

McLean County

Area EMS System



EMS System Data Report

2019-2020



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Notes

The data that is shown here is collected from the National Emergency Medical Services Information System (NEMSIS). The data collected by NEMSIS is required for all EMS agencies within Illinois. Due to sheer amount of data, how information is reported or tagged, some data may not be fully complete. We have done our best to ensure that the data being presented is as close to complete and accurate as possible. Based on the number of reports uploaded to the NEMSIS system, we have a high degree of certainty that any missing data is insignificant enough not to sway the overall outcomes or the information being extracted for this document.

Calls can be coded various ways dependent on provider impression. For example, a mental health call could be coded as mental health, overdose, alcohol intoxication, traumatic injury, self-harm, cardiac arrest, anxiety or respiratory dependent on what the provider thinks the main issue maybe. We must work through various levels of data to extract the most accurate reflection of what truly is happening.

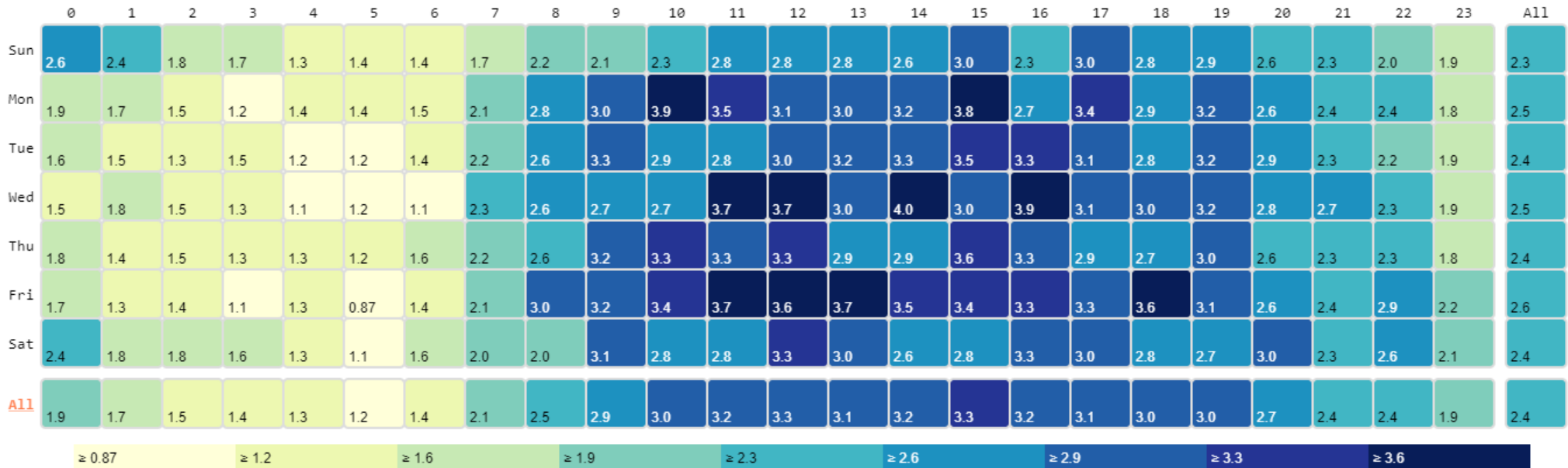
This data is a general overview. The data can be drilled down further, but to keep the information concise, we kept the data broad for providers and agencies to review.

Further questions about this data can be directed to Travis Wilson at twilson@mcleancountyems.org.

Response Data

Overall Response

Demand Analysis Heat Map (Mean)
2019-Jul-01 to 2020-Jun-30



N=21,500

Most frequent time of day for a call is between 1200-1500

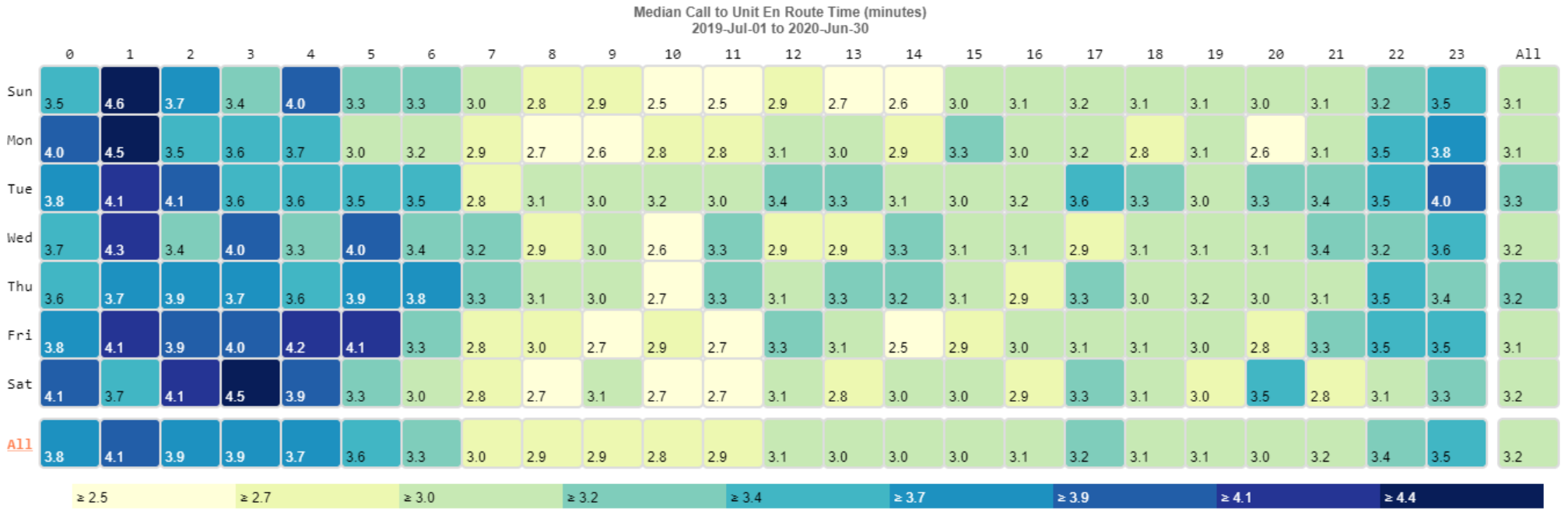
All days of the week are statistically equal in responses

Wednesdays at 1400 have the highest frequency of calls

Due to only covering portions of Woodford, Tazewell and LasSalle counties, their numbers were not included in the chart to the right as they would not be fully accurate. This is only for this specific chart. All other data includes all of our EMS system agencies.

