

**GRIDSMART**®  
**TECHNOLOGIES, INC.**



**A UNIQUE SYSTEM FOR  
INTERSECTION ACTUATION AND  
TRAFFIC DATA COLLECTION**



**WHAT IS GRIDSMART?**

# CAMERA



# PROCESSOR



# CLIENT



# TECHNOLOGY

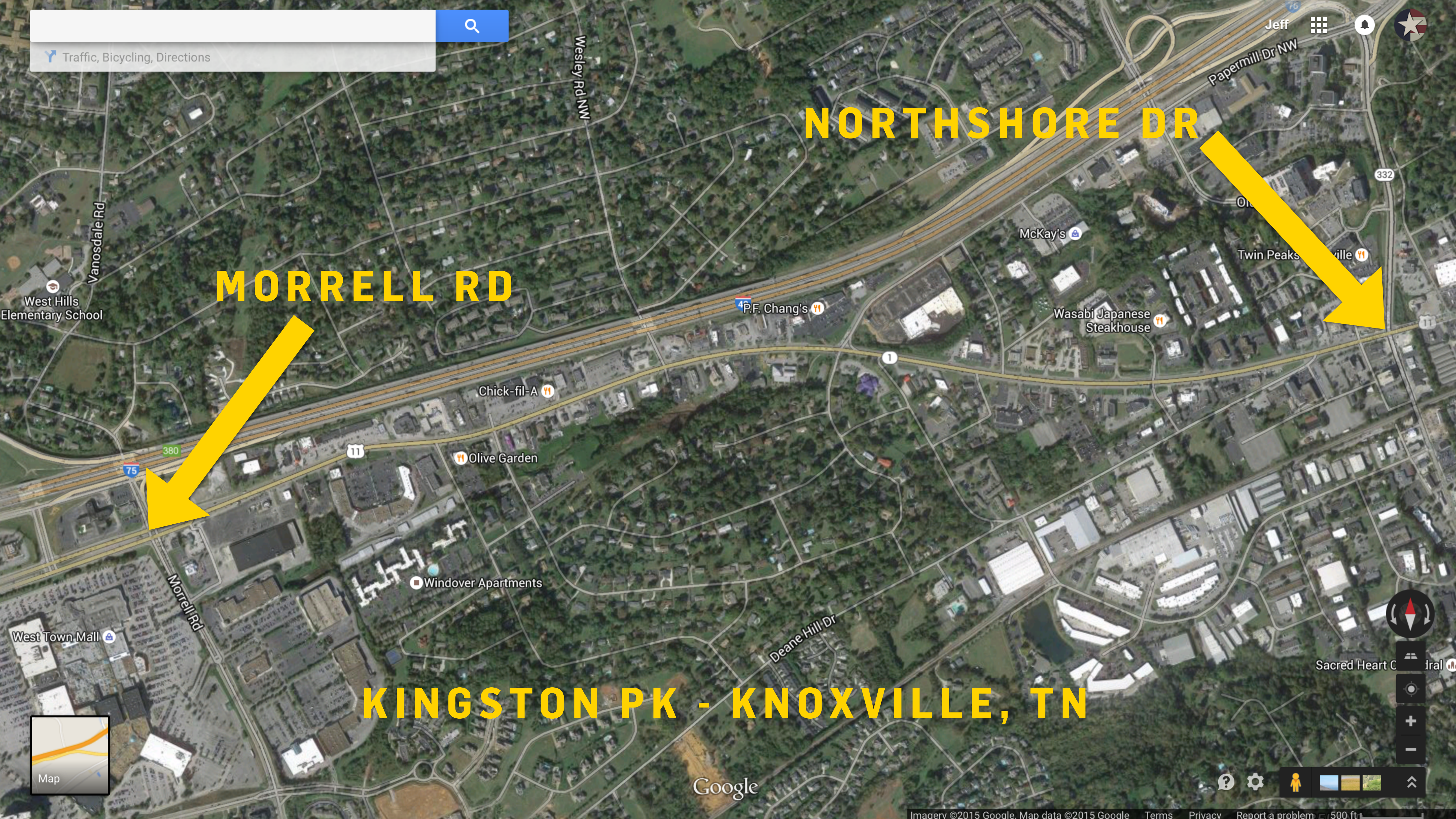
Traffic, Bicycling, Directions



**NORTHSHORE DR**

**MORRELL RD**

**KINGSTON PK - KNOXVILLE, TN**



West Hills Elementary School

West Town Mall

Chick-fil-A

Olive Garden

Windover Apartments

P.F. Chang's

McKay's

Wasabi Japanese Steakhouse

Twin Peaks

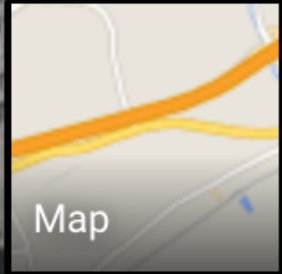
Papemill Dr NW

Wesley Rd NW

Vanosdale Rd

Morrell Rd

Deane Hill Dr



Google

Traffic, Bicycling, Directions



Jeff [Grid Icon] [Location Icon] [Star Icon]

Old Weisgarber Rd

Walgreens

Financial Consulting & Trading International

ATM

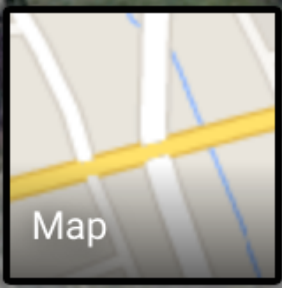
Fourth Creek

# KINGSTON PK @ NORTHSORE DR

Kingston Pike

70

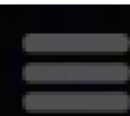
Sitar Inc



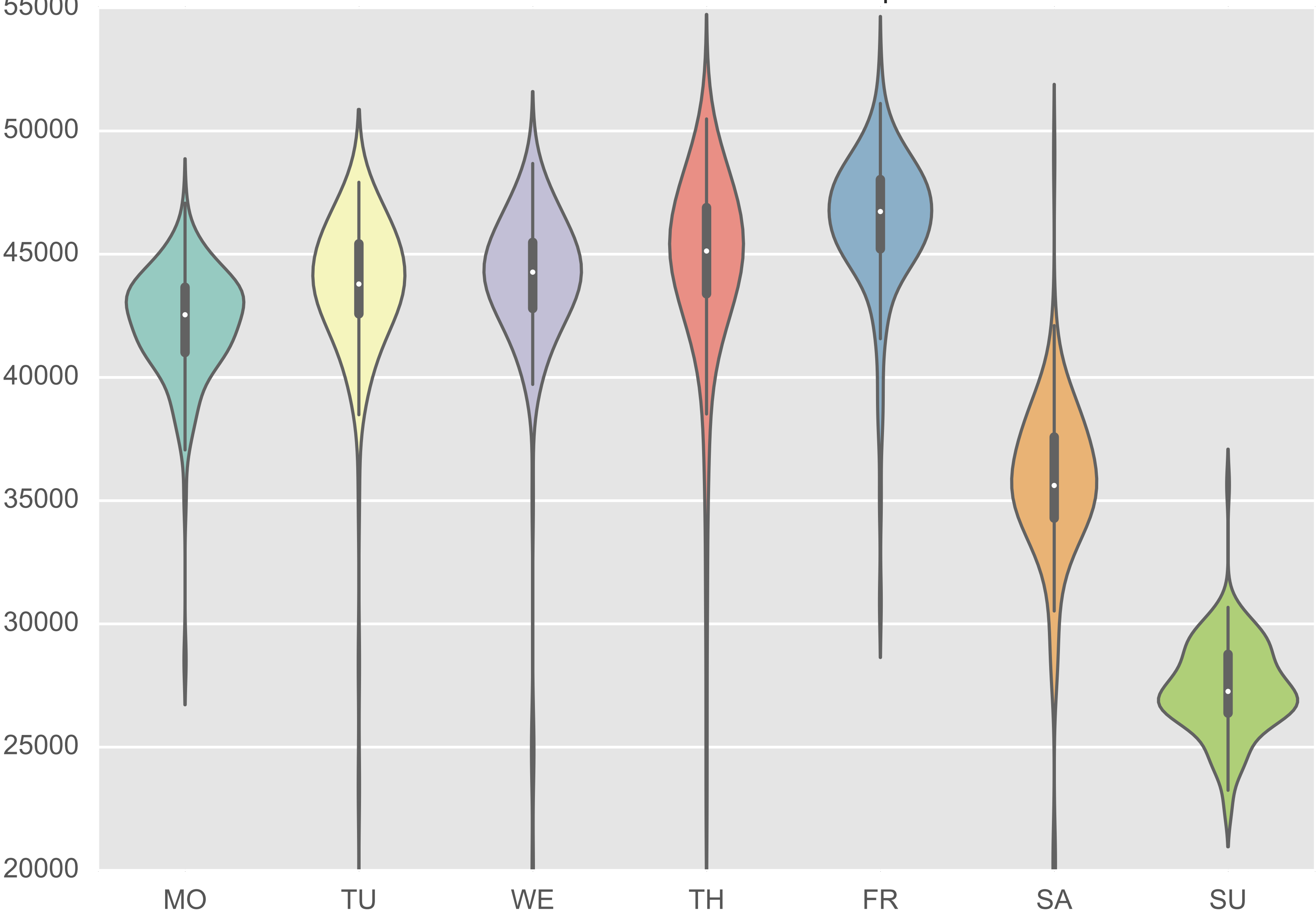
Map

Google

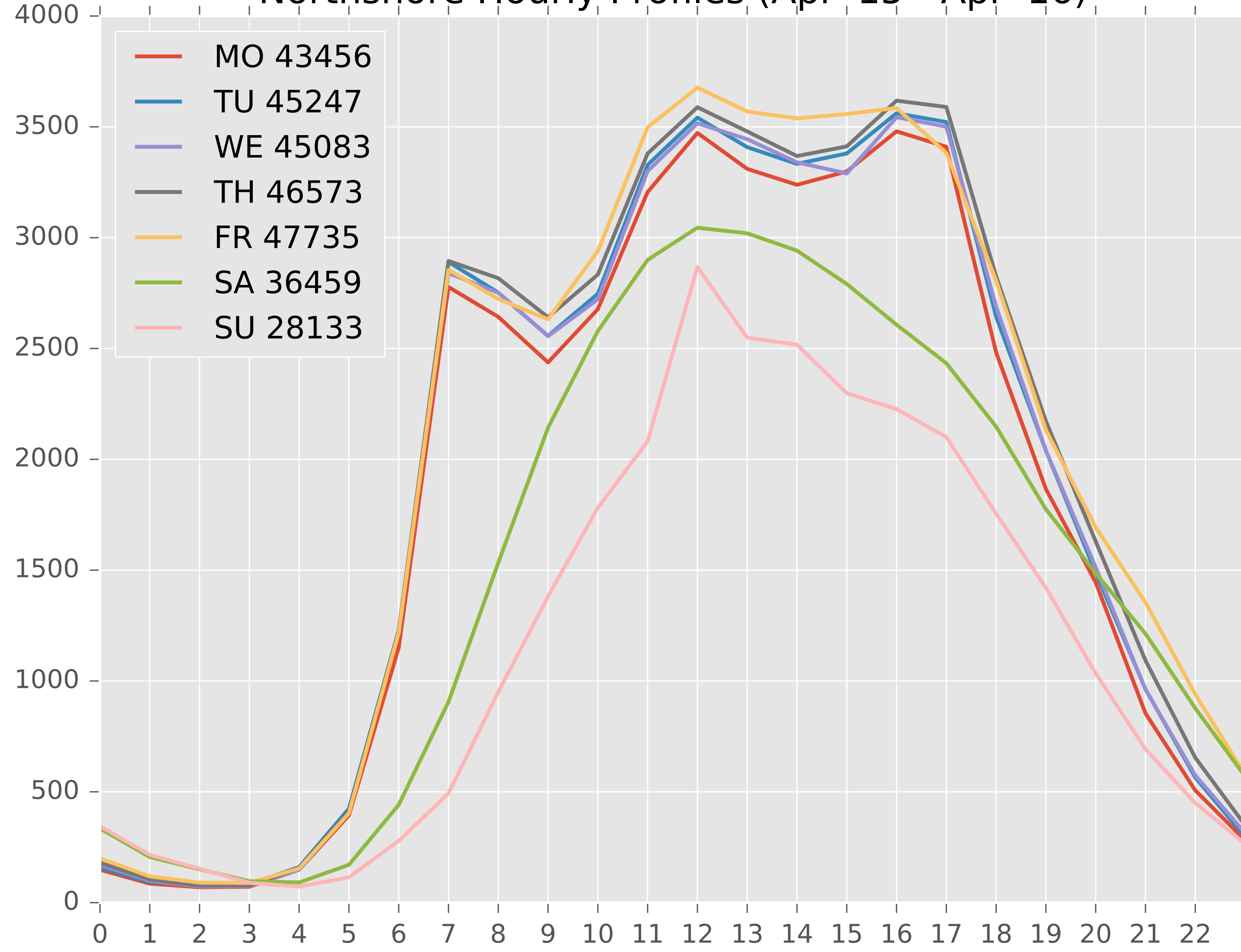
[Compass] [Street View] [Zoom In] [Zoom Out] [Layers] [Settings] [User Profile] [Scale]



Northshore Volumes Oct 2013 - Apr 2016

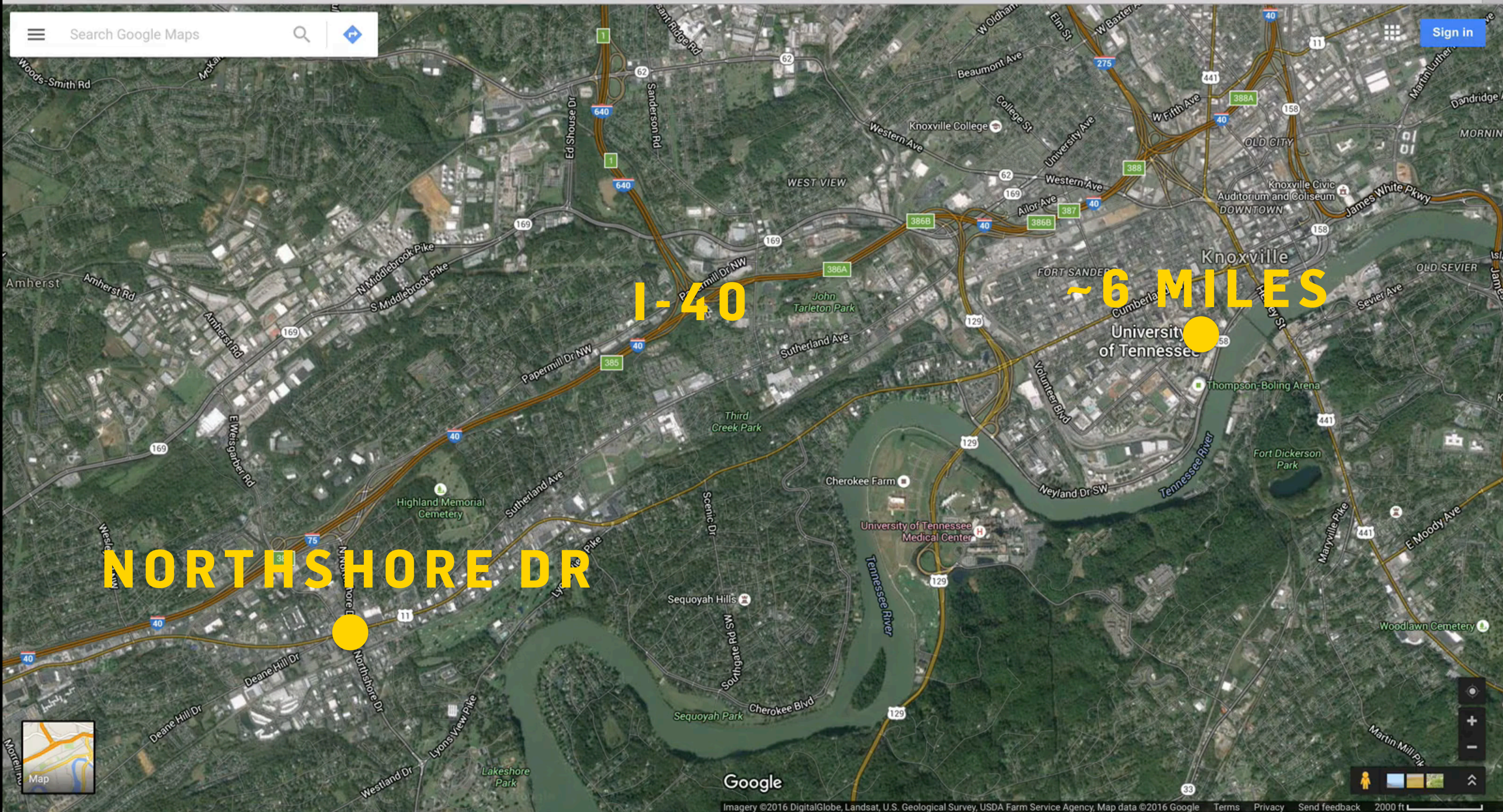


Northshore Hourly Profiles (Apr '15 - Apr '16)





