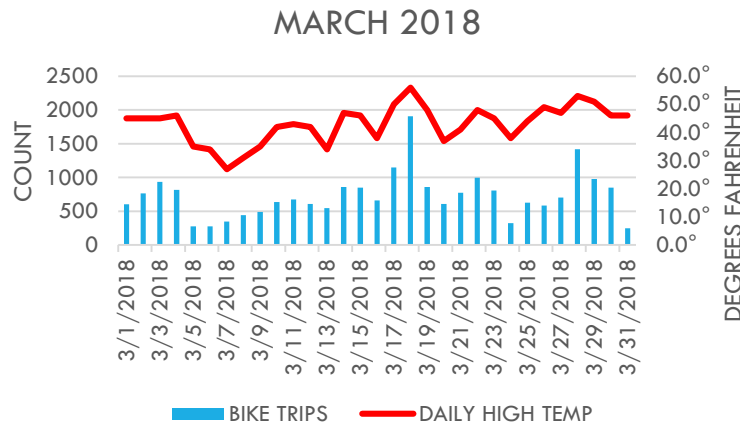
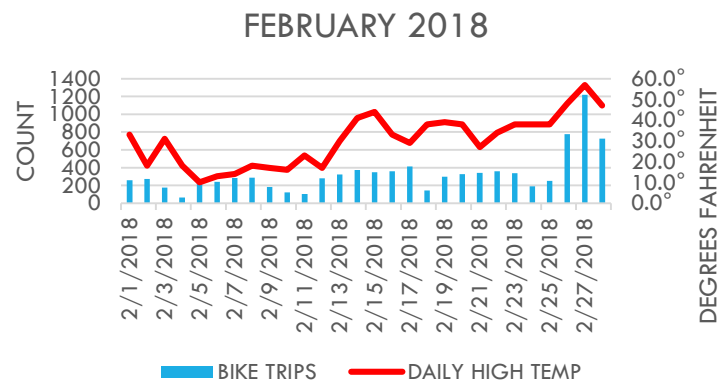
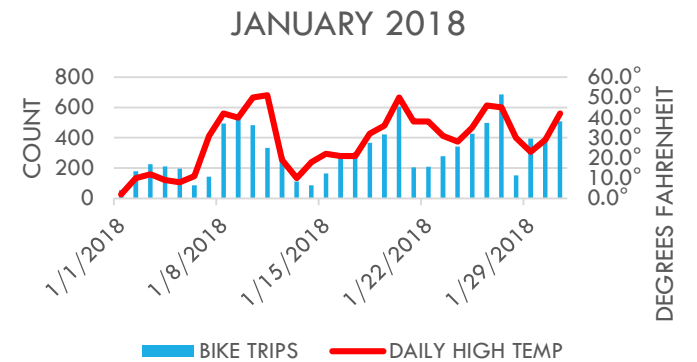
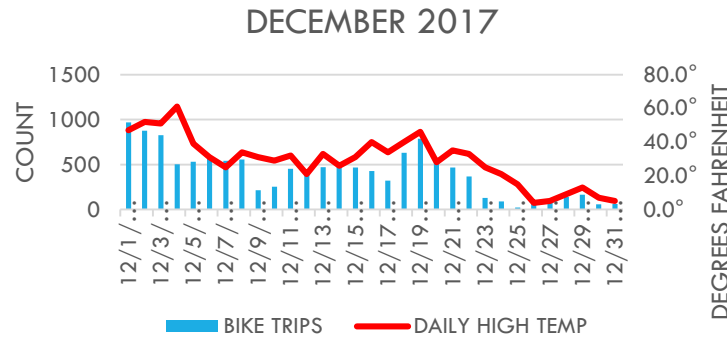
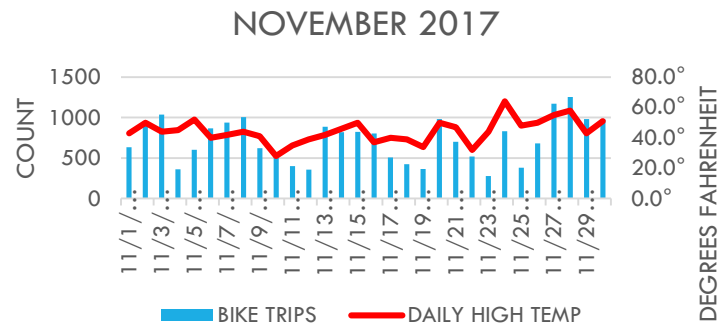
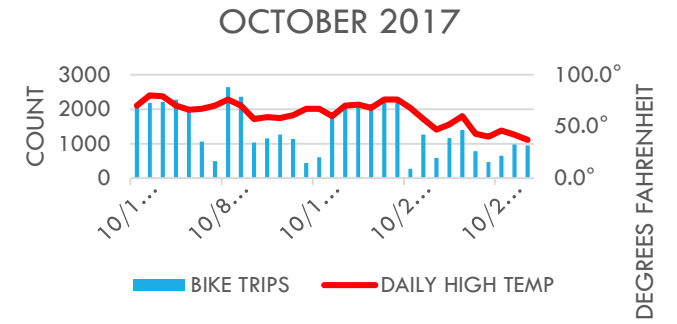
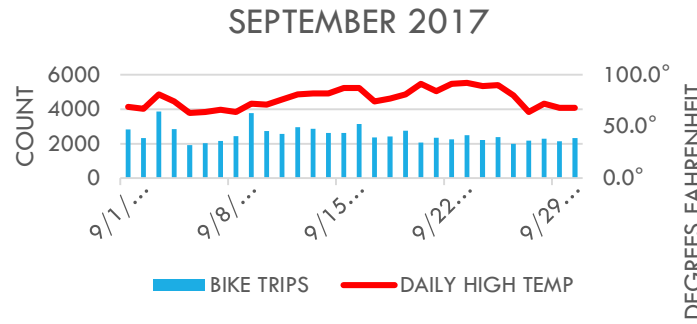
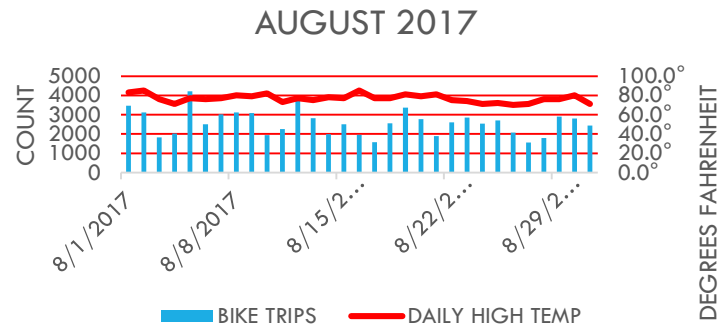