State	County	Event Count Total	Total Count Per 10k Population	Population
IL	Mclean	17,173	993.65	172,828
IL	De Witt	1,850	1173.19	15,769
IL	Putnam	235	409.41	5,740

Dispatch to EnRoute (Median Time)

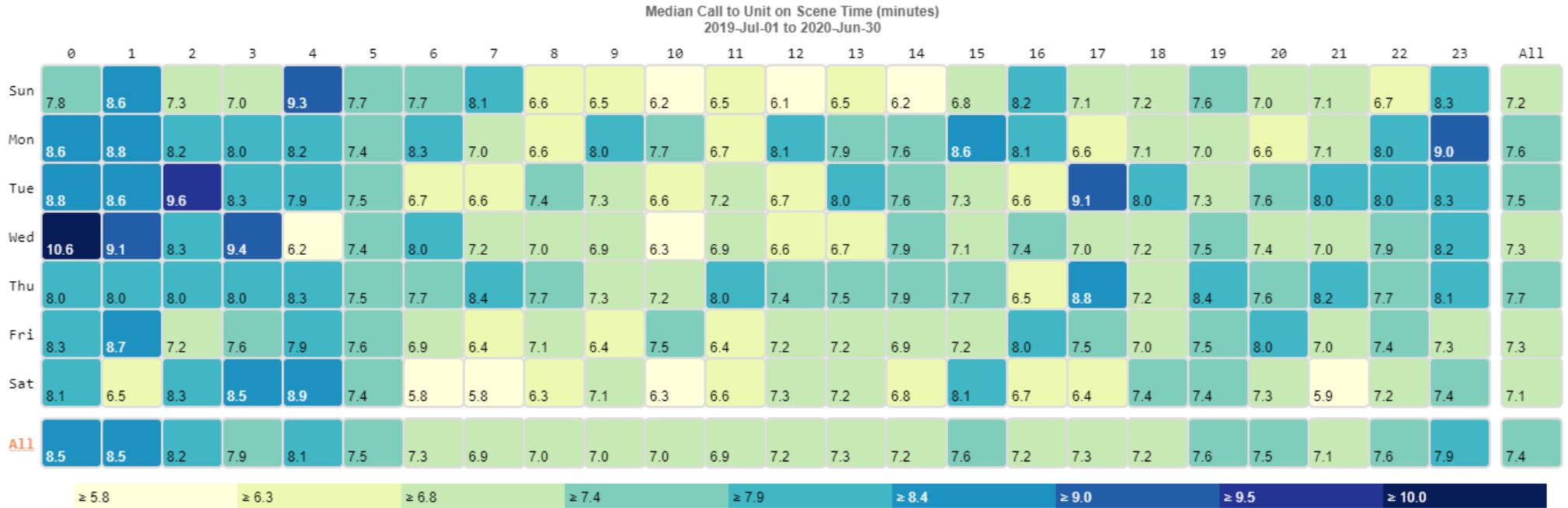


Slowest Response – 0100 on Sundays – 4.6 minutes

Fastest Response – 1400 on Fridays – 2.5 minutes

As a note, this includes paid agencies who stations are staffed 24/7 and volunteer agencies who respond from home.

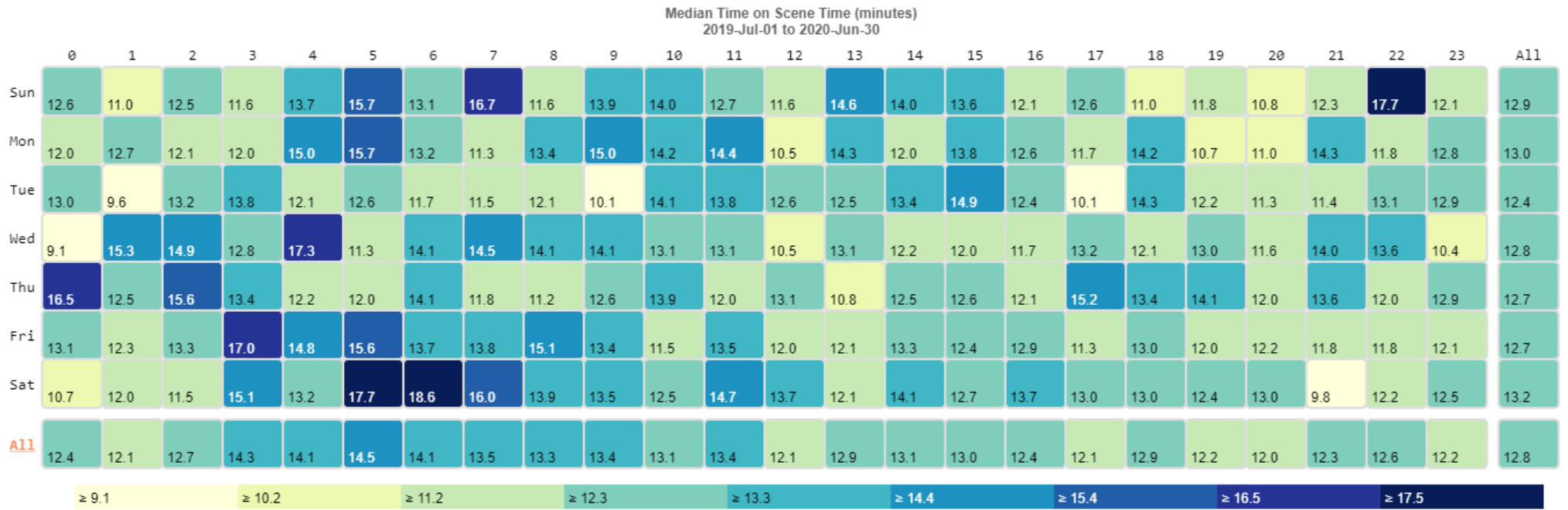
Dispatch to On Scene (Median)



Slowest median response – 0000 on Wednesday – 10.6 minutes

Fastest median response – 0600-0700 on Saturday – 5.8 minutes

Time on Scene (Median)

