

2017

Park and Ride System Report



Iowa Department of Transportation

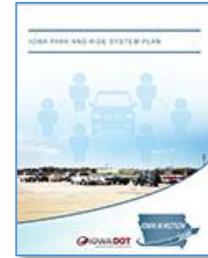
7/24/2018

Table of Contents

Executive Summary	2
Current Status and Future Changes to Park and Ride System Capacity	3
Count Plan.....	4
Statewide Park and Ride Usage.....	5
Methodology	6
Manual Counts.....	6
Miovision Cameras.....	7
Park and Ride Lot Assessments	8
District 1	8
U.S. 30 and IA 21.....	8
U.S. 30 and S Story Street.....	10
I-80 and U.S. 169.....	12
District 2	14
U.S. 20 and IA 187.....	14
U.S. 63 and C33.....	16
U.S. 63 and U.S. 18	18
District 3	20
U.S. 75 and IA 10.....	20
IA 9 and Northwest Blvd	22
District 4	24
U.S. 59 and IA 37.....	24
U.S. 34 and Quail Ave	26
IA 4 and IA 141.....	28
District 5	
No park & ride lots evaluated in 2017	
District 6	30
U.S. 30 and U.S. 218.....	30
U.S. 30 and V66	32
IA 21 and IA 212.....	34
U.S. 6 and V77	36
Kirkwood Blvd SW and 66 th Ave SW.....	38

Executive Summary

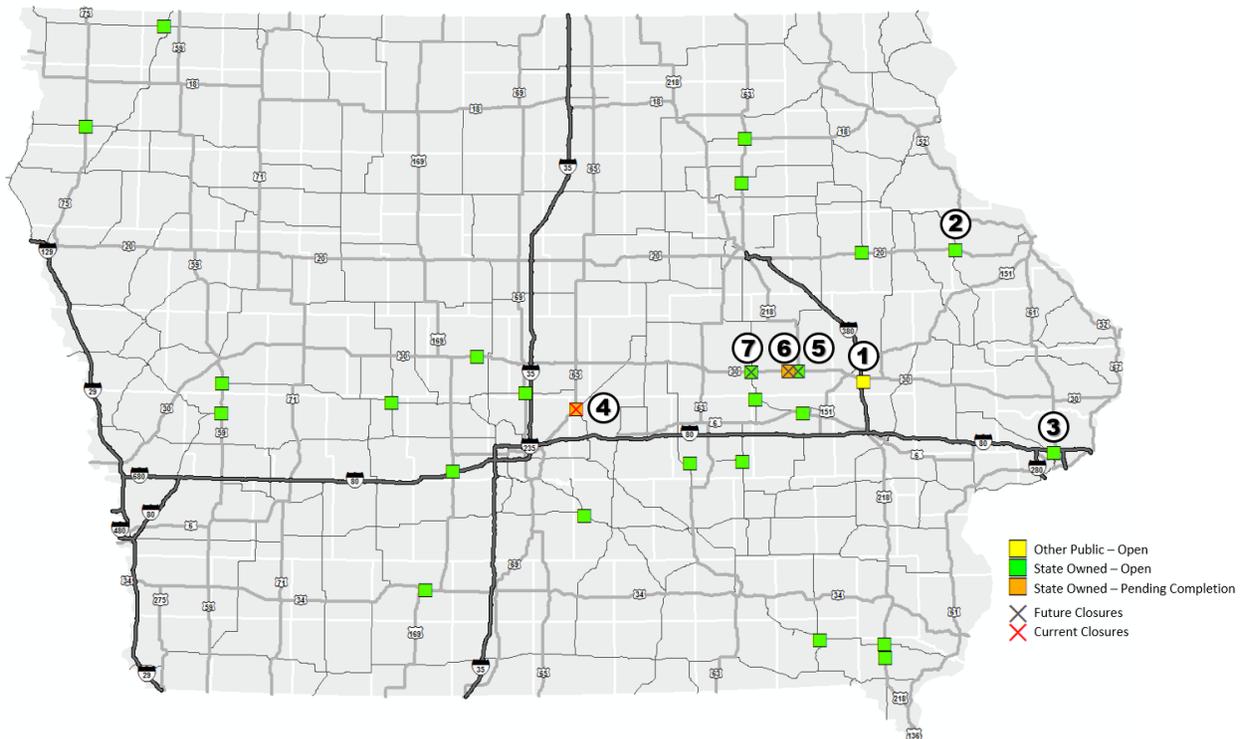
The 2017 Park and Ride System Report provides a summary of current trends of the Iowa Department of Transportation's park and ride system. The purpose is to document the performance and effectiveness of the system on a regular basis in accordance with the [2014 Iowa Park And Ride System Plan](#) under section 7.3 Periodic evaluation and review.



Iowa DOT's park and ride system currently offers an estimated 950 spaces across 23 park and ride facilities throughout the state. The system added 125 spaces to its capacity in 2016 with the opening of one new facility in Cedar Rapids through a partnership with Kirkwood Community College. One facility was temporarily closed in 2017, which removed 28 spaces from the overall system, while two more facilities have newly opened with one more being officially added soon, which will add nearly 15, 50, and 60 parking spaces for another 125 spaces. Additionally, three more facilities are anticipated to close later in 2018 due to construction, which would permanently remove another 35, 50, and 58 spaces from the system. The changes to park and ride capacity, both current and projected, is shown in Figure 1 and Figure 2.

The latest assessment of the system was conducted in late spring between the dates of February 28 and April 18, 2017 with a second assessment in the fall between October 19 and November 8, 2017 using Miovision traffic cameras to count vehicle usage of the facilities for 24 hours per day for roughly a week in the northeastern quadrant of the state and western half of the state. The counts include vehicles entering and leaving, as well as the direction the vehicles arrived from and departed towards. The latest counts are compared to manual vehicle counts conducted in the summer of 2015, which generally only measured overall vehicles present at the lot between 6 am and 6 pm Monday through Thursday.

Current Status and Future Changes to Park and Ride System Capacity

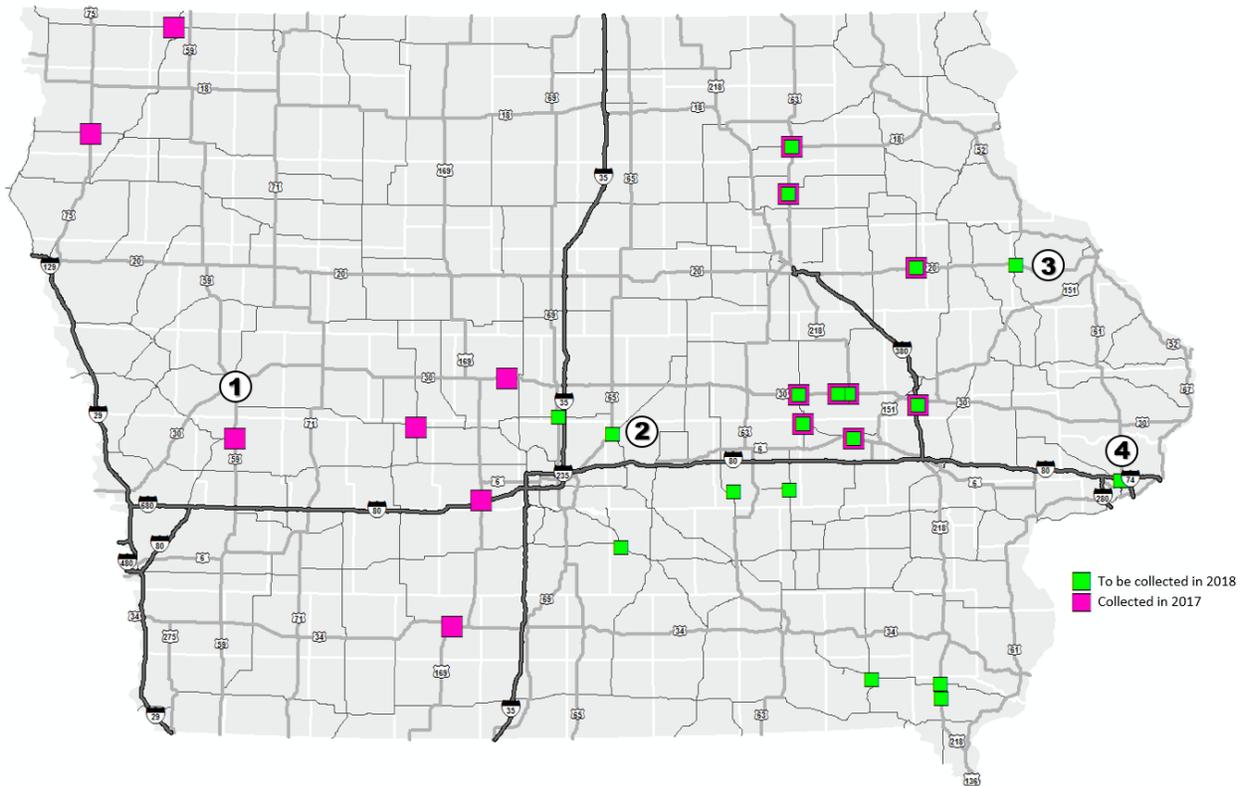


Between 2016 and 2017, three new park and ride lots have been added to the system; **(1)** [Kirkwood Blvd and 66th Ave](#) in Cedar Rapids, Linn County with 125 spaces in 2016; **(2)** [U.S. 20 and 20th Ave](#) in Dyersville, Dubuque County with 15 spaces in 2017; and **(3)** [I-80 and U.S. 61](#) in Davenport, Scott County with 60 spaces in 2017. All three lots were added by various means with the Kirkwood Blvd lot added through a public-public partnership between the Iowa DOT and Kirkwood College through an agreement to utilize the college-owned parking area. The Dyersville lot was added after the district planner identified an underutilized Iowa DOT-owned parcel, with construction beginning once public input validated the need for additional commuter parking. The Davenport lot was a public-private partnership between the Iowa DOT and Thunderbay Grille. Thunderbay agreed to maintain the Iowa DOT-owned paved lot in exchange for utilizing it, free of charge, for overflow parking at its restaurant.

In 2017, **(4)** U.S. 65 and IA 117 in Jasper County with 28 spaces was temporarily closed due to construction of the interchange. The realignment of these routes will also result in movement of the park and ride which will be located further north. This project is anticipated to be completed in 2018.

Starting sometime after 2019, **(5)** U.S. 30 and U.S. 218 in Benton County with 35 spaces, along with **(6)** U.S. 30 and V66 in Benton County with 50 spaces, and **(7)** U.S. 30 and IA 21 in Tama County with 58 spaces will become impacted by construction work along the U.S. 30 corridor. U.S. 218 will permanently close and be temporarily moved to an alternate location at V66. IA 21 and V66 will eventually permanently close once U.S. 30 construction reaches those locations.

Count Plan



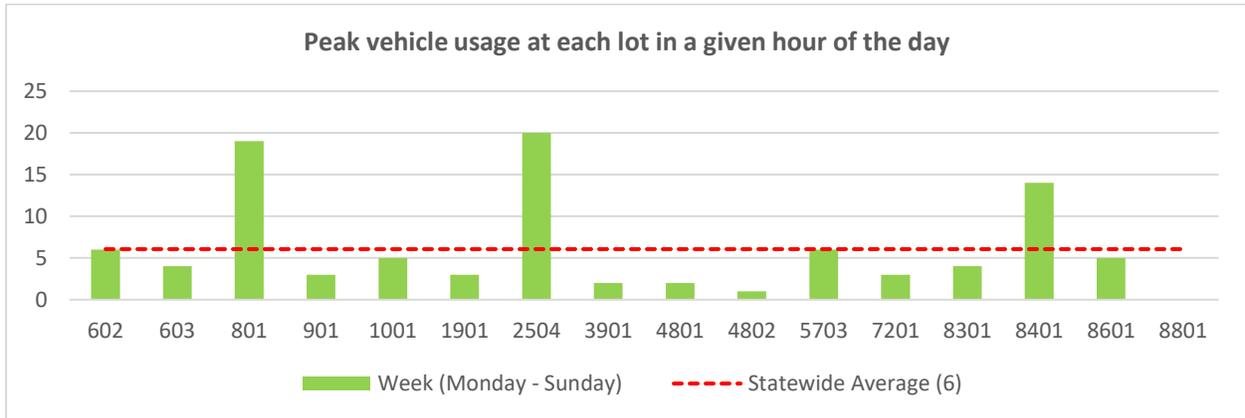
Counts in 2017 took place in northeast Iowa and in west Iowa (depicted in purple). During this period, **(1)** U.S. 59 and IA 141 in Crawford County was not collected on due to the Miovision camera experiencing weather issues (wind). This location is not anticipated to receive an updated count until spring of 2019.

Due to the ongoing construction in Jasper County, **(2)** U.S. 65 and IA 117 could not be counted for the spring of 2018 period. This location is tentatively scheduled to be collected during fall of 2018, dependent on when the construction concludes and as time allows.

Newer park and ride lots at **(3)** U.S. 20 and 20th Ave and **(4)** I-80 and U.S. 61 in Dyersville and Davenport were not counted in 2017 since they were added to the system after those regions were counted. Counts are planned for those locations in fall of 2018.

Miovision camera counts are scheduled to occur in spring and fall of 2018 in southeast and northeast Iowa depicted in green. The southeast Iowa lots have already been collected as of 23 March 2018 but still need to be counted and tabulated. Northeast Iowa lots will be covered sometime during fall of 2018 (tentatively October-November timeframe).

Statewide Park and Ride Usage



PRID	Location	County	Max
602	U.S. 30 and U.S. 218	BENTON	6
603	U.S. 30 and V66	BENTON	4
801	U.S. 30 and S Story St.	BOONE	19
901	U.S. 63 and C33	BREMER	3
1001	U.S. 20 and IA 187	BUCHANAN	5
1901	U.S. 63 and U.S. 18	CHICKASAW	3
2504	I-80 and U.S. 169	DALLAS	20
3901	IA 4 and IA 141	GUTHRIE	2

PRID	Location	County	Max
4801	IA 21 and IA 212	IOWA	2
4802	U.S. 6 and V77	IOWA	1
5703	Kirkwood Blvd SW and 66th Ave	LINN	6
7201	IA 9 and Northwest Blvd.	OSCEOLA	3
8301	U.S. 59 and IA 37	SHELBY	4
8401	U.S. 75 and IA 10	SIOUX	14
8601	U.S. 30 and IA 21	TAMA	5
8801	U.S. 34 and Quail Ave.	UNION	0

Miovision Cameras

In 2017, the Office of Systems Planning, instead of using manual counters, decided that the Miovision cameras would be leveraged. The intent was to have a record of the count that could be referred back to which facilitated a more consistent way of observing traffic. Additionally, most of the camera positions allowed for the evaluation of directionality of commuters (i.e., where they come from and where they go). These devices also have the added advantage of not requiring nearly as much personnel to conduct the counts. Emplacement and retrieval of the devices was quick and easy while counting could be done back in the office with much fewer people.

To prevent tampering, the cameras are secured with multiple padlocks that enclose the control unit, secure the unit and backup battery to the frame, and secure the Kevlar straps and ratchets that attach the frame to the pole. As an added level of security, a thick chain is wrapped around the frame and the pole with a separate padlock.

These devices can be used for 7 – 10 days out in the field as long as multiple SD Cards and the extra battery pack is included. The resolution of the cameras is such that license plates are impossible to discern but fair enough that vehicle types can be made out. People that are present in the park and ride lots are difficult to make out beyond a moving silhouette which makes it difficult to determine specific activities or even count how many people are present.

Video is reviewed in an office setting and counts recorded at our own pace. VLC Video Player software was installed on our machines to allow for the speeding up and slowing down of the video. Speeds of up to 4x was used to quickly assess non-busy times such as overnights. The advantage of having it recorded is that if something was missed, it was very easy to rewind and review it again.

For assessing “usage,” we first recorded how many vehicles entered and exited the lot by direction over the course of an hour. Vehicles that turned around or waited for a short time before leaving were still counted. At the end of the hour, departures were subtracted from arrivals to determine “usage,” which was used to represent commuters, park and ride users, and anyone else staying in the lot between hour-long blocks.

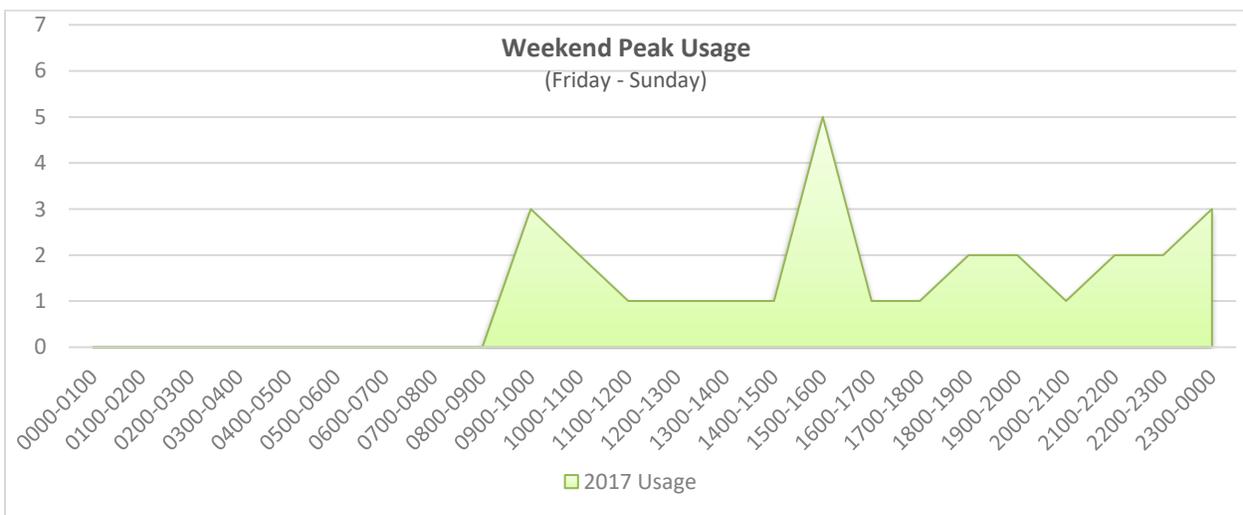
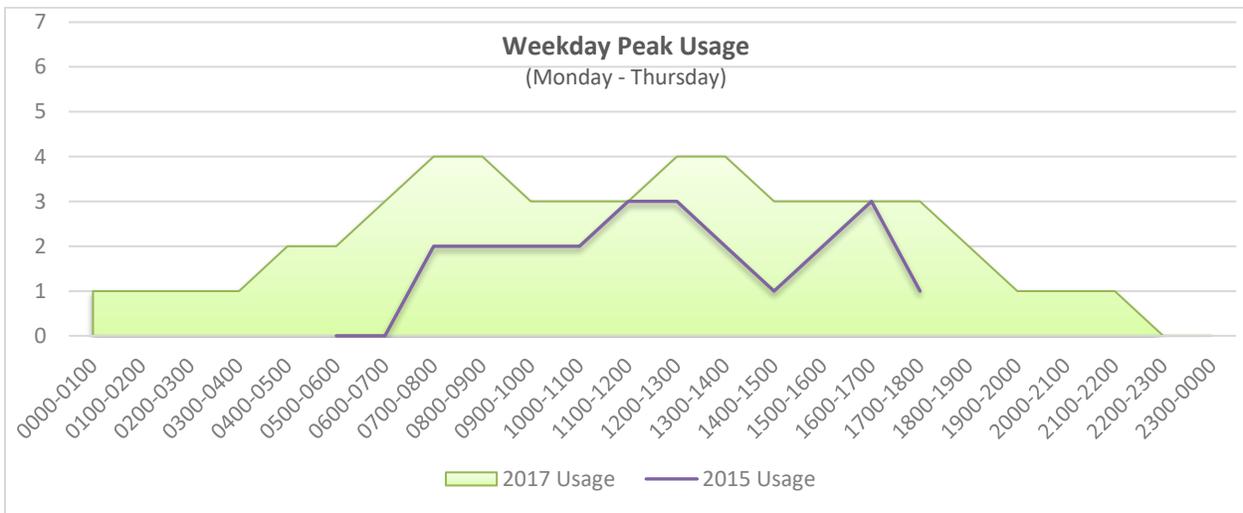
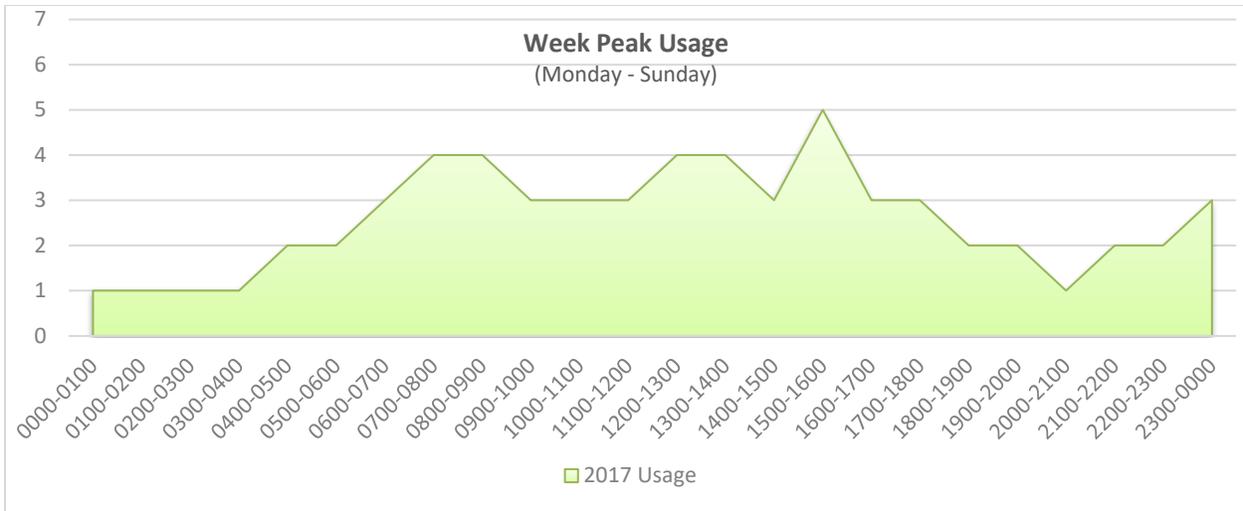