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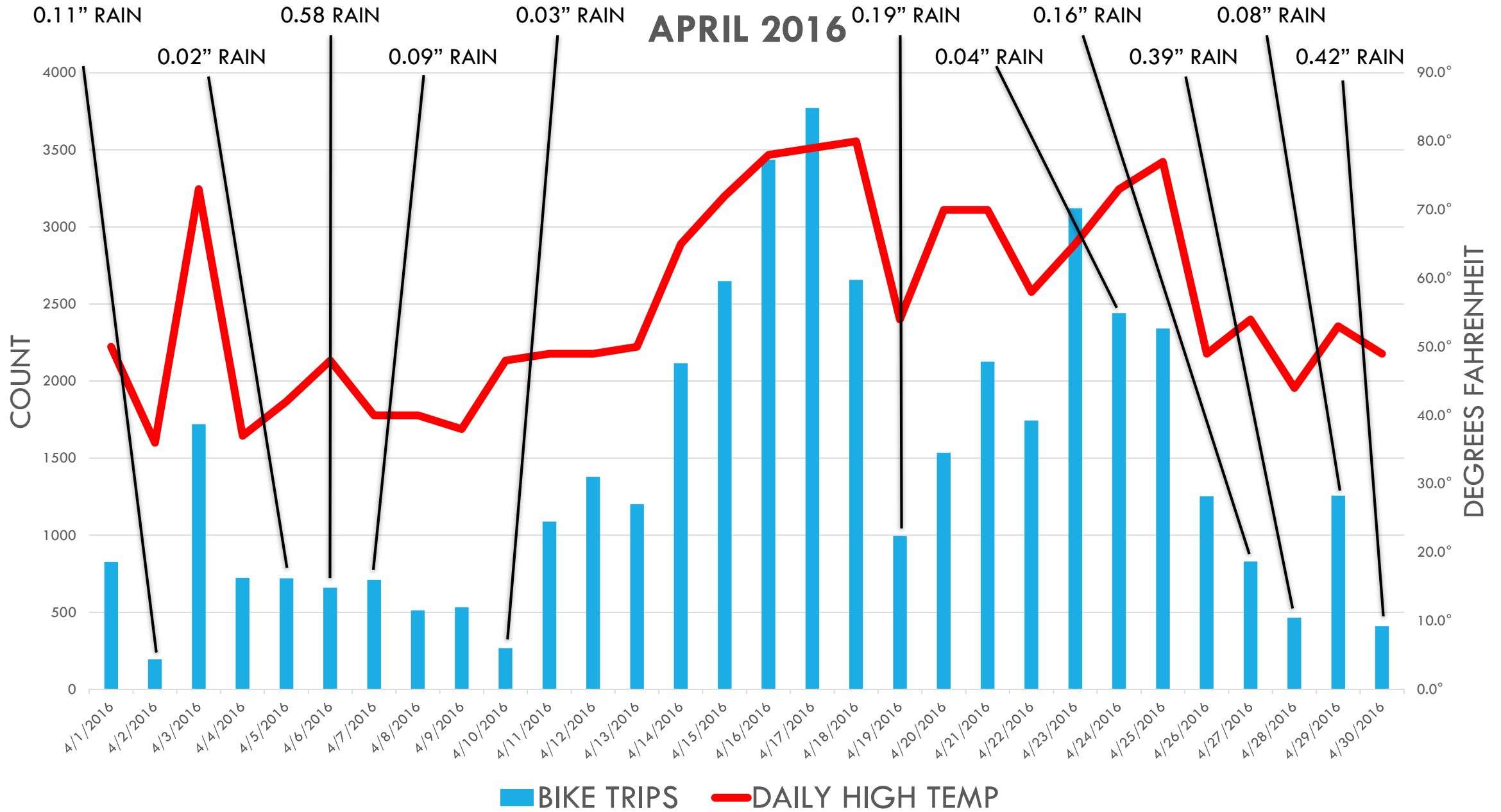