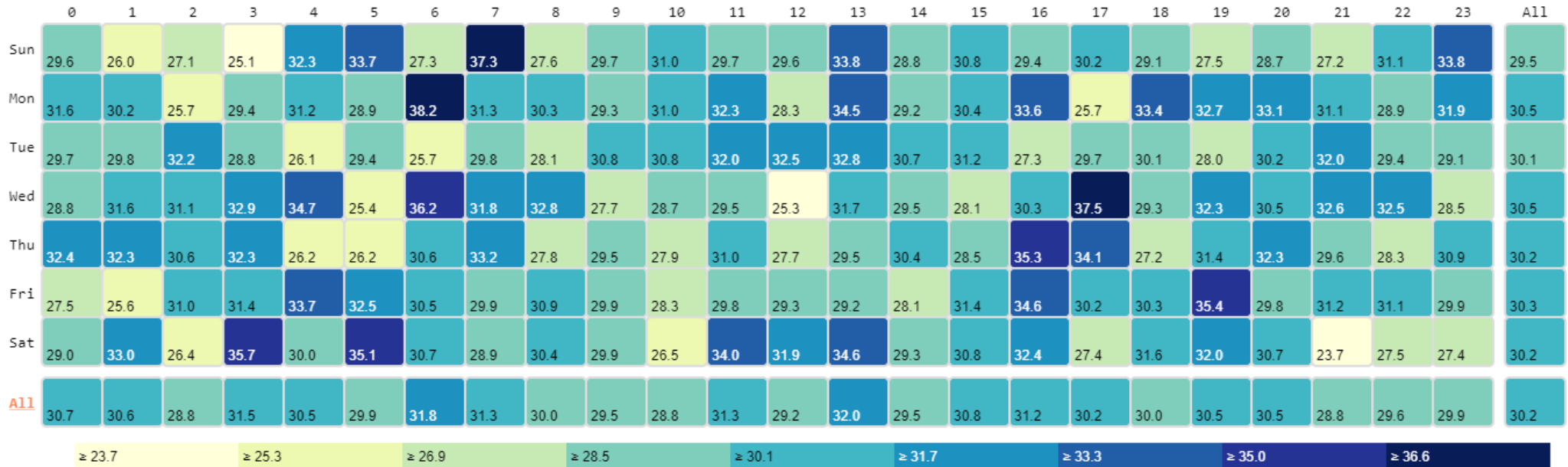


Shortest median scene time – 9.1 minutes on Wednesdays at 0000

Longest median scene time – 18.6 minutes on Saturdays at 0600

Call Received to at Destination (Median)

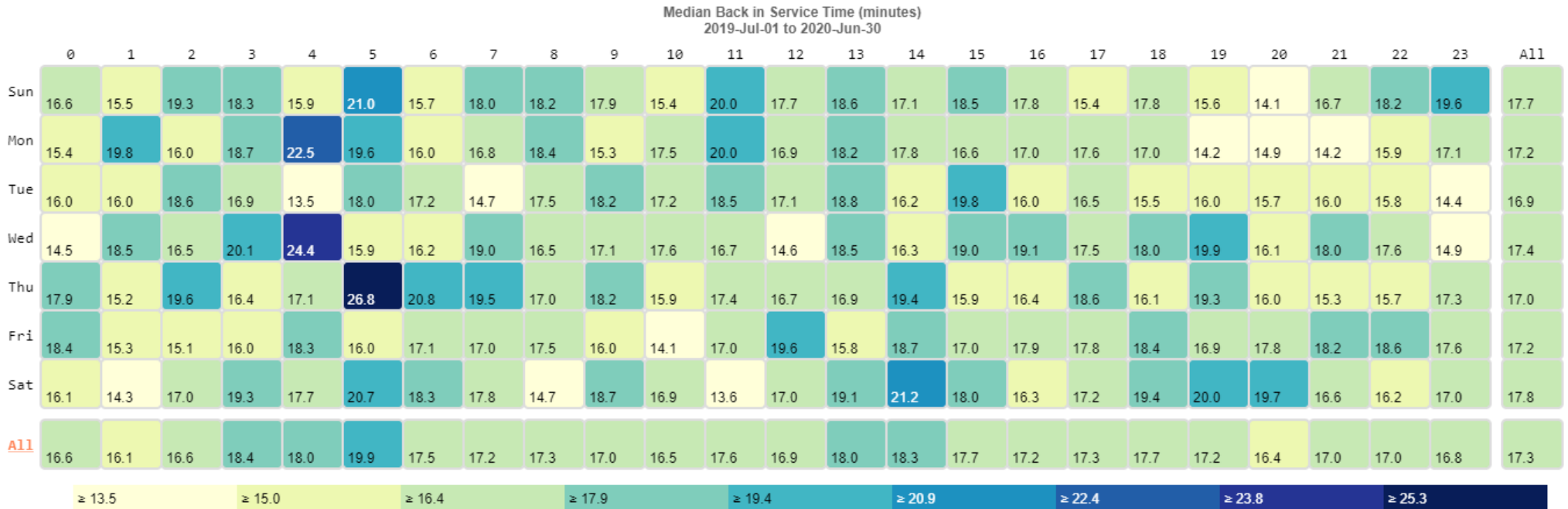
Median PSAP Call to Arrival at Destination Time (minutes)
2019-Jul-01 to 2020-Jun-30



Shortest Median Time – 23.7 minutes on Saturdays at 2100

Longest Median Time – 38.2 minutes on Monday's at 0600

Time at Hospital (Median)