Park and Ride Lot Assessments

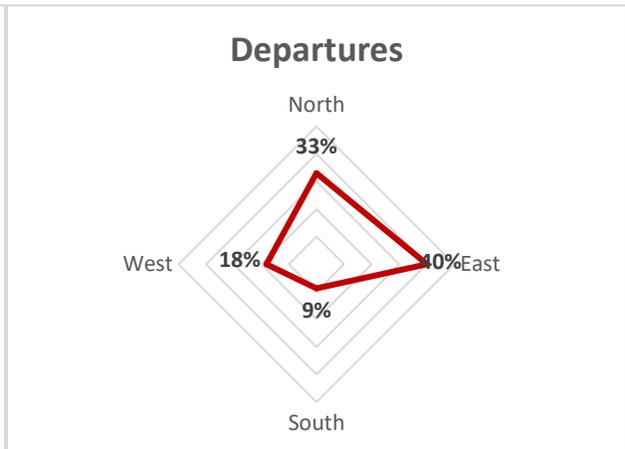
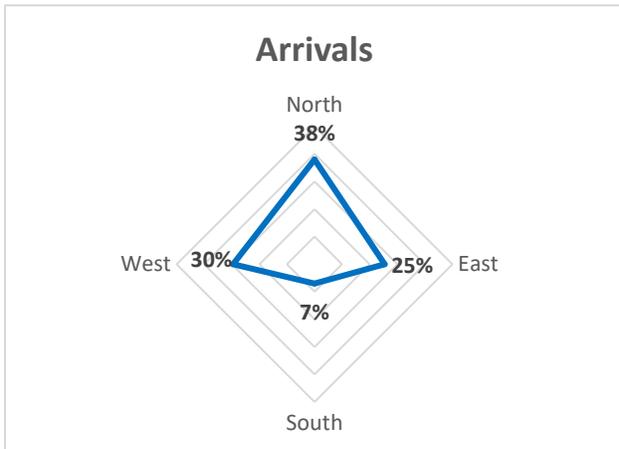
District 1

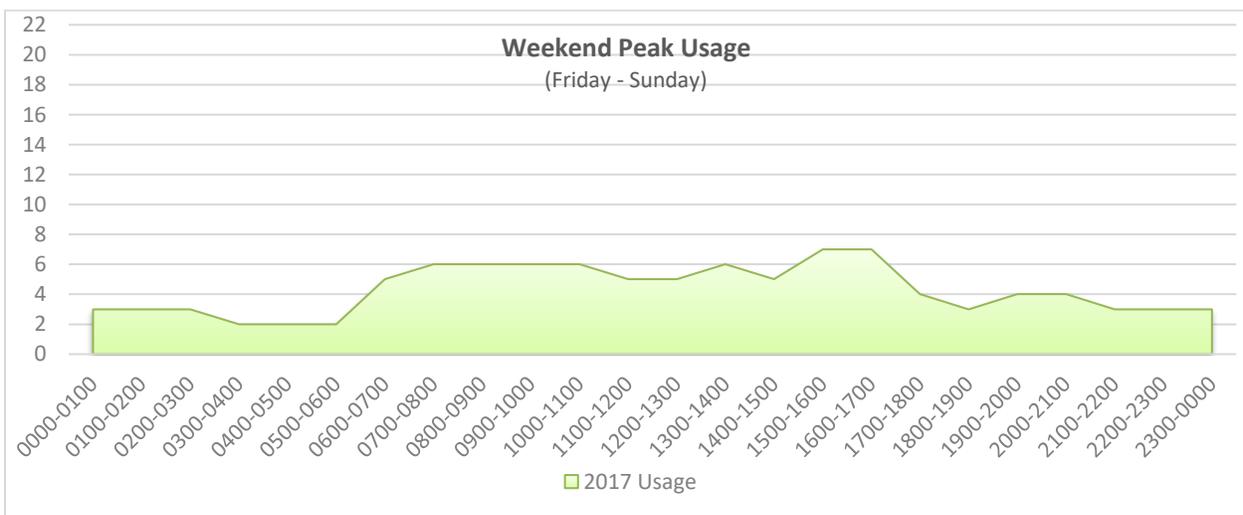
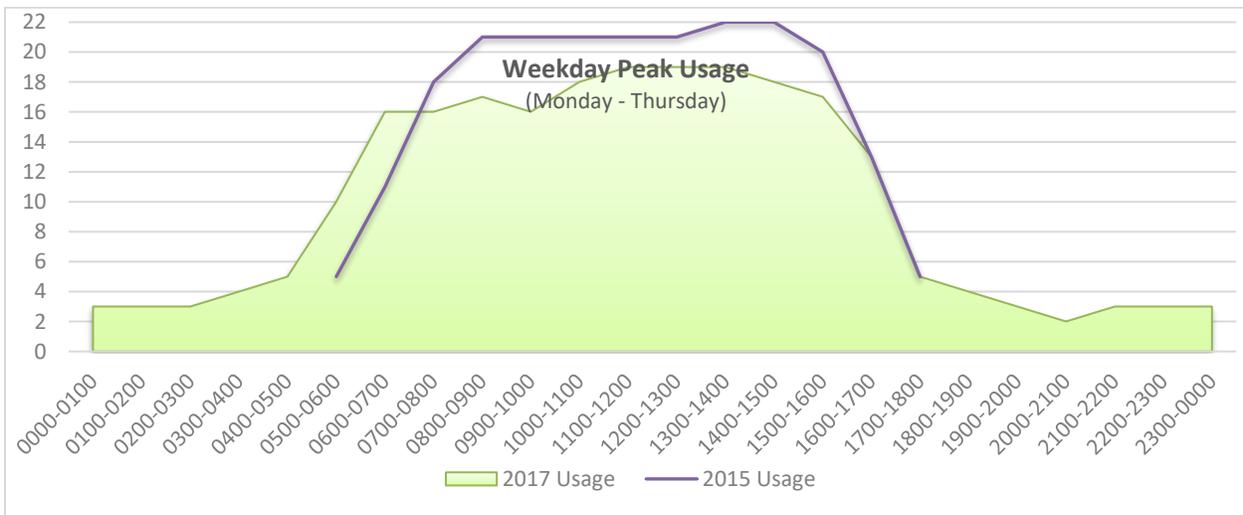
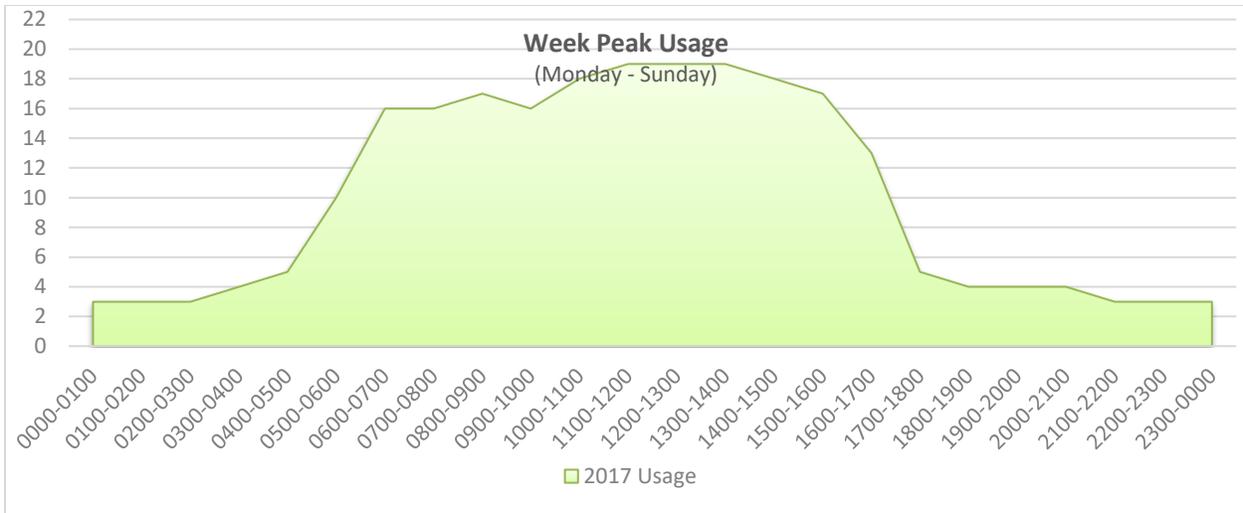
U.S. 30 and IA 21	
Park and Ride ID:	8601
County:	Tama
Area (ft² approx.):	20,400
Surface Type:	Gravel
Estimated Spaces:	58
Counts:	7/20/2015 – 7/23/2015 (manual) 2/28/2017 – 1/16/2017 (Miovision)





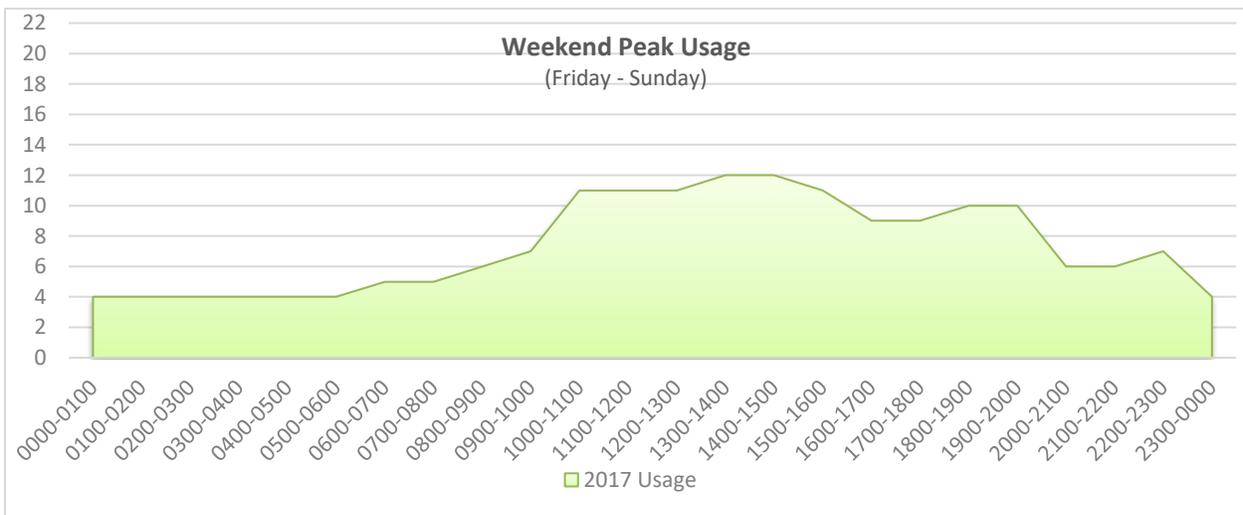
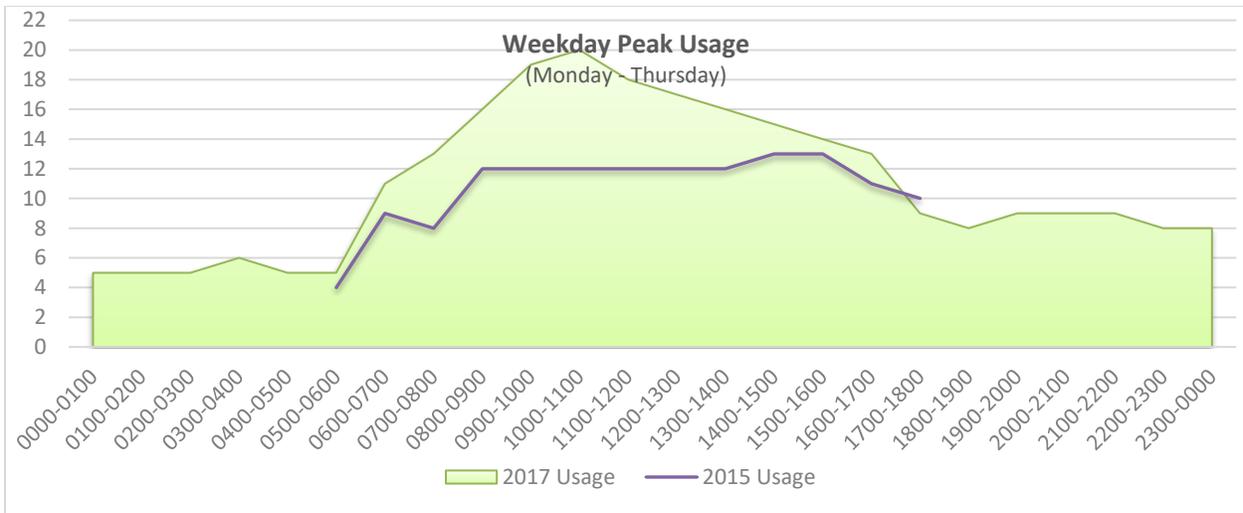
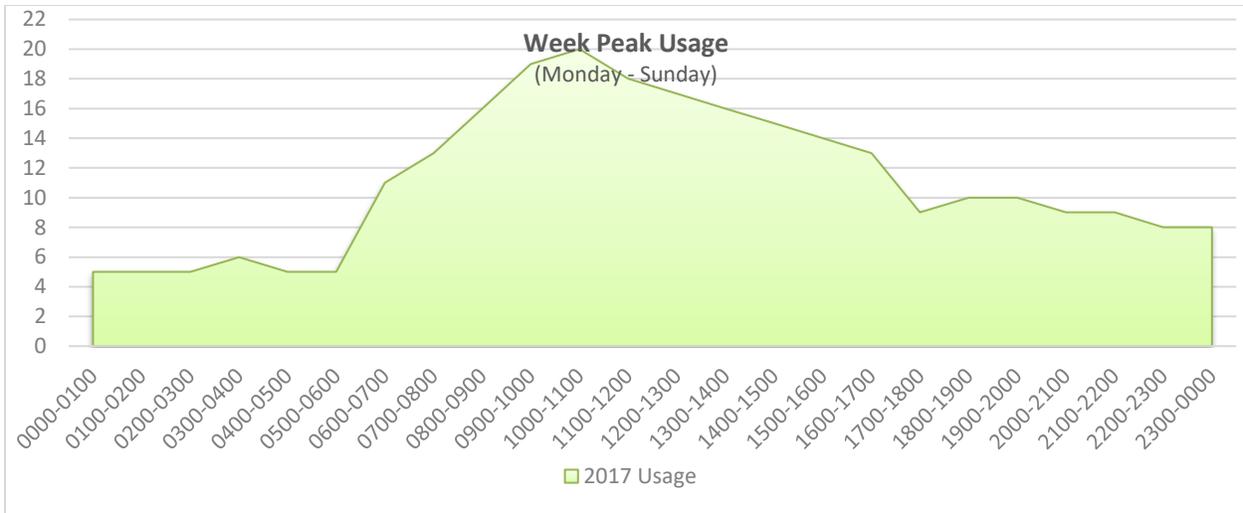
U.S. 30 and S Story Street	
Park and Ride ID:	801
County:	Boone
Area (ft ² approx.):	68,000
Surface Type:	Asphalt
Estimated Spaces:	166
Counts:	7/20/2015 – 7/23/2015 (manual)
	10/19/2017–10/25/2017 (Miovision)





I-80 and U.S. 169	
Park and Ride ID:	2504
County:	Dallas
Area (ft² approx.):	7,200
Surface Type:	Gravel
Estimated Spaces:	20
Counts:	7/20/2015 – 7/23/2015 (manual)
	10/19/2017–10/25/2017 (Miovision)