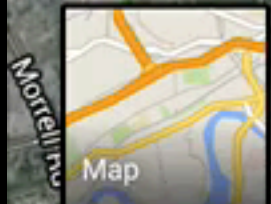
Search Google Maps



I-40

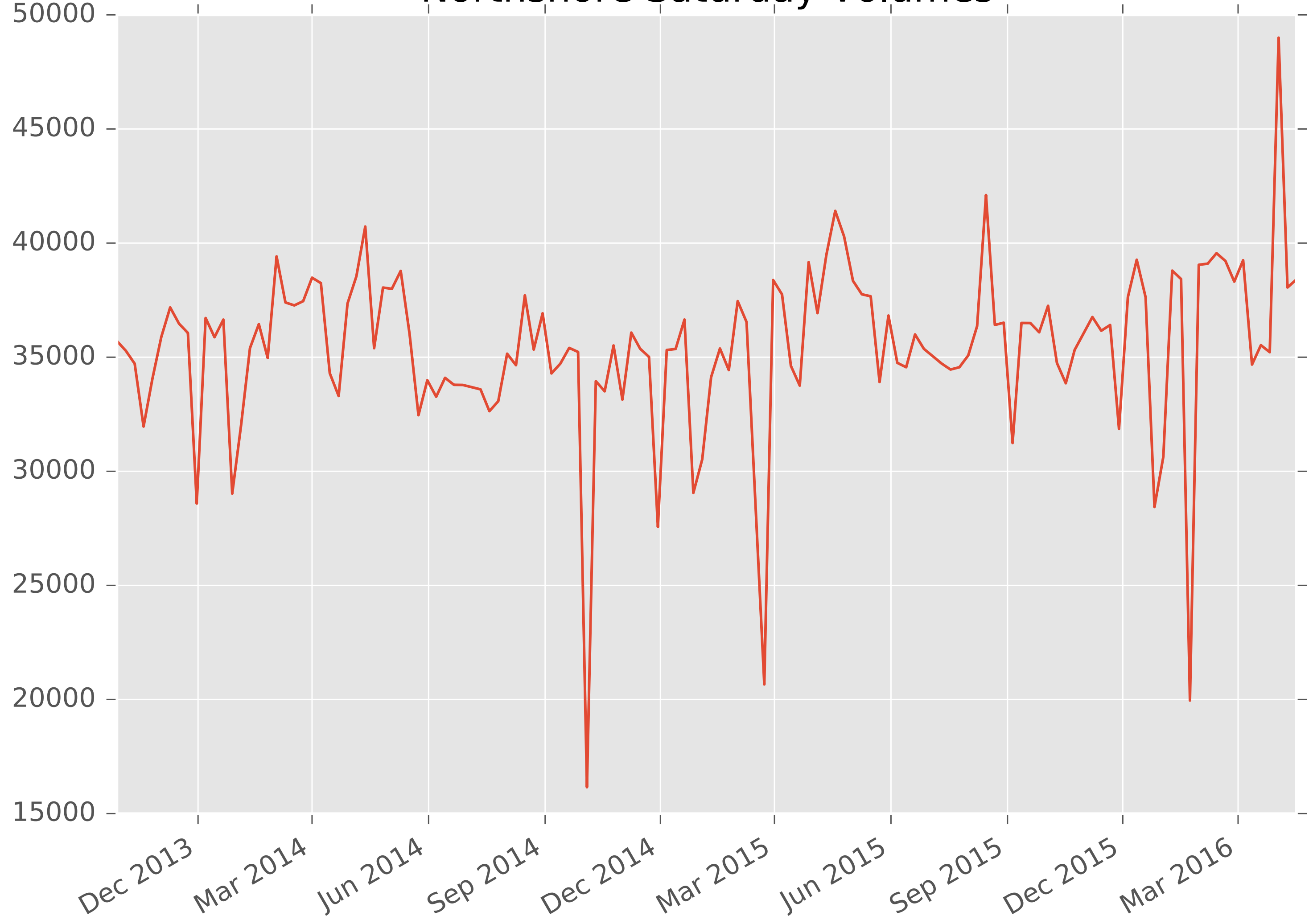
~ 6 MILES

NORTHSHORE DR

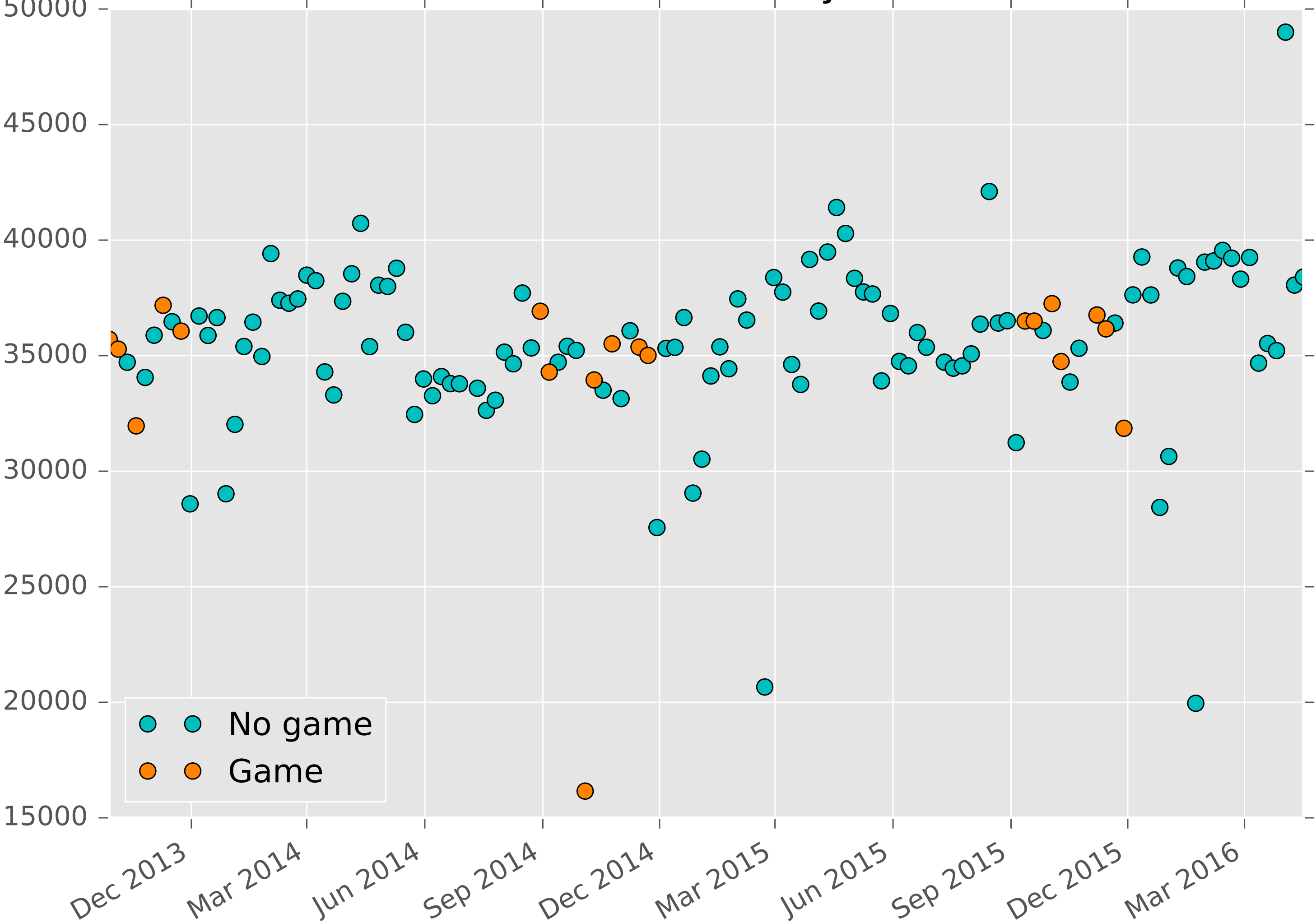


Google

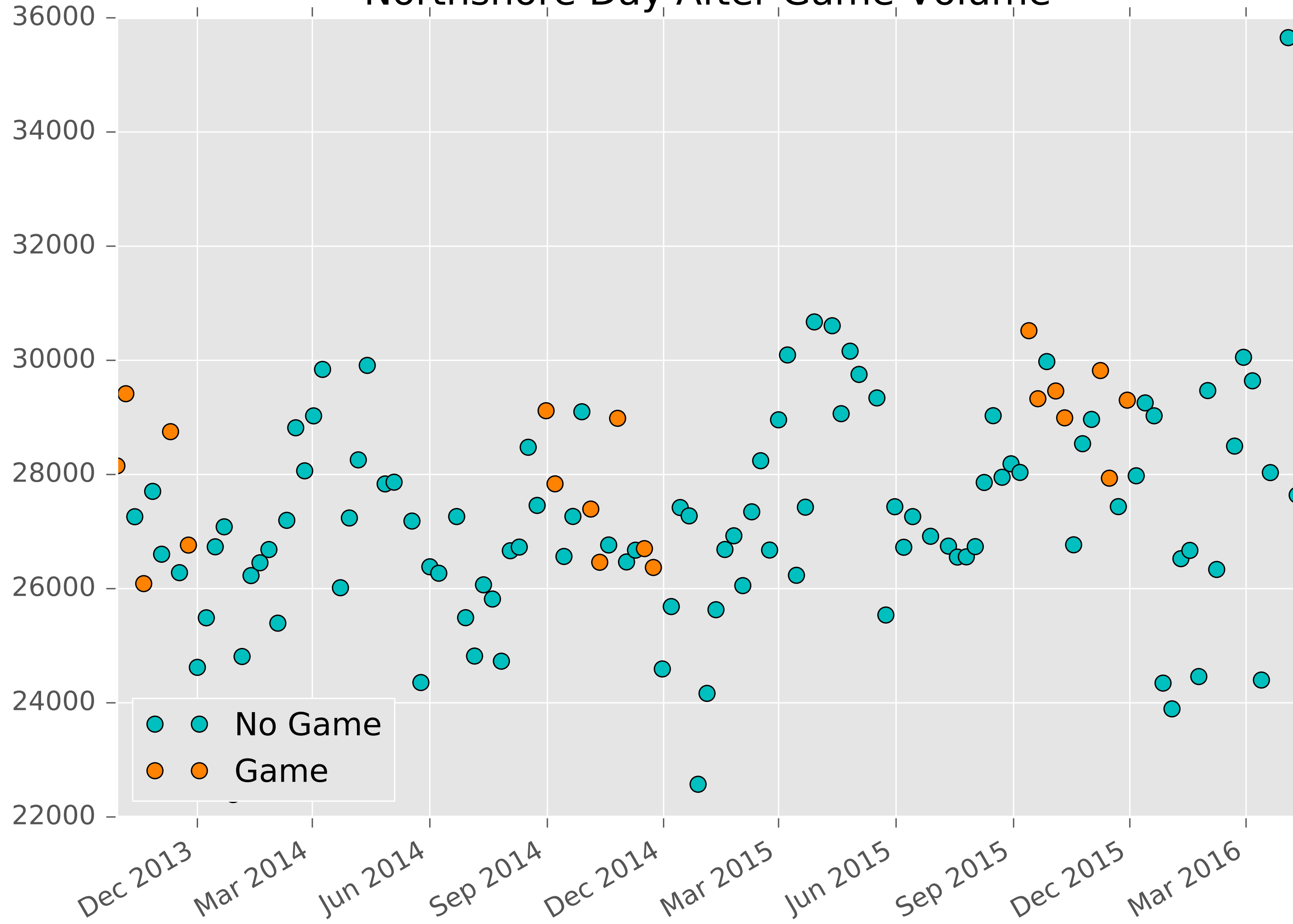
# Northshore Saturday Volumes



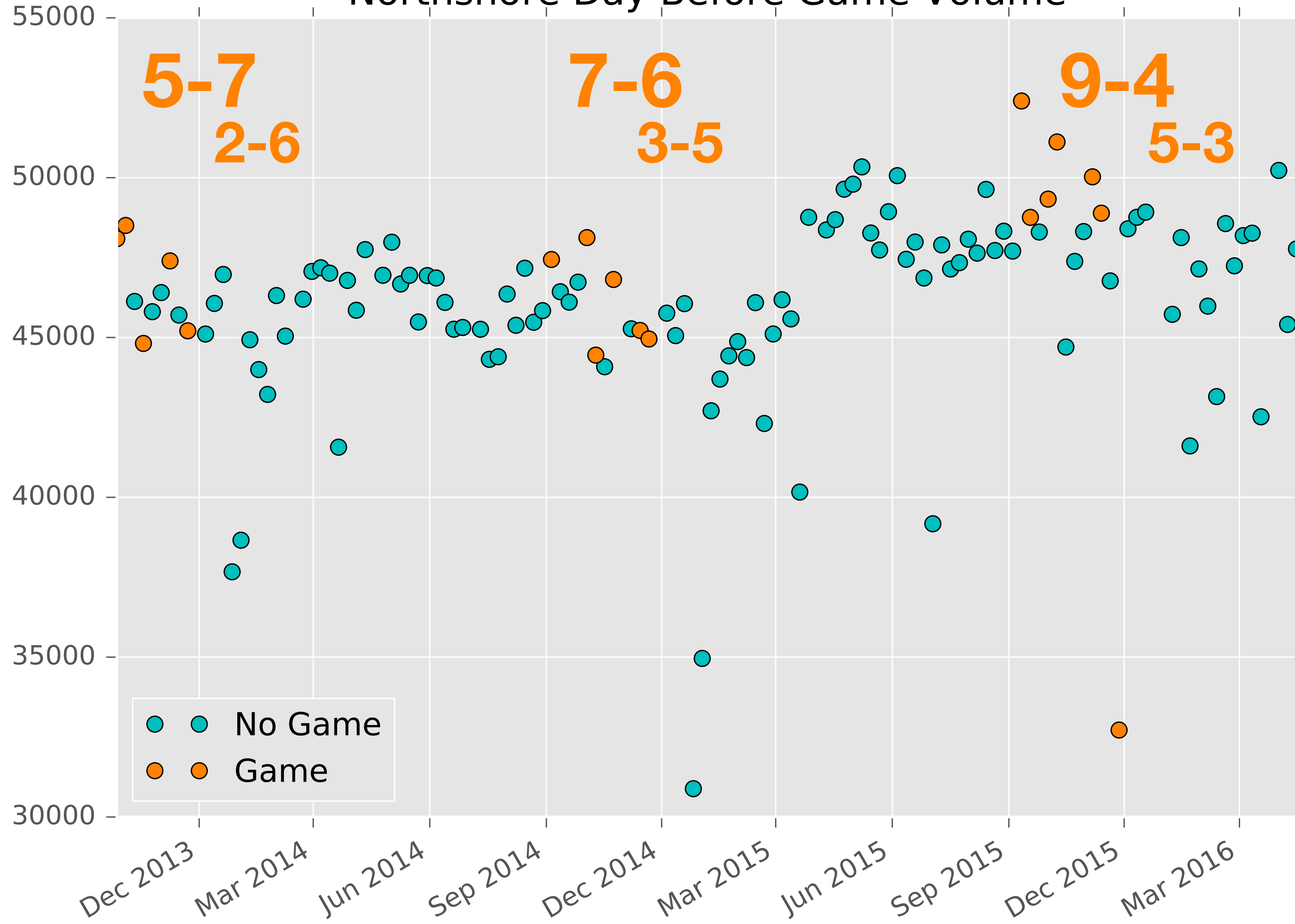
# Northshore Game Day Volume



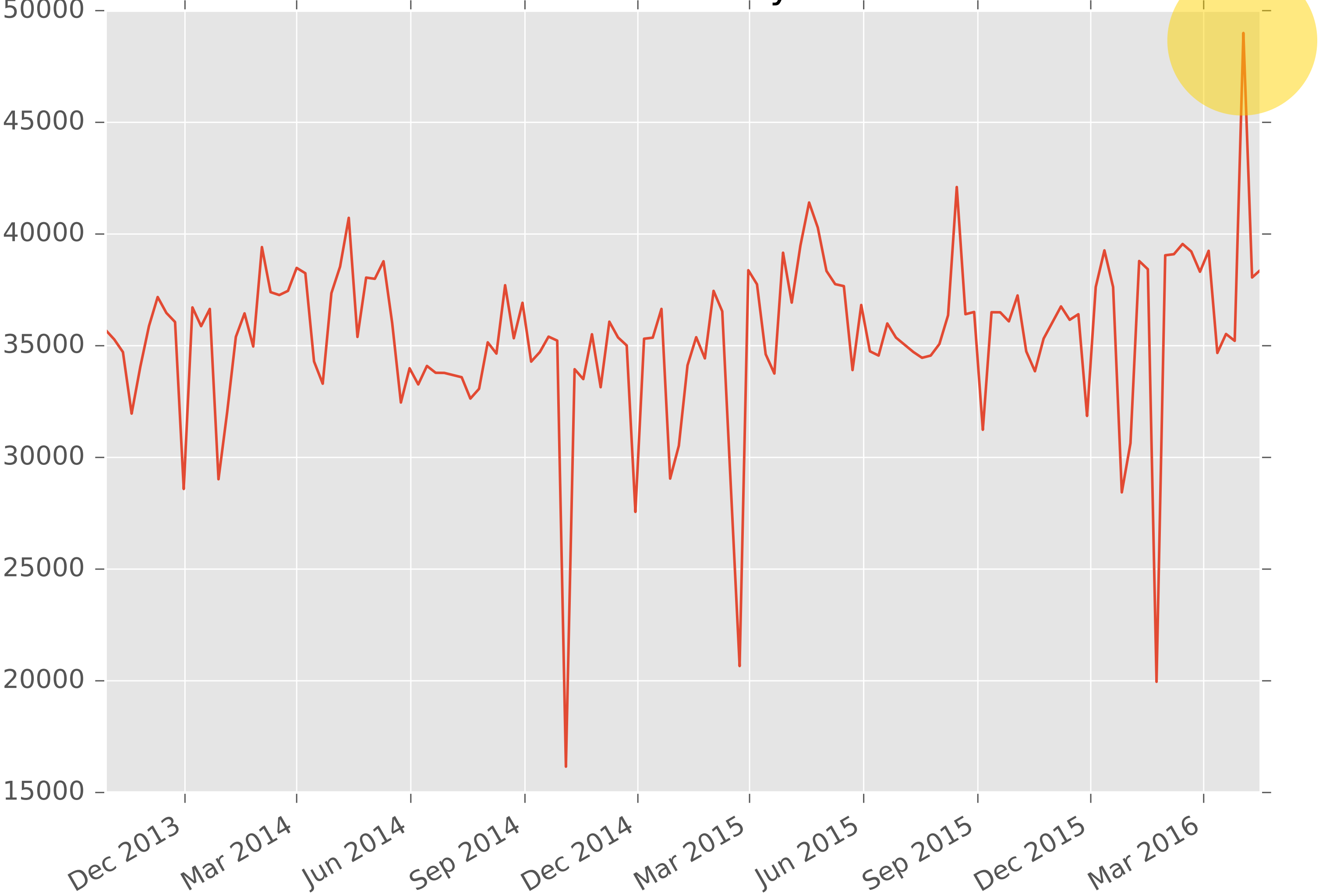
### Northshore Day After Game Volume



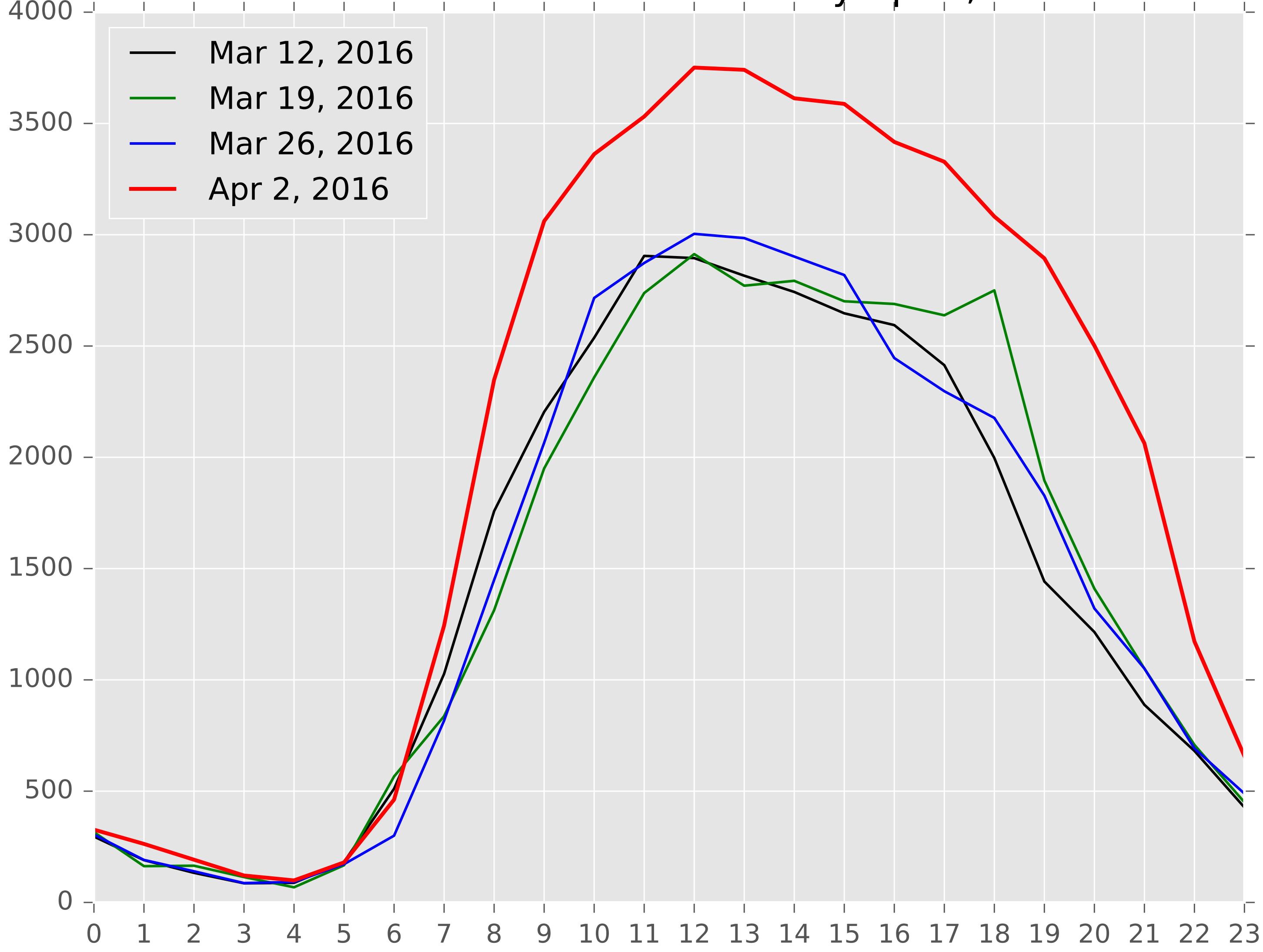