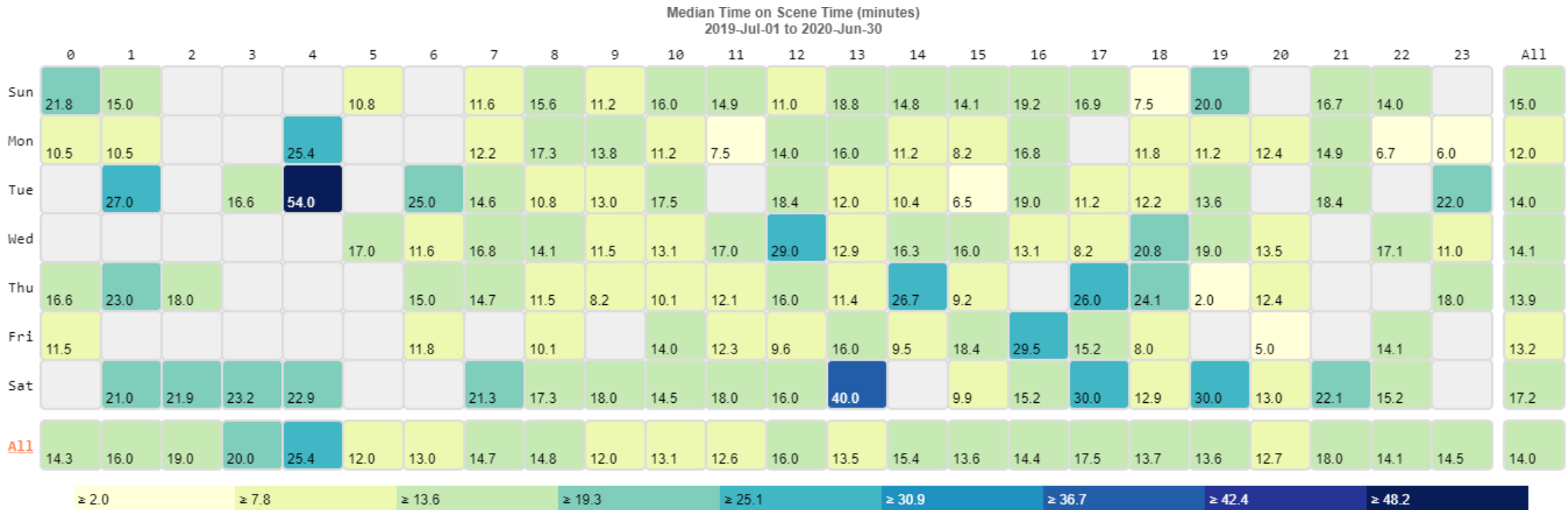


Slowest Median Turnaround Time – 26.8 minutes on Thursdays at 0500

Fastest Median Turnaround Time – 14.1 minutes on Sundays at 2100

Time Sensitive on Scene Times

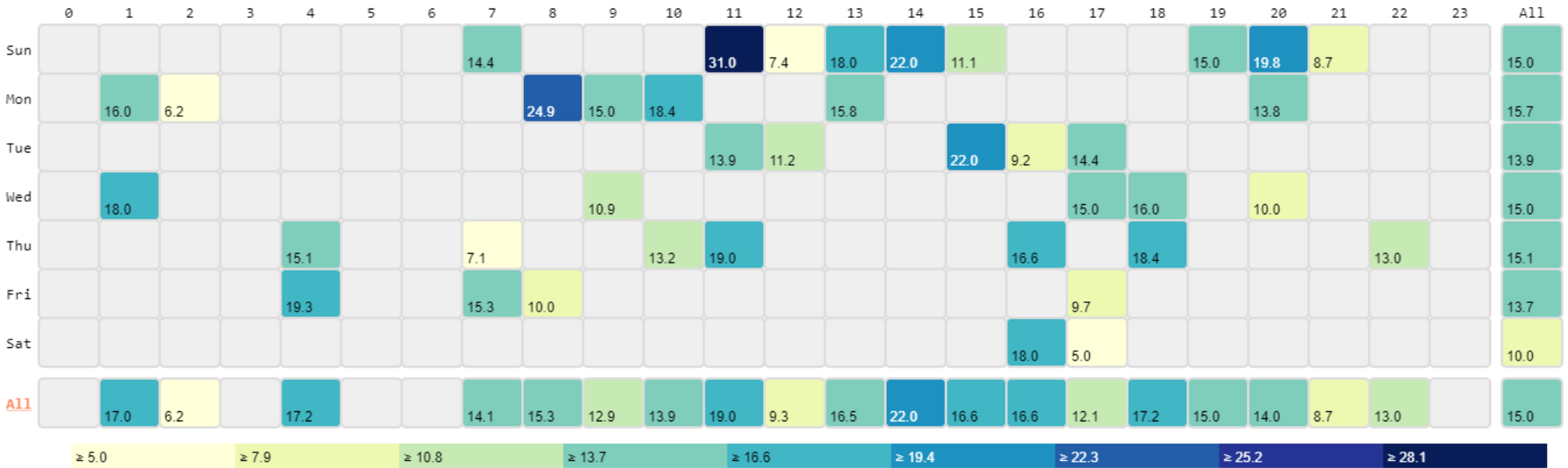
Median on Scene time for Strokes



Median Time – 14.0 minutes

STEMI Median on Scene Time

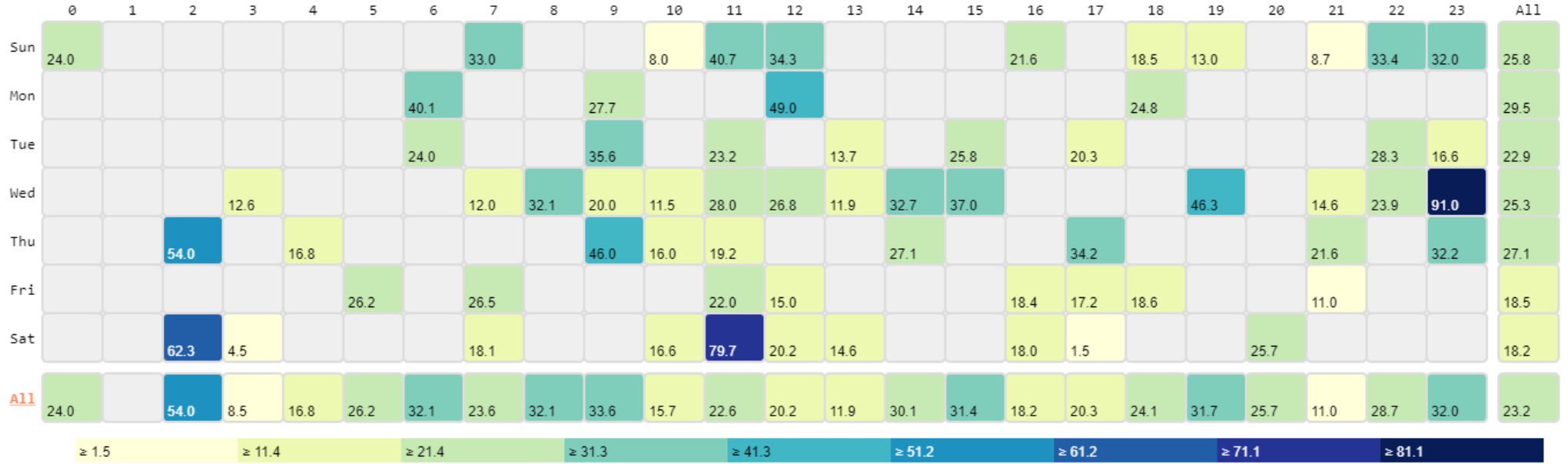
Median Time on Scene Time (minutes)
2019-Jul-01 to 2020-Jun-30