### JULY 2017

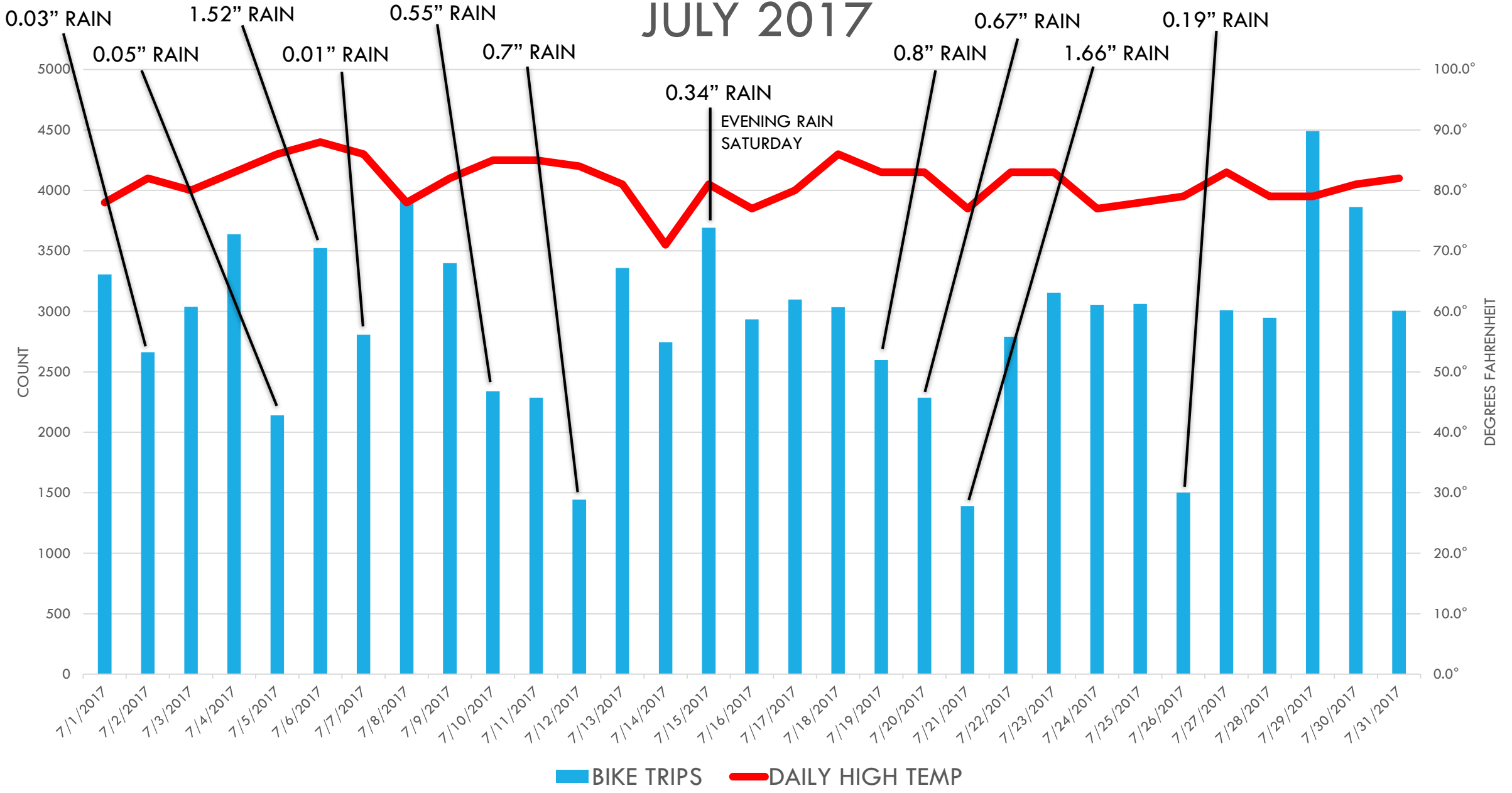




# APRIL 2016

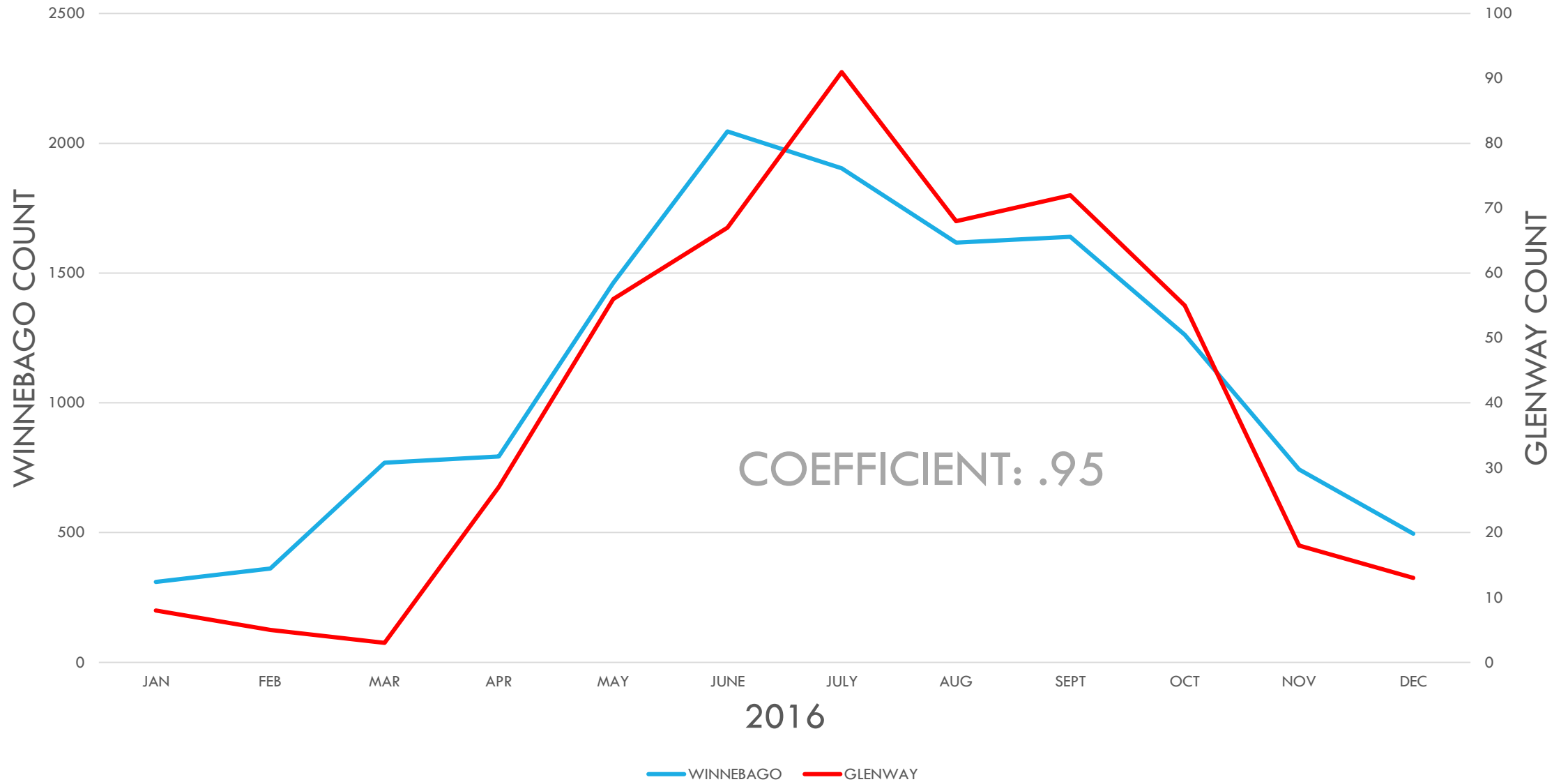


# JULY 2017

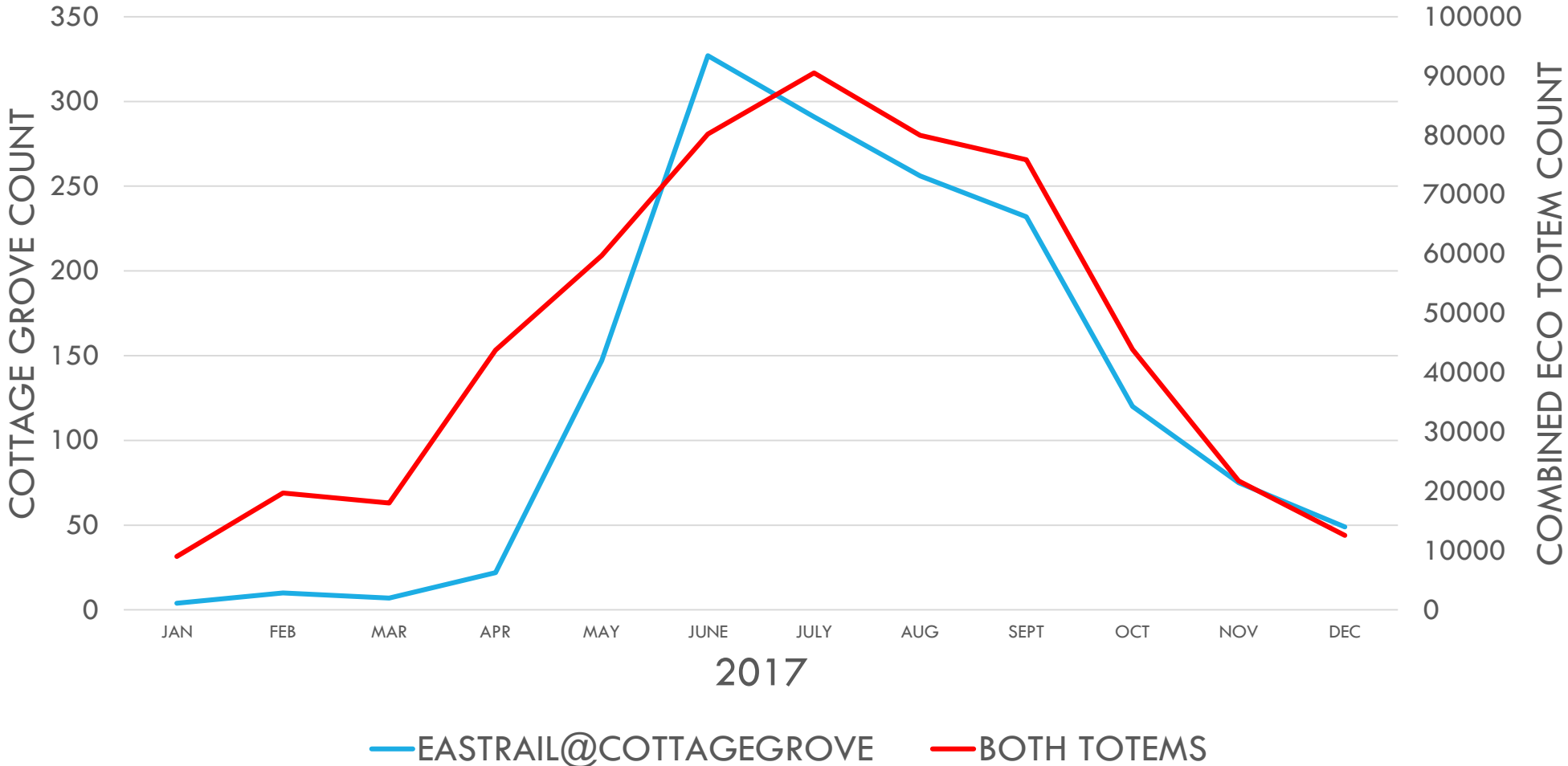