# Northshore Day Before Game Volume



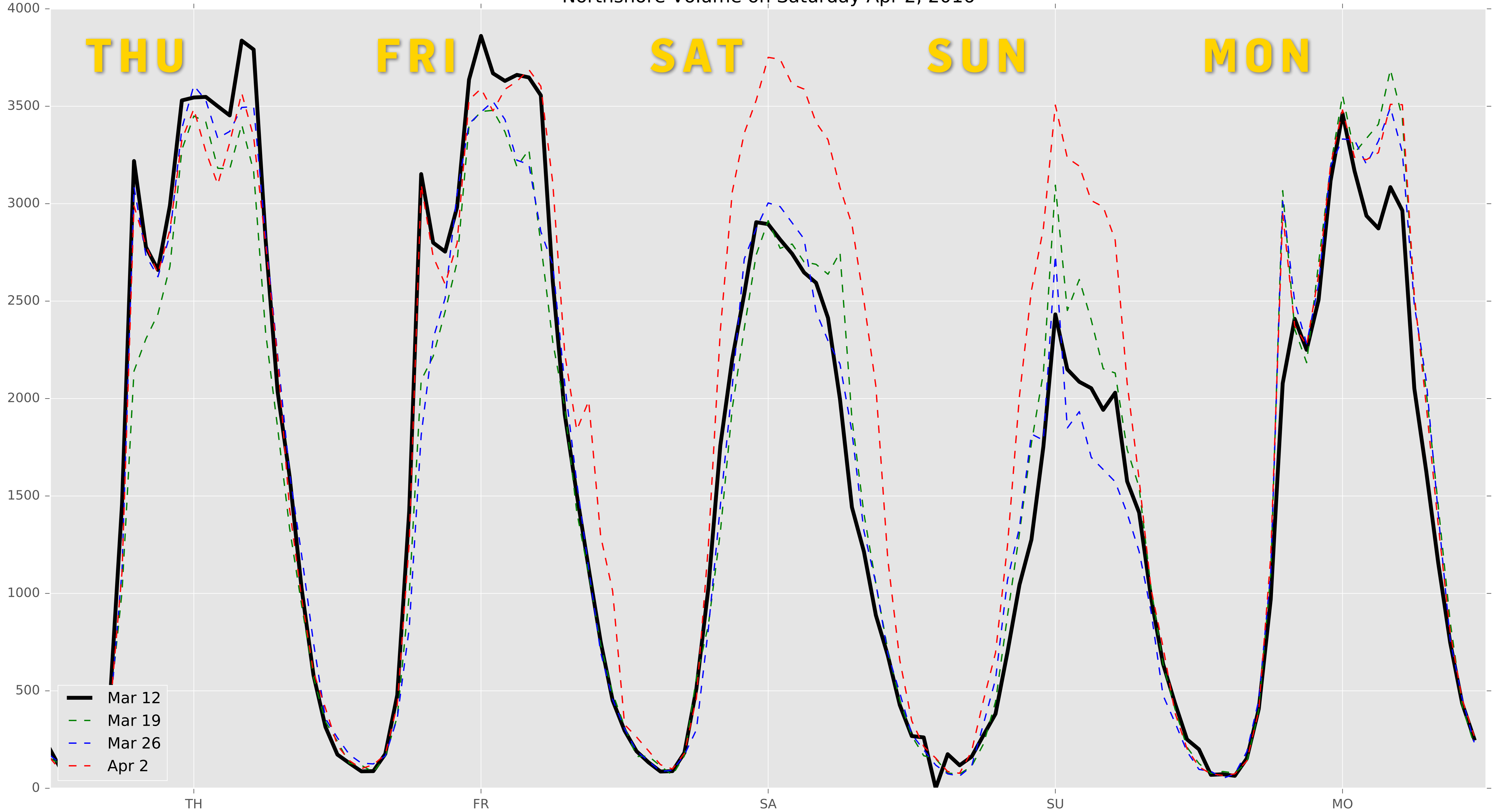
# Northshore Saturday Volumes



Northshore Volume on Saturday Apr 2, 2016

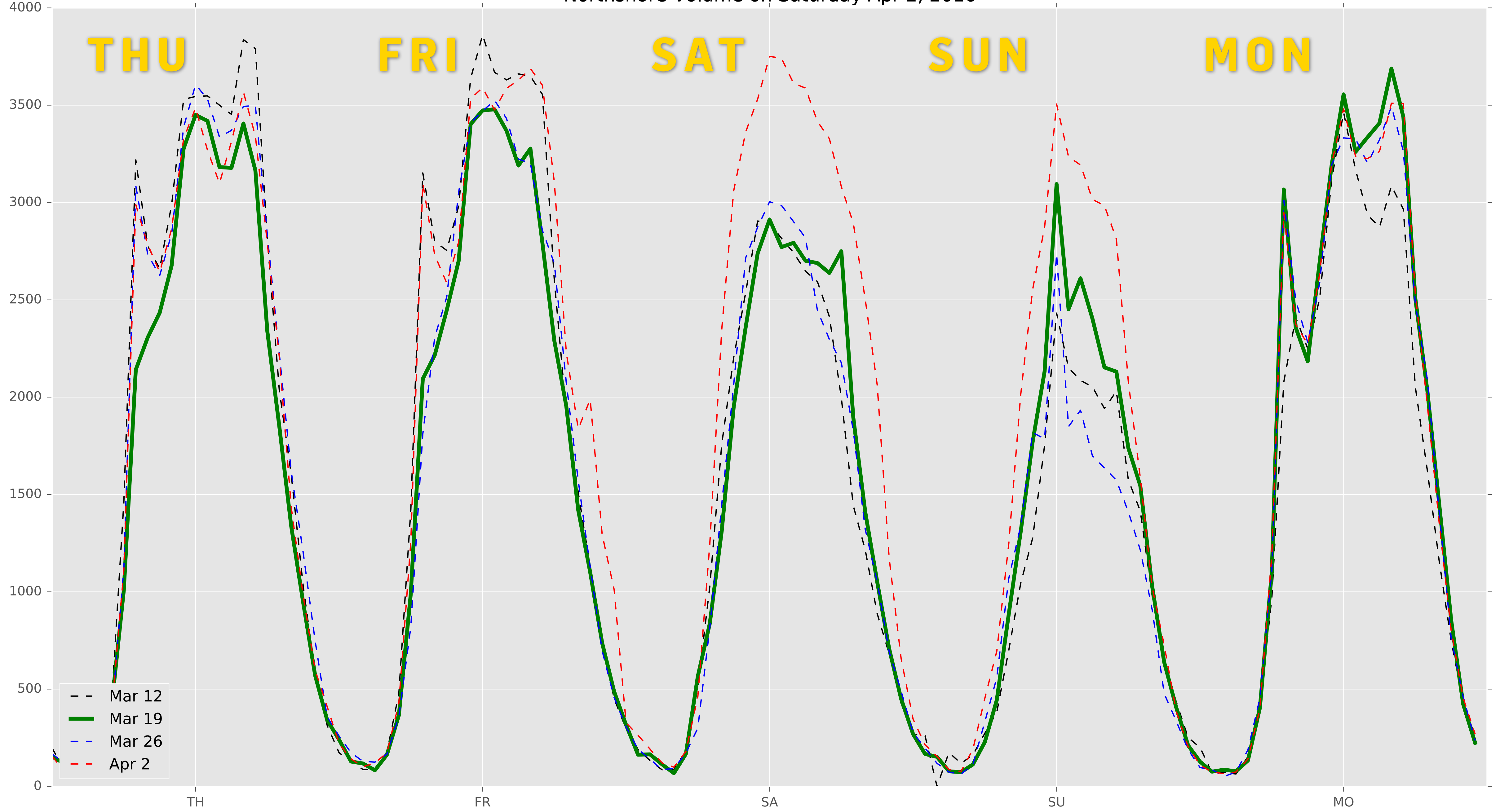


Northshore Volume on Saturday Apr 2, 2016





Northshore Volume on Saturday Apr 2, 2016



THU

FRI

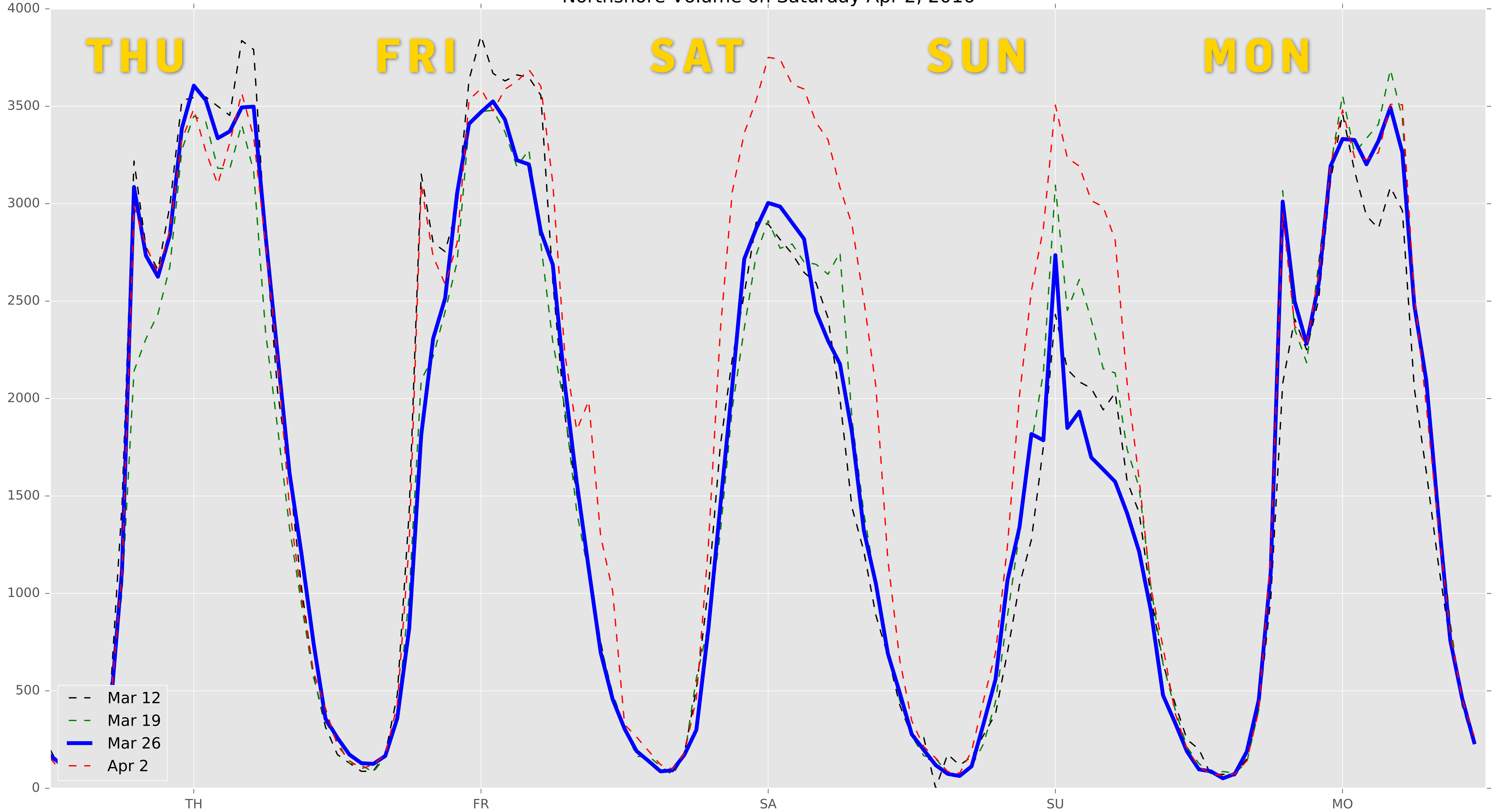
SAT

SUN

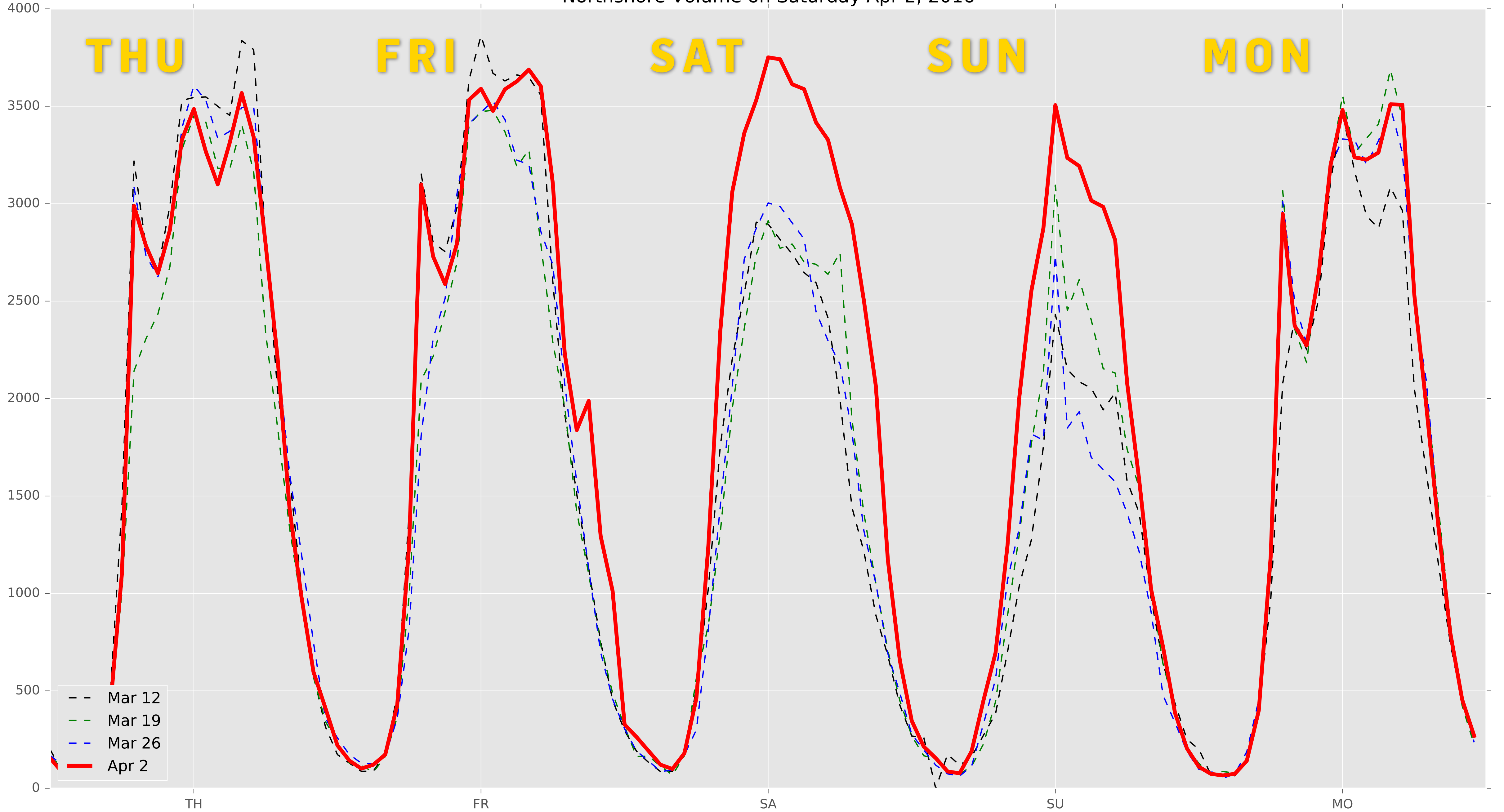
