

Early Comparisons of COVID-19 restrictions on travel times

The data.....

- Use of NPMRDS hourly travel time data along pre-determined key corridors
- Comparison of travel times (avg. of both directions) from the same time period in 2019 to 2020 beginning in the last full week in February
- AM Peak period is measured from 7am-9am.
- PM peak period is measured from 4pm-6pm.

Corridors reviewed:

- All Interstates & US Routes (collectively)
- Kirkwood Highway
- US 40
- I-95
- US 202
- US 9 (Sussex)

Traffic Volumes:

- On average, daily AADTs are down 40-50% Statewide

NPMRDS Analytics

Performance Summaries

A performance summary is a report on travel time metrics grouped by day of week, weekdays, and weekends. The results can be compiled for every hour of the day or for specific time ranges.

1. Select roads

TMC segments from **NPMRDS INRIX**

Expand NPMRDS to the Full TMC Network

Road	Region	Segment codes	Map	Saved
Showing 58 of 58 available segment sets				
Segment set	Segments	Owner		
896 to Harrisburg	972	dblevins@wilmap...		
476 to Harrisburg	1390	dblevins@wilmap...		
DE SR 896	181	dblevins@wilmap...		
95 to Harrisburg	1654	dblevins@wilmap...		
Interstates/US Routes	383	dblevins@wilmap...		
896 to Harrisburg SB	1082	dblevins@wilmap...		
Beach Routes Merged	406	dblevins@wilmap...		

Create a single visualization combining all directions of travel
 Create a visualization for each direction of travel

Show segment IDs Save as segment set

2. Select one or more time periods to analyze

Day(s) Month(s) Year

03/27/2020 - through - 03/27/2020

Create a single time period for this range

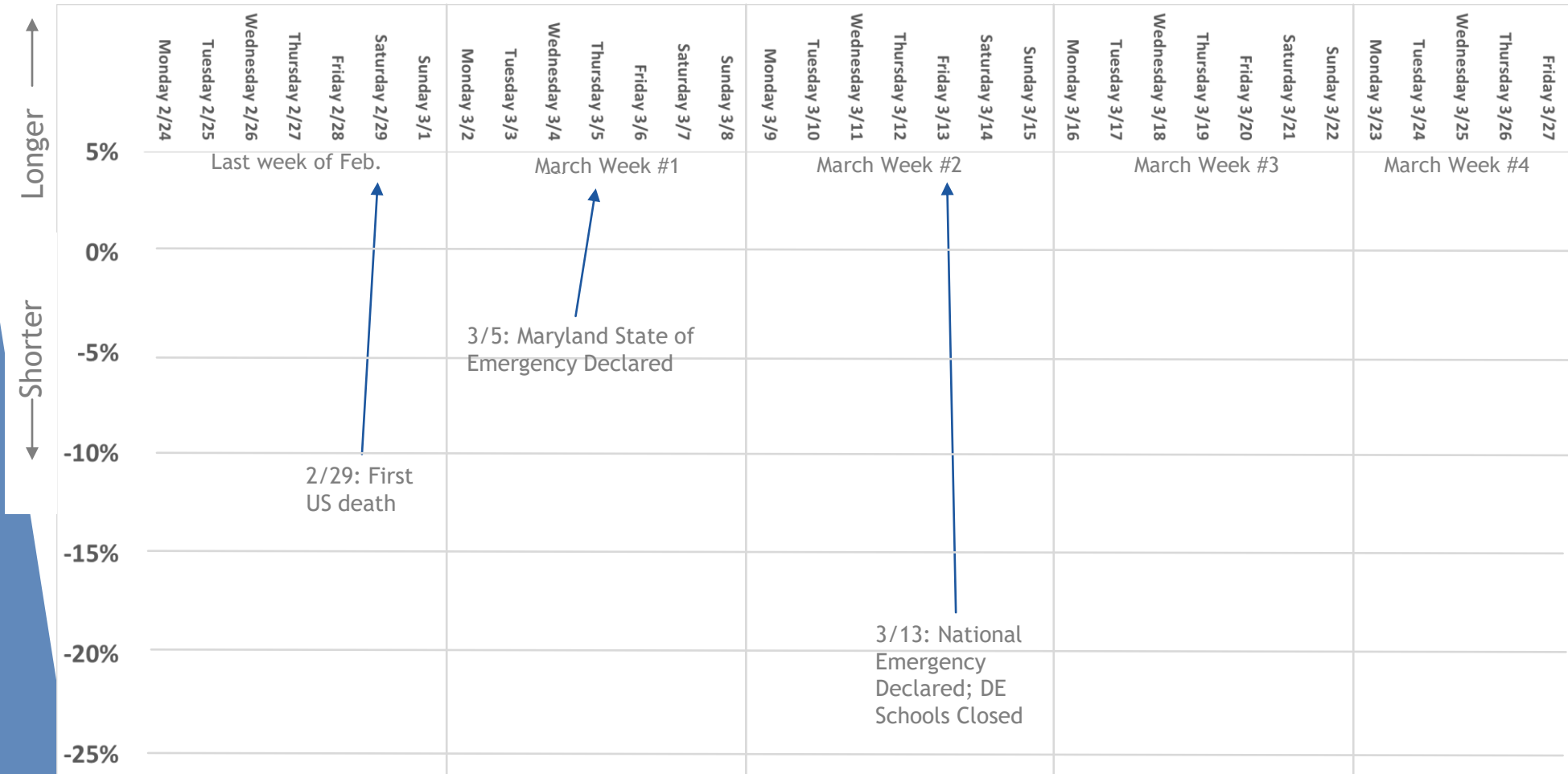
Year to Year Comparisons

Comparison of combined travel times from the same time period in 2019 to 2020.