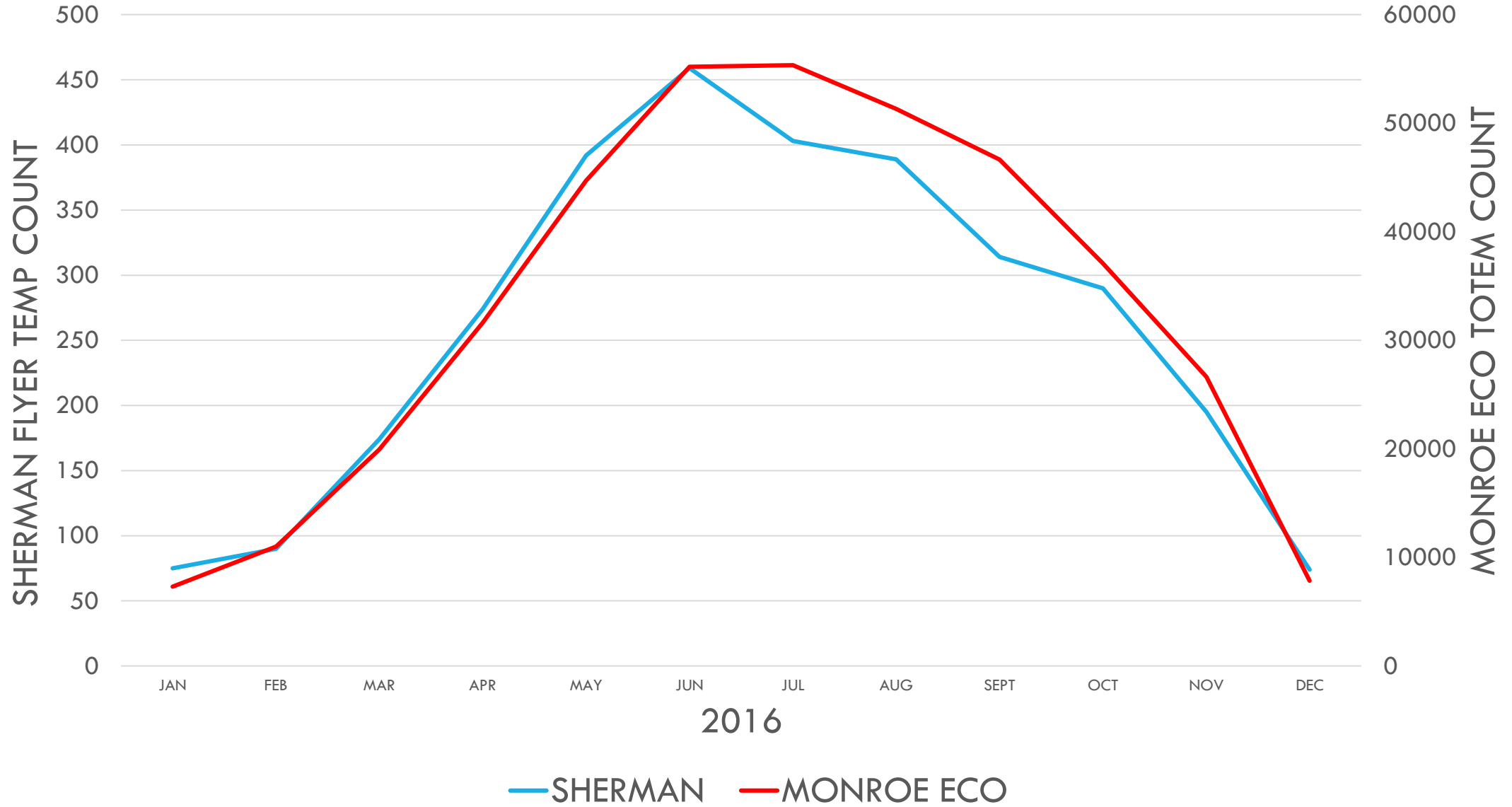
# EASTRAIL PATH @ WINNEBAGO/SOUTHWEST PATH @ GLENWAY-SPEEDWAY



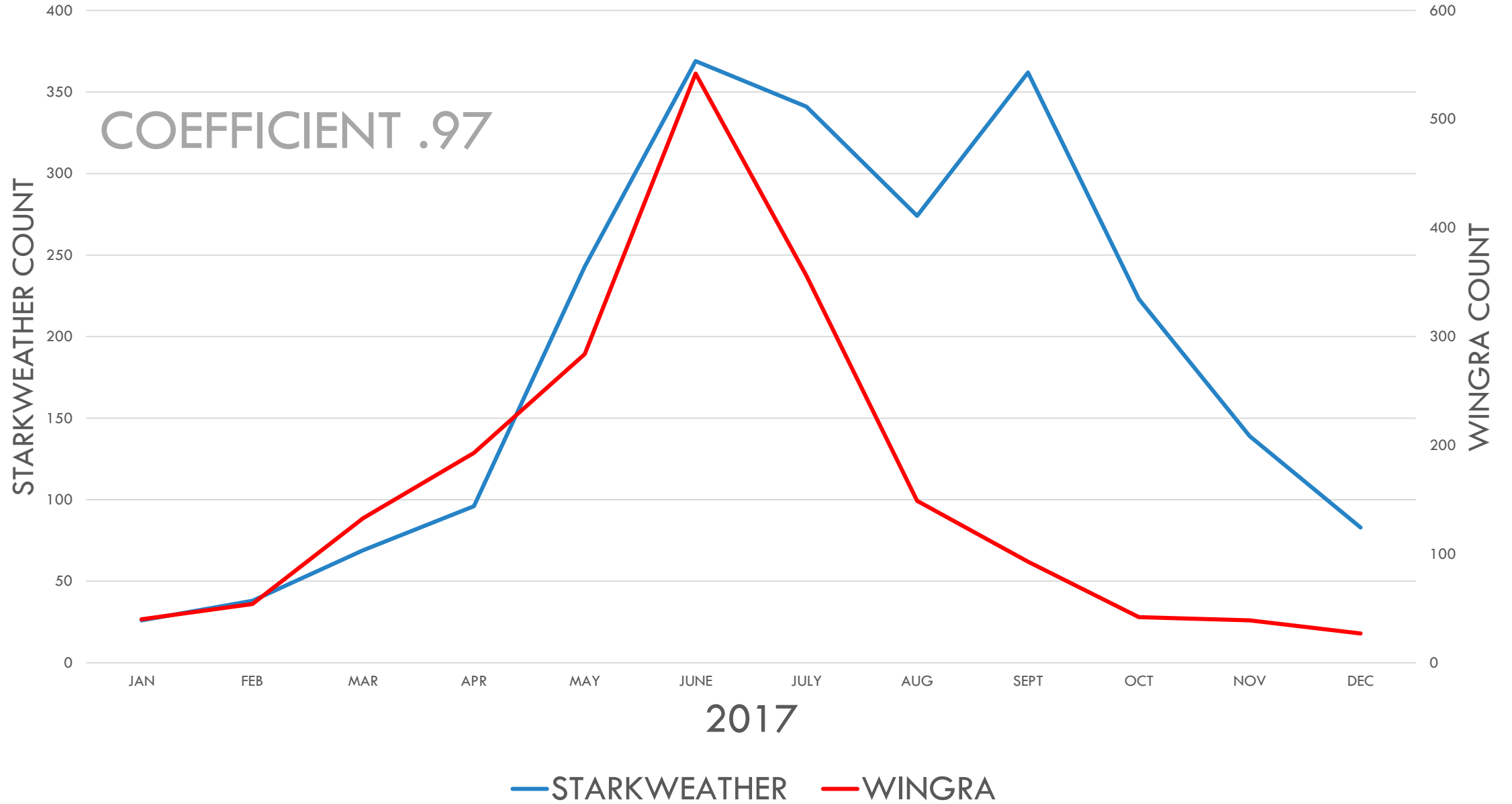