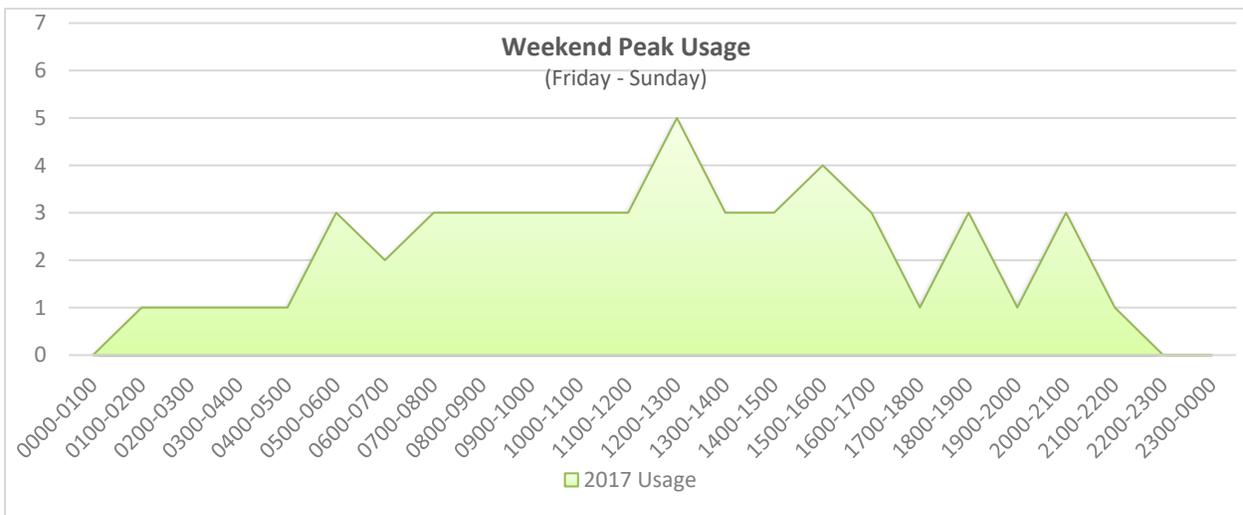
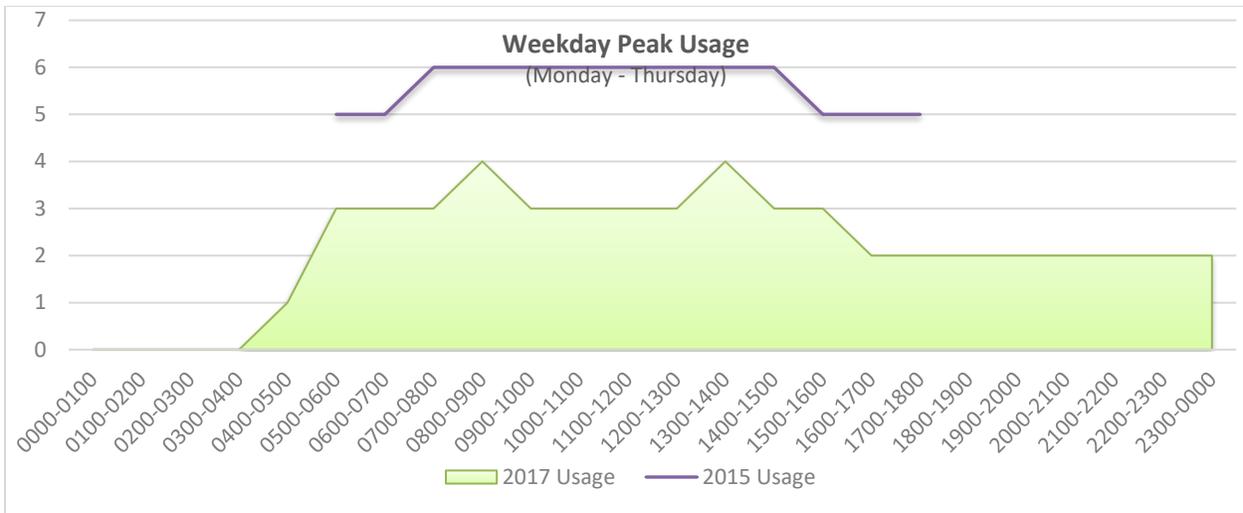
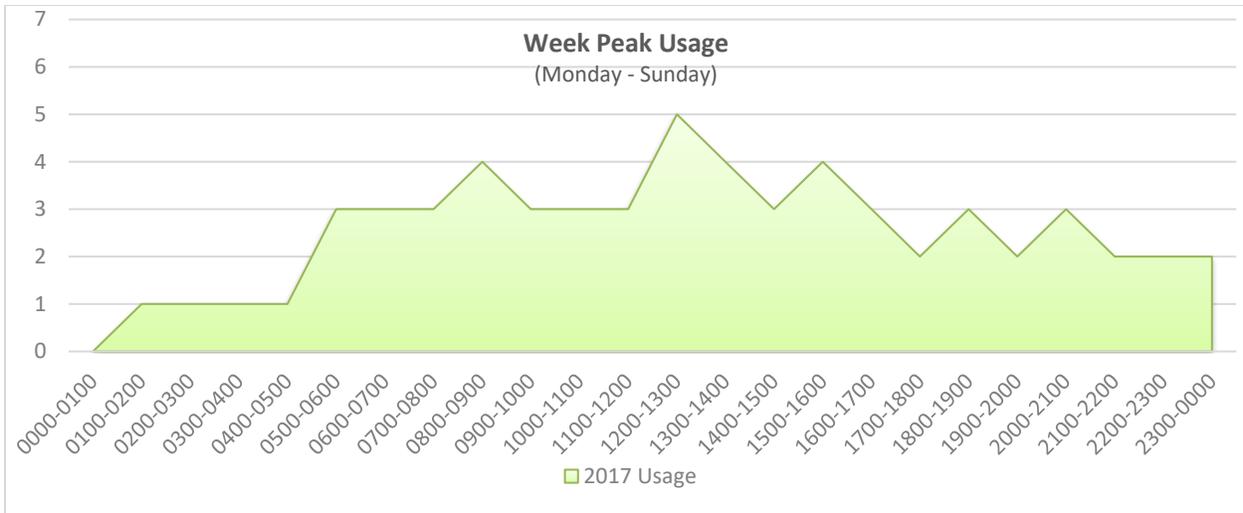




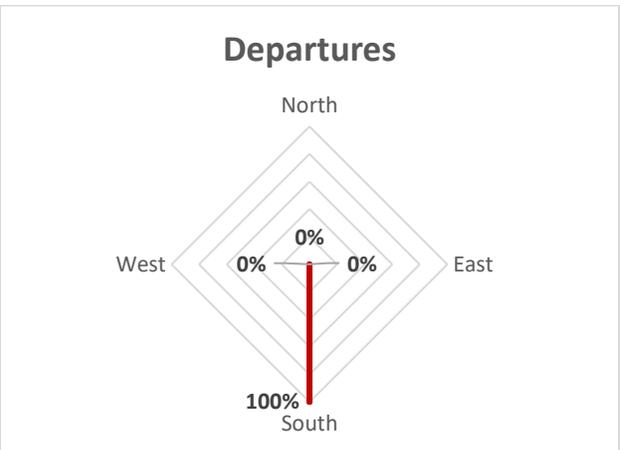
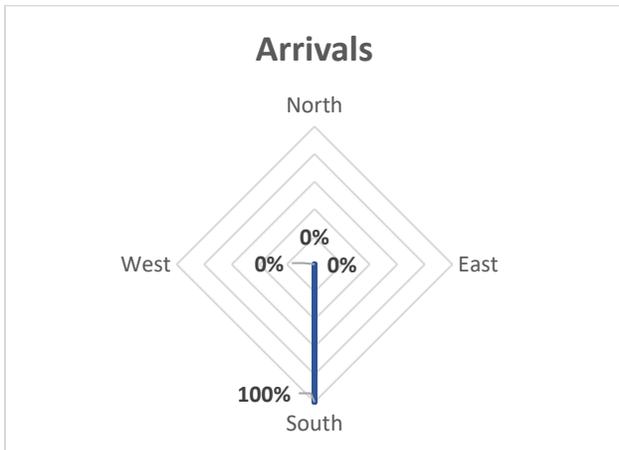
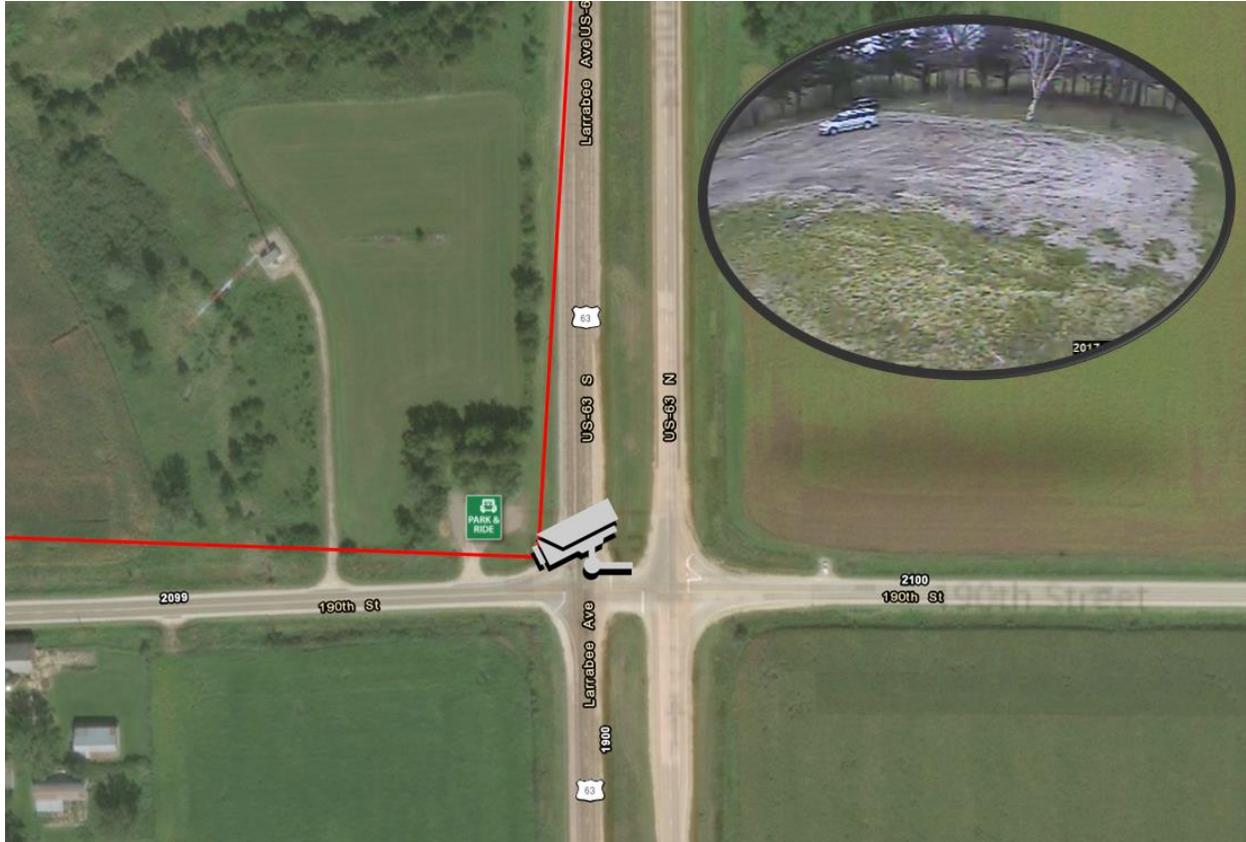
District 2

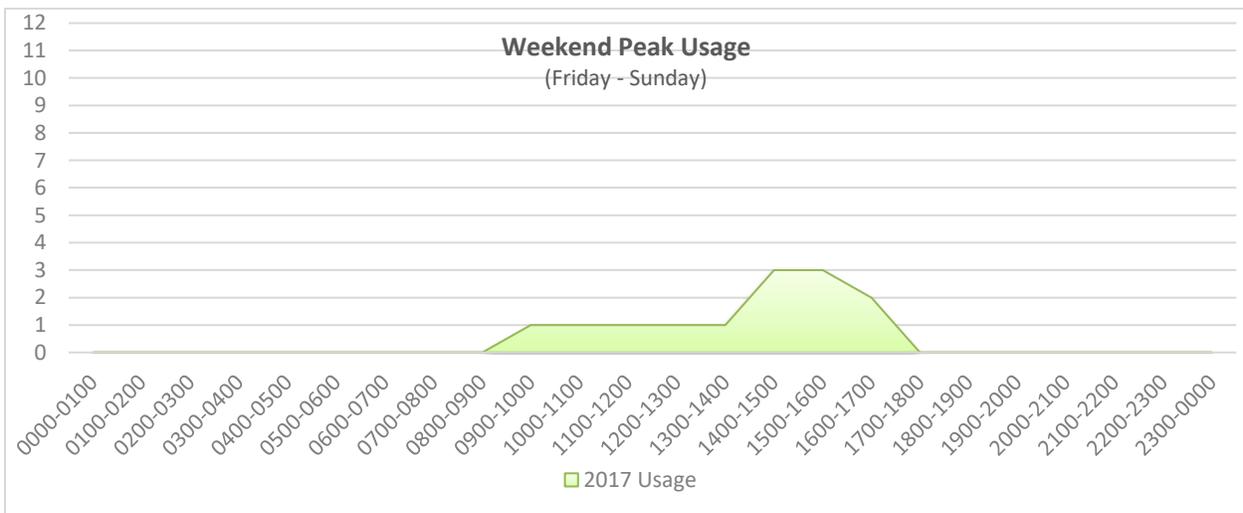
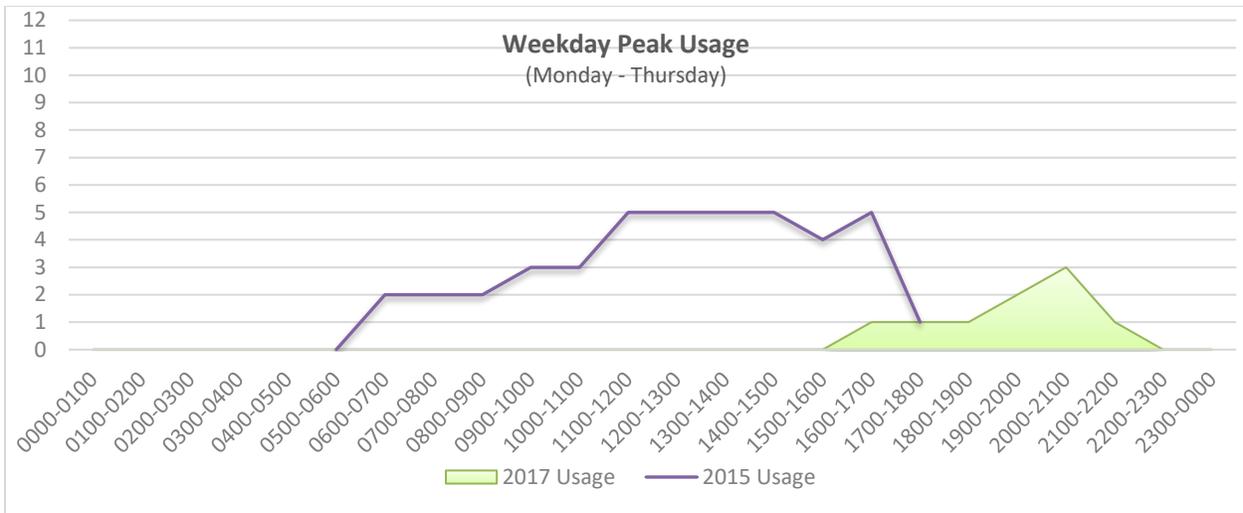
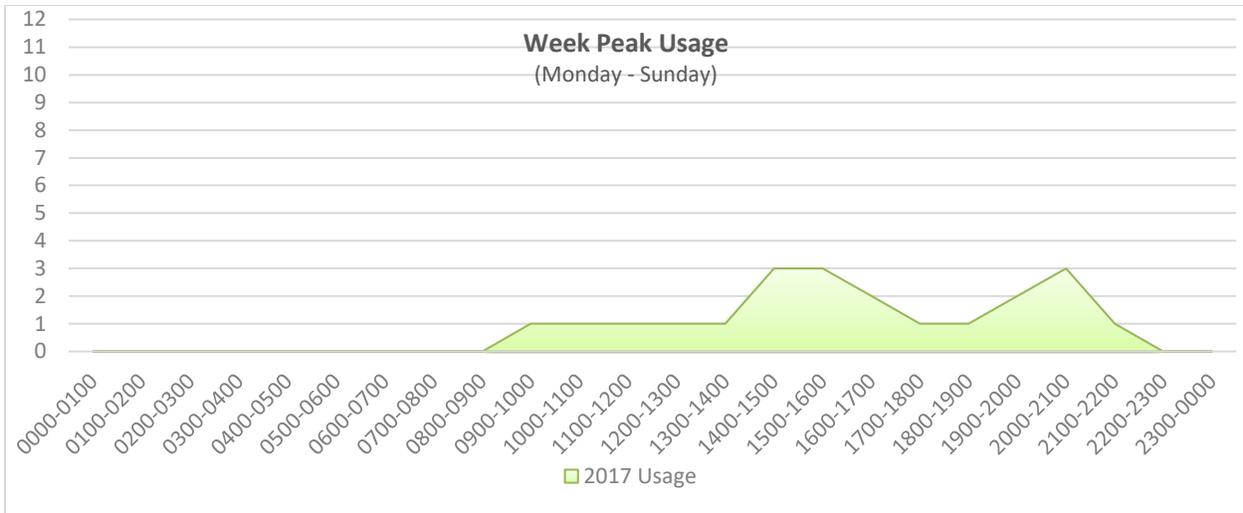
U.S. 20 and IA 187	
Park and Ride ID:	1001
County:	Buchanan
Area (ft ² approx.):	3,000
Surface Type:	Gravel
Estimated Spaces:	7
Counts:	7/20/2015 – 7/23/2015 (manual)
	4/12/2017 – 4/18/2017 (Miovision)