Median Time – 15 minutes

Cardiac Arrest Median Scene Time

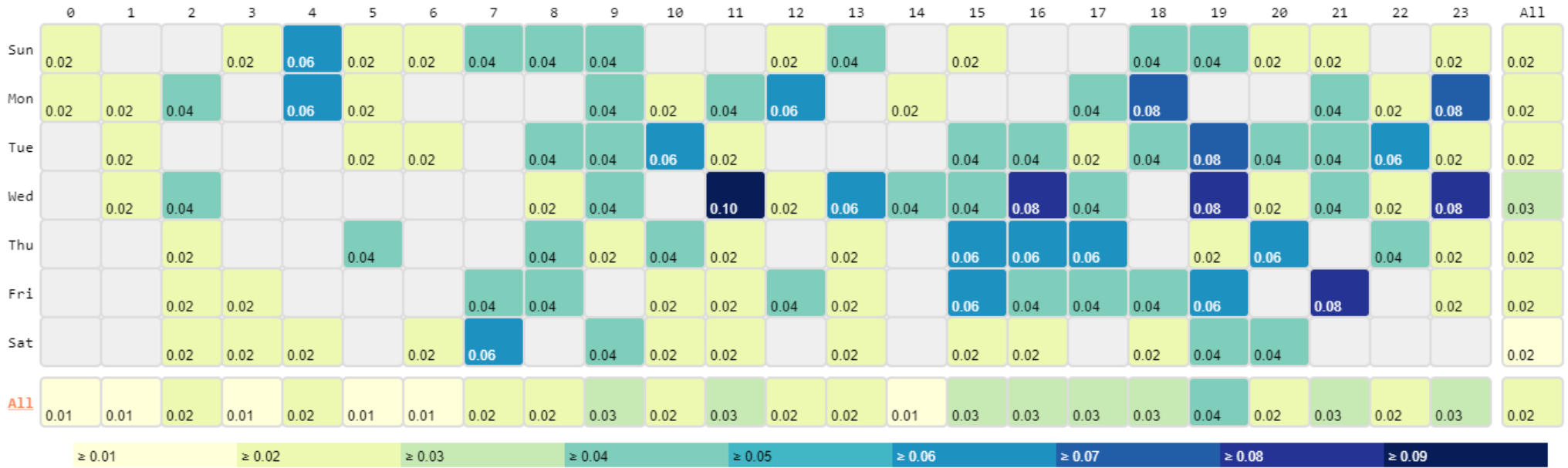
Median Time on Scene Time (minutes)
2019-Jul-01 to 2020-Jun-30



Median on scene time – 23.2 minutes

Call Frequency COVID-19

Demand Analysis Heat Map (Mean)
2019-Jul-01 to 2020-Jun-30



n=194

Between 1500-1900 was the most common time to contact 911 for COVID related symptoms

Wednesday is the most frequent day to contact 911 for COVID related symptoms

Fall Frequency

Demand Analysis Heat Map (Mean)
2019-Jul-01 to 2020-Jun-30

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	All
Sun	0.27	0.33	0.17	0.29	0.17	0.25	0.27	0.40	0.38	0.54	0.29	0.42	0.48	0.56	0.44	0.44	0.42	0.58	0.40	0.58	0.25	0.29	0.29	0.21	0.36
Mon	0.19	0.21	0.21	0.17	0.40	0.26	0.21	0.40	0.60	0.28	0.58	0.58	0.42	0.43	0.53	0.43	0.36	0.40	0.49	0.43	0.25	0.23	0.36	0.19	0.36
Tue	0.19	0.25	0.25	0.21	0.19	0.23	0.23	0.30	0.49	0.49	0.43	0.34	0.42	0.58	0.62	0.58	0.66	0.34	0.43	0.30	0.25	0.26	0.23	0.21	0.35
Wed	0.13	0.21	0.25	0.13	0.10	0.23	0.21	0.52	0.25	0.42	0.37	0.27	0.58	0.40	0.63	0.52	0.54	0.42	0.37	0.37	0.29	0.42	0.35	0.31	0.35
Thu	0.21	0.13	0.15	0.12	0.21	0.17	0.33	0.40	0.33	0.50	0.52	0.48	0.48	0.42	0.23	0.50	0.54	0.37	0.29	0.42	0.33	0.25	0.29	0.21	0.33
Fri	0.21	0.21	0.17	0.10	0.21	0.13	0.25	0.31	0.73	0.58	0.50	0.69	0.62	0.48	0.31	0.56	0.29	0.50	0.50	0.48	0.42	0.17	0.33	0.15	0.37
Sat	0.29	0.15	0.13	0.25	0.17	0.17	0.23	0.58	0.40	0.62	0.33	0.44	0.54	0.40	0.38	0.42	0.50	0.38	0.48	0.40	0.31	0.21	0.33	0.25	0.35
All	0.21	0.21	0.19	0.18	0.21	0.21	0.25	0.42	0.46	0.49	0.43	0.46	0.50	0.47	0.45	0.49	0.47	0.43	0.42	0.43	0.30	0.26	0.31	0.22	0.35



n=3,099

Most frequent time of day to have a fall is at 1200.

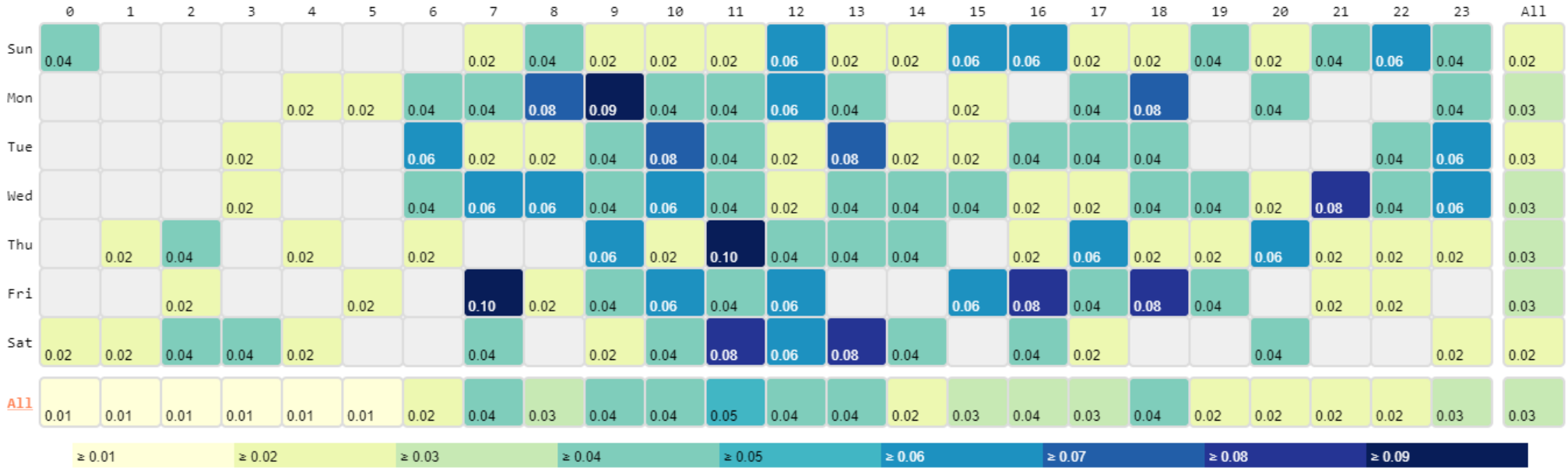
Fridays are the most frequent day to have a fall. However, overall, the days of the week are fairly even.