EASTRAIL@COTTAGE GROVE/COMBINED ECO DISPLAYS BY MONTH.  
COEF: .93



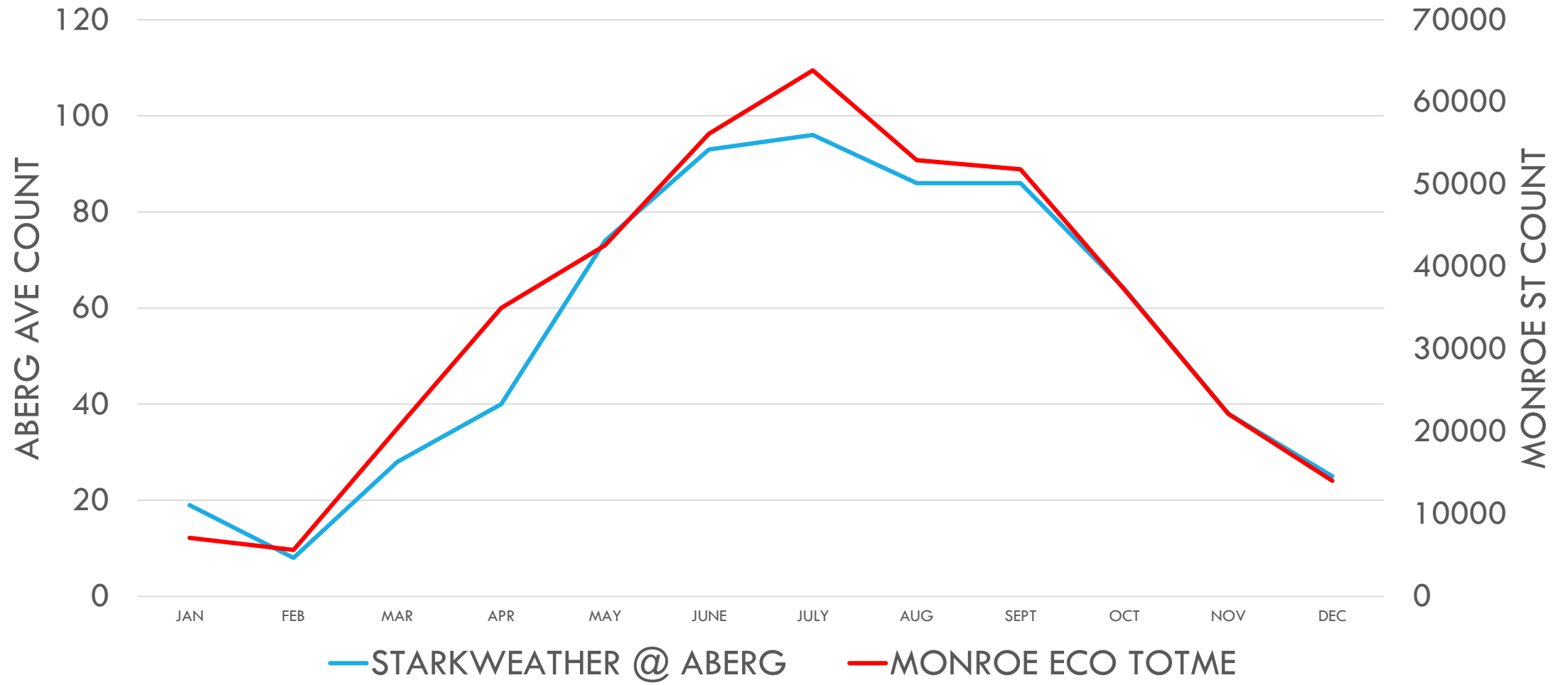
# SHERMAN FLYER/MONROE ECO BIKETRIPS BY MONTH; COEF: .98