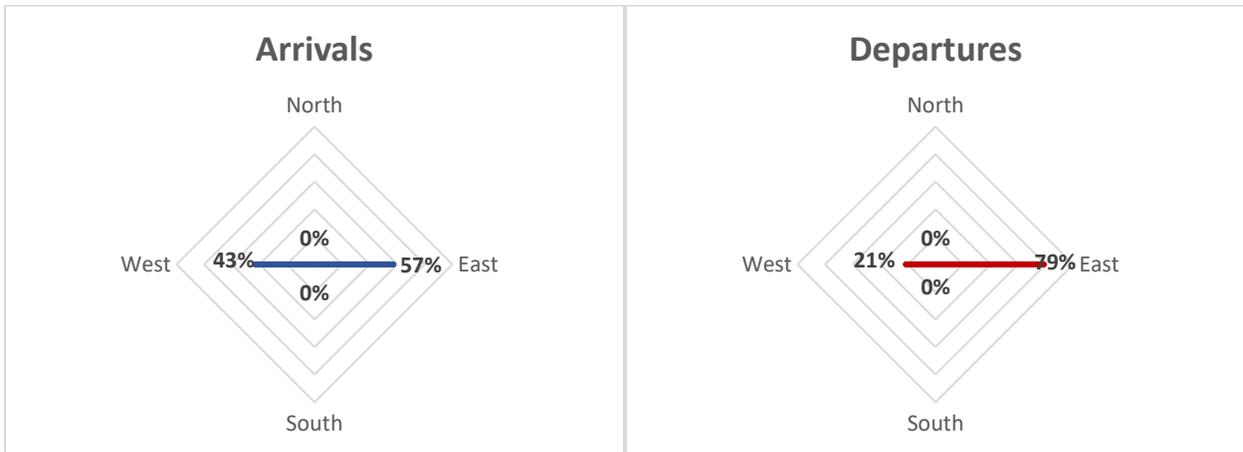


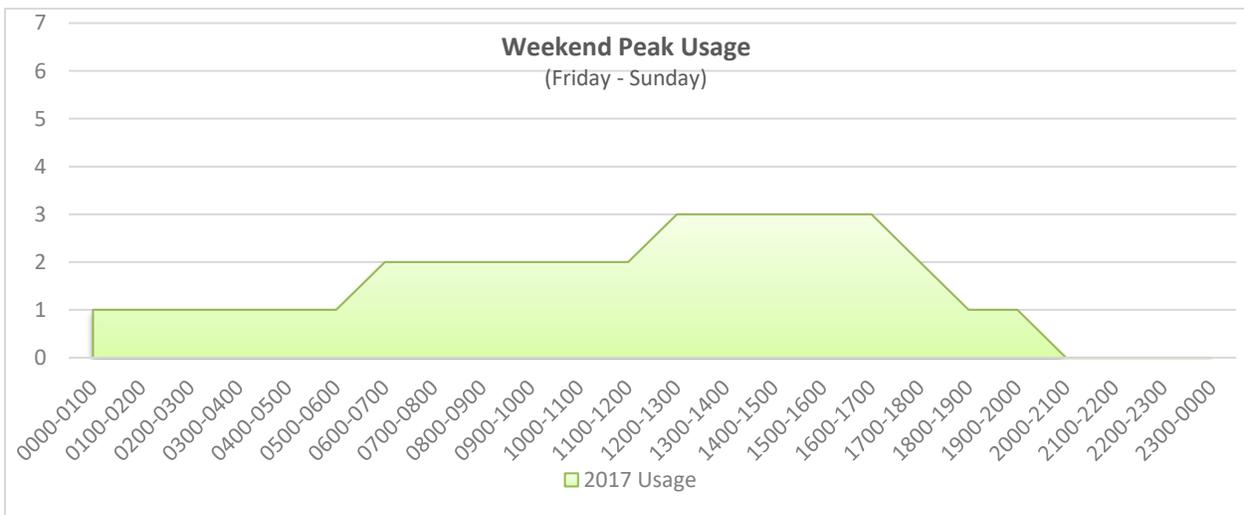
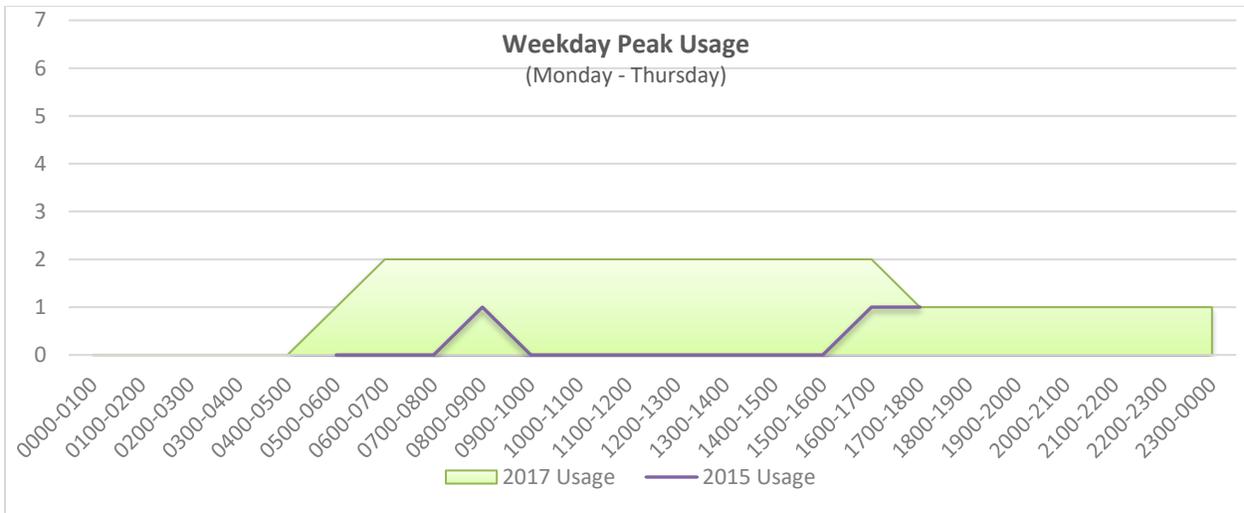
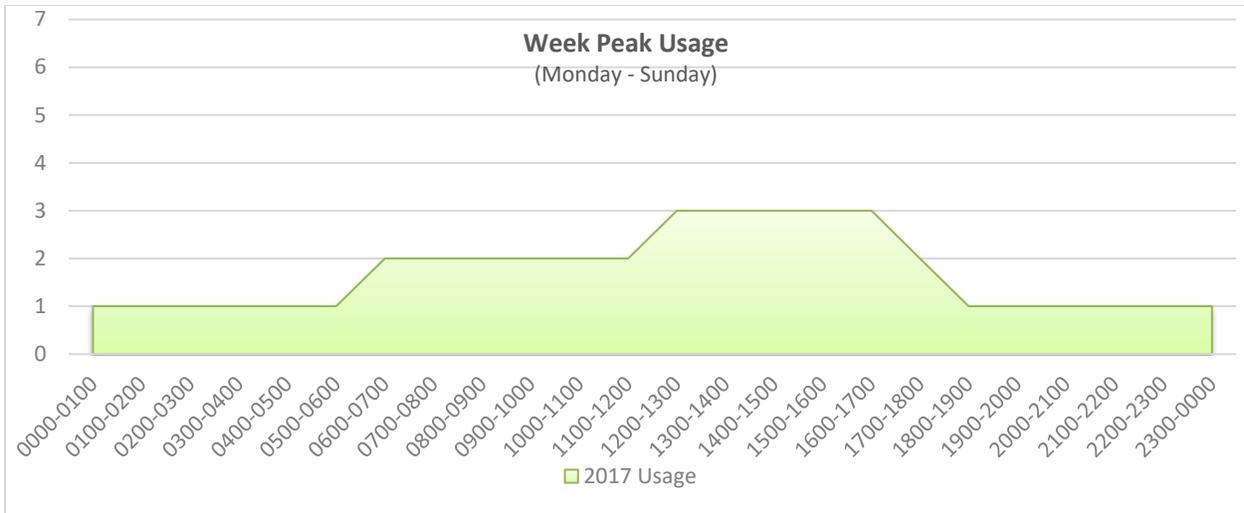
U.S. 63 and C33	
Park and Ride ID:	901
County:	Bremer
Area (ft ² approx.):	6,200
Surface Type:	Gravel
Estimated Spaces:	13
Counts:	7/20/2015 – 7/23/2015 (manual)
	4/12/2017 – 4/15/2017 (Miovision)





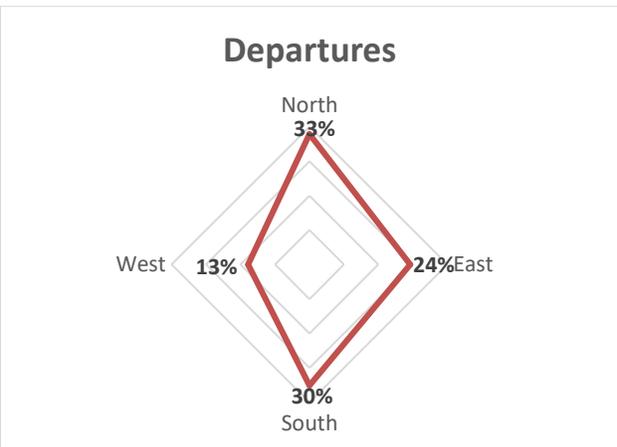
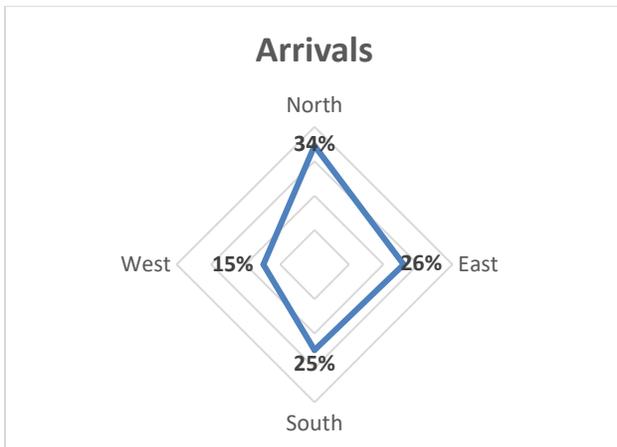
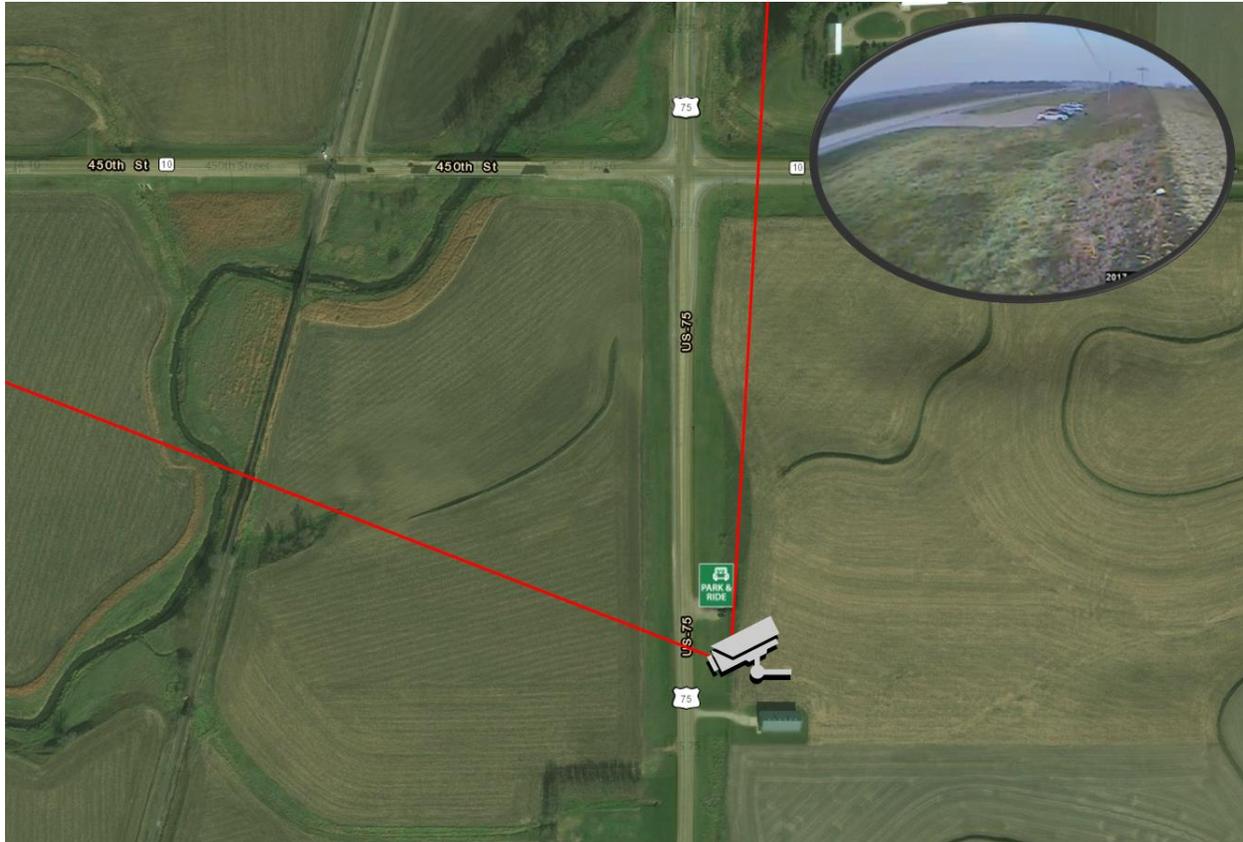
U.S. 63 and U.S. 18	
Park and Ride ID:	1901
County:	Chickasaw
Area (ft ² approx.):	59,000
Surface Type:	Gravel
Estimated Spaces:	101
Counts:	7/20/2015 – 7/23/2015 (manual)
	4/12/2017 – 4/16/2017 (Miovision)

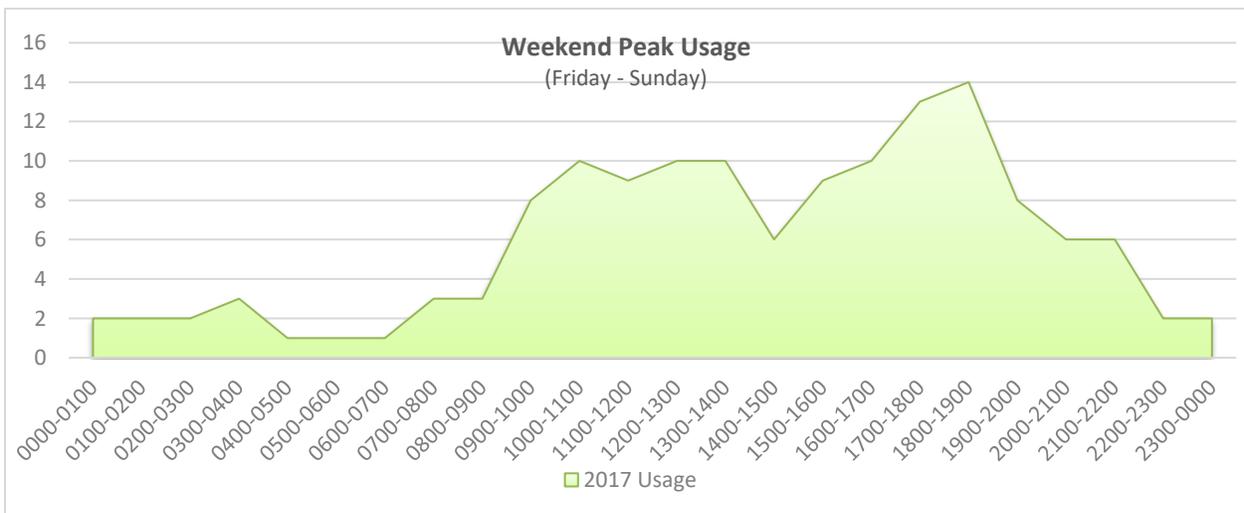
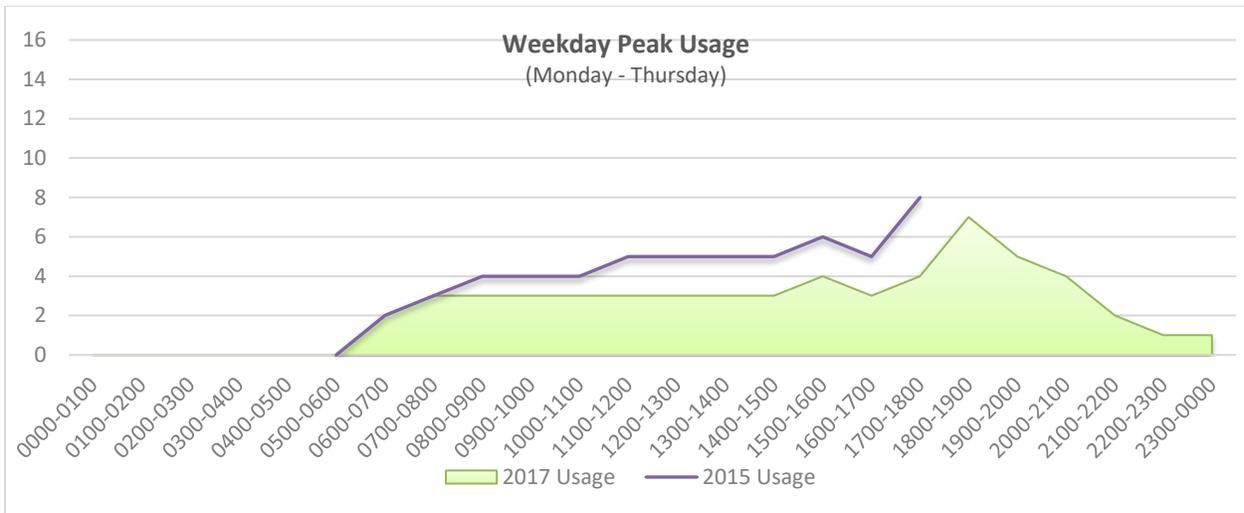
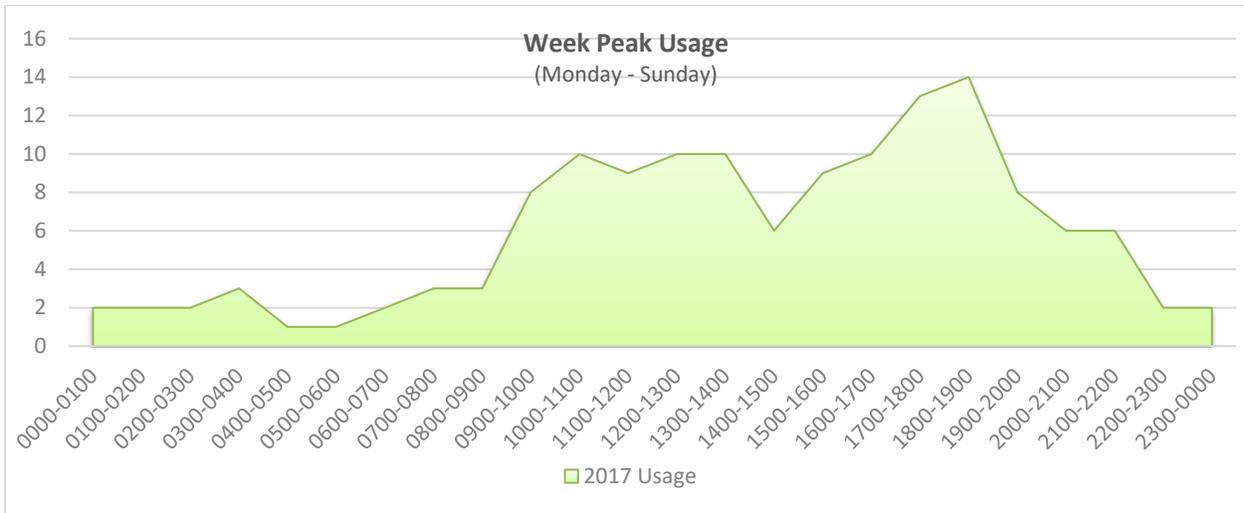




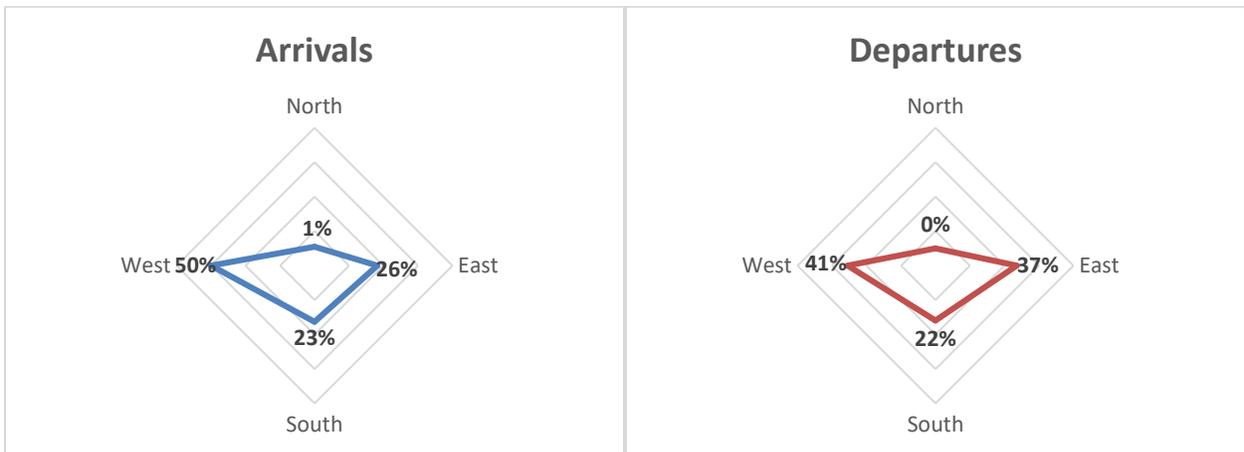
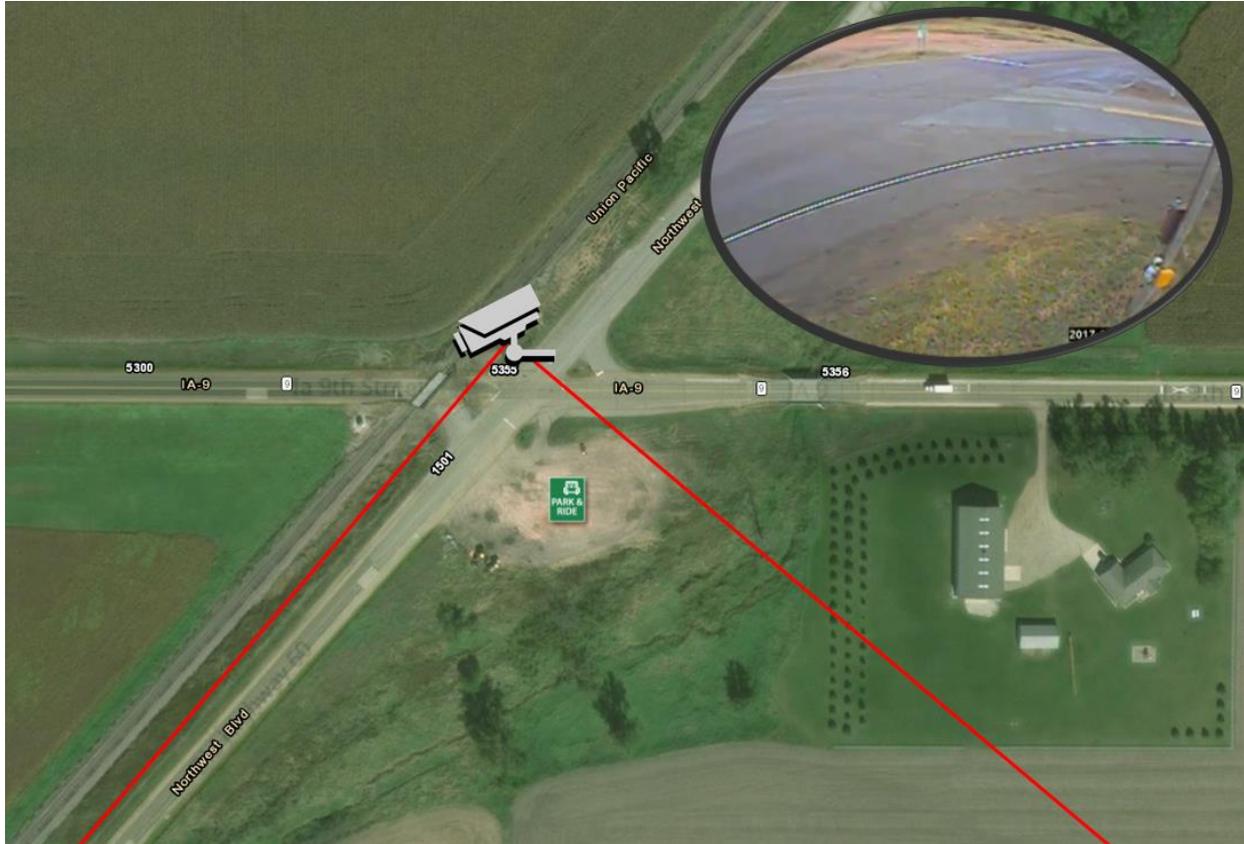
District 3