Avg. of both directions

PM peak period is measured from 4pm-6pm.

Departures in Travel Times: March 2020 vs. March 2019 PM peak Period



Weekday Weekly Changes
2019 vs 2020 (PM Peak)

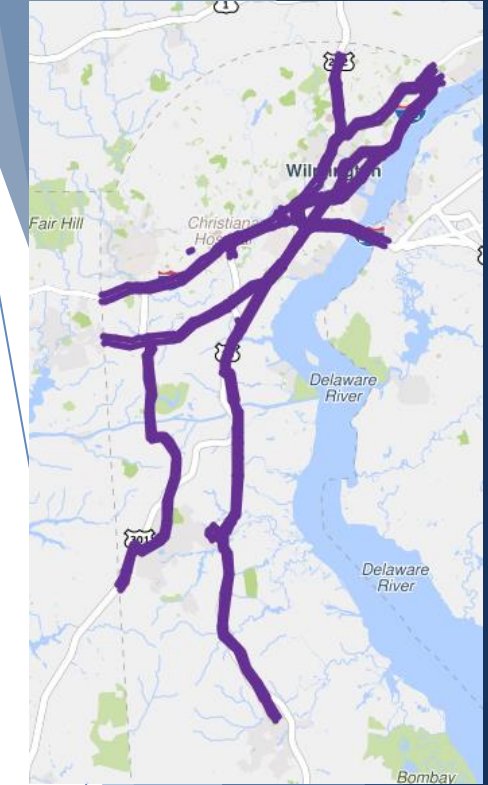
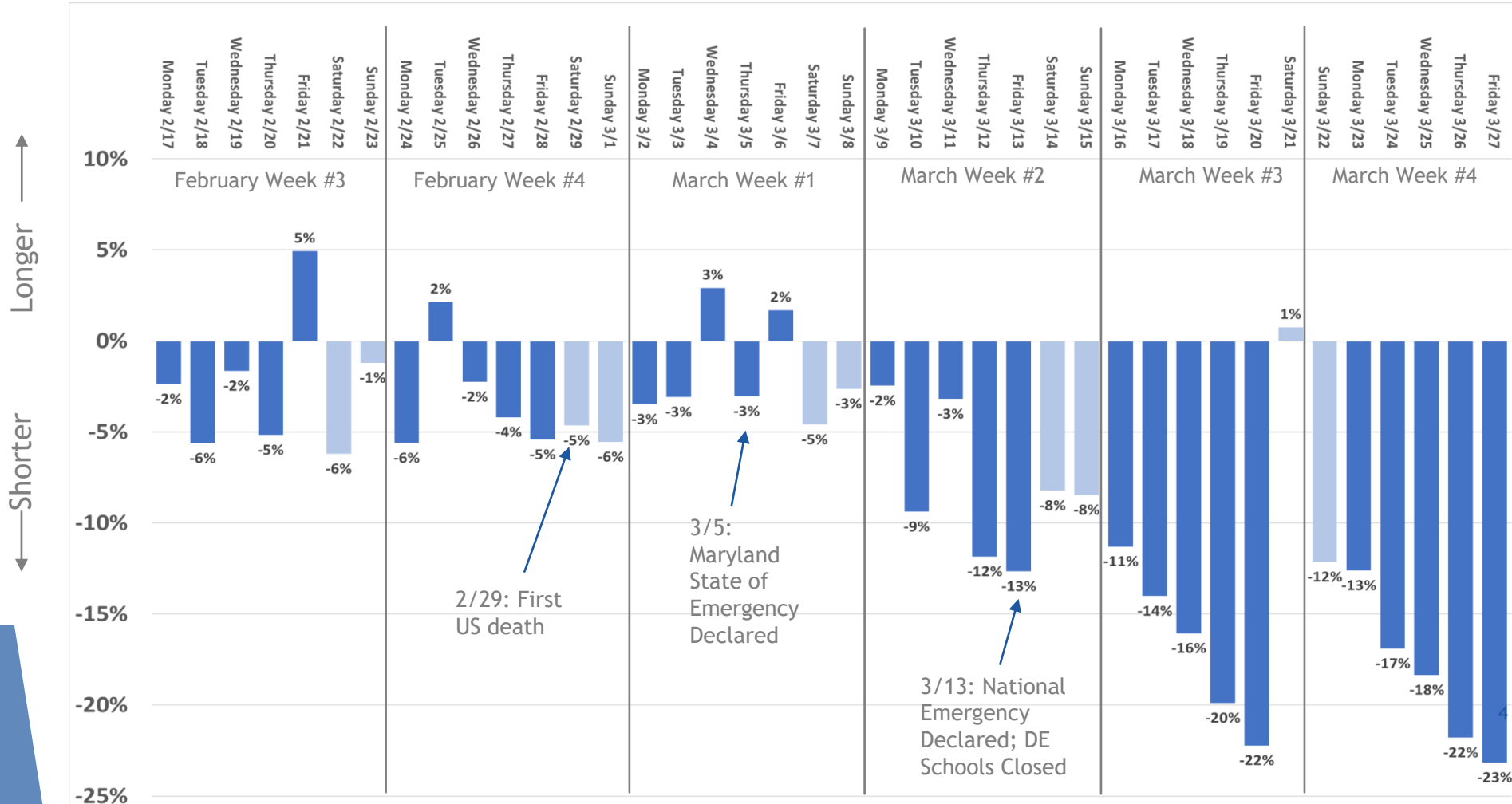
Avg. WEEKDAY Travel Time Changes	% Change 2019 to 2020
Last week Feb.	
March Week #1	
March Week #2	
March Week #3	
March Week #4	