# WINGRA CREEK PATH @ S PARK / STARKWEATHER PATH @ ANDERSON

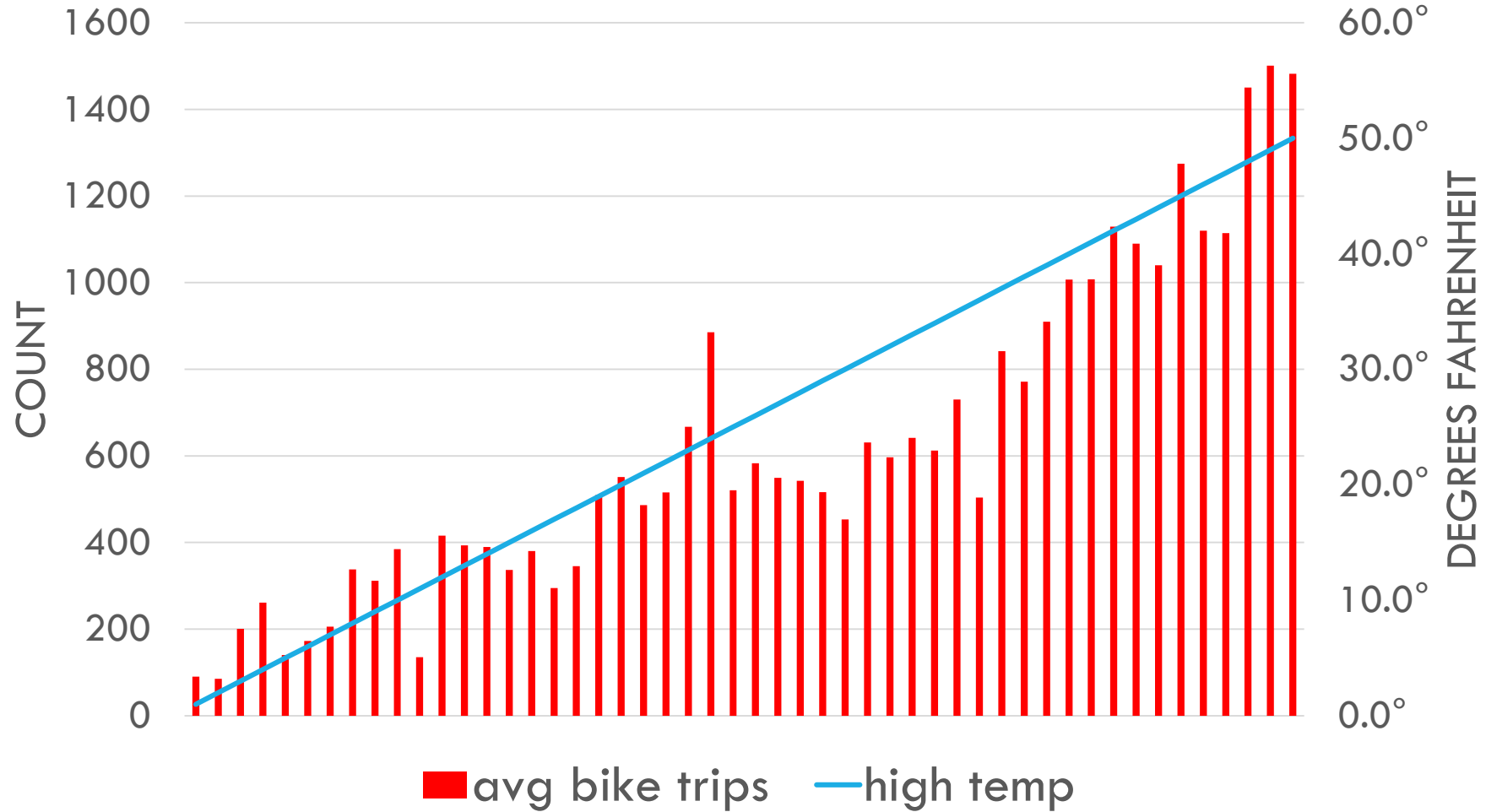


2015 STARKWEATHER @ ABERG/MONROE ECO DISPLAY. TRIPS BY MONTH  
COEFFICIENT: .98

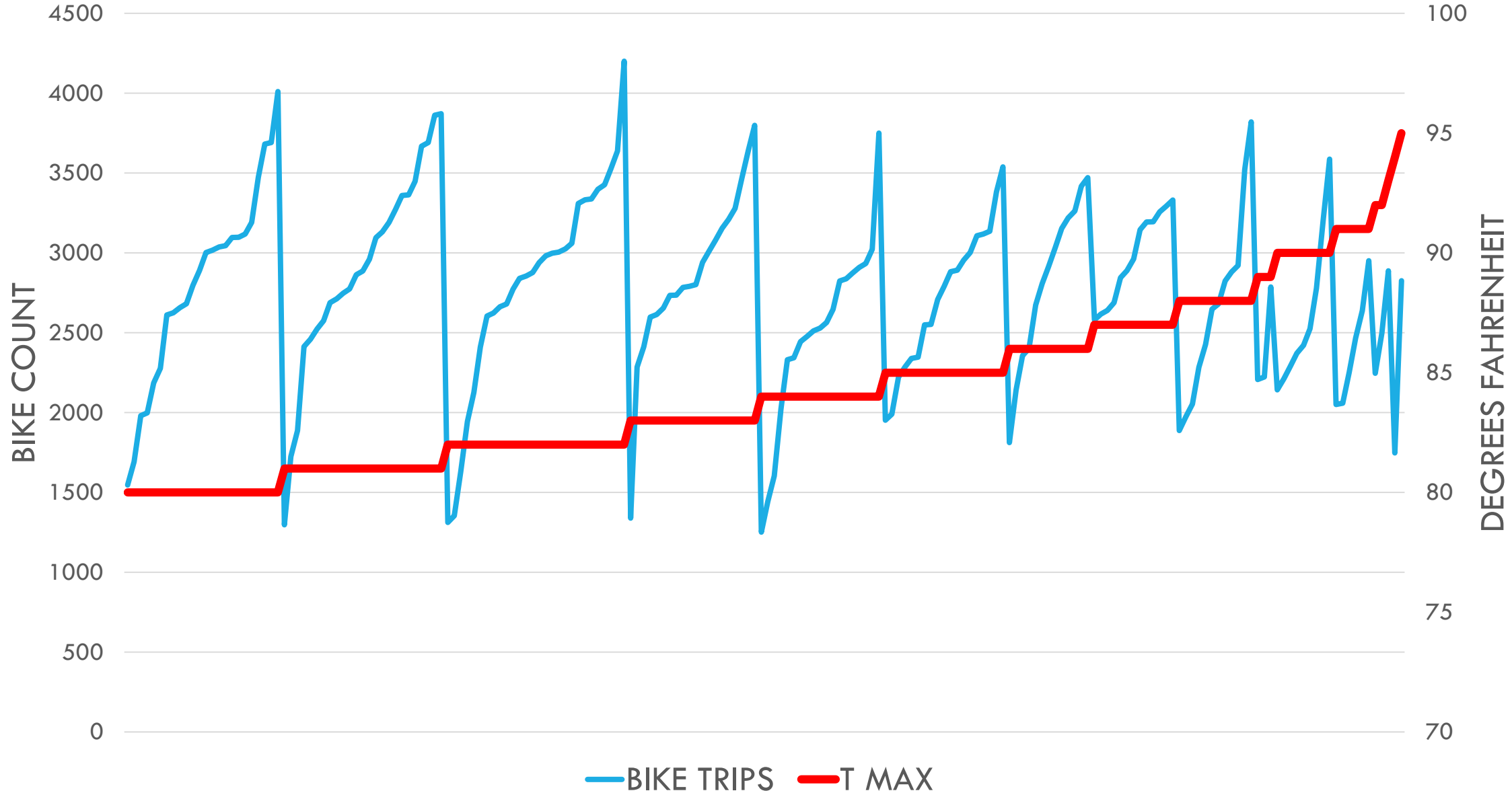


# BIKE TRIP DAILY AVERAGE BY DEGREE

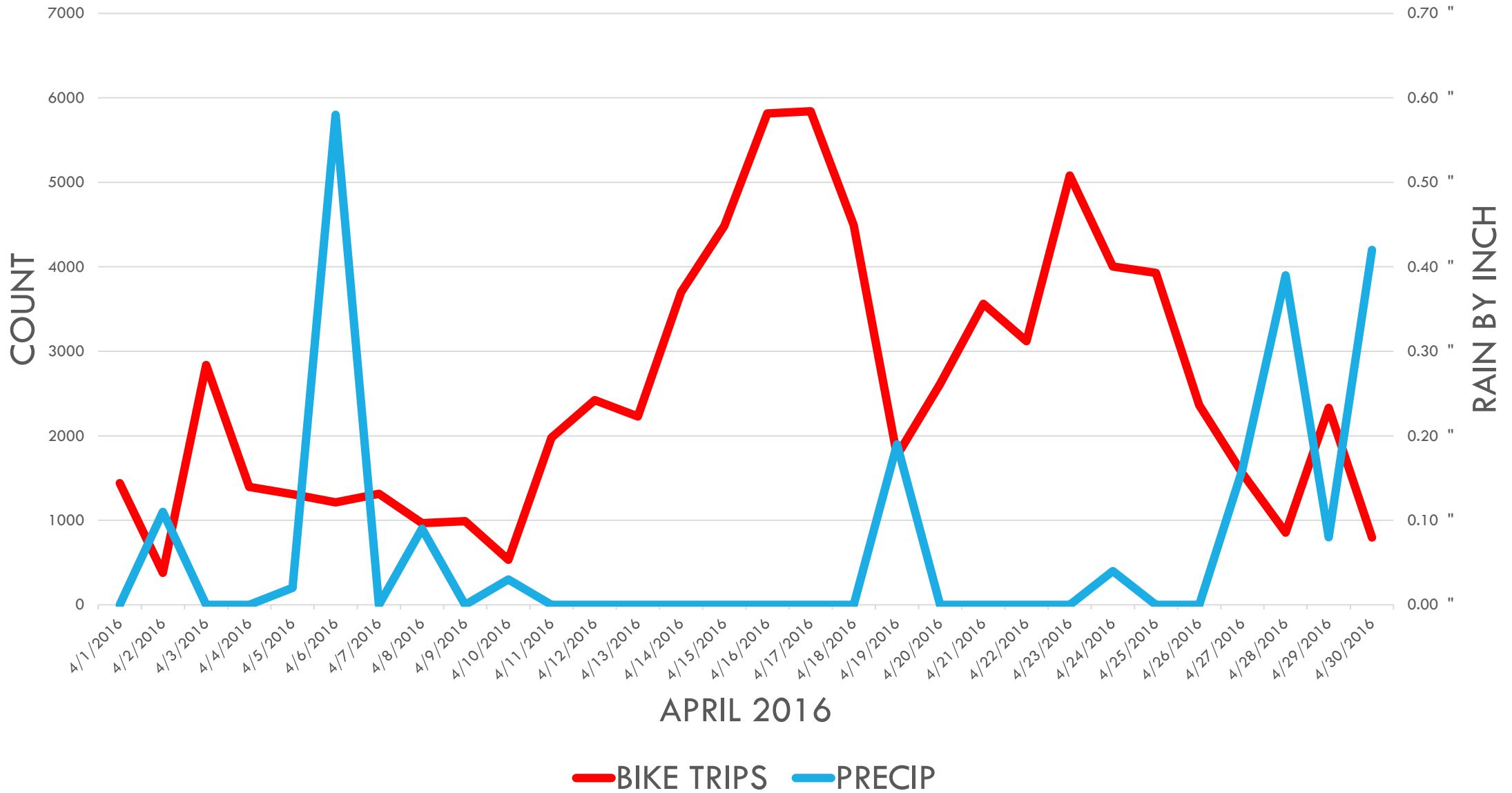