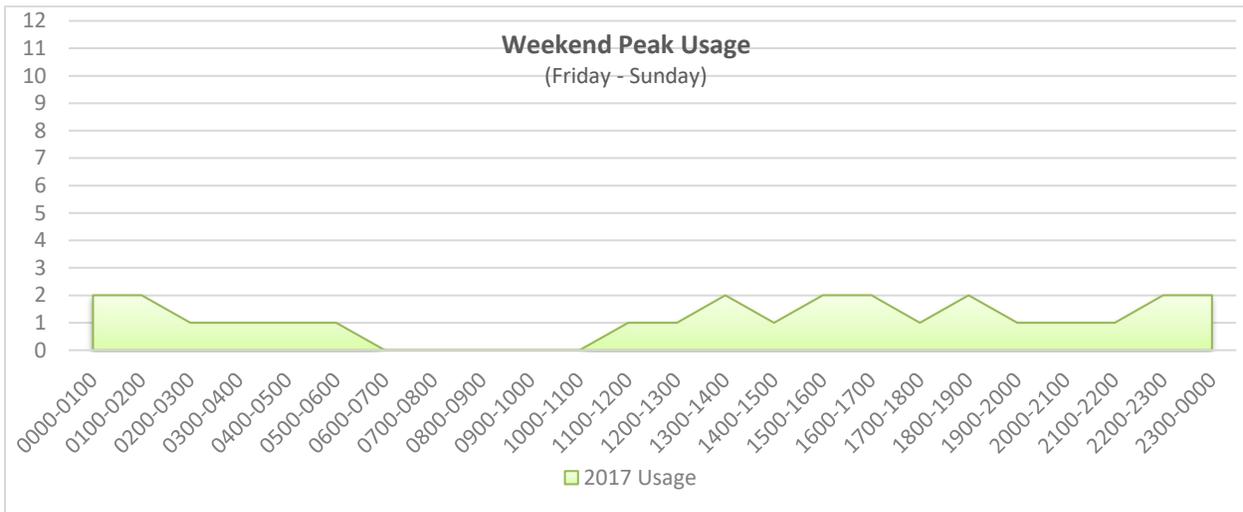
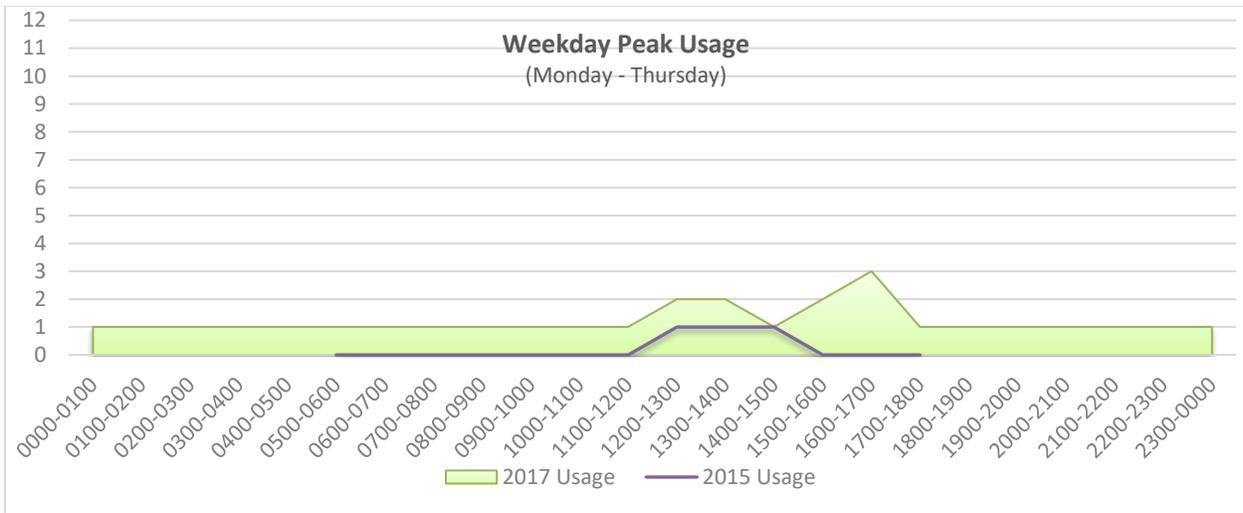
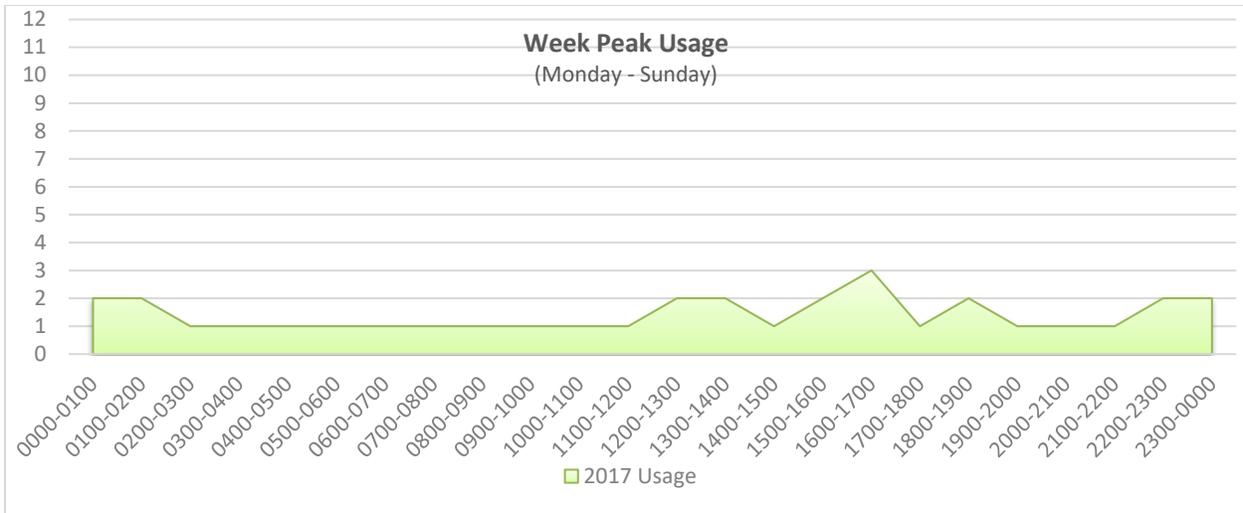
U.S. 75 and IA 10	
Park and Ride ID:	8401
County:	Sioux
Area (ft ² approx.):	7,600
Surface Type:	Gravel
Estimated Spaces:	22
Counts:	7/27/2015 – 7/30/2015 (manual)
	11/2/2017 – 11/8/2017 (Miovision)





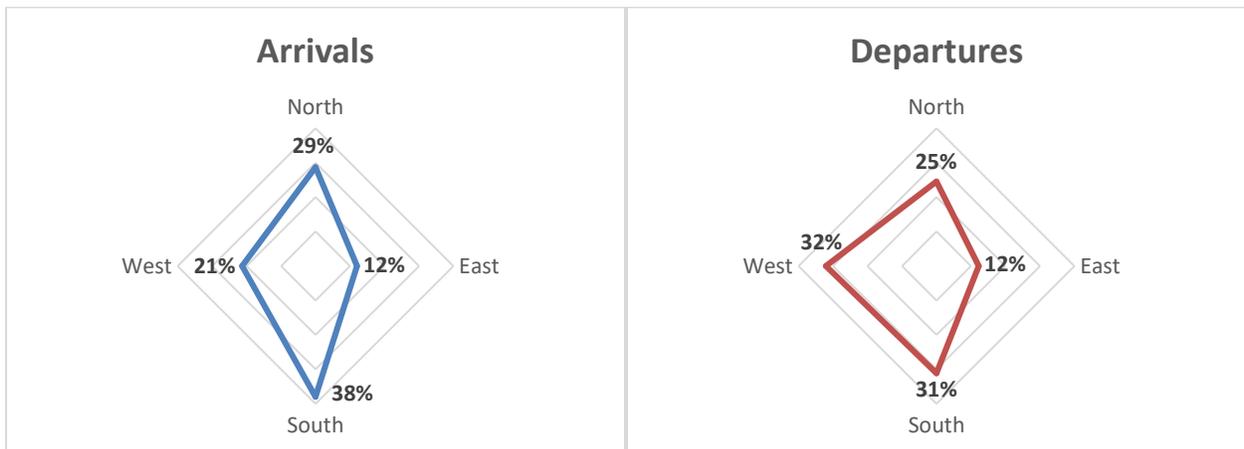
IA 9 and Northwest Blvd.	
Park and Ride ID:	7201
County:	Osceola
Area (ft ² approx.):	34,700
Surface Type:	Gravel
Estimated Spaces:	68
Counts:	7/27/2015 – 7/30/2015 (manual)
	11/2/2017 – 11/8/2017 (Miovision)

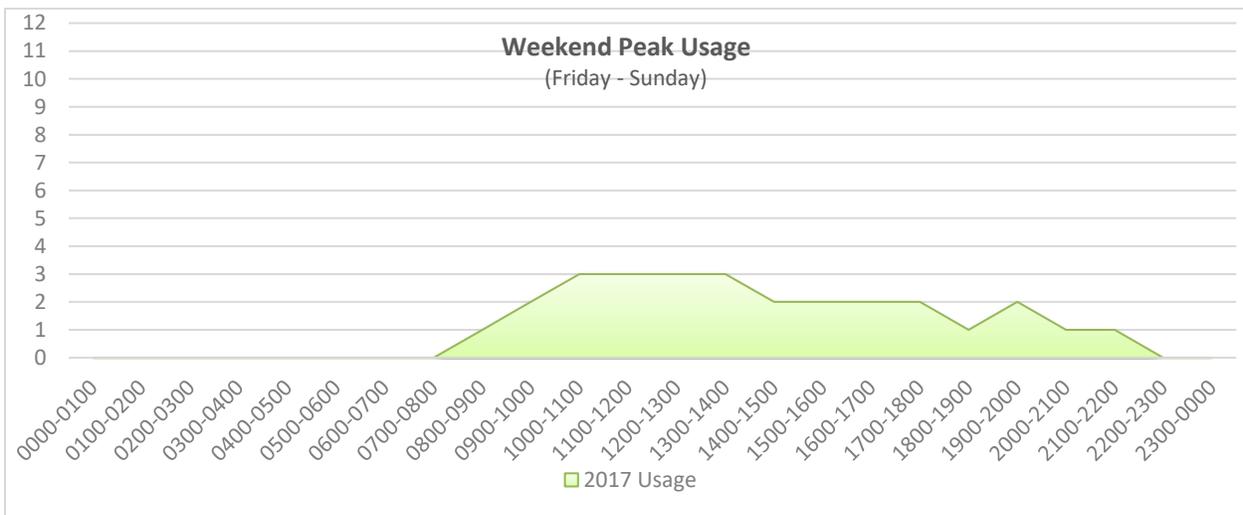
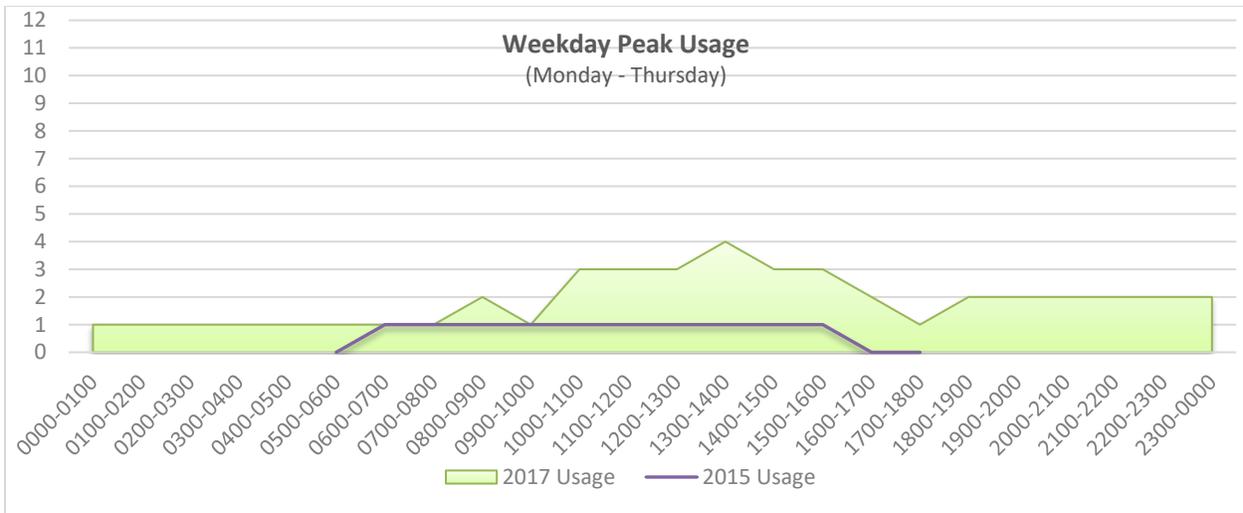
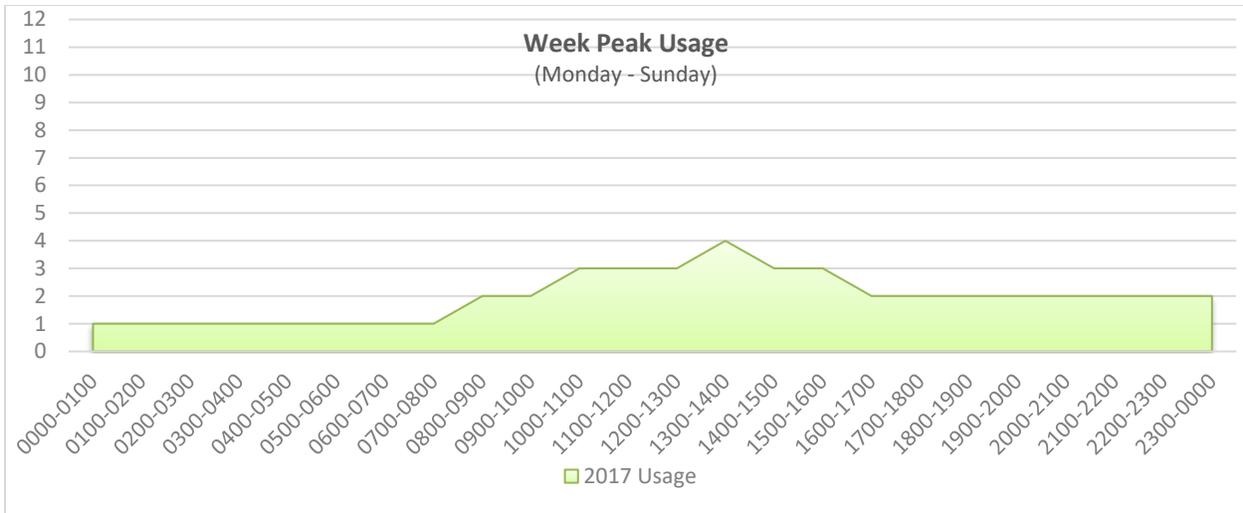