NCC Interstates and US Routes

Comparison of combined travel times for all routes Interstate/ US Routes (see map) from the same time period in 2019 to 2020.

PM peak period is measured from 4pm-6pm.

Departures in Travel Times: March 2020 vs. March 2019 PM peak Period

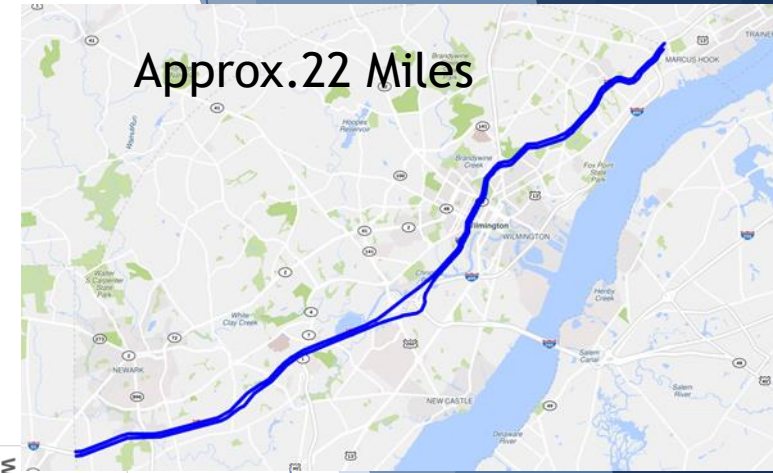


Weekday Weekly Changes 2019 vs 2020 (PM Peak)

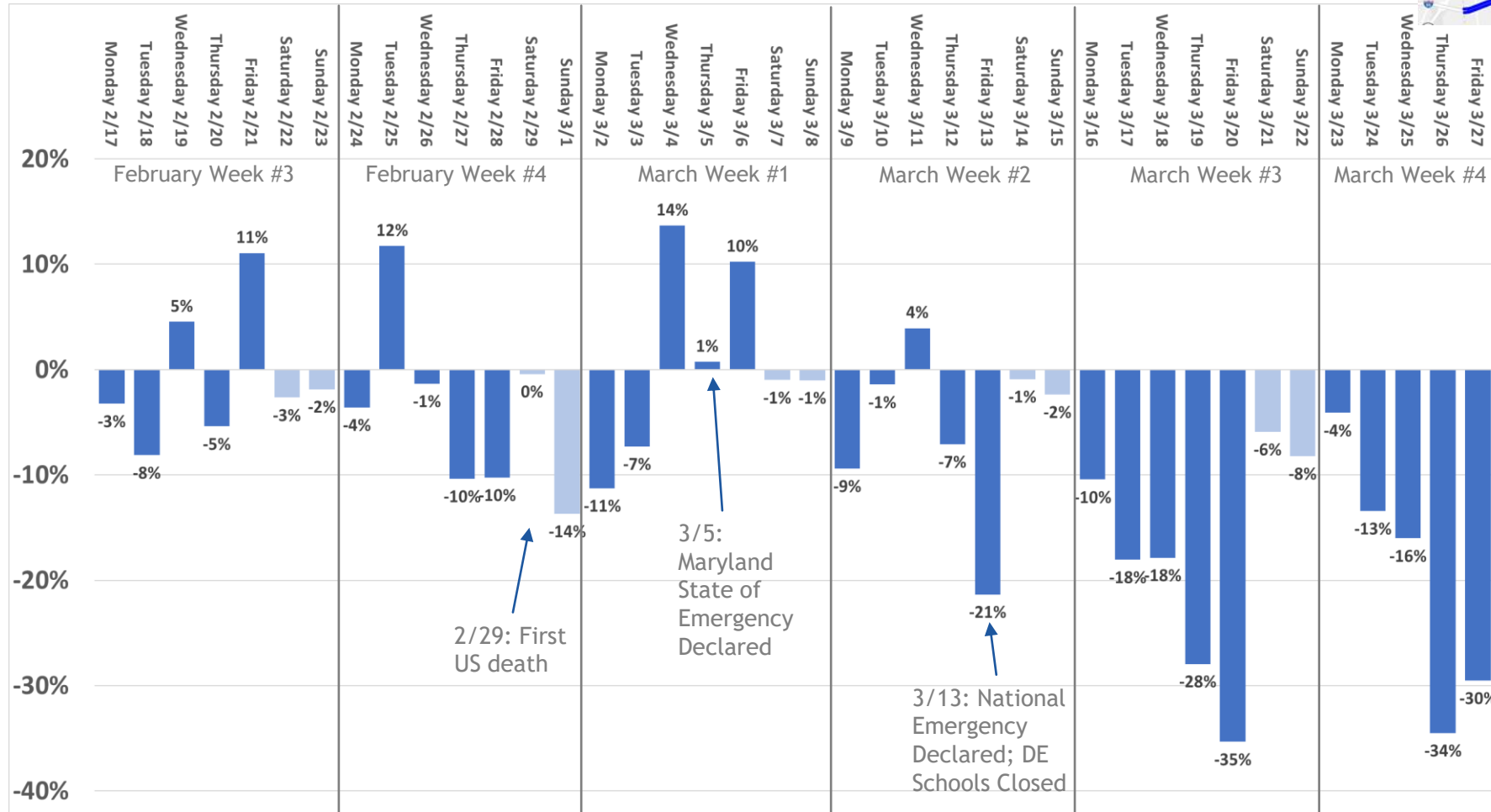
Avg. WEEKDAY Travel Time Changes	PM % Change 2019 to 2020
Feb. Week #3	-2%
Feb. Week #4	-3%
March Week #1	-1%
March Week #2	-8%
March Week #3	-17%
March Week #4	-19%