METEROLOGIC WINTER 2015-2018



# BIKE TRIPS >80°

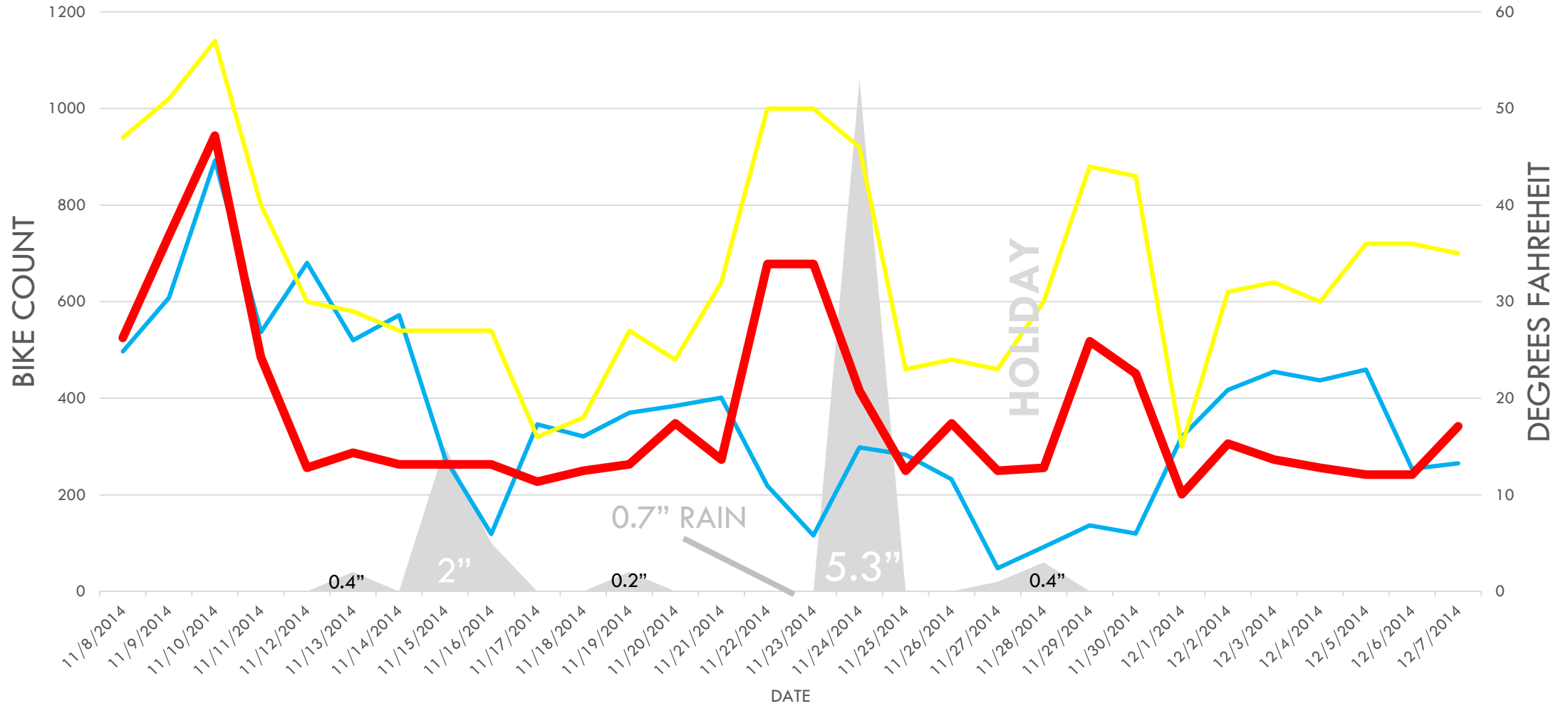


# PRECIPITATION & BIKE TRIPS



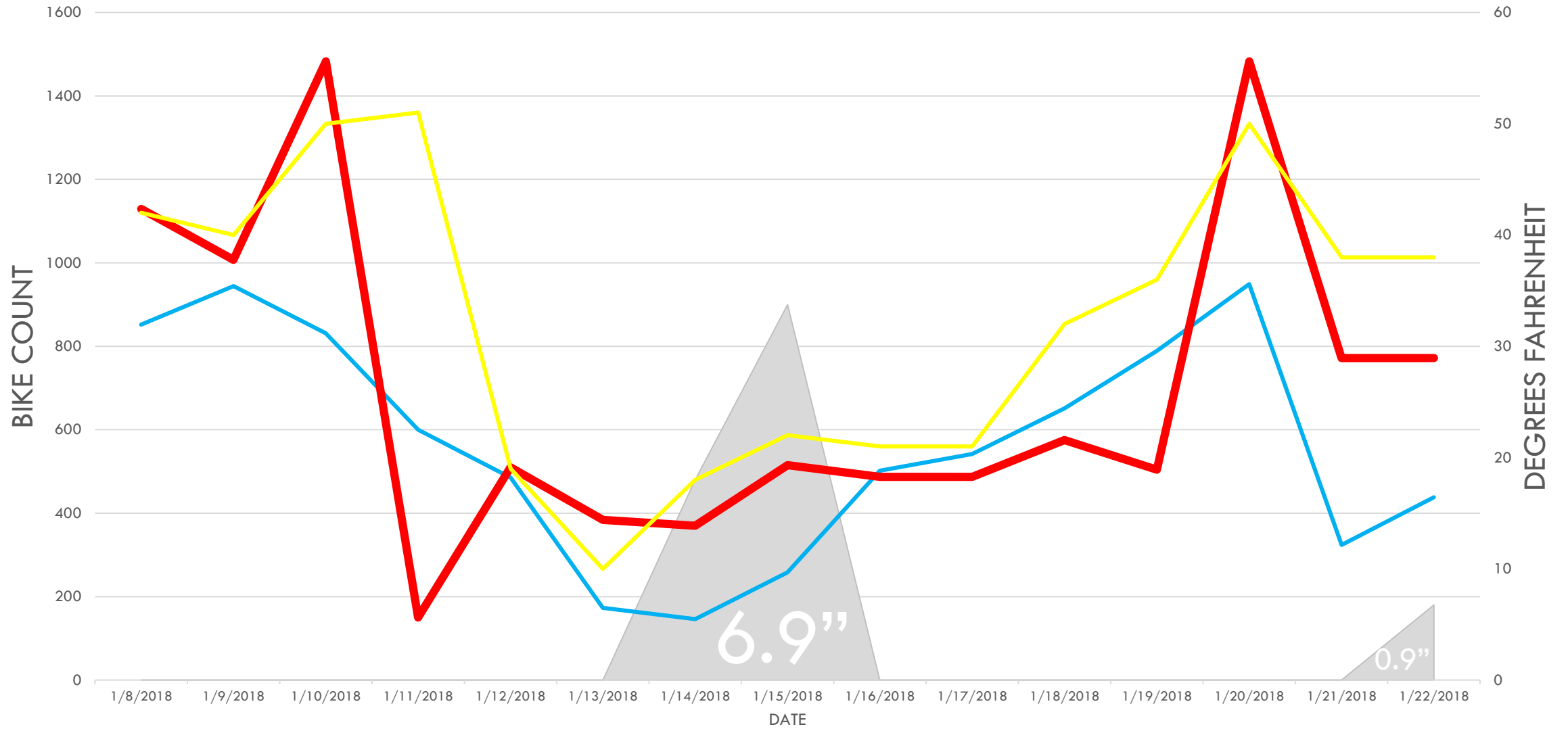


# SNOWFALL: 11/08/2014-12/07/2014



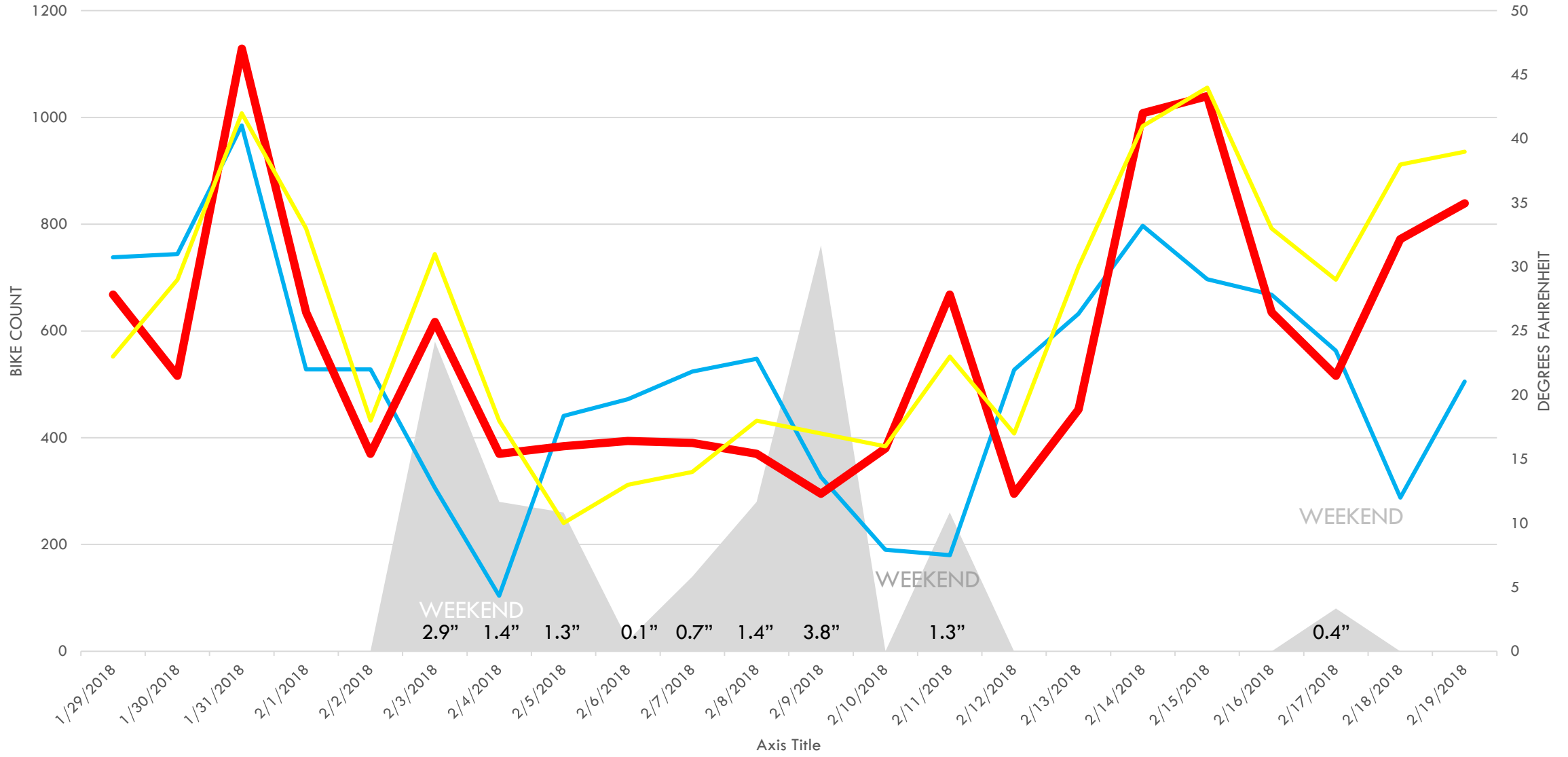
SNOW
  BIKE TRIPS
  AVG TRIPS @ TEMP
  T MAX