Patients fall most often on Friday's around 0800.

They are least likely to fall on Wednesdays at 0400.

Cardiac Arrest

Demand Analysis Heat Map (Mean)
2019-Jul-01 to 2020-Jun-30



n=235

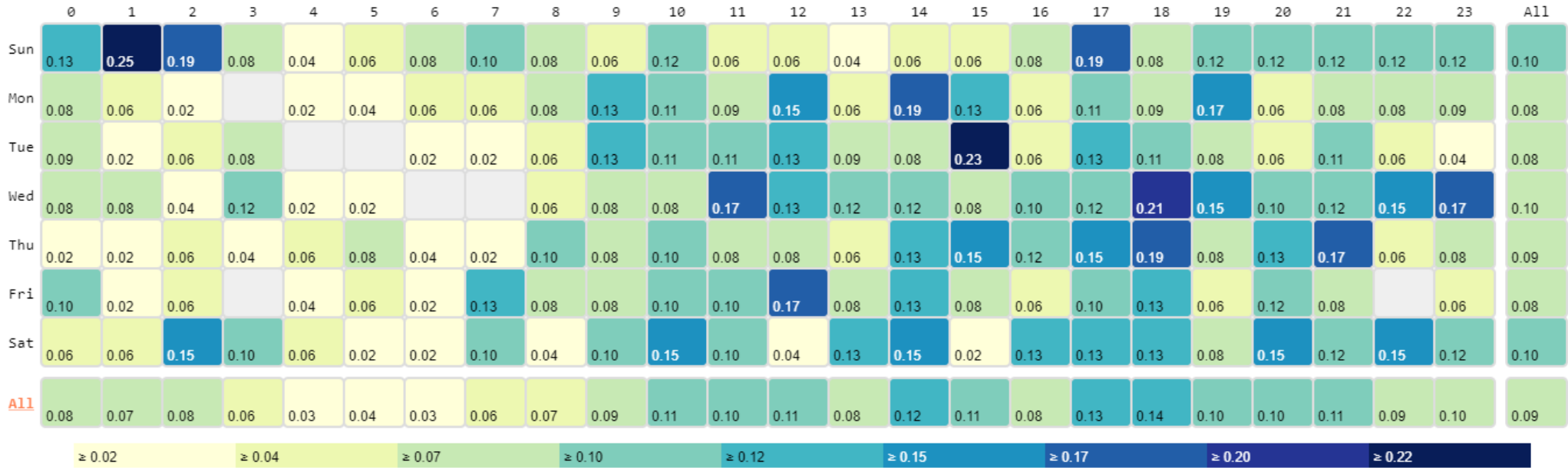
Most frequent time of day to have a cardiac arrest is at 1100.

The days of the week are statically equal in frequency of cardiac arrest

Most cardiac arrest happen between 0700-1300

Overdose

Demand Analysis Heat Map (Mean)
2019-Jul-01 to 2020-Jun-30

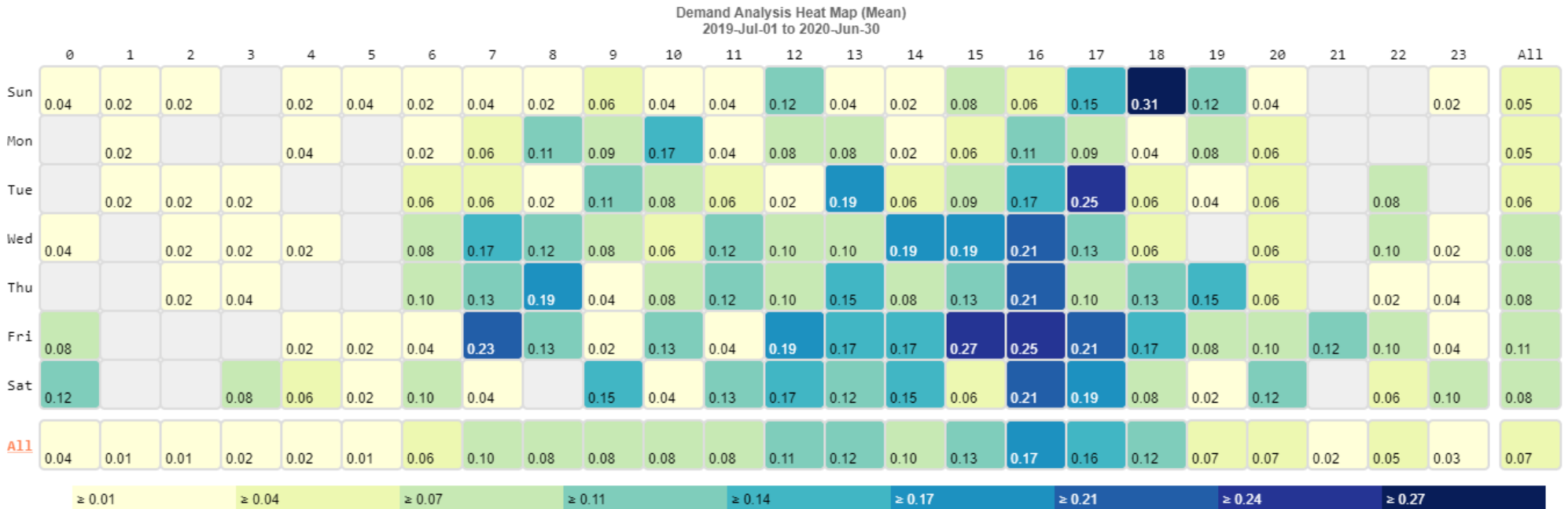


n=770 (these include all overdoses and not just opiate)