I-95: DE Line to MD Line

Comparison of combined travel times average for both directions(see map) from the same time period in 2019 to 2020. PM peak period is measured from 4pm-6pm.



Departure in Travel Times: March 2020 vs. March 2019 PM peak Period



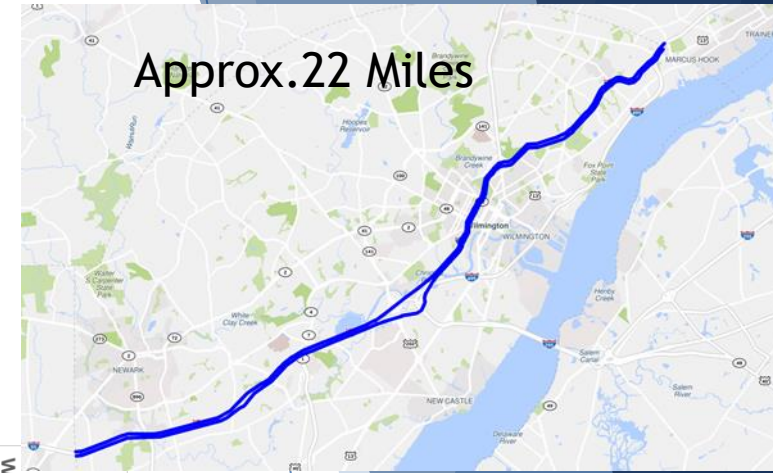
Typical PM Travel Time :
Approx: 29 minutes

Weekday Weekly Changes
2019 vs 2020 (PM Peak)