District 4

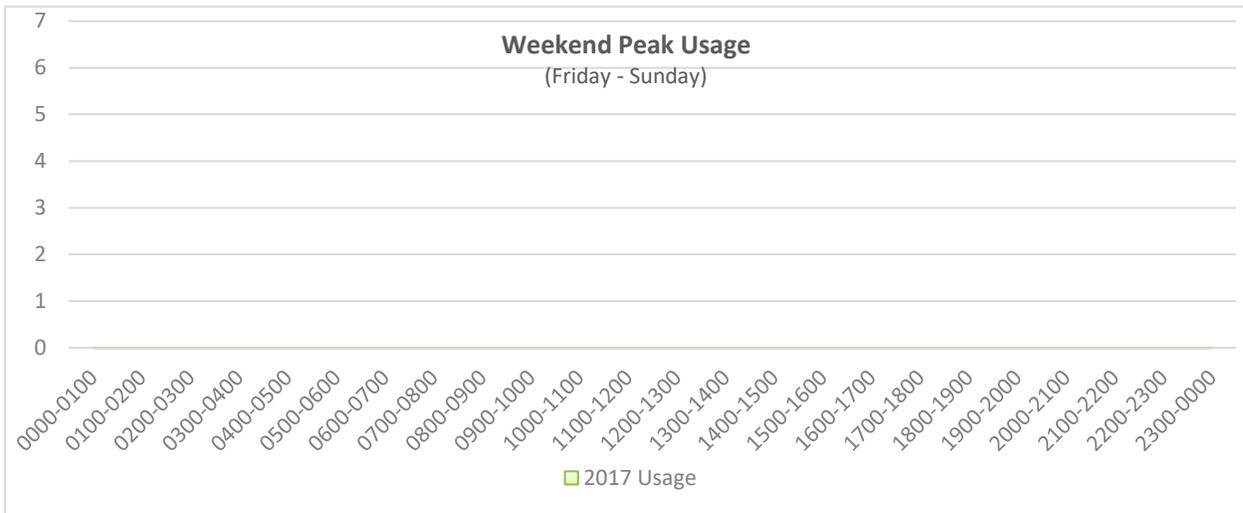
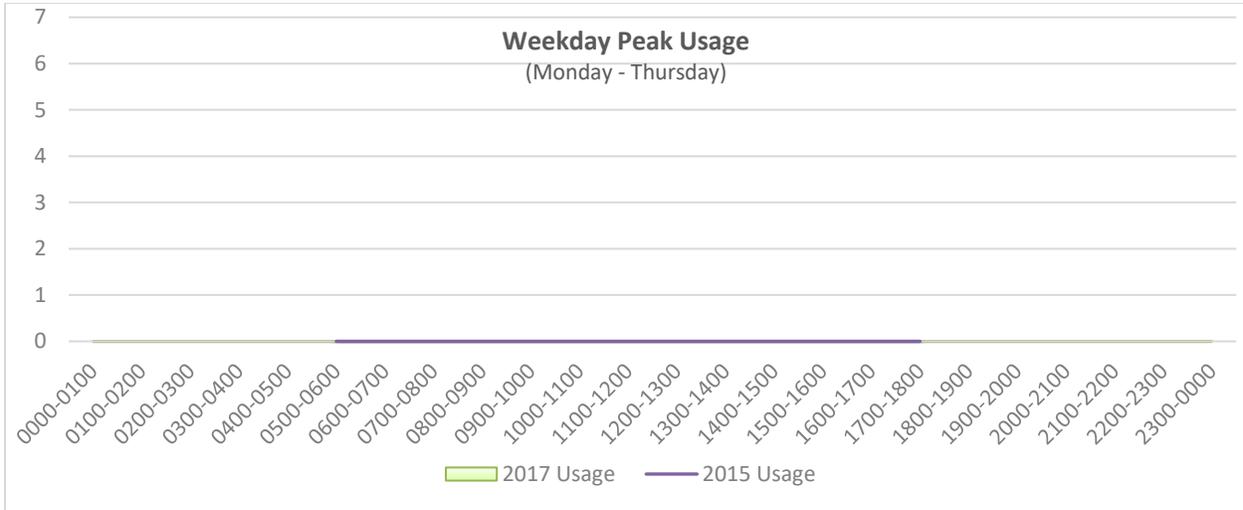
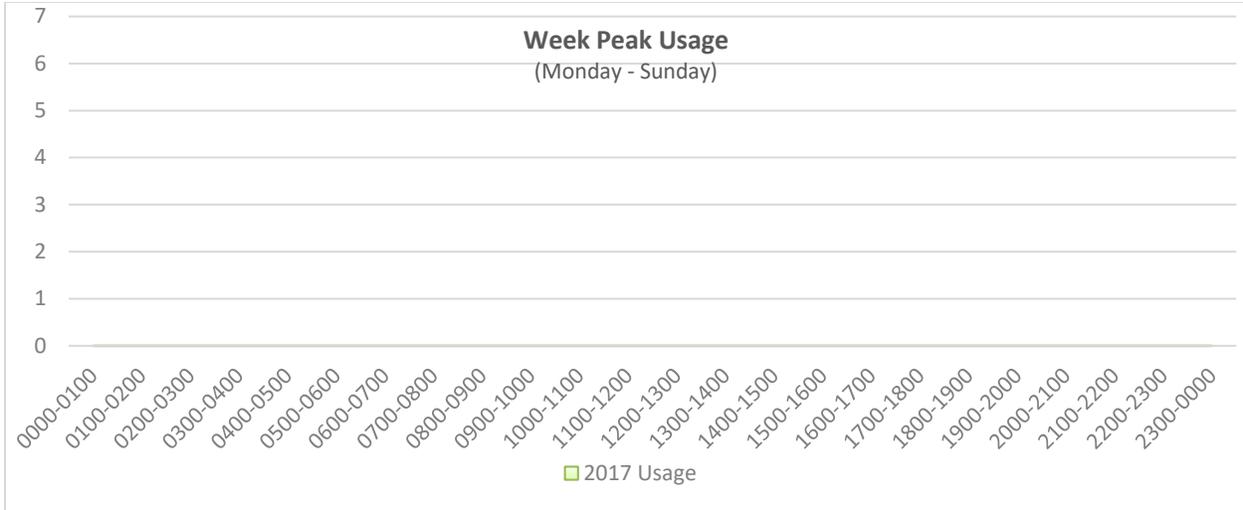
U.S. 59 and IA 37	
Park and Ride ID:	8301
County:	Shelby
Area (ft ² approx.):	6,300
Surface Type:	Gravel
Estimated Spaces:	16
Counts:	7/27/2015 – 7/30/2015 (manual)
	11/2/2017 – 11/8/2017 (Miovision)



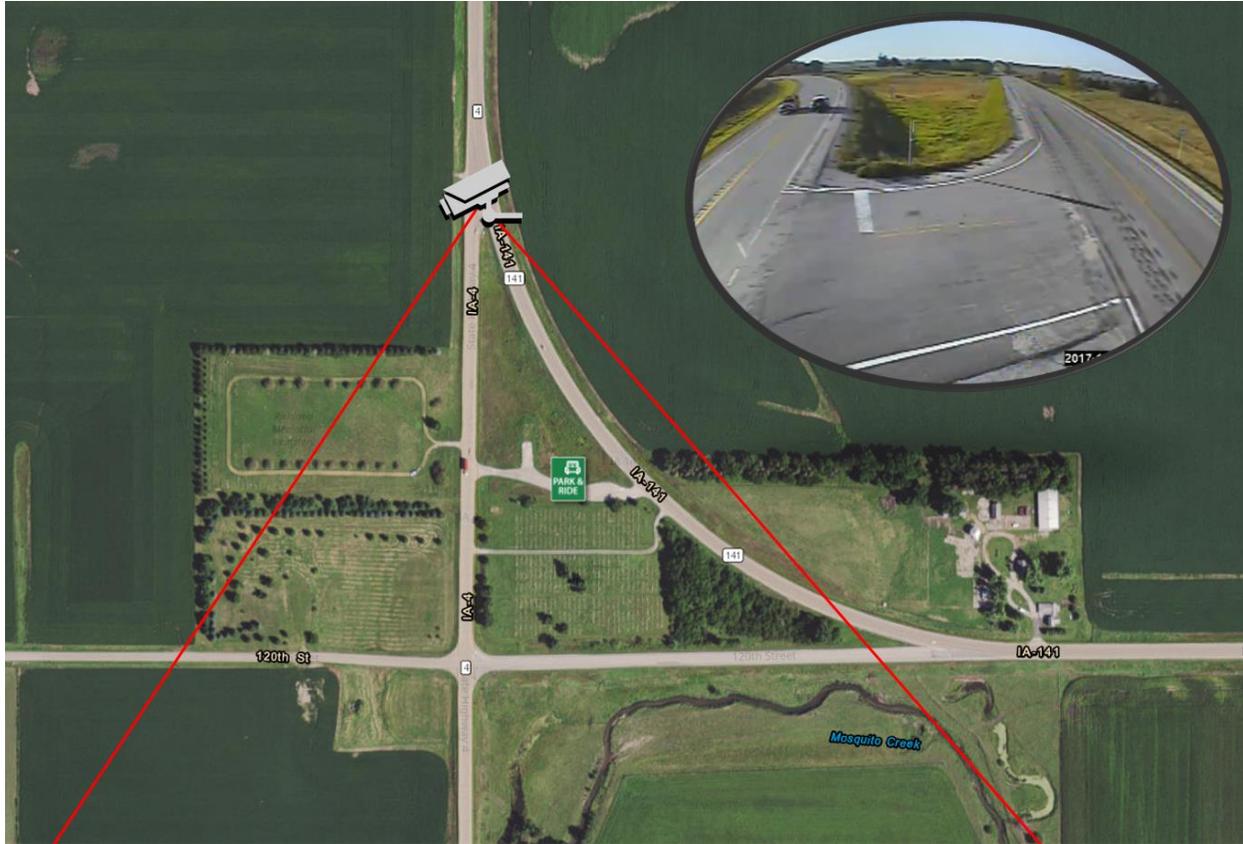


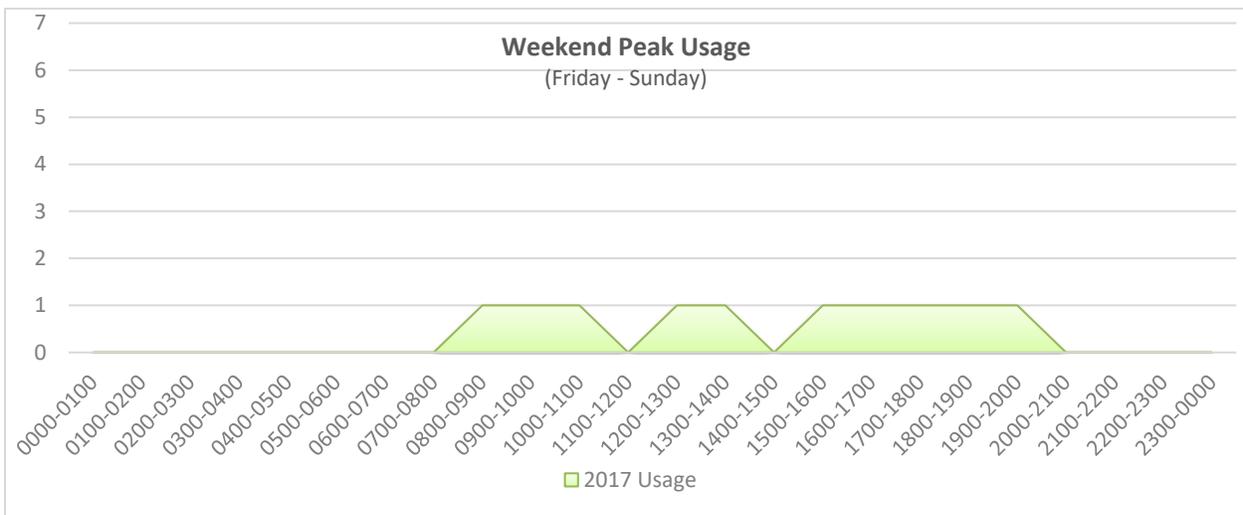
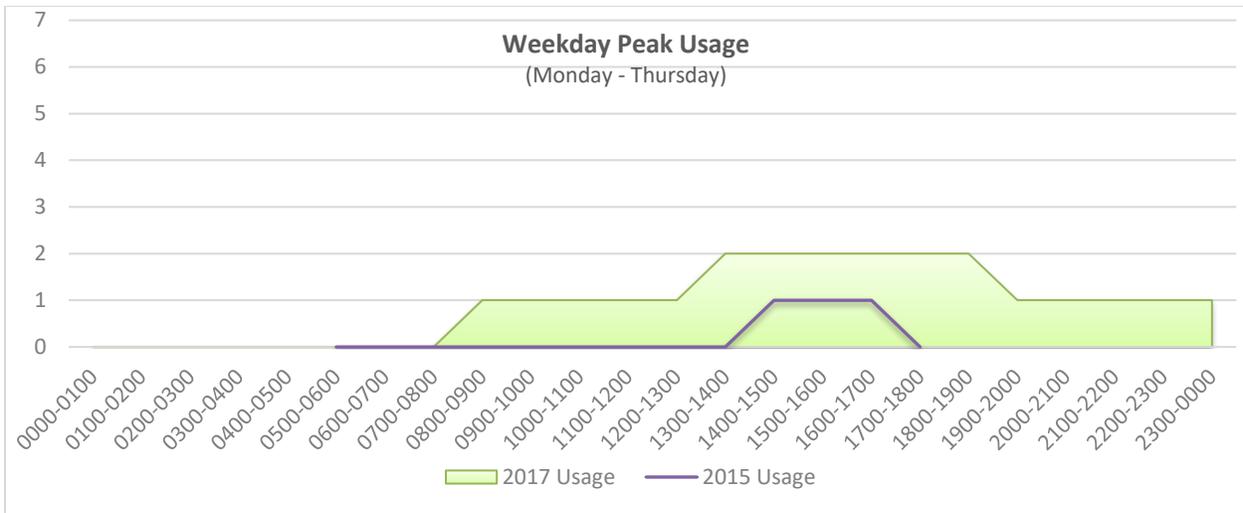
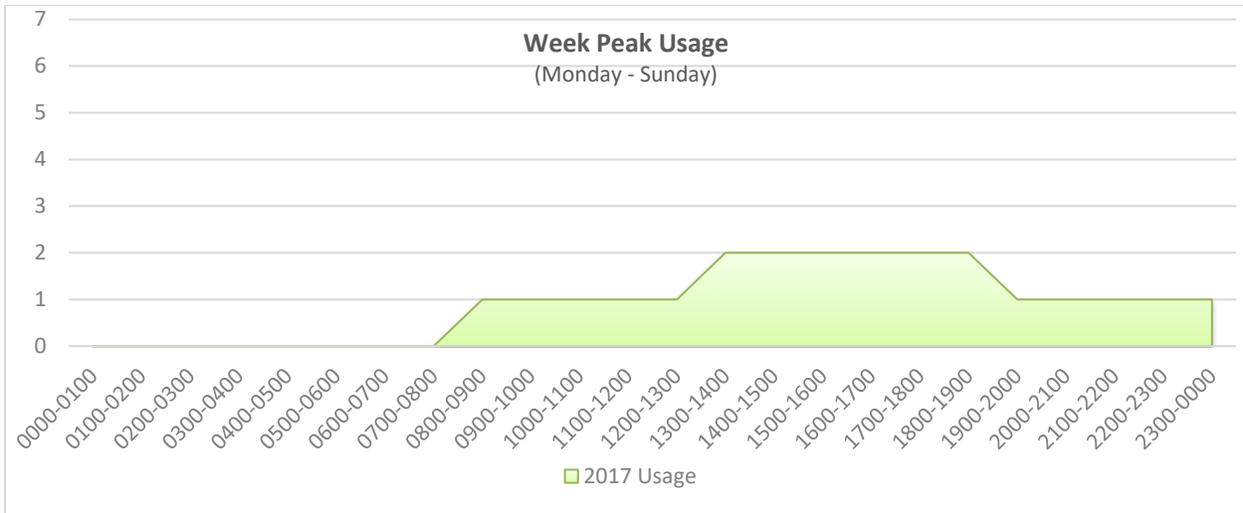
U.S. 34 and Quail Ave	
Park and Ride ID:	8801
County:	Union
Area (ft ² approx.):	17,500
Surface Type:	Concrete
Estimated Spaces:	14
Counts:	7/27/2015 – 7/30/2015 (manual)
	10/19/2017–10/25/2017 (Miovision)





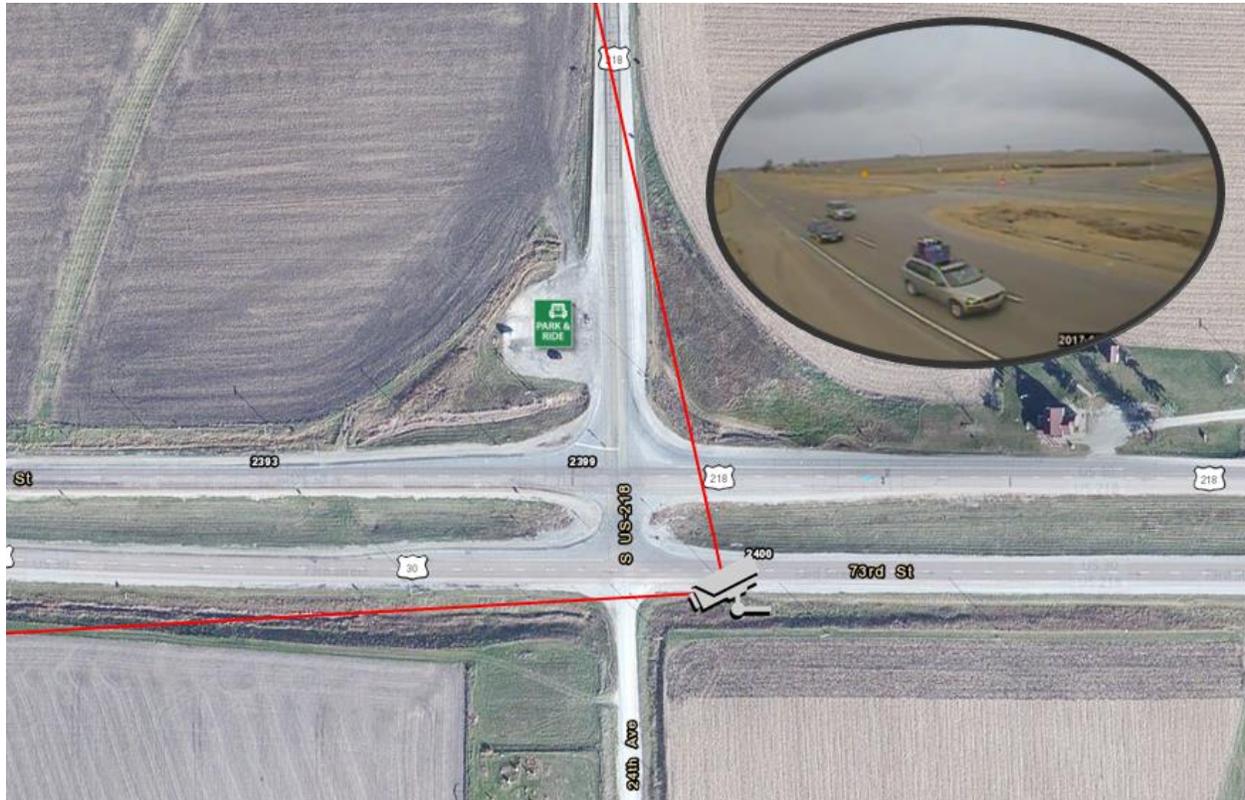
IA 4 and IA 141	
Park and Ride ID:	8801
County:	Union
Area (ft ² approx.):	16,300
Surface Type:	Gravel
Estimated Spaces:	15
Counts:	7/27/2015 – 7/30/2015 (manual)
	10/19/2017–10/25/2017 (Miovision)