MON

- Mar 12
- Mar 19
- - Mar 26
- - Apr 2

Northshore Volume on Saturday Apr 2, 2016

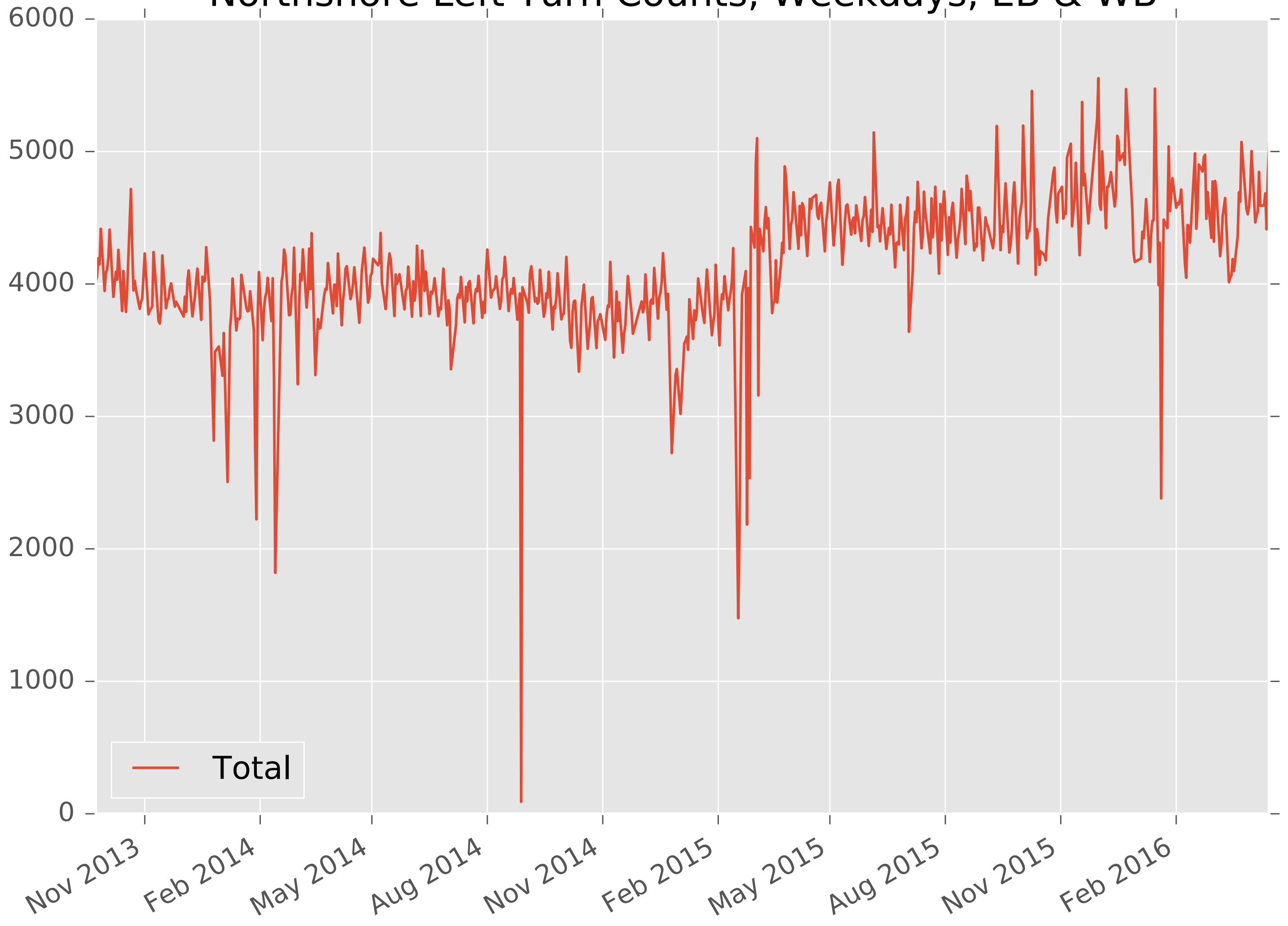


Northshore Volume on Saturday Apr 2, 2016

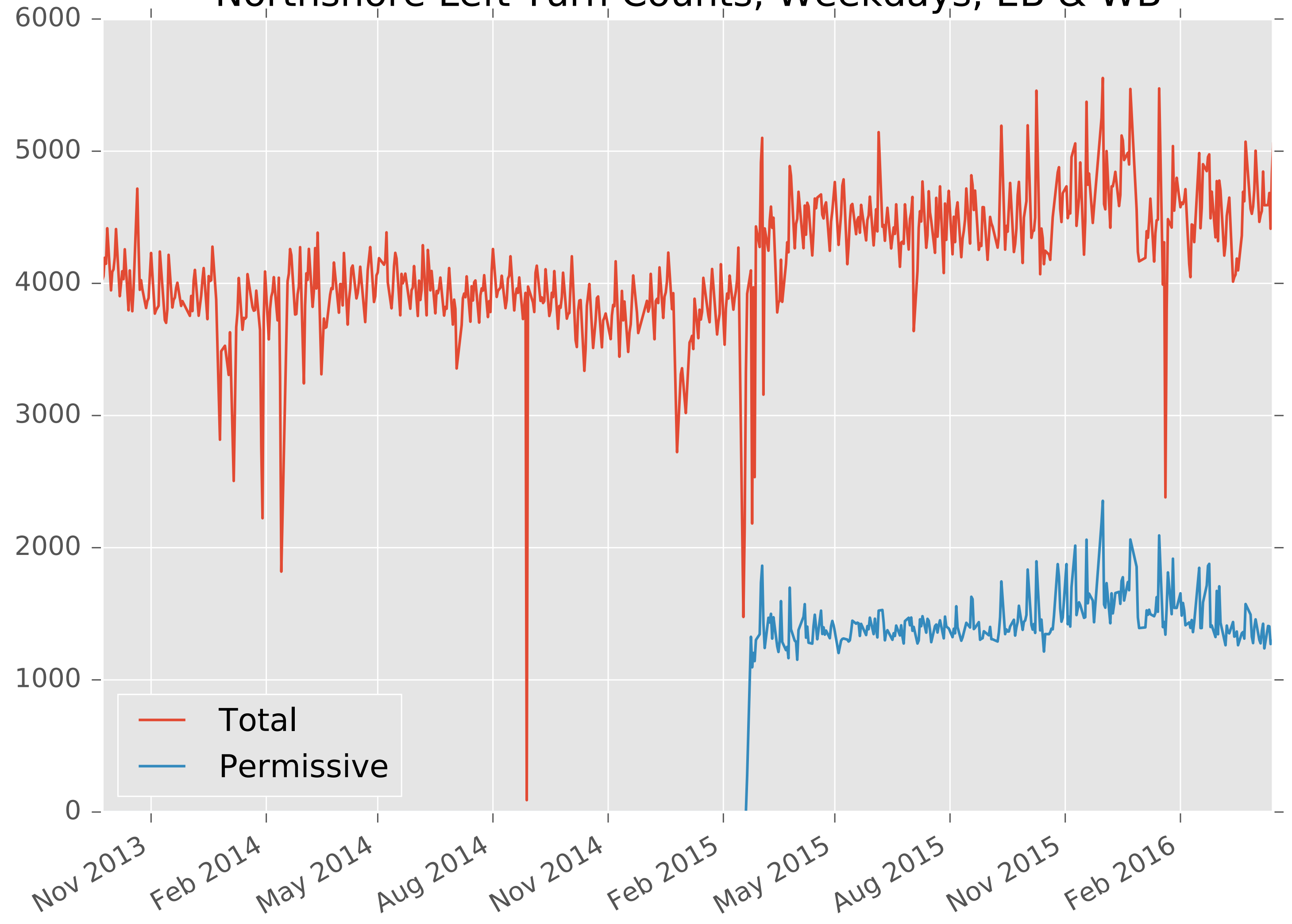




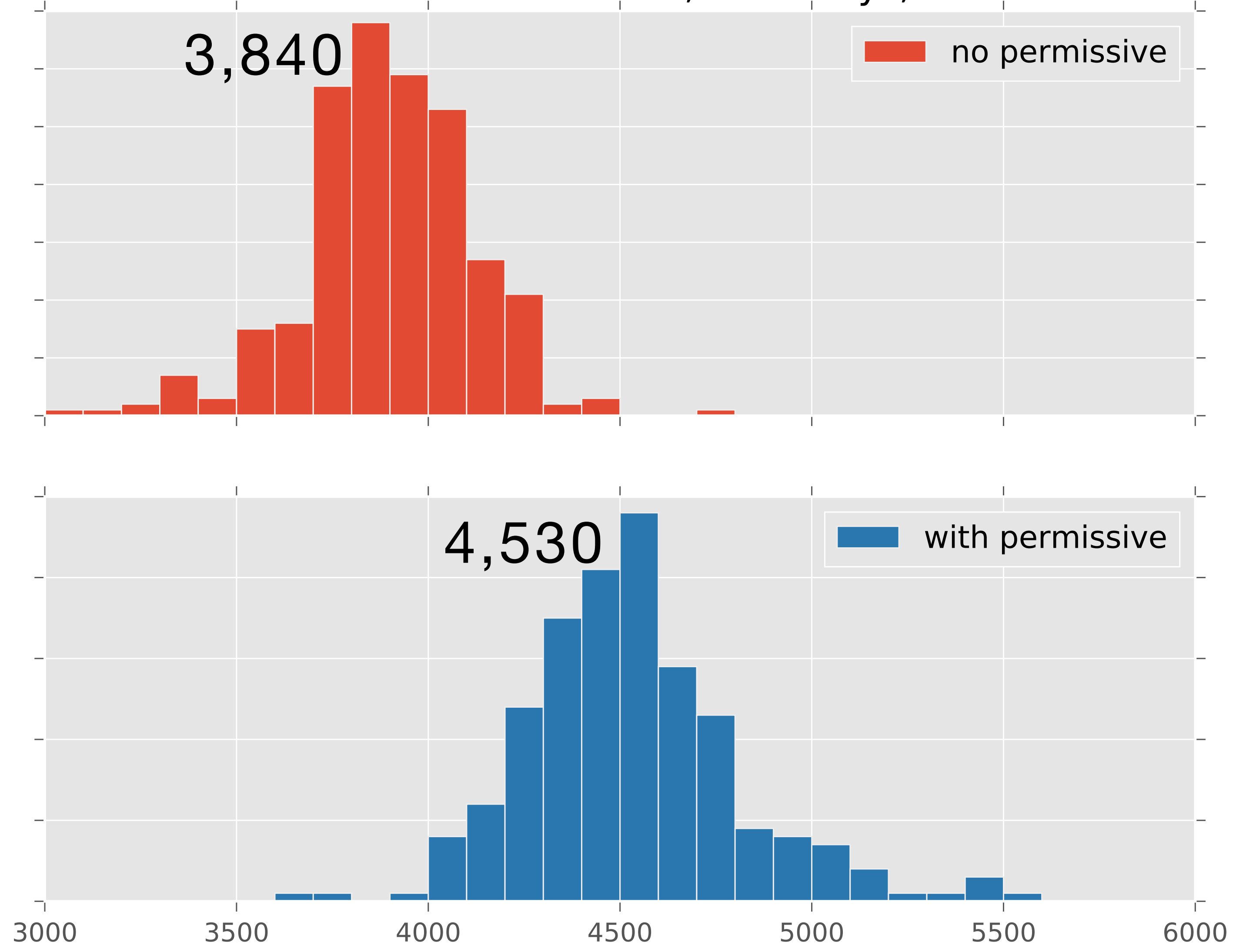
Northshore Left Turn Counts, Weekdays, EB & WB



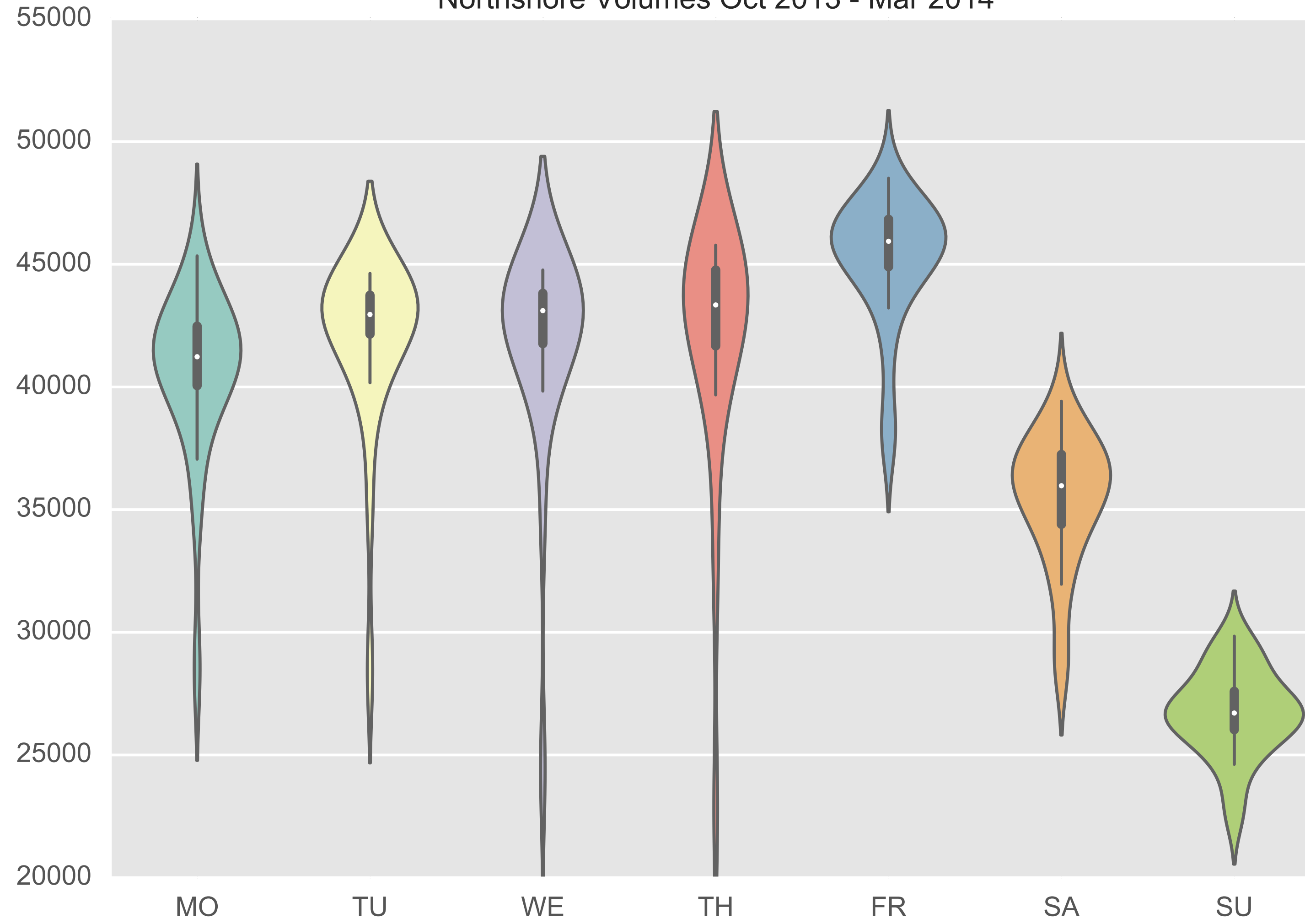
# Northshore Left Turn Counts, Weekdays, EB & WB