Most frequent overdoses happen between 1400-1800

Sunday and Saturday are the most frequent days for overdose

Traffic Accidents



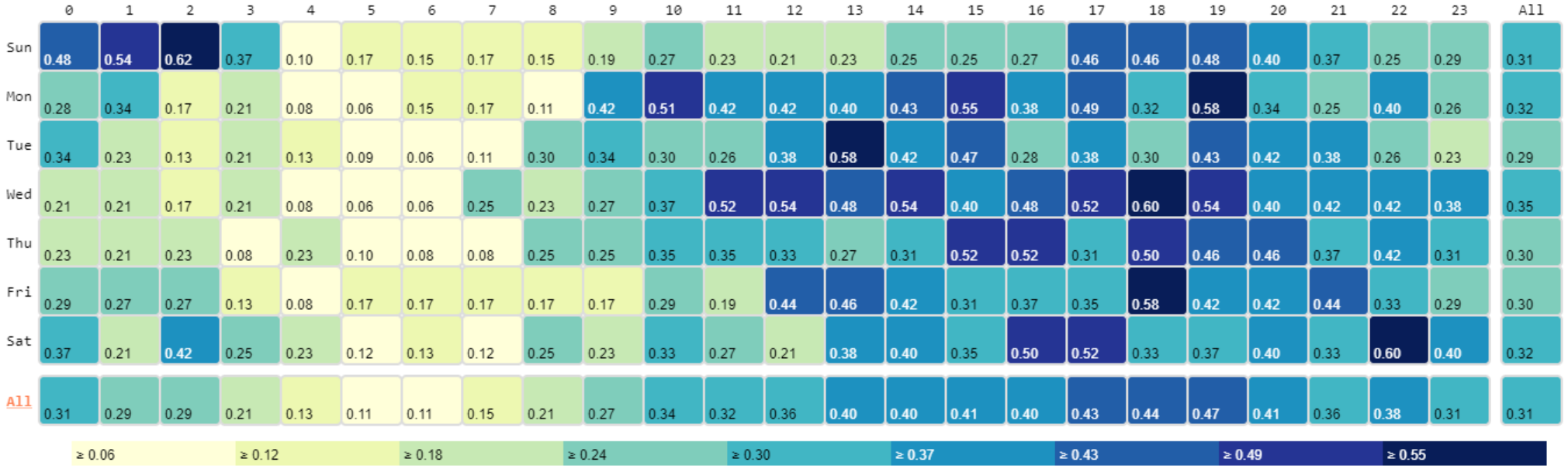
n= 637

Traffic accidents are most likely to occur between 1500-1800

Friday is the most frequent day of the week with accidents

Mental Health

Demand Analysis Heat Map (Mean)
2019-Jul-01 to 2020-Jun-30



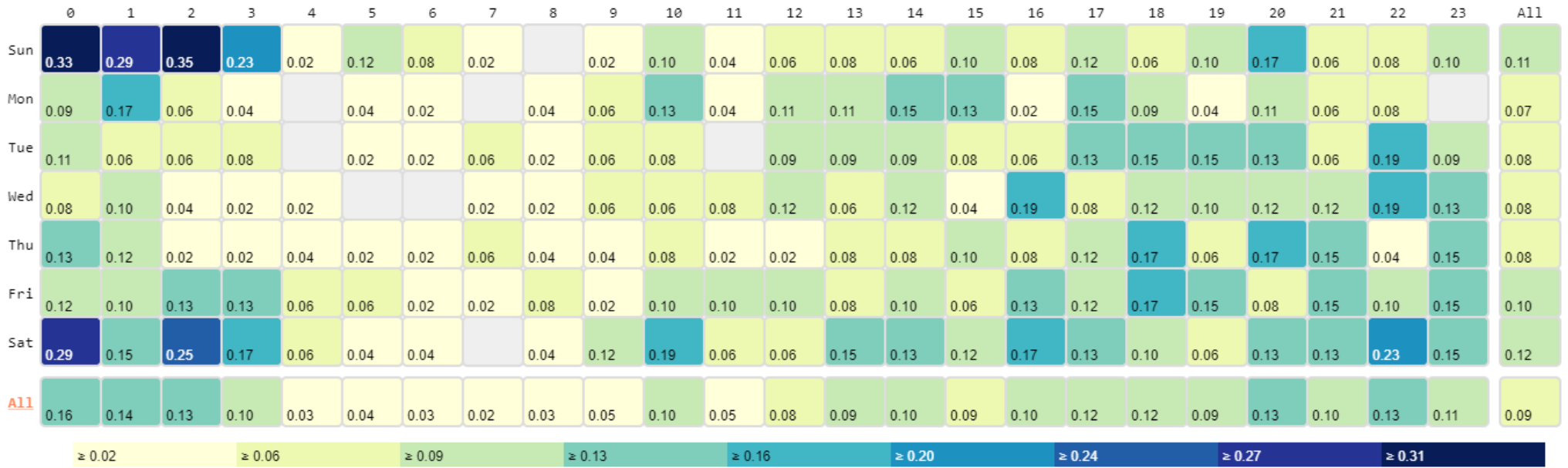
n=2,750

The most frequent time of day for mental health calls are between 1700-1900

Wednesday day has the highest rate of mental health calls; however all days of the week are fairly equal.