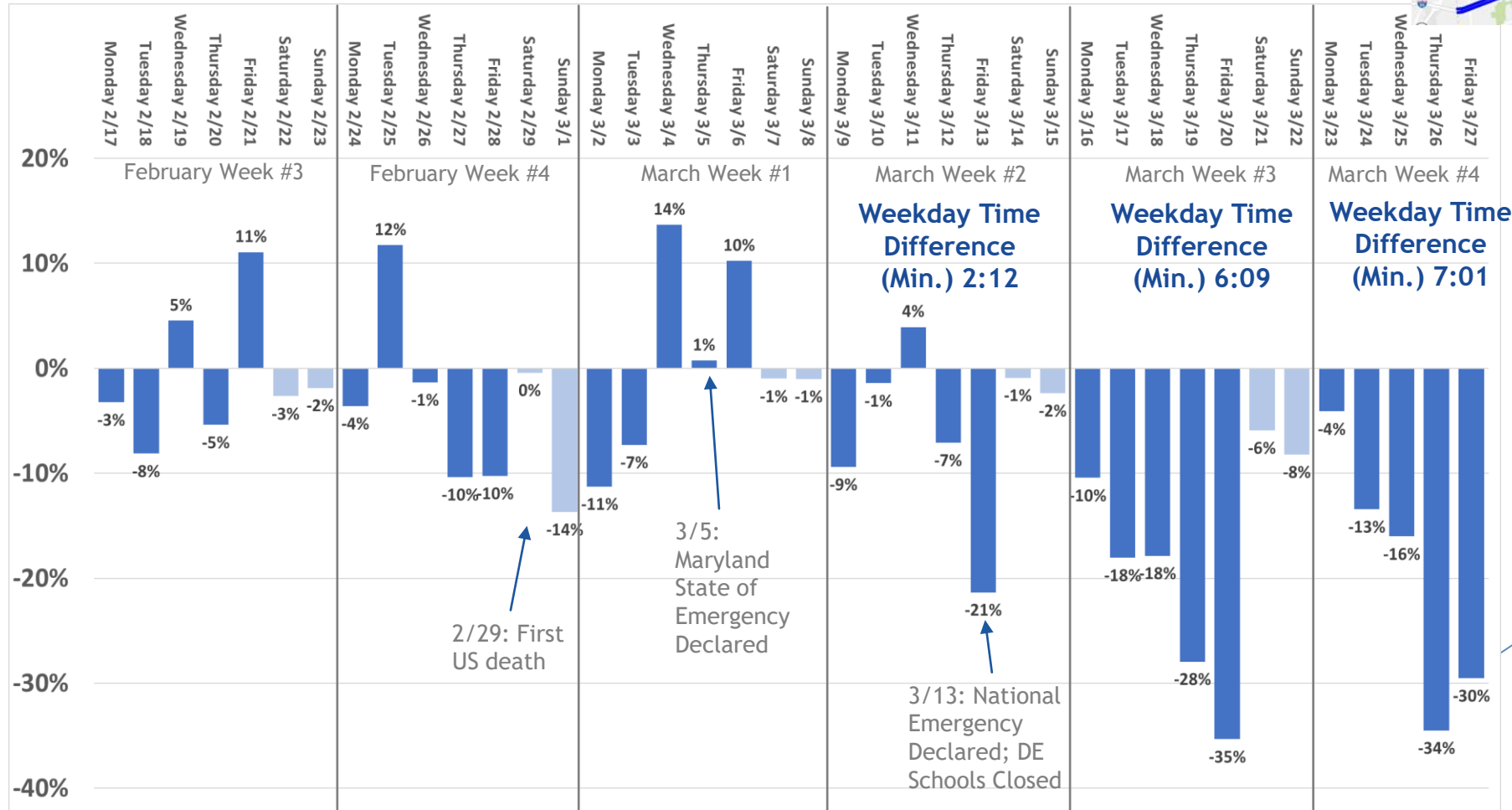
Avg. WEEKDAY Travel Time Changes	% Change 2019 to 2020
Last week Feb.	-6%
March Week #1	3%
March Week #2	-8%
March Week #3	-23%
March Week #4	-21%

I-95: DE Line to MD Line

Comparison of combined travel times average for both directions(see map) from the same time period in 2019 to 2020. PM peak period is measured from 4pm-6pm.



Departure in Travel Times: March 2020 vs. March 2019 PM peak Period



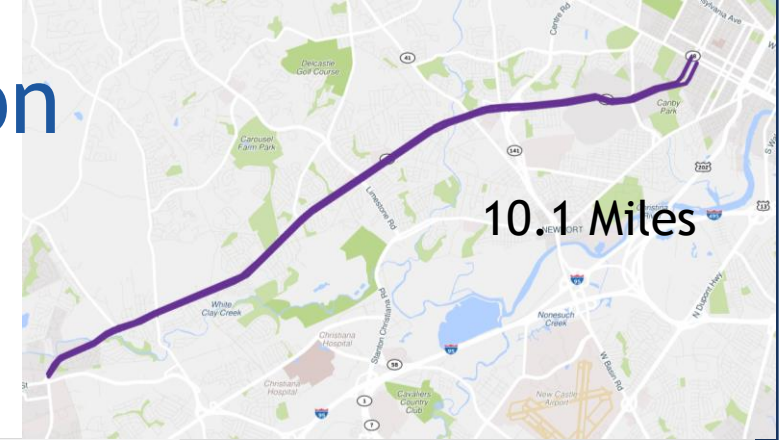
Typical PM Travel Time :
Approx: 29 minutes

Weekday Corridor Travel Time Changes (PM Peak)