Northshore Left Turn Counts, Weekdays, EB & WB

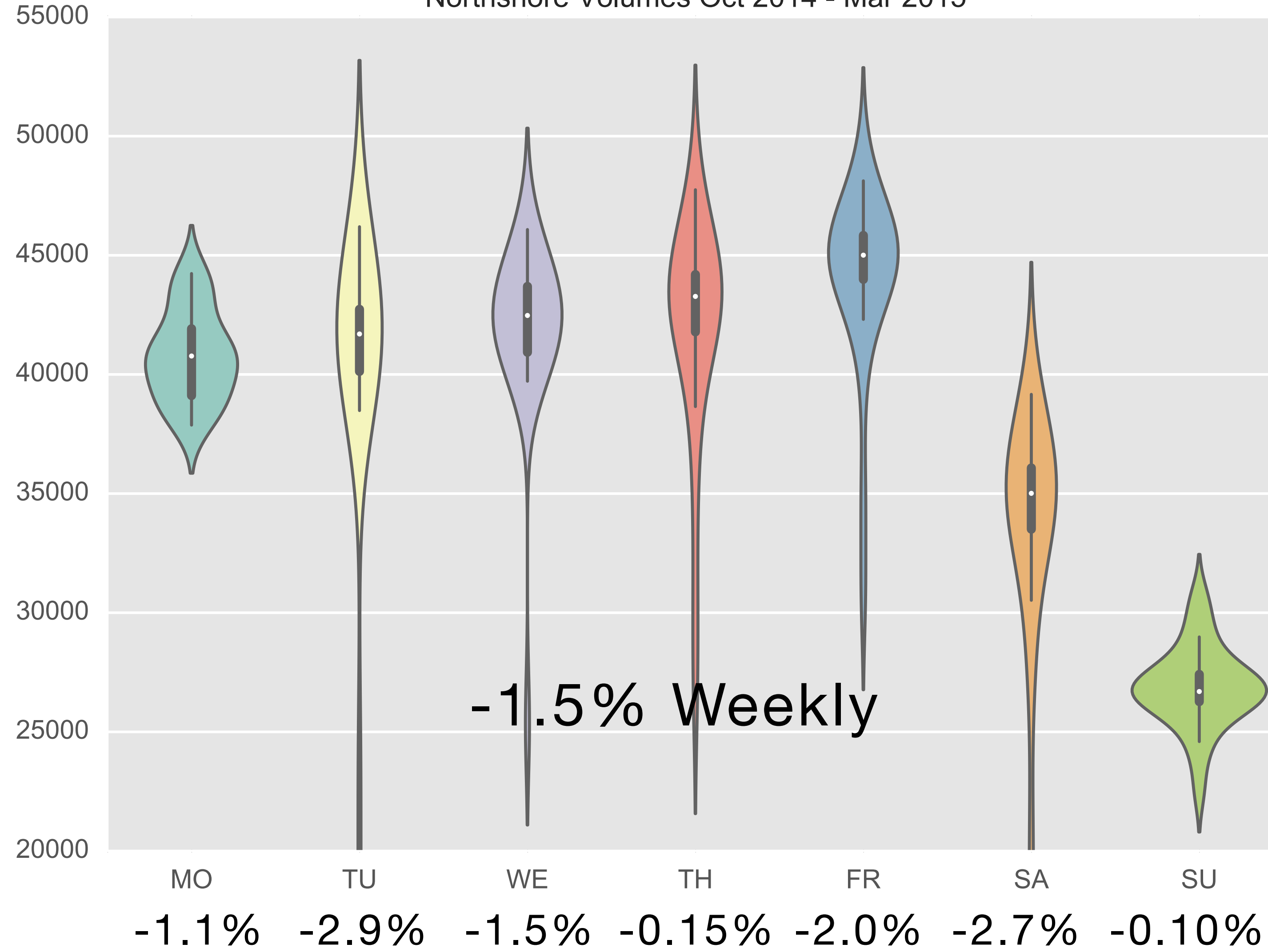


Northshore Volumes Oct 2013 - Mar 2014



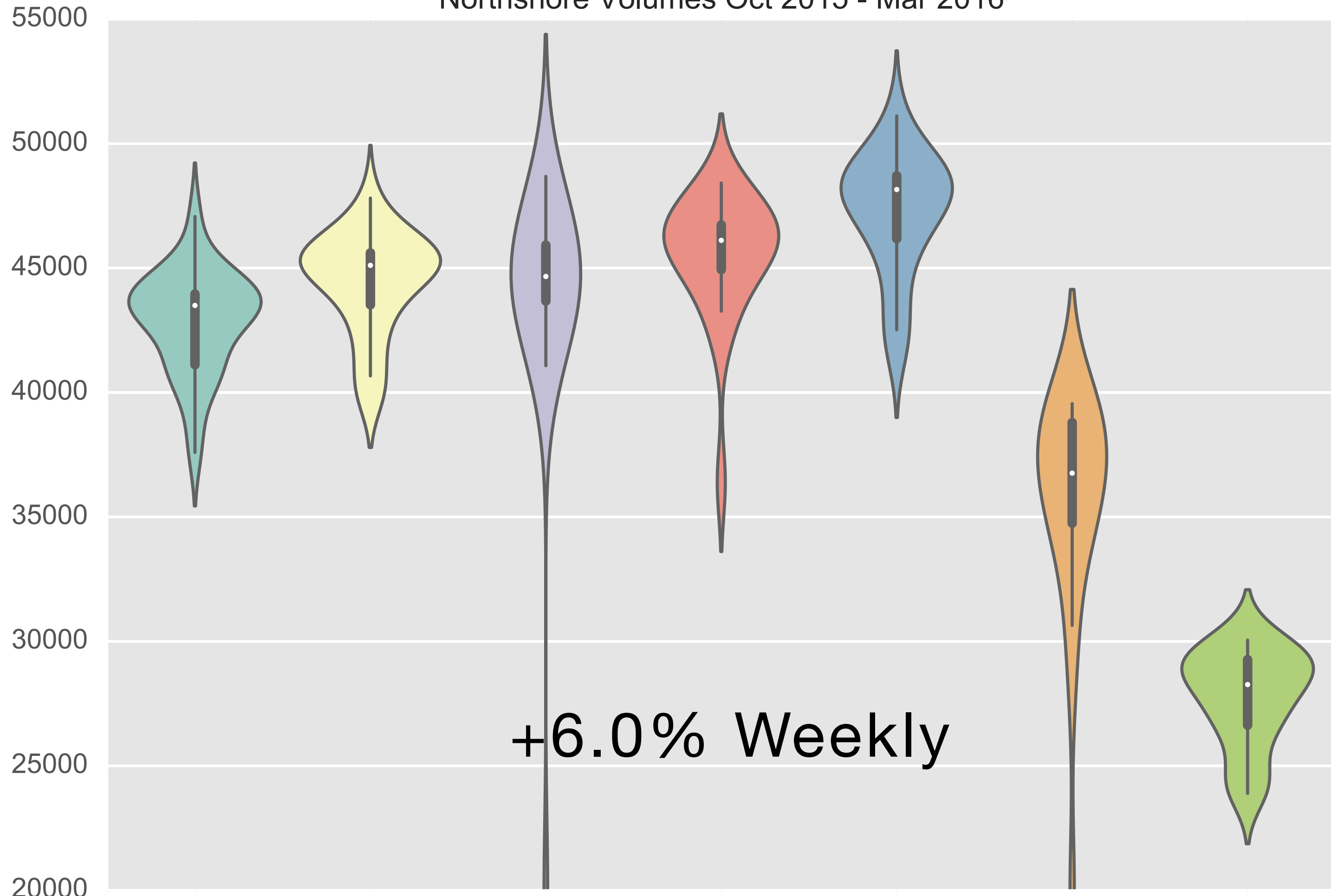


Northshore Volumes Oct 2014 - Mar 2015



**-1.5% Weekly**

Northshore Volumes Oct 2015 - Mar 2016



**+6.0% Weekly**

MO +6.7% TU +8.2% WE +5.1% TH +6.6% FR +7.0% SA +5.0% SU +5.9%

I-40

# KINGSTON PK @ MORRELL RD

Walgreens

Taco Bell

Brixx Wood Fired Pizza

Doc's All American Grill

Copper Cellar West

Texas Roadhouse

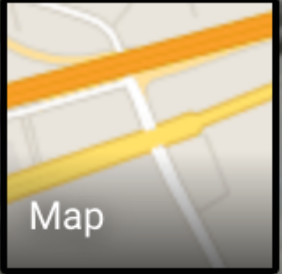
Old Navy

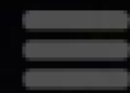
Sprint Store

buybuy BABY

## MALL

Belk





SW Camera

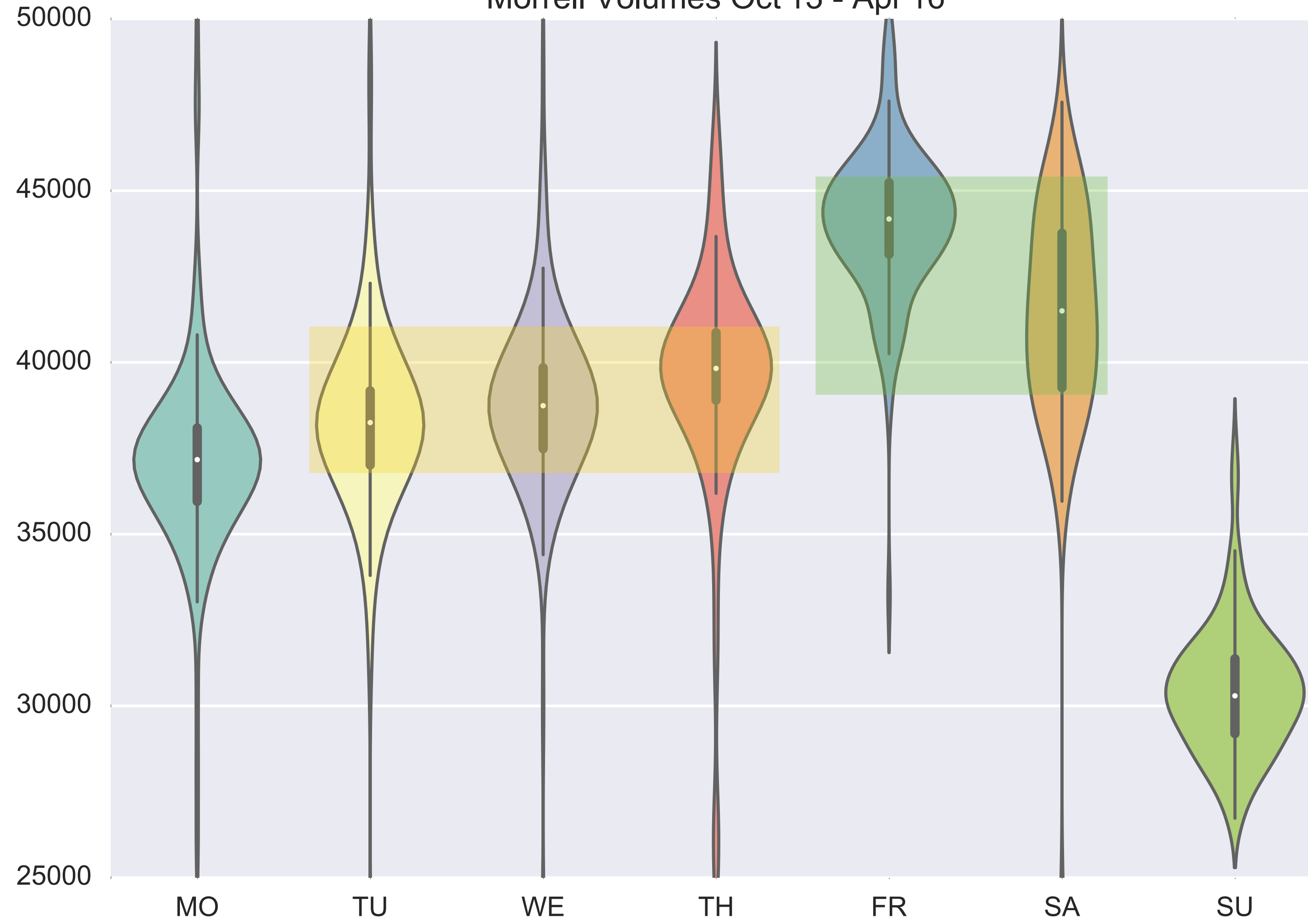
NE Camera ✓



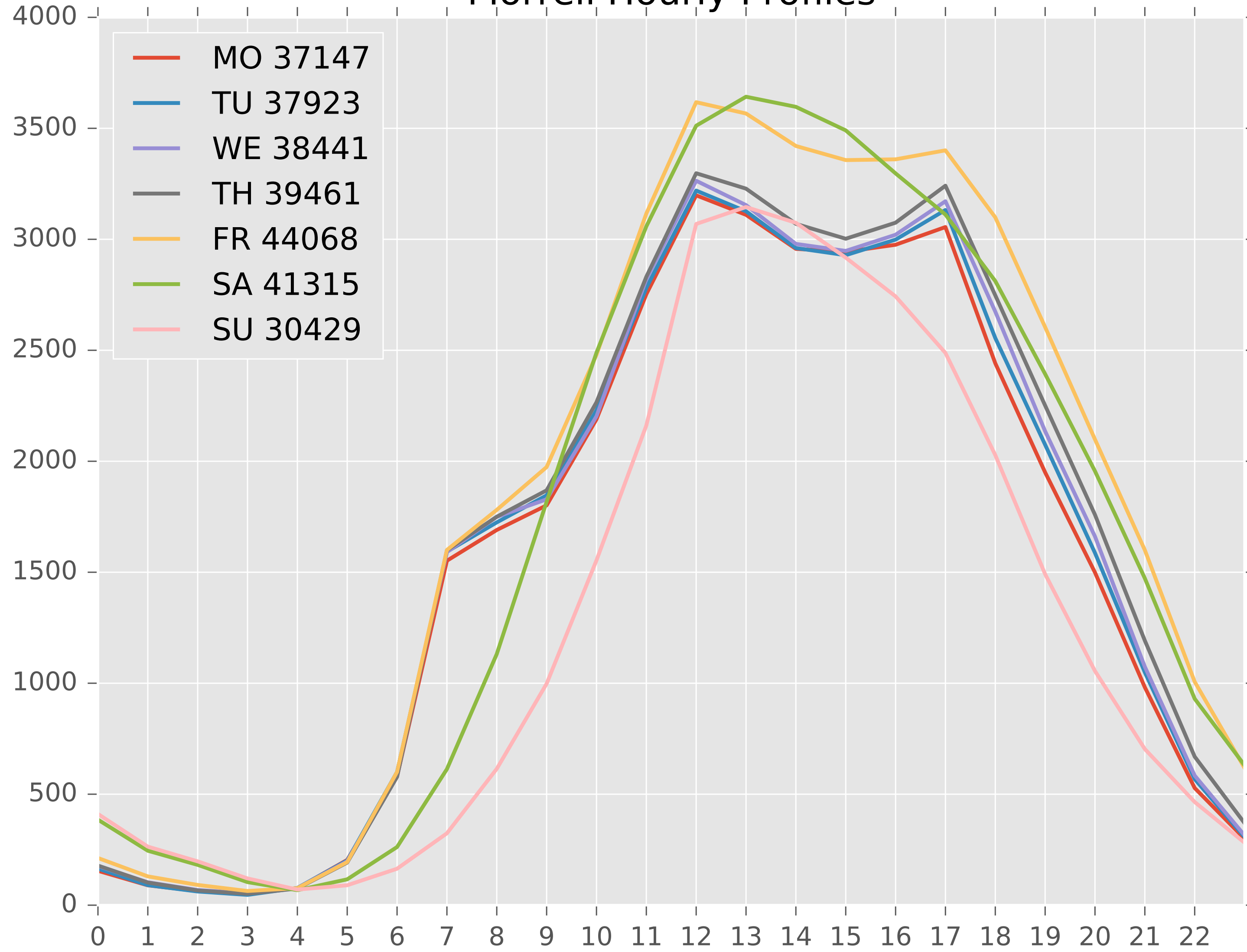
1 2  
3 4



Morrell Volumes Oct'13 - Apr'16