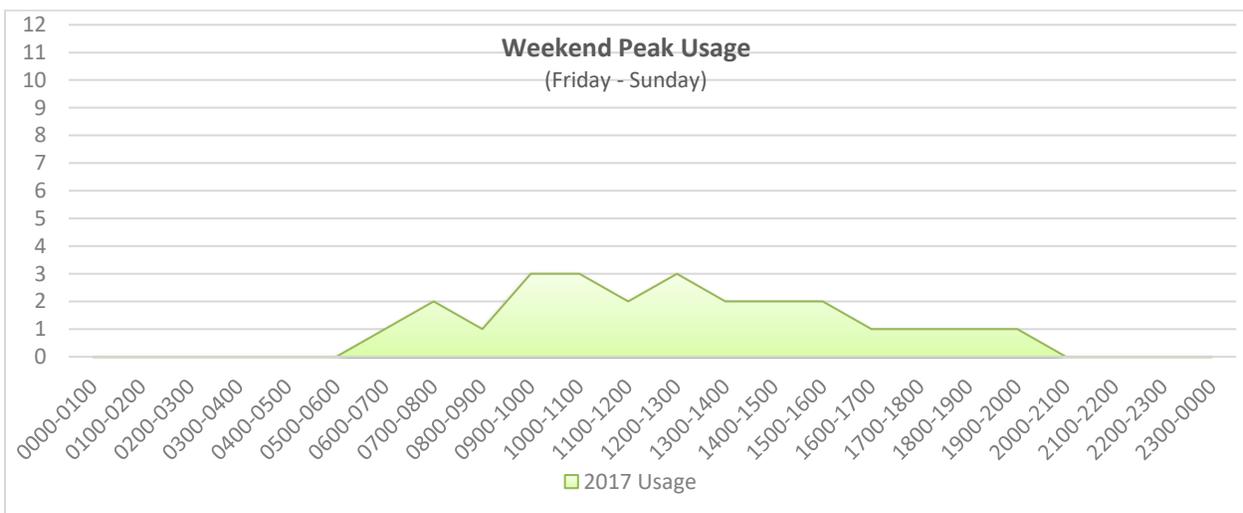
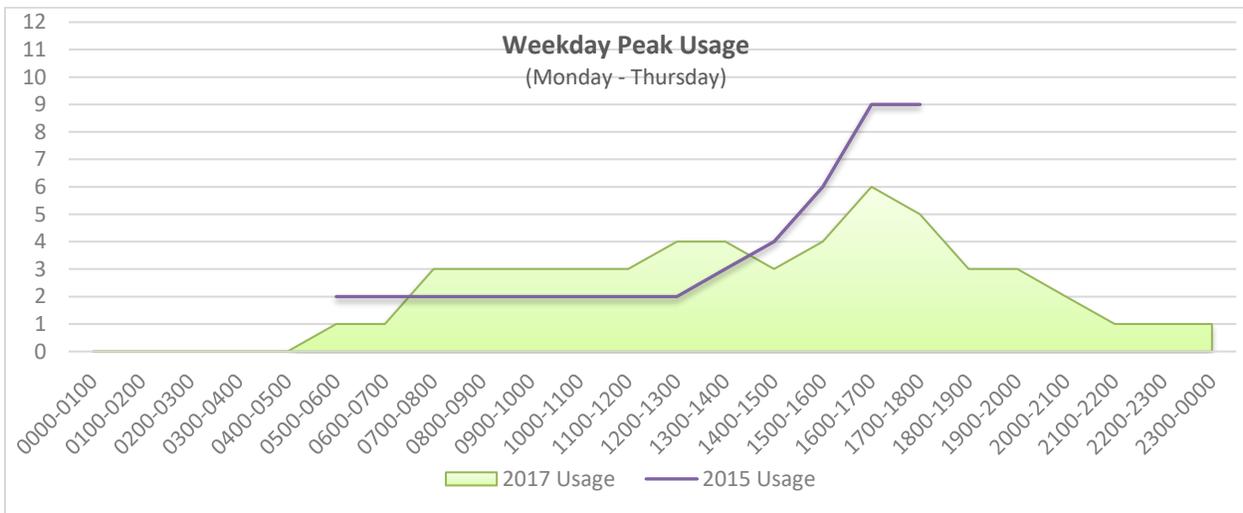
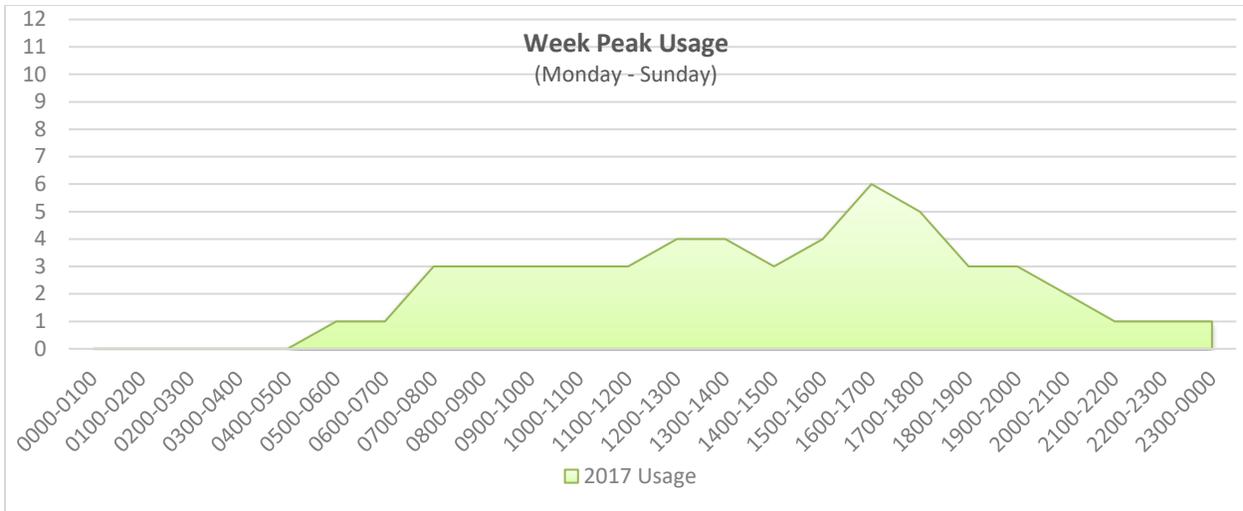




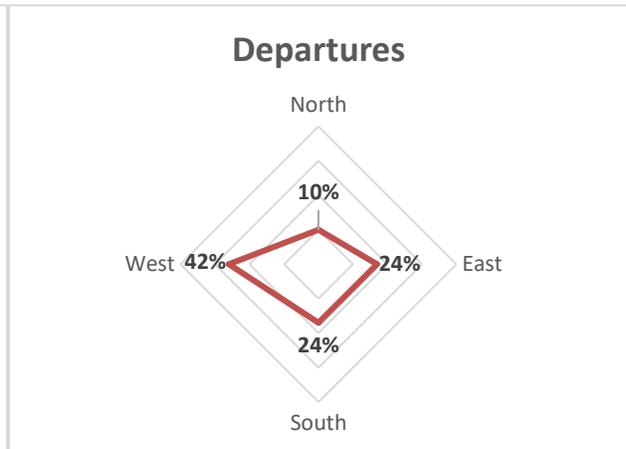
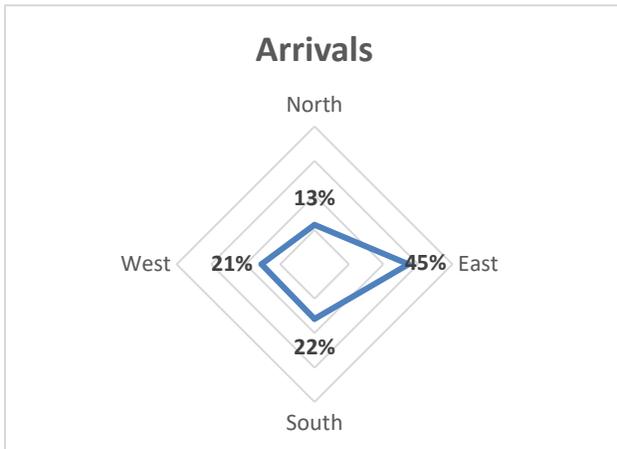
District 6

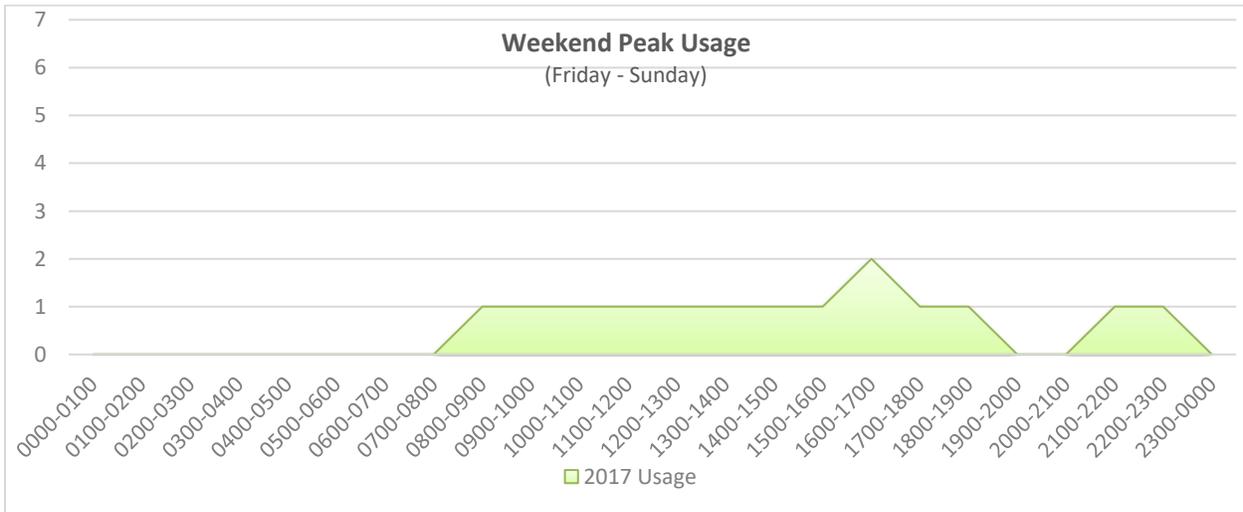
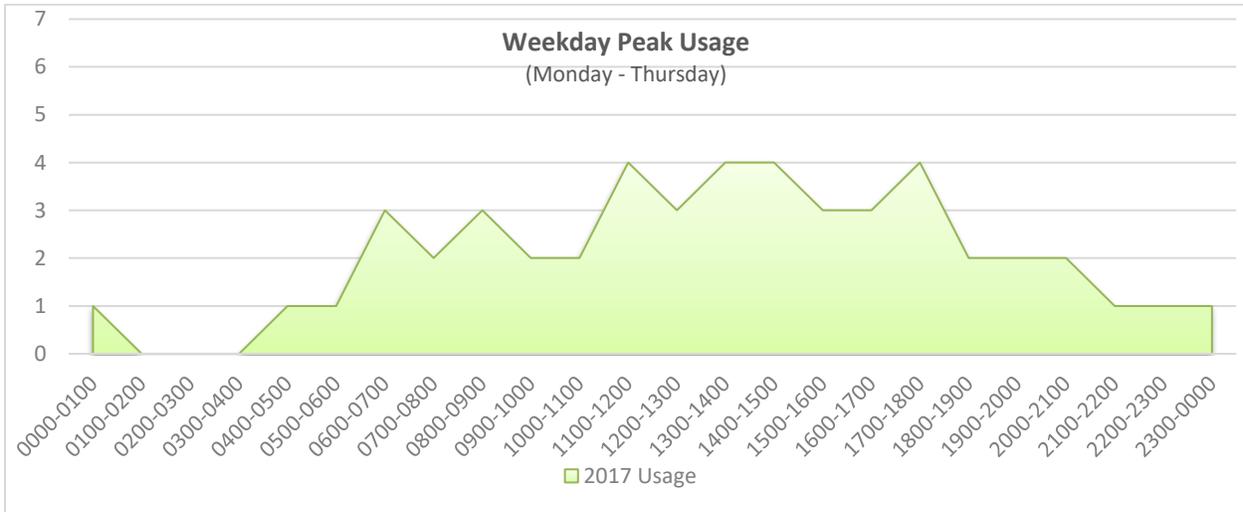
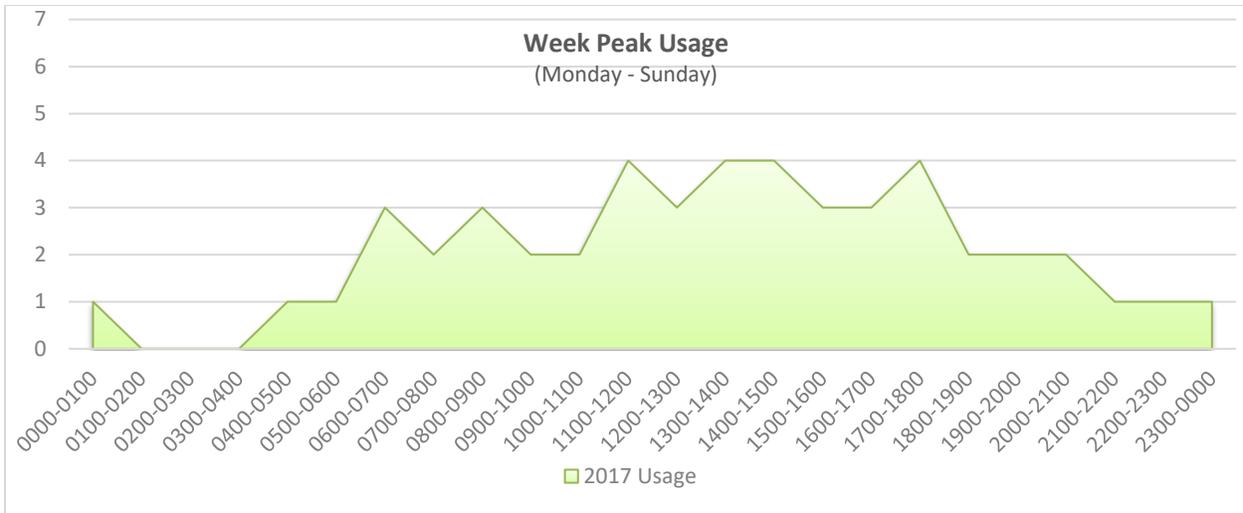
U.S. 30 and U.S. 218	
Park and Ride ID:	602
County:	Benton
Area (ft ² approx.):	14,600
Surface Type:	Gravel
Estimated Spaces:	35
Counts:	7/20/2015 – 7/23/2015 (manual)
	2/28/2017 – 3/6/2017 (Miovision)



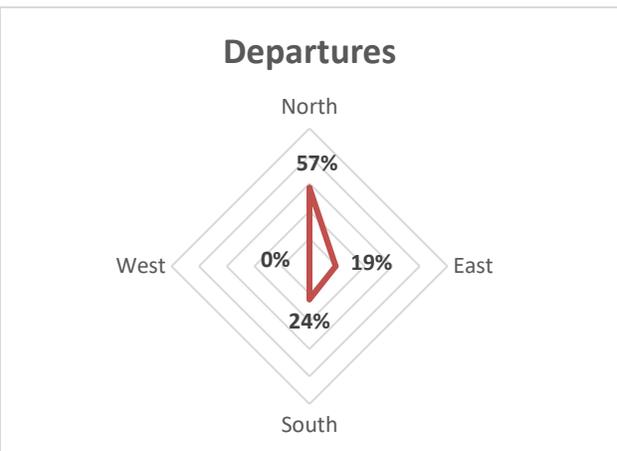
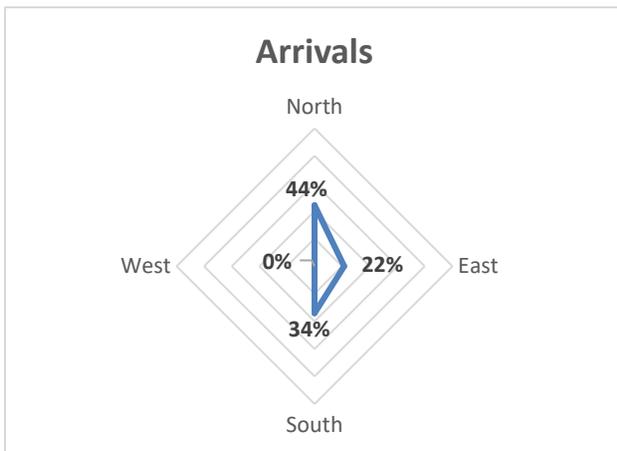


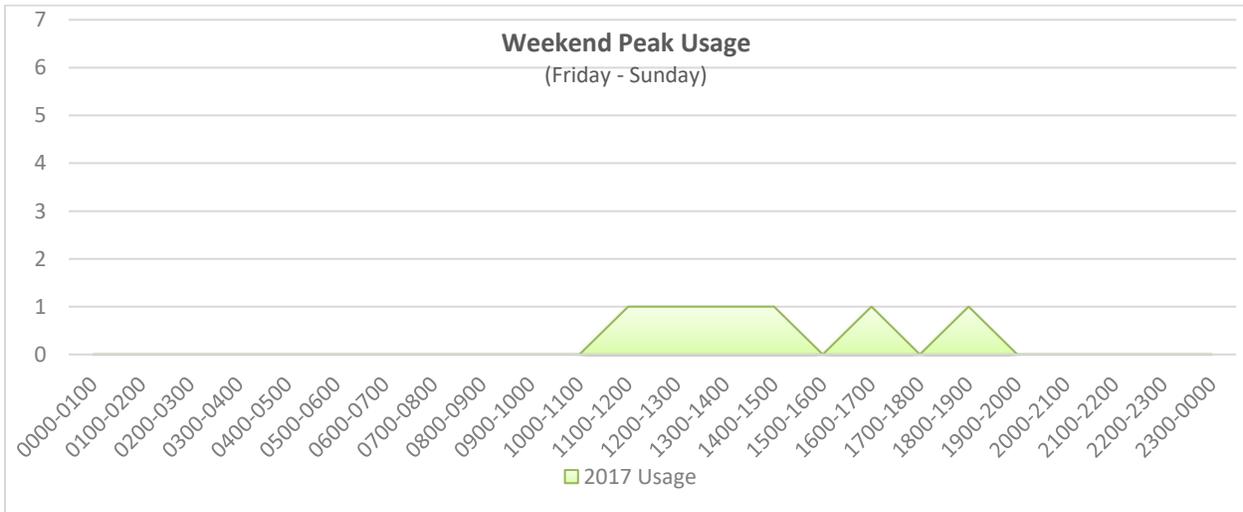
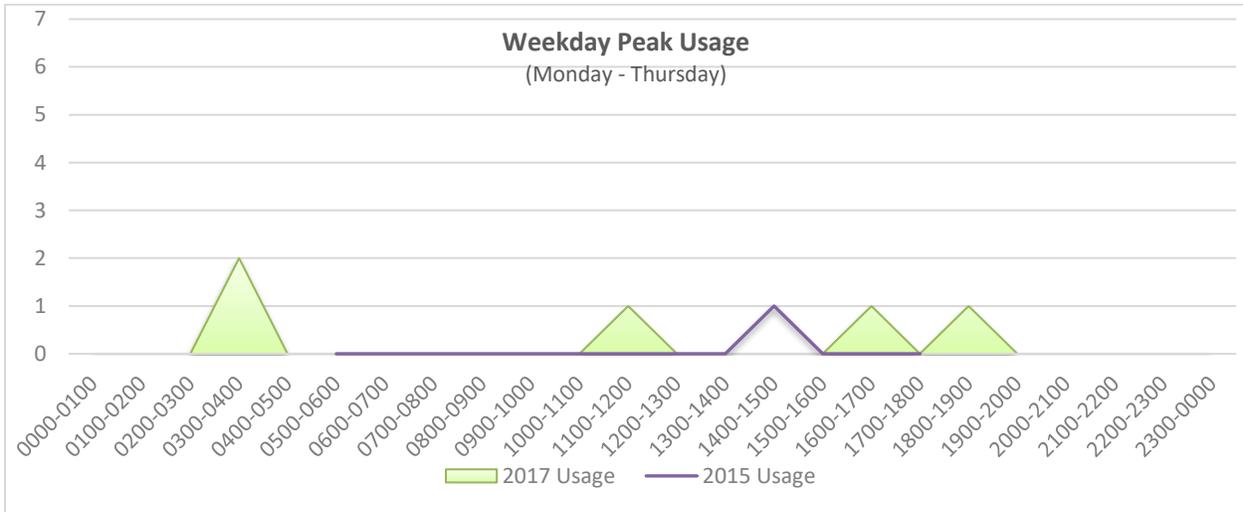
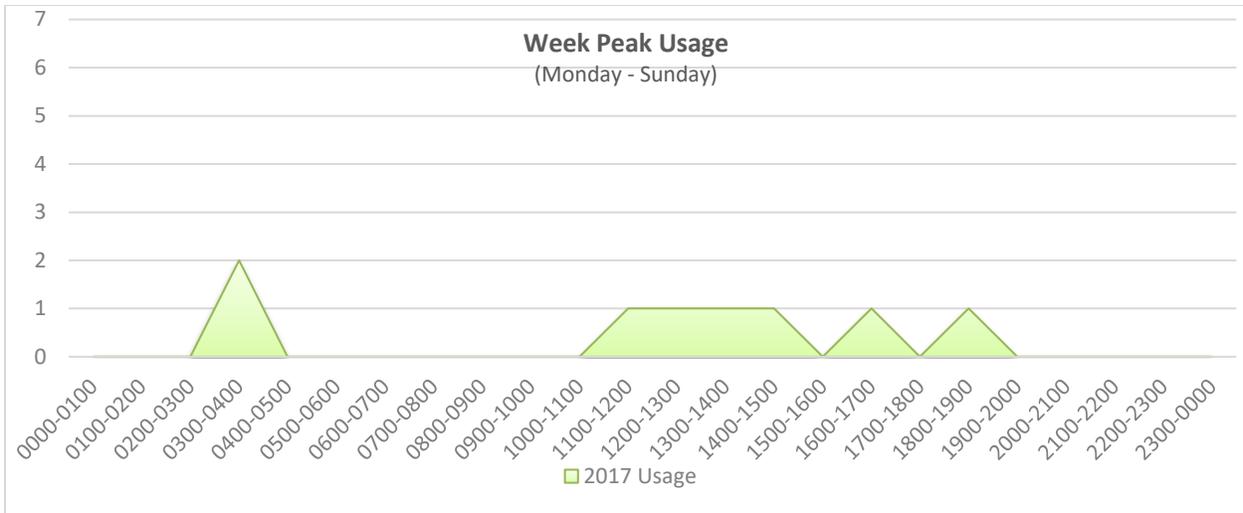
U.S. 30 and V66	
Park and Ride ID:	603
County:	Benton
Area (ft ² approx.):	18,000
Surface Type:	Gravel
Estimated Spaces:	50
Counts:	3/8/2017 – 3/14/2017 (Miovision)