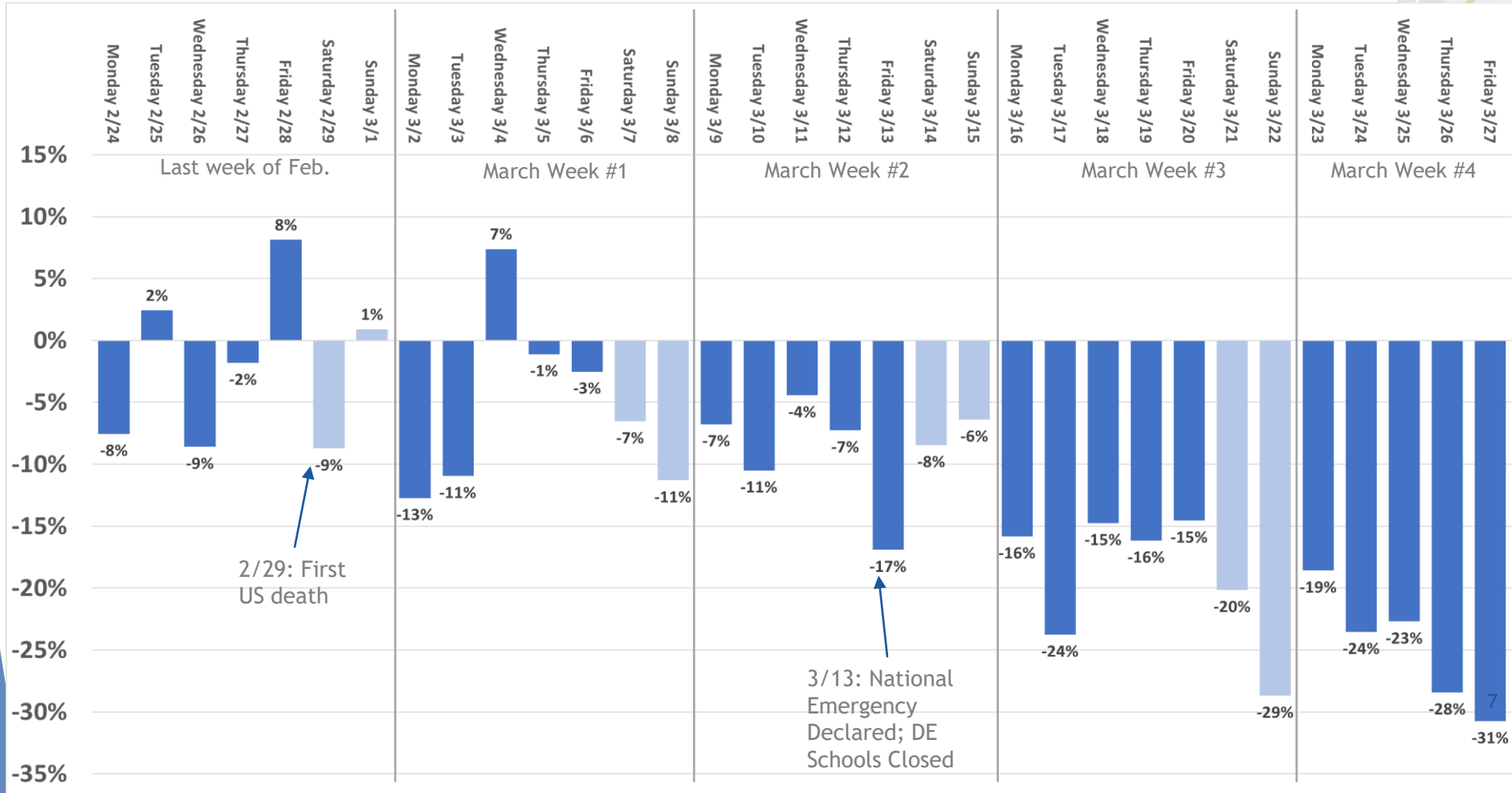
Weekdays	PM Peak Avg. Travel Time 2019	PM Peak Avg. Travel Time 2020	PM peak Corridor Travel Time Difference (min.)
Last week Feb.	28.41	27.45	0.95
March Week #1	30.60	31.05	-0.46
March Week #2	28.31	26.10	2.21
March Week #3	30.53	23.51	7.02
March Week #4	29.58	23.42	6.16

Kirkwood Highway; Newark to Wilmington

Comparison of combined travel times average for both directions(see map) from the same time period in 2019 to 2020. PM peak period is measured from 4pm-6pm.



Departures in Travel Times: March 2020 vs. March 2019 PM peak Period



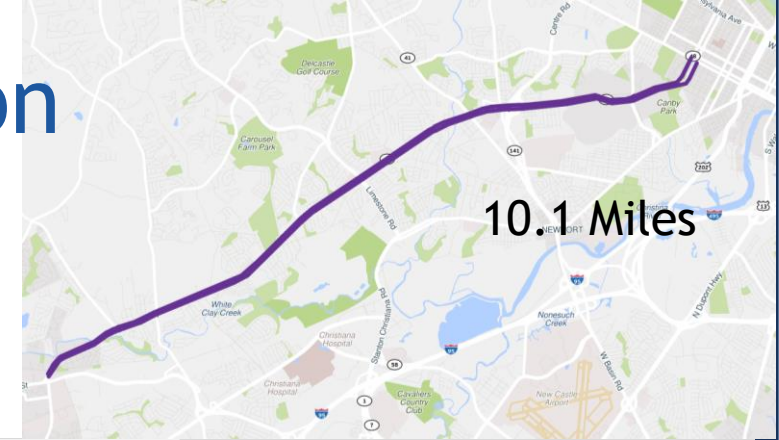
Typical PM Travel Time :
Approx: 25 minutes

Weekday Weekly Changes
2019 vs 2020 (PM Peak)