### Morrell Hourly Profiles

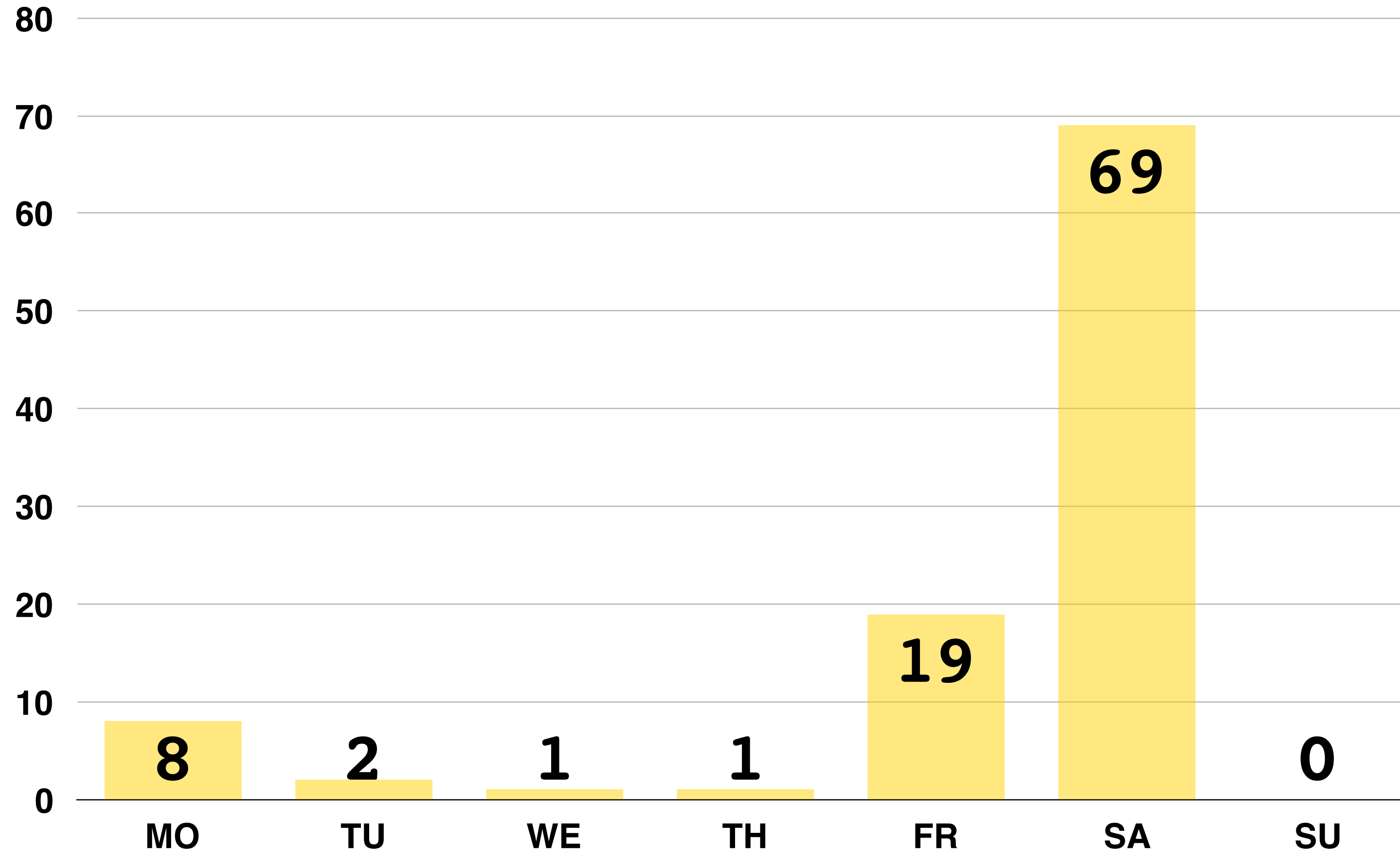


	<b>total</b>	<b>day</b>

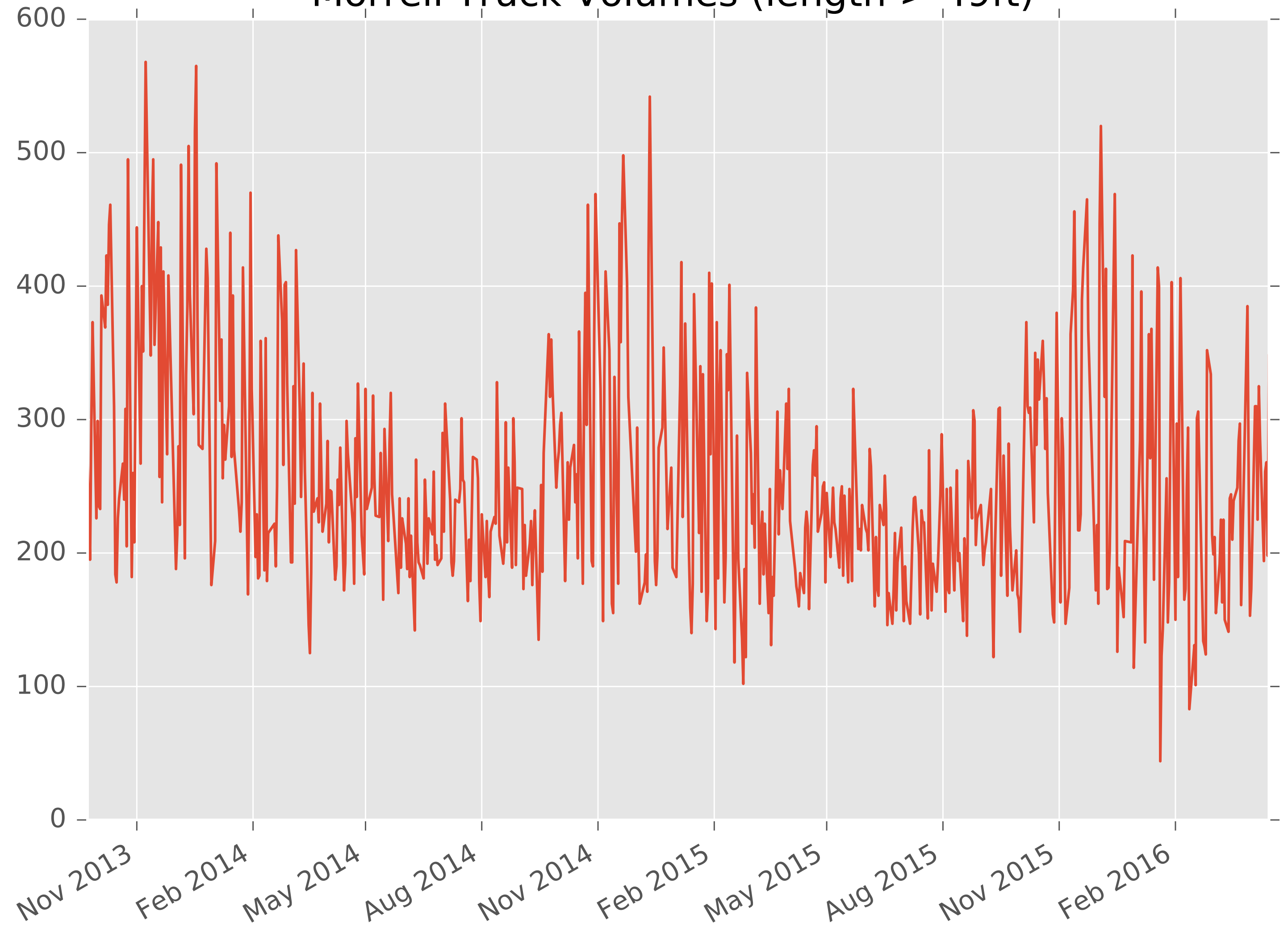
	<b>total</b>	<b>day</b>



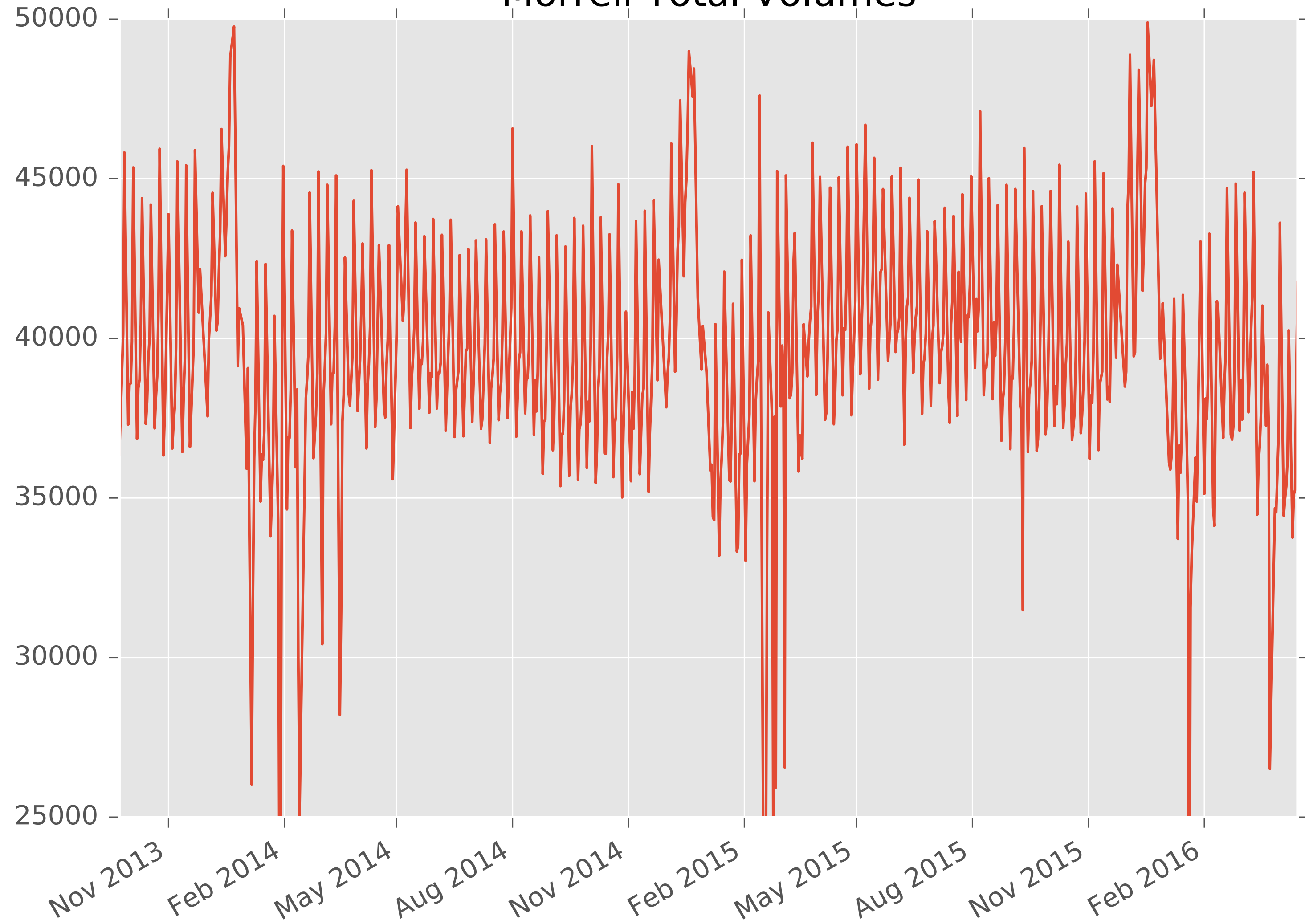
*Between Sep 2013 and Apr 2016 (877 days), 88 of the 100 top peak hours were on Friday or Saturday*



Morrell Truck Volumes (length > 49ft)



# Morrell Total Volumes



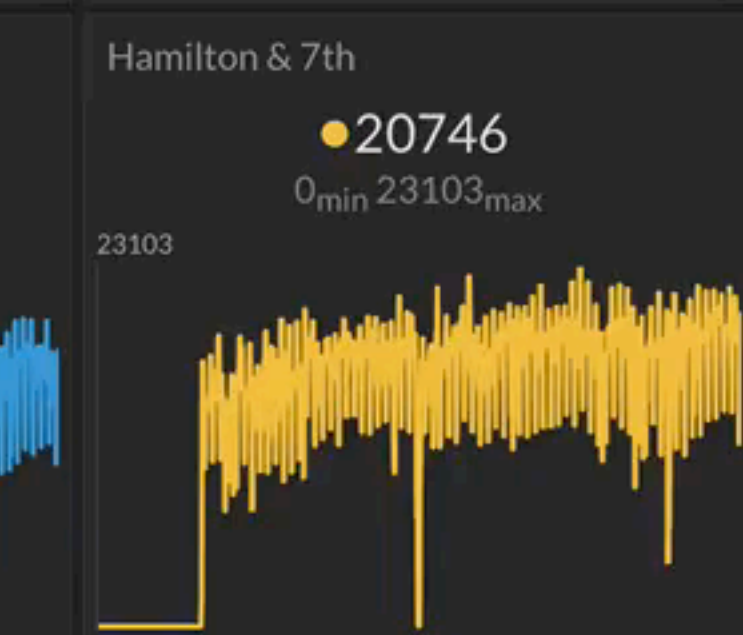
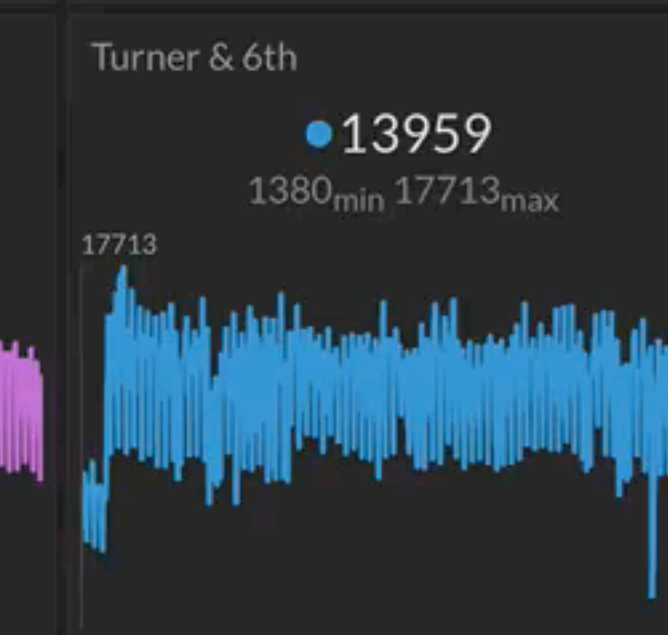
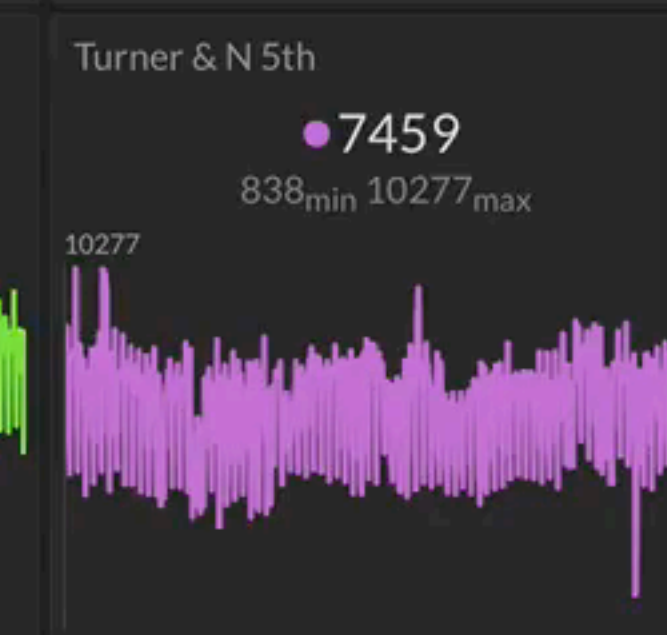
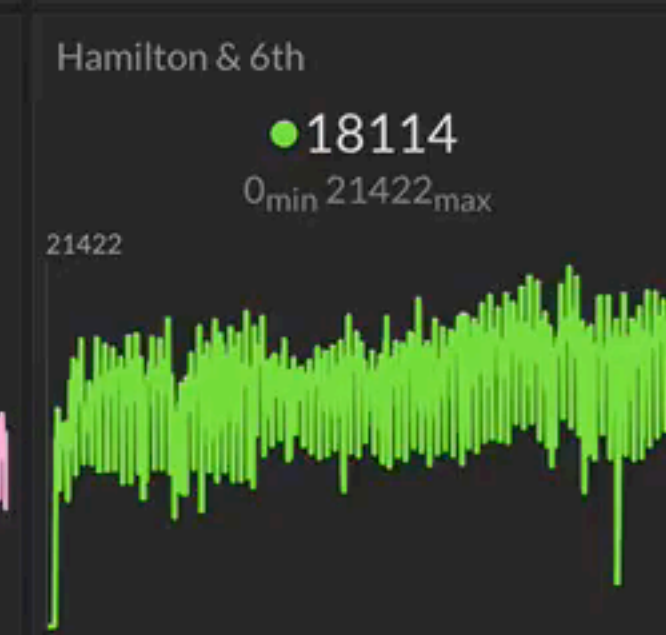
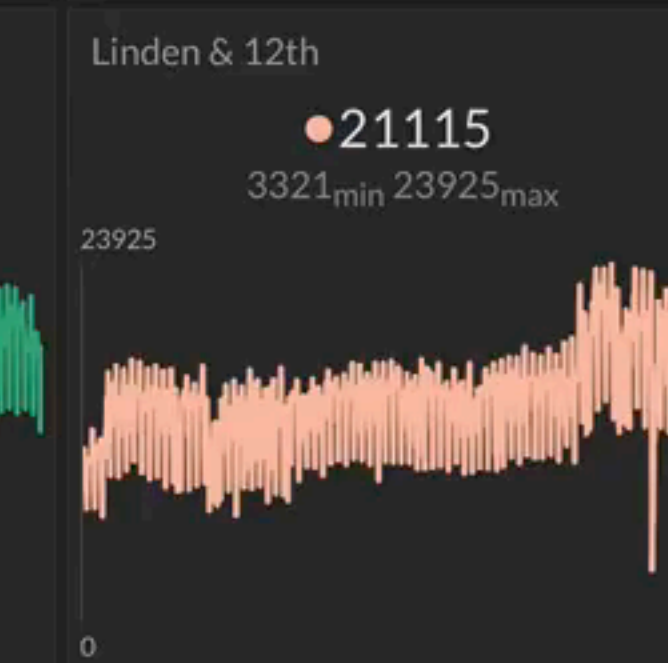
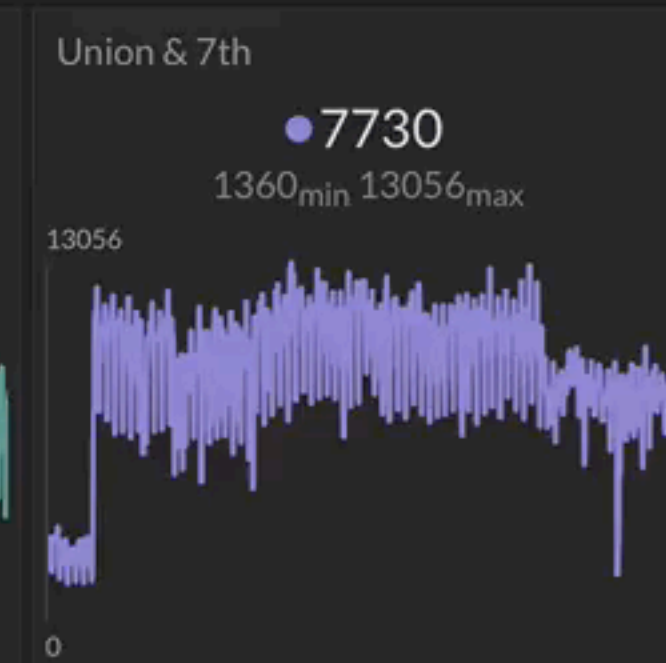
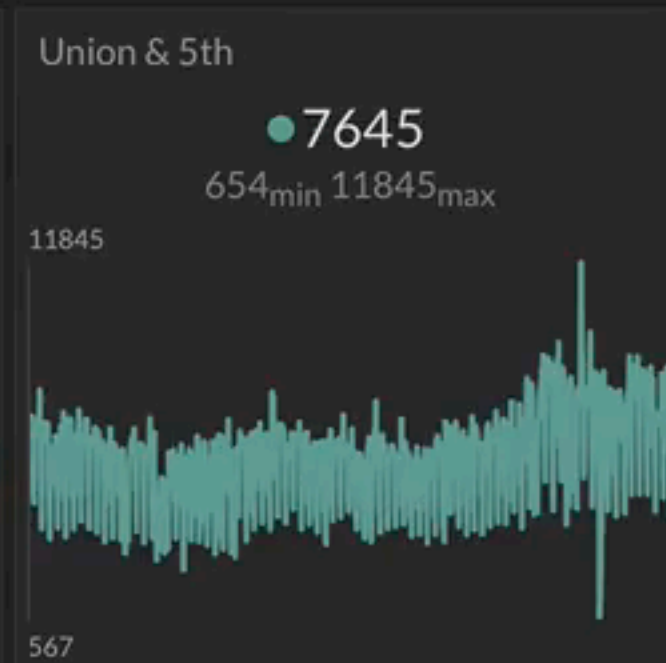
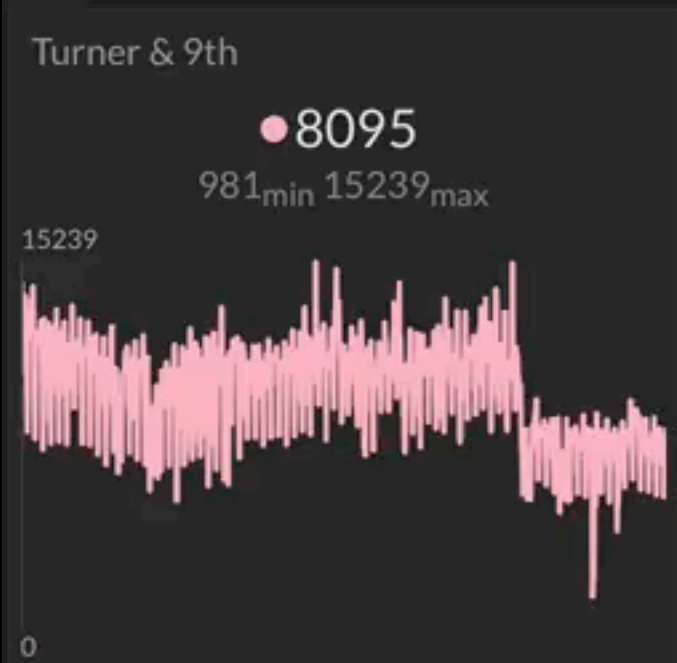
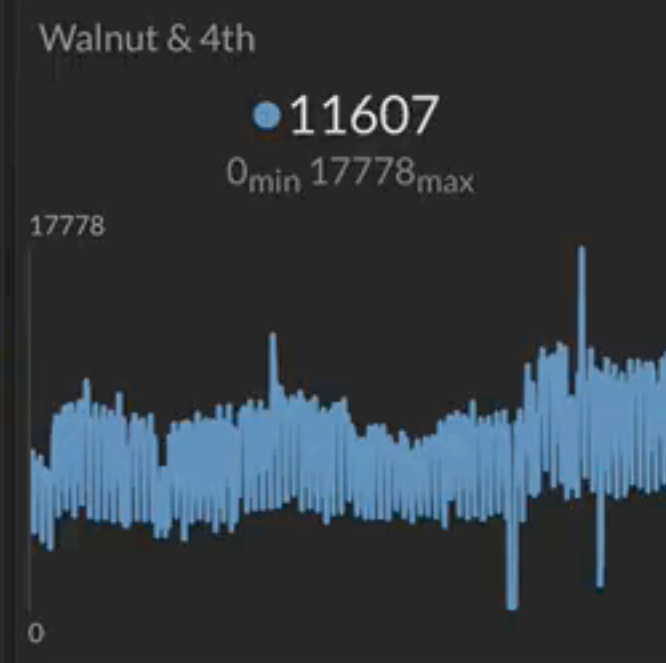