Alcohol Intoxication

Demand Analysis Heat Map (Mean)
2019-Jul-01 to 2020-Jun-30



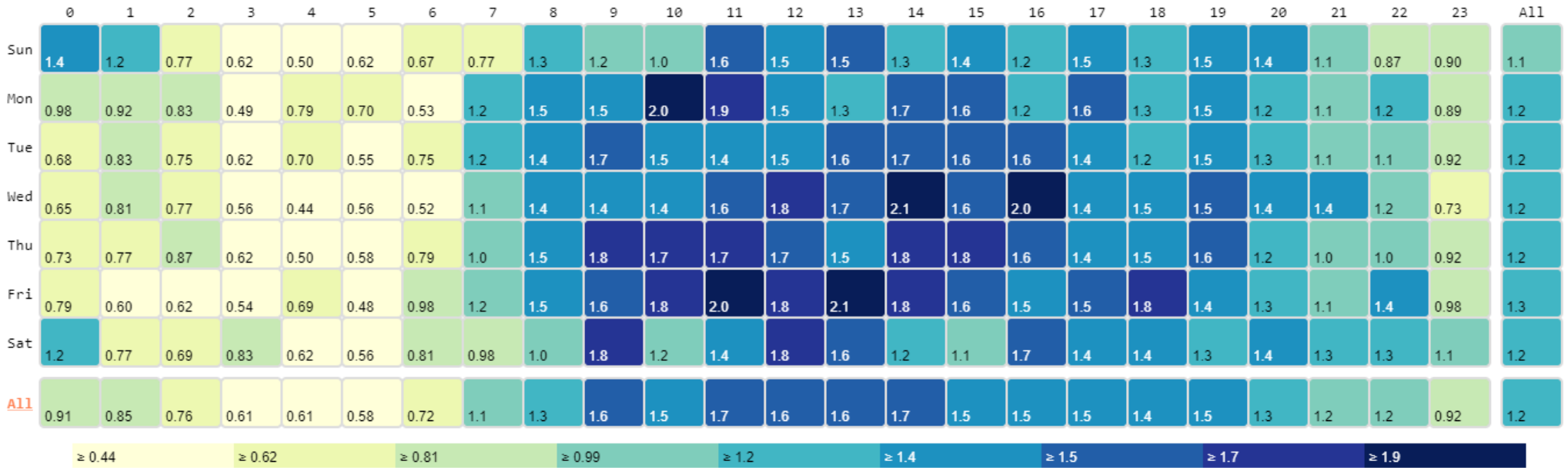
n=792

Sunday's mornings between midnight and 0300 are the most frequent times for a patient with alcohol intoxication

Demographics

Females

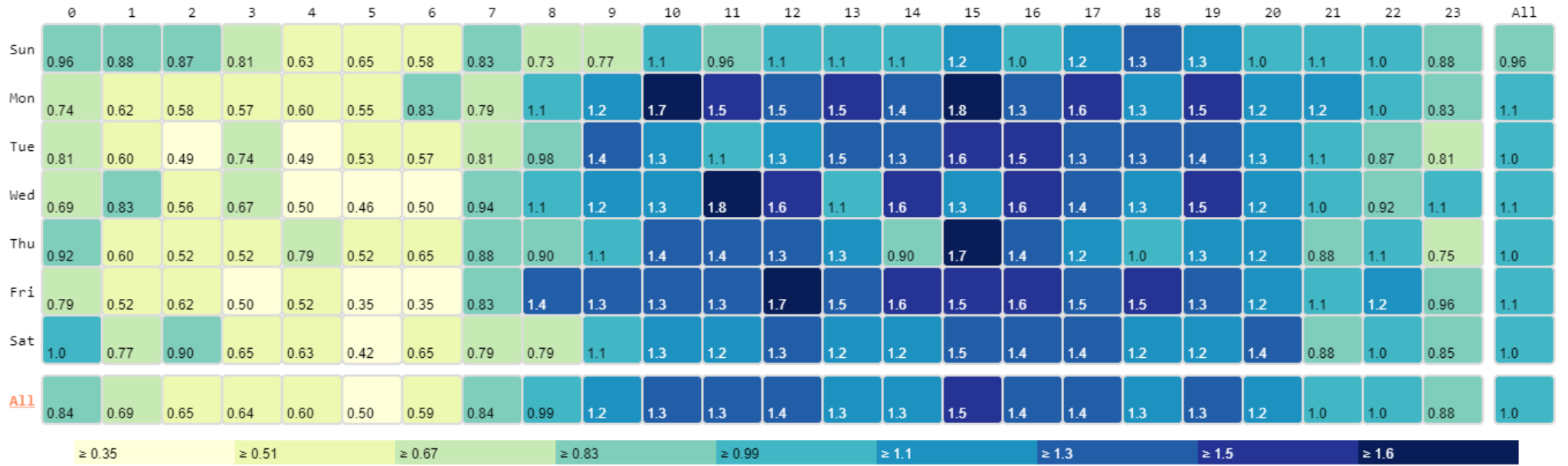
Demand Analysis Heat Map (Mean)
2019-Jul-01 to 2020-Jun-30



n=10,600

Male

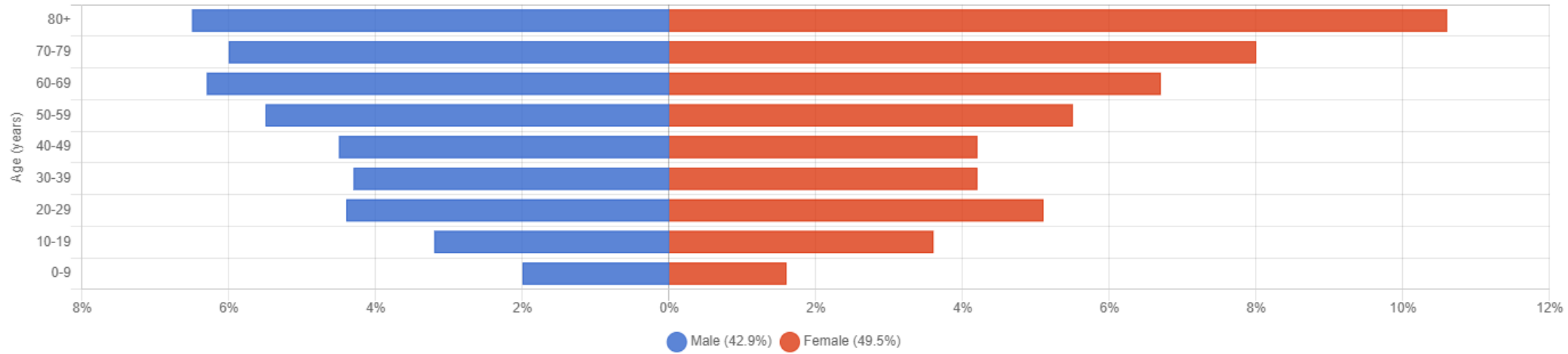
Demand Analysis Heat Map (Mean)
2019-Jul-01 to 2020-Jun-30



n=9,209

Age and Sex Breakdown

Age and Gender Demographics
2019-Jul-01 to 2020-Jun-30
21,490 Persons (1,640 with Unknown Age or Gender)



Most Common Call Type

1. Mental Health
2. Falls
3. Respiratory
4. Alcohol Intoxication
5. GI