# 1/14-15/2018: 6.9" SNOW



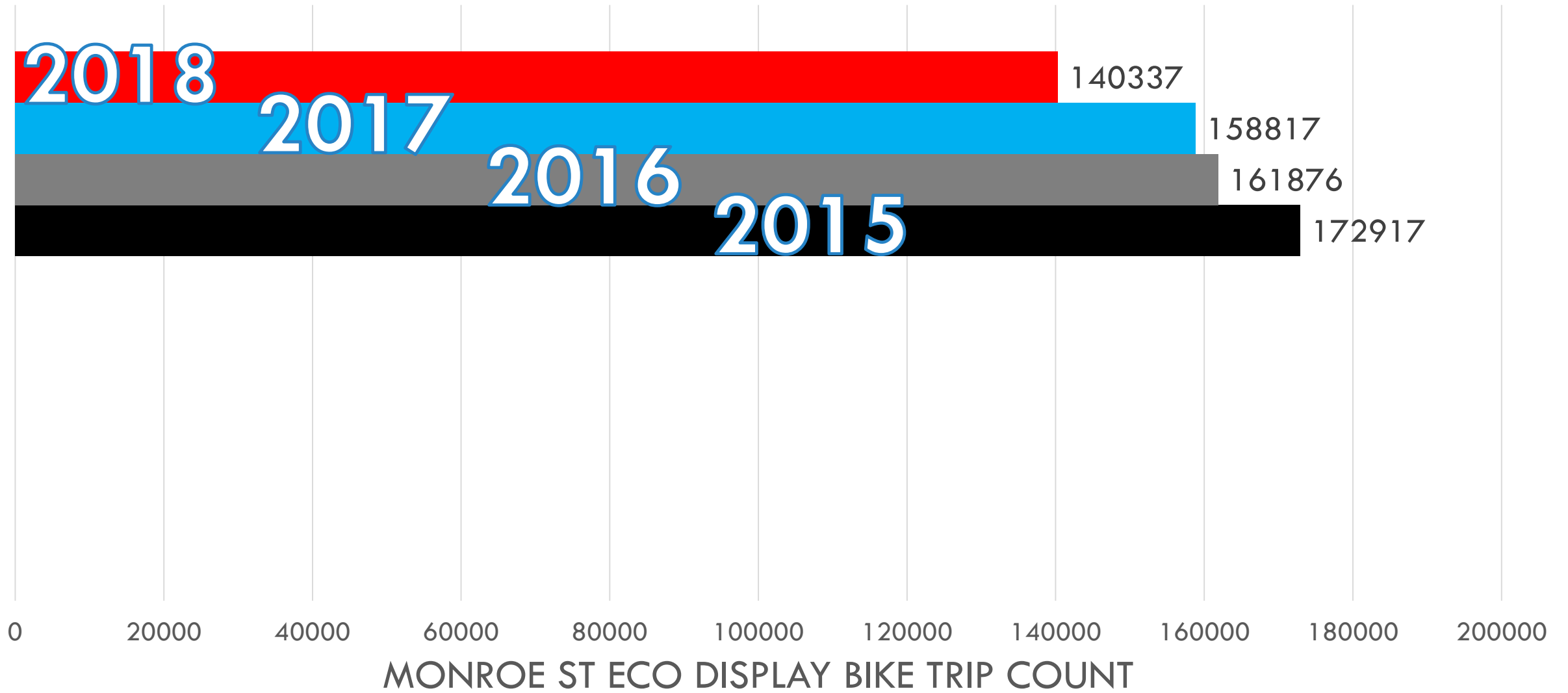
■ SNOW    — BIKE TRIPS    — AVG TRIPS @ TEMP    — TEMP

# 01/29-02/19/2018: 13.3" SNOW



SNOW
  BIKE TRIPS
  AVG TRIPS @ TEMP
  TEMP

# SUMMER BICYCLE RIDING (JUNE, JULY, AUGUST) 2015-2018



■ SUMMER 2018 ■ SUMMER 2017 ■ SUMMER 2016 ■ SUMMER 2015