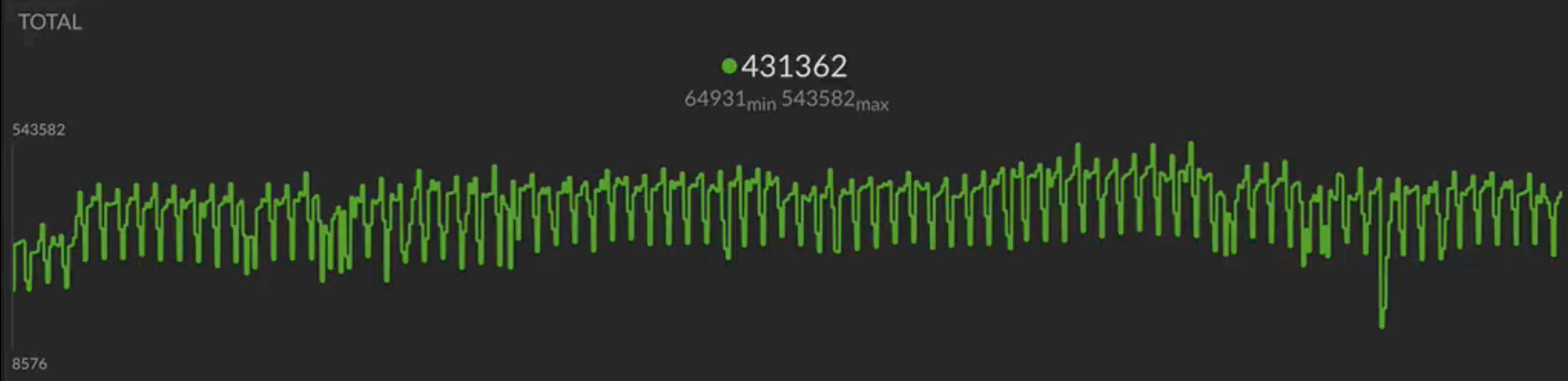
The screenshot displays the GRIDSMART Cloud interface. At the top, there is a yellow navigation bar with the text "GRIDSMART. Cloud" and menu items for "Sites", "Admin", and "Support". A user profile icon is located in the top right corner. Below the navigation bar is a search bar with a magnifying glass icon. The main area is a map of North America, including parts of Canada and the United States, with numerous black location pins placed across the continent. An inset image of the PPL Center building is overlaid on the map. The building is a modern, multi-story structure with a glass facade and a prominent "ppl center" sign. The map interface includes standard navigation controls like a plus sign for zooming in and a hand icon for panning.