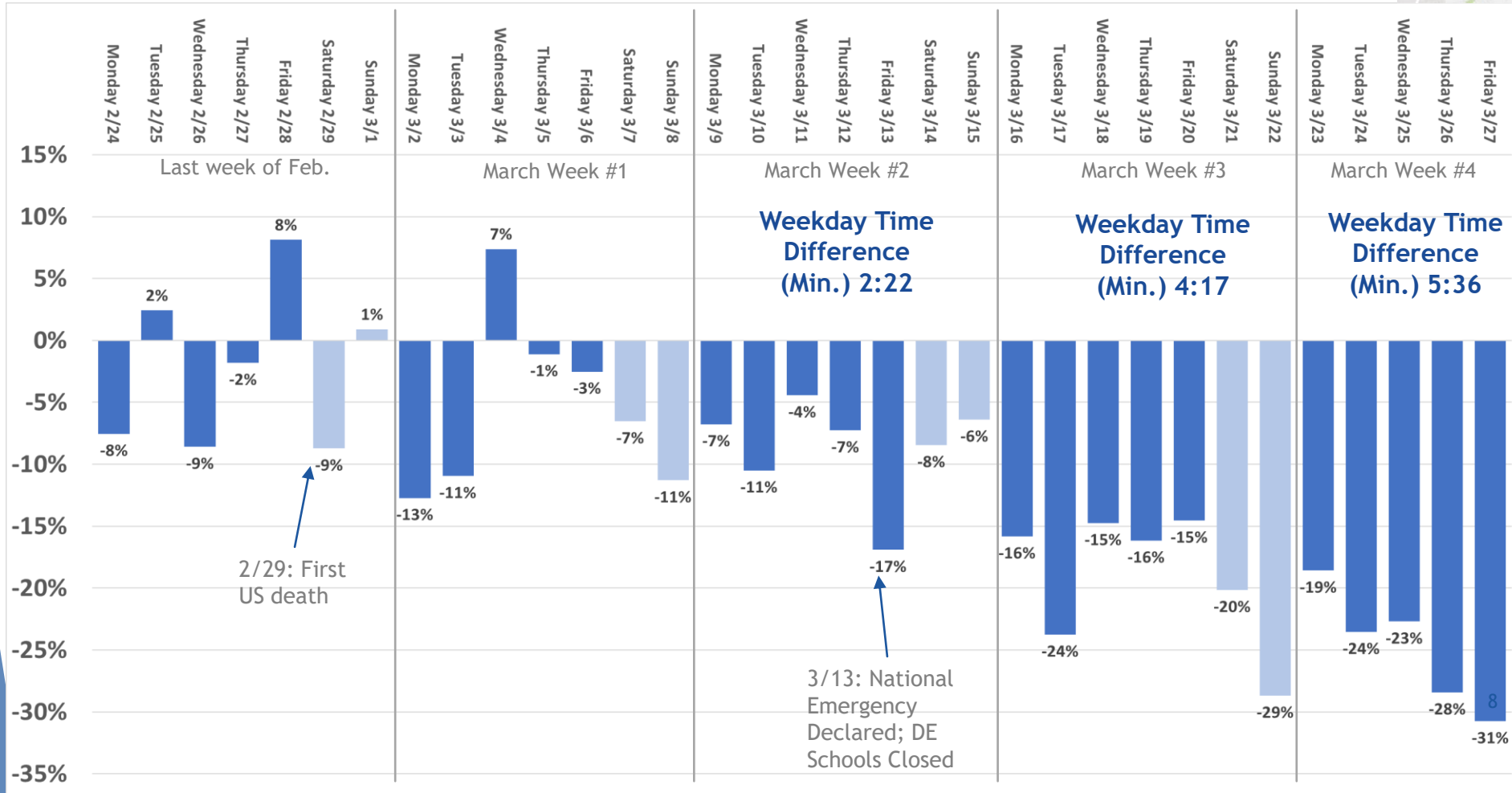
Avg. WEEKDAY Travel Time Changes	% Change 2019 to 2020
Last week Feb.	-2%
March Week #1	-4%
March Week #2	-9%
March Week #3	-17%
March Week #4	-22%

Kirkwood Highway; Newark to Wilmington

Comparison of combined travel times average for both directions(see map) from the same time period in 2019 to 2020. PM peak period is measured from 4pm-6pm.



Departures in Travel Times: March 2020 vs. March 2019 PM peak Period



Typical PM Travel Time :
Approx: 25 minutes

Weekday Corridor Travel Time
Changes (PM Peak)

Weekdays	PM Peak Avg. Travel Time 2019	PM Peak Avg. Travel Time 2020	PM peak Corridor Travel Time Difference (min.)
Last week Feb.	25.67	25.21	0.45
March Week #1	25.95	24.83	1.12
March Week #2	25.69	23.31	2.38
March Week #3	25.32	21.02	4.29
March Week #4	25.93	20.33	5.60