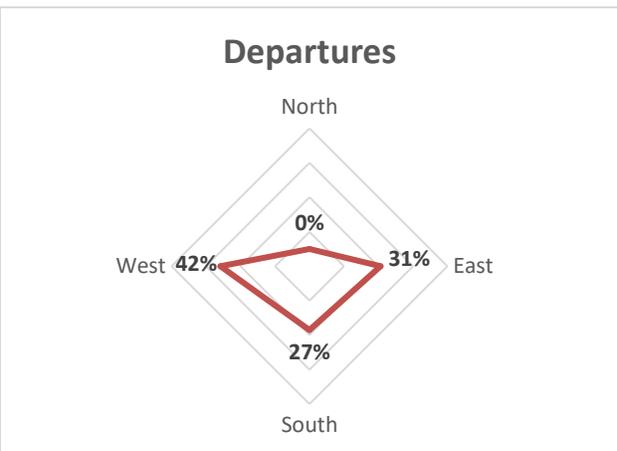
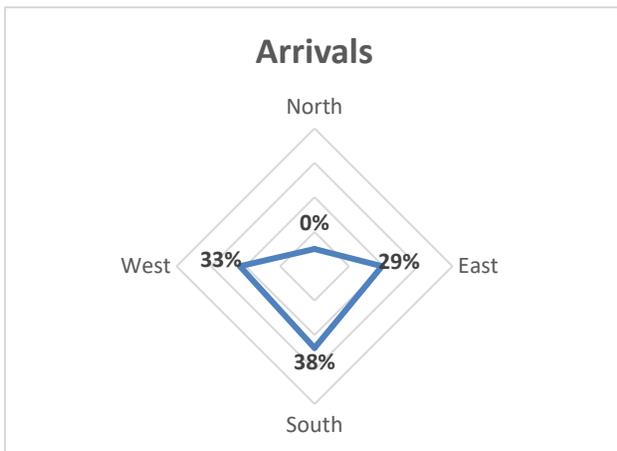


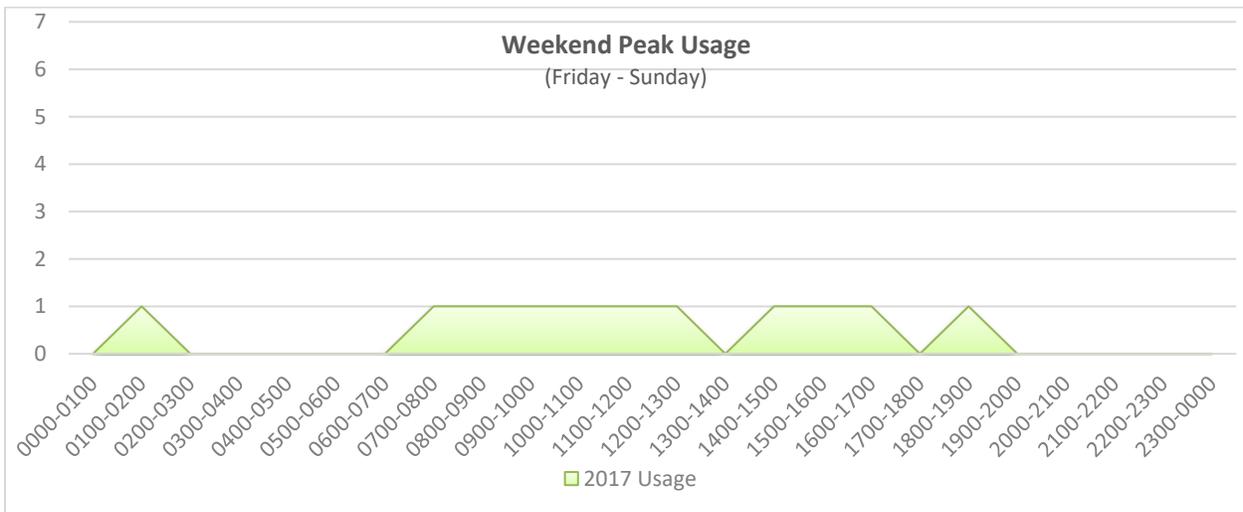
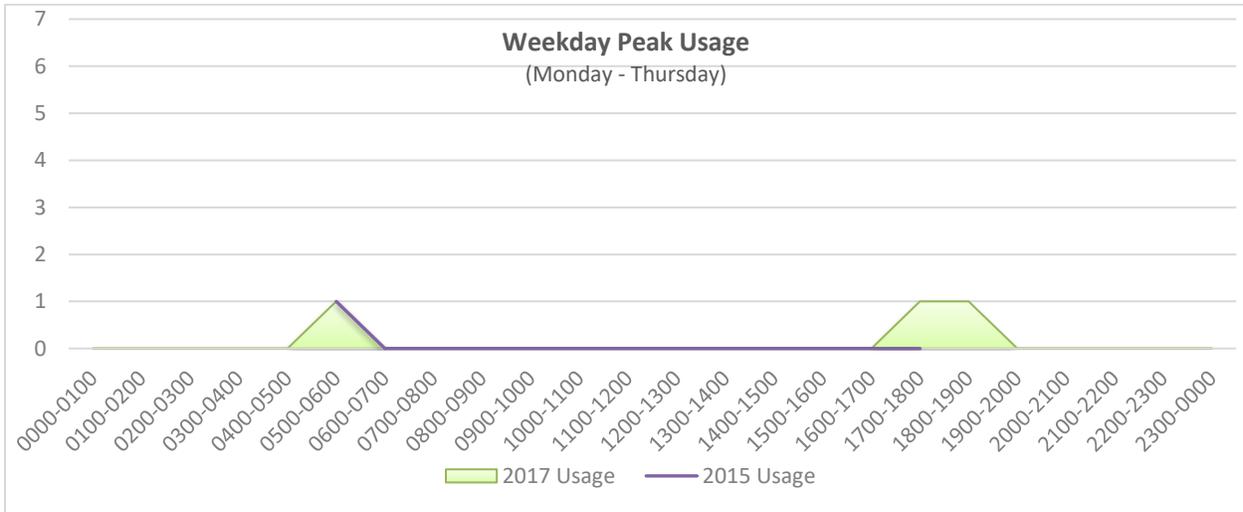
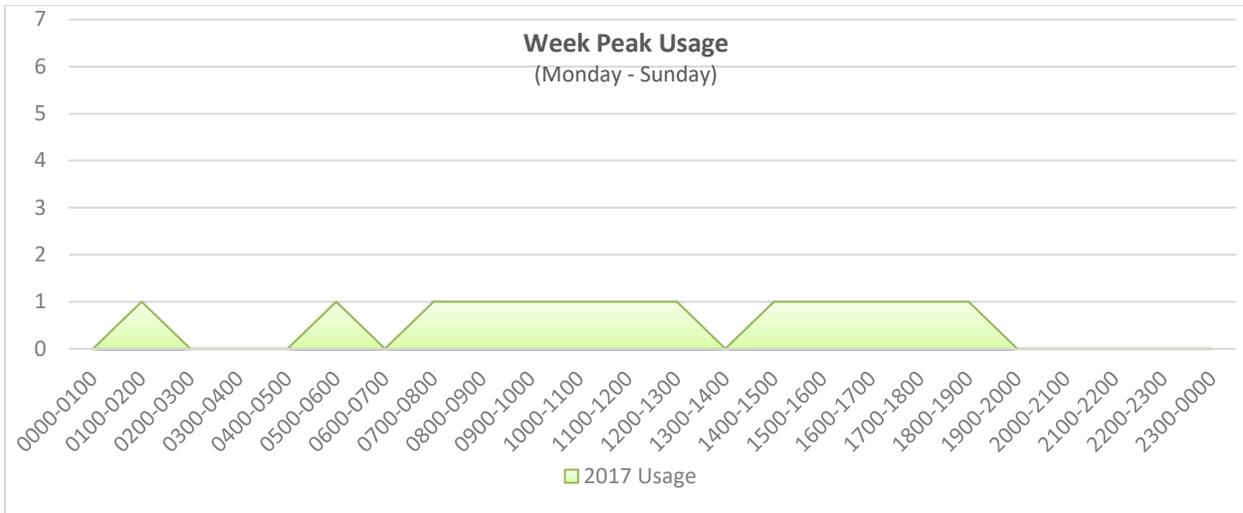
IA 21 and IA 212	
Park and Ride ID:	4801
County:	Iowa
Area (ft ² approx.):	13,000
Surface Type:	Gravel
Estimated Spaces:	19
Counts:	7/20/2015 – 7/23/2015 (manual)
	3/28/2017 – 4/3/2017 (Miovision)



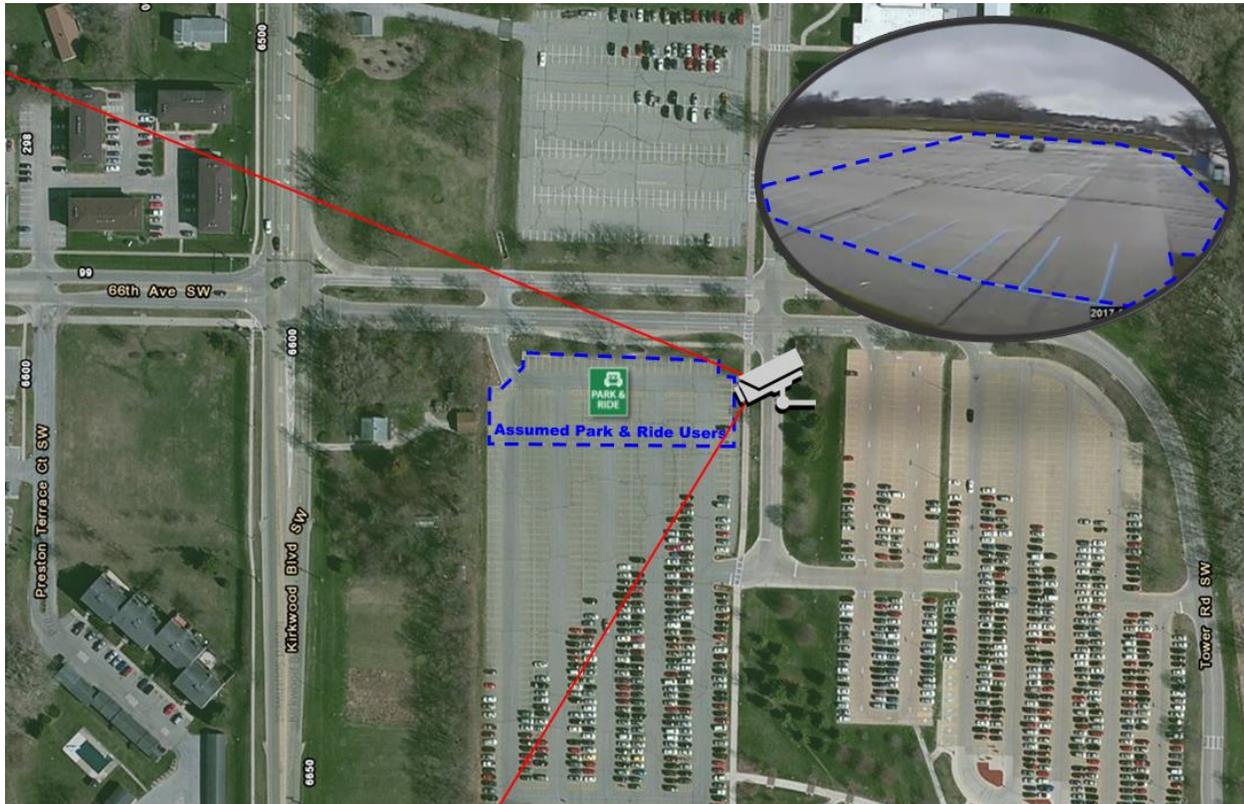


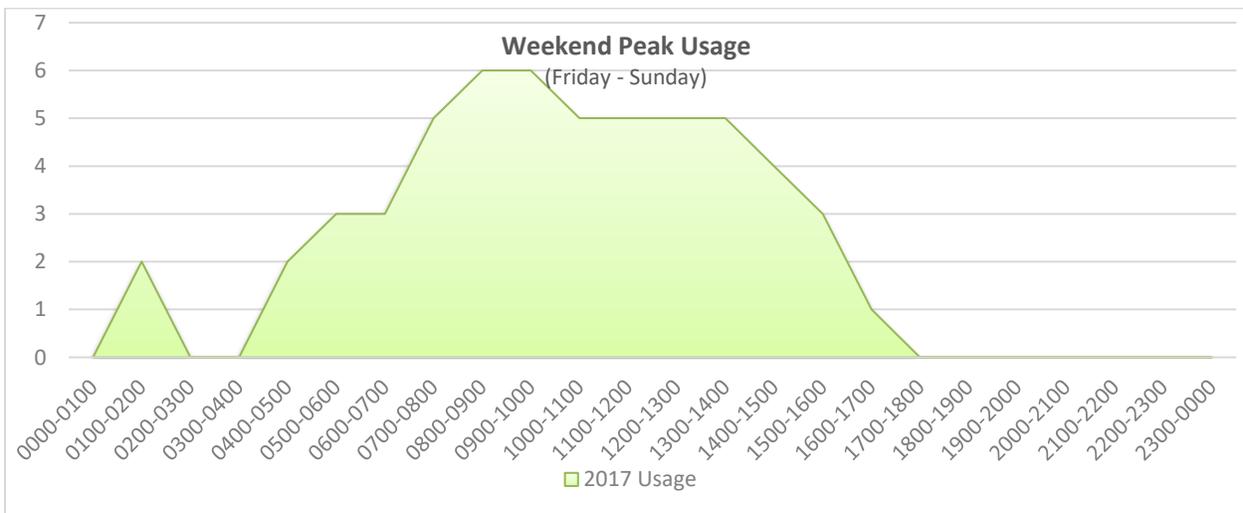
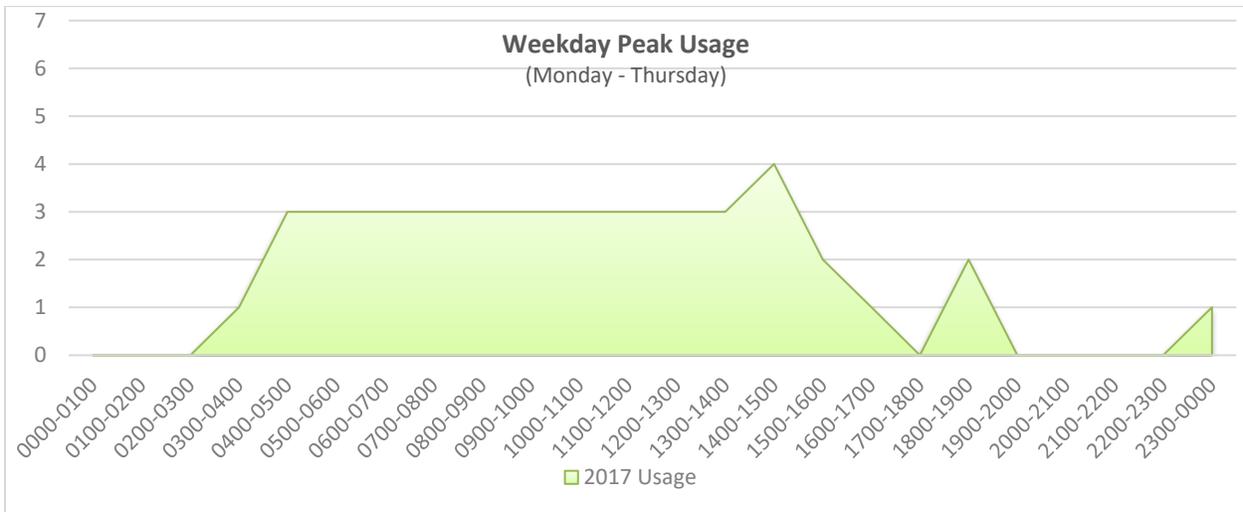
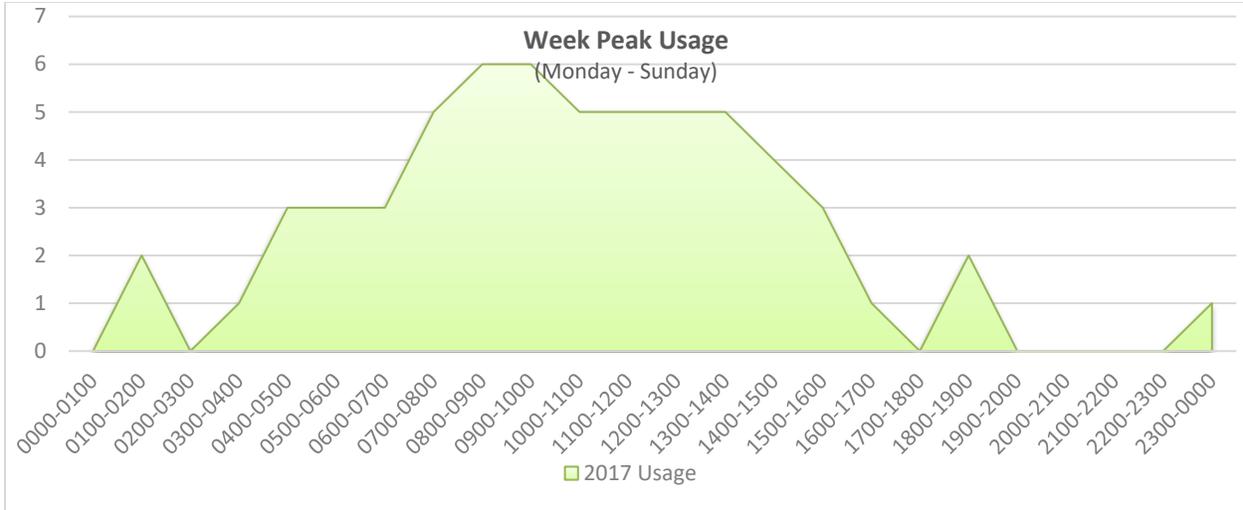
U.S. 6 and V77	
Park and Ride ID:	4802
County:	Iowa
Area (ft ² approx.):	4,400
Surface Type:	Gravel
Estimated Spaces:	14
Counts:	7/20/2015 – 7/23/2015 (manual)
	3/28/2017 – 4/3/2017 (Miovision)





Kirkwood Blvd SW and 66 th Ave SW	
Park and Ride ID:	5703
County:	Linn
Area (ft ² approx.):	25,000
Surface Type:	Concrete
Estimated Spaces:	125
Counts:	3/28/2017 – 4/3/2017 (Miovision)





For more information, contact:
Iowa Department of Transportation
Office of Systems Planning
800 Lincoln Way
Ames, IA 50010
Phone: 515-239-1664
Fax: 515-233-7857

Or visit us on the web at:

<https://iowadot.gov/parkride/park-and-ride-home>