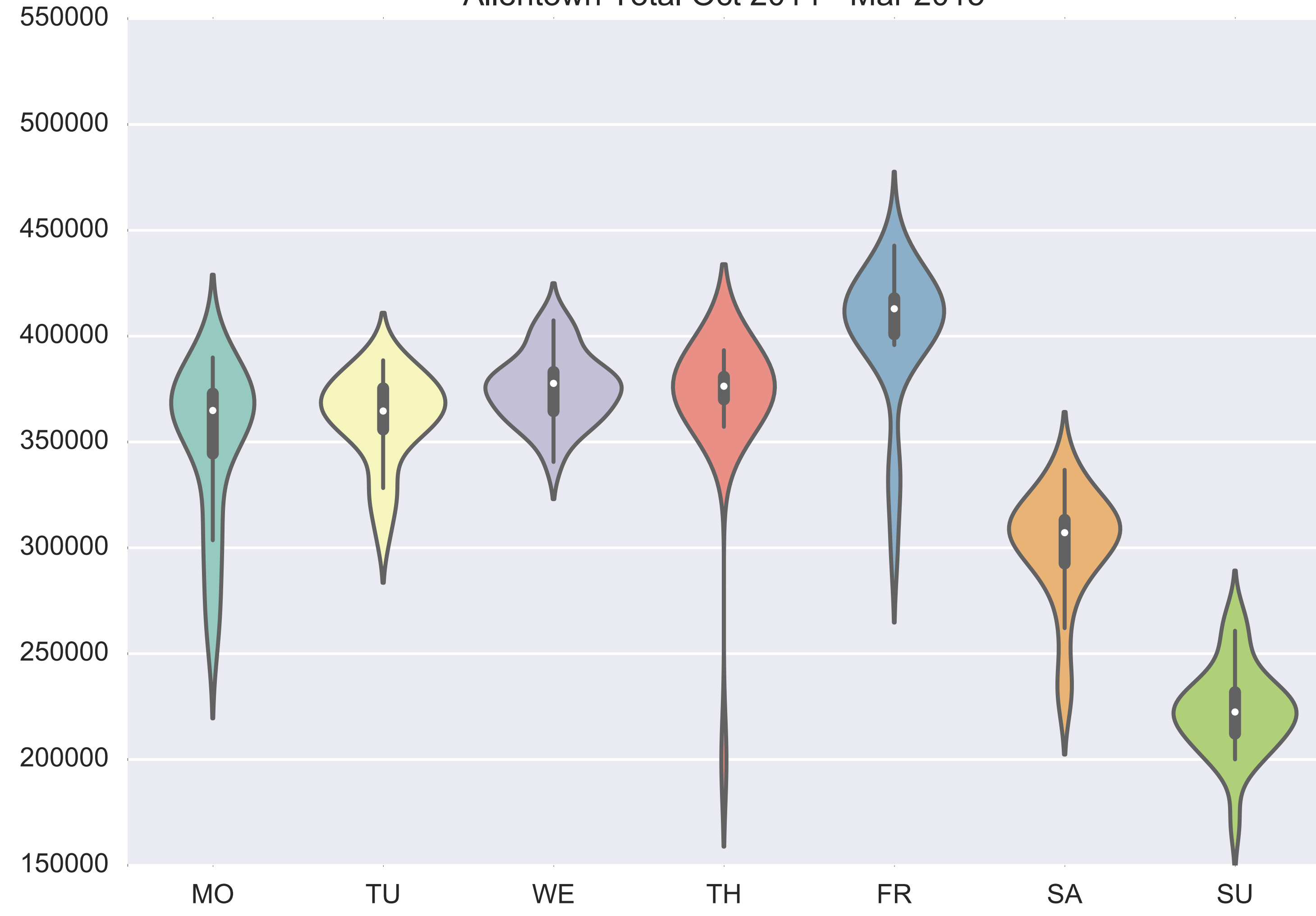
Edit Tiles

09/01/2014 12:00 AM : 03/31/2016 12:00 AM Compare

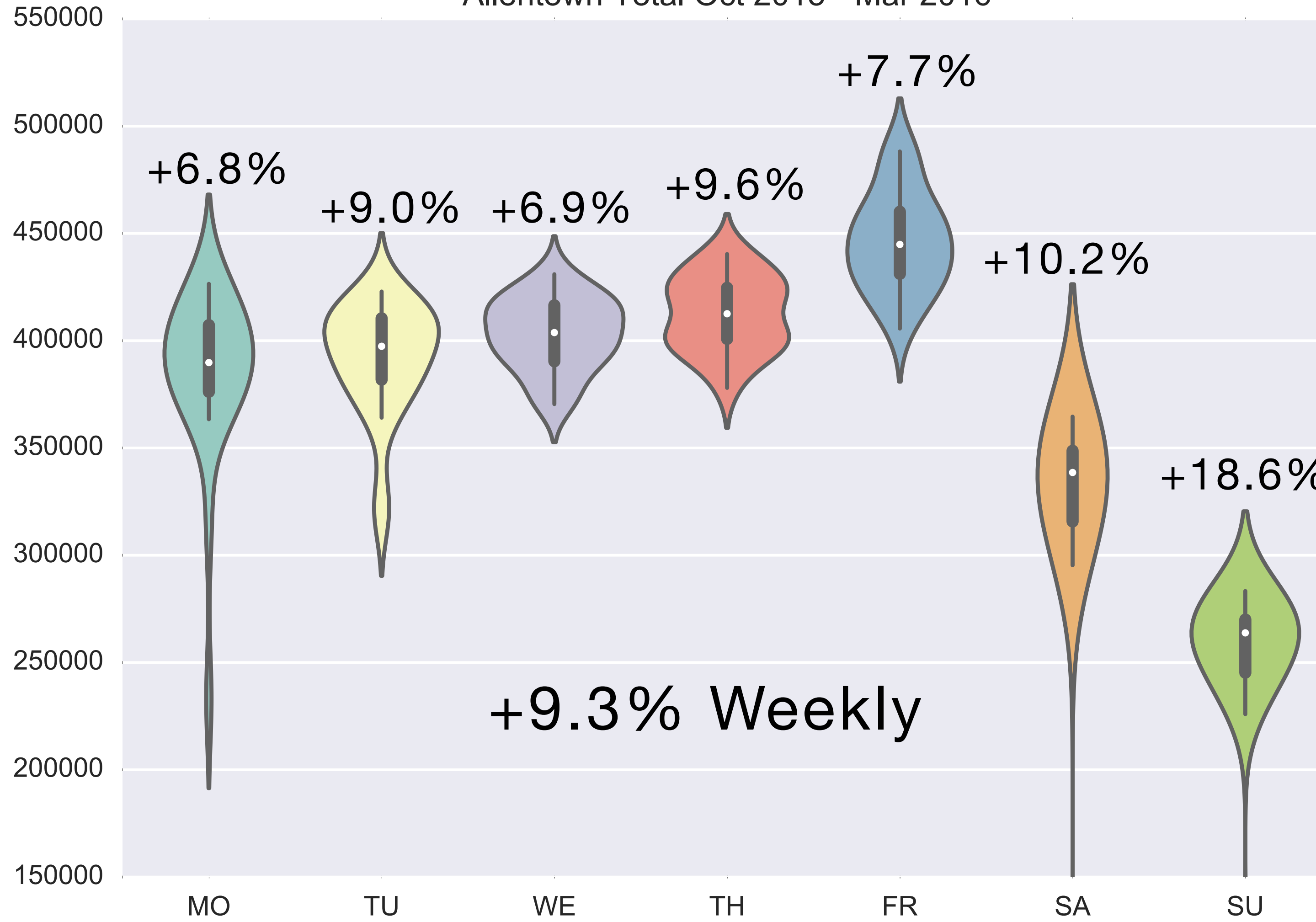
September October November December 2015 February March April May June July August September October November December 2016 February March



Allentown Total Oct 2014 - Mar 2015



Allentown Total Oct 2015 - Mar 2016



	<b>Intersections</b>	<b>Days</b>	<b>Total Count Events</b>	<b>Effective Count Study Hours</b>
<b>Knoxville</b>	2	938	73.0M	45,024
<b>Allentown</b>	35	584	220.3M	491,400







# API

**Version 6.0 | Document Updated 2015-09-04**

The GRIDSMART API allows you to retrieve data and images from GRIDSMART Processors using HTTP. You can, for example, see camera images and even quad-views in any web browser, or even automate the retrieval of count and/or realtime data. You can also get the site history, current configuration, and camera status returned in XML (default) or JSON (by appending `.json` to the request).

In the documentation below you will find several live links to specific API calls. These links will work only if you are connected to a configured GRIDSMART Processor over the local port. If you can connect to a remote GRIDSMART Processor, you can replace the IP address in those URLs appropriately and query your own site.

Important Note: As of GRIDSMART 6.0, the count file format and the structure of the downloaded data have changed significantly. Please see [Counts by date](#) below for more detailed info.

## Quick reference

API version	Camera image	Camera status	Client	Counts available	Counts by date	
Date-time	Diagnostic data	Hardware ID	Hardware info	History hash	License	Logs
Output states	Phases	Quad-view image	Realtime data by phase	Realtime data by zone		
Realtime total volume	Realtime approach volume	Realtime volume data	Realtime zone volume			
Site configuration	Site configuration at revision	Site history	Site ID	Site name		
Site revision info	Vehicle zone states					



**GRIDS MART**®  
TRAFFIC CONTROL FREAKS