Weekday Time Difference (Min.) 2:22

Weekday Time Difference (Min.) 4:17

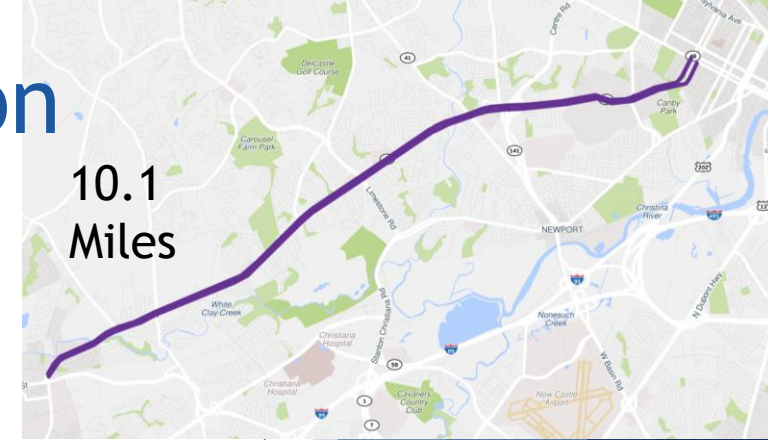
Weekday Time Difference (Min.) 5:36

2/29: First US death

3/13: National Emergency Declared; DE Schools Closed

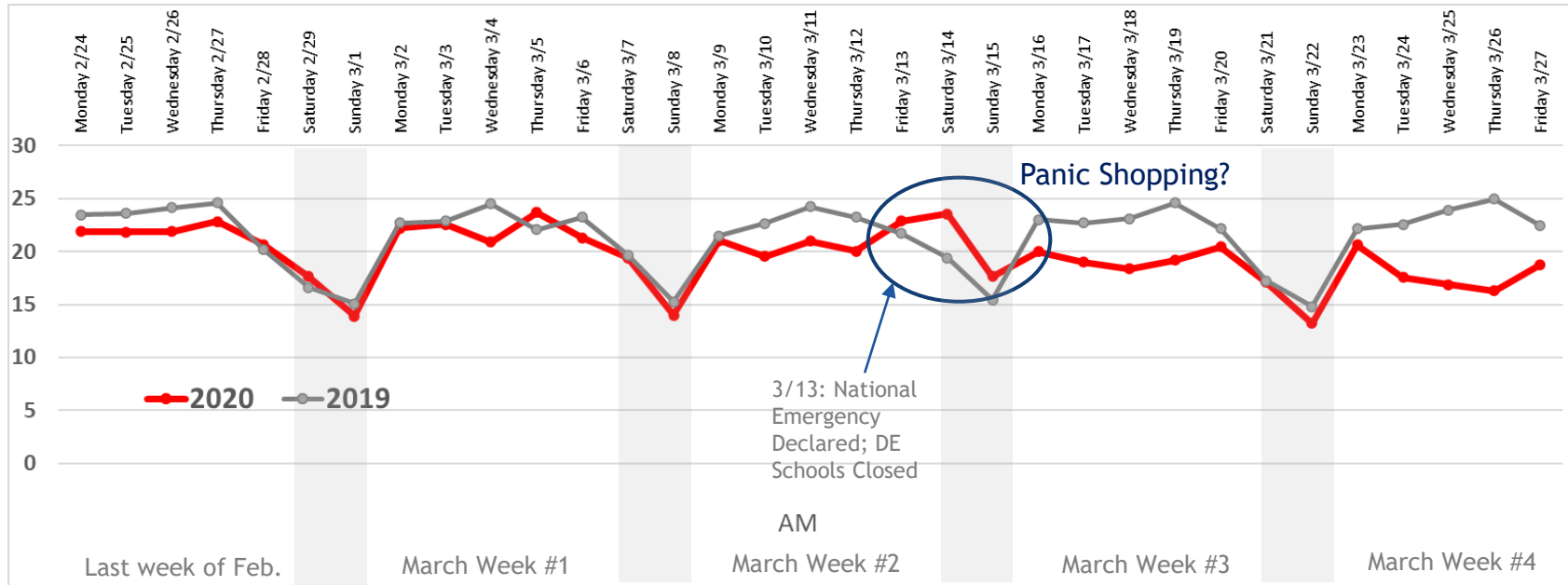
Kirkwood Highway; Newark to Wilmington

- Comparison of combined travel times average for both directions
- AM peak Period 7-9am; PM peak Period 4-6pm.



Departures in Travel Times: March 2020 vs. March 2019 peak Period

AM peak 7-9am)

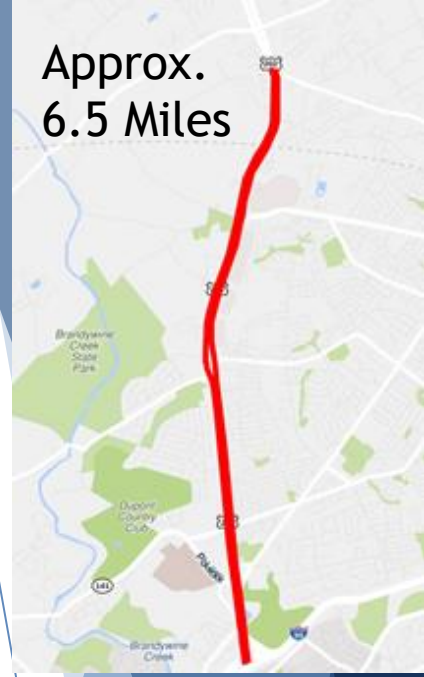


Weekday Corridor Travel Time Changes (AM Peak)

	AM Peak Avg. Travel Time 2019	AM Peak Avg. Travel Time 2020	AM peak Corridor Travel Time Difference
Last week Feb.	23.2	21.8	1.37
March Week #1	23.1	22.1	0.94
March Week #2	22.7	20.9	1.77
March Week #3	23.1	19.4	3.71
March Week #4	23.2	18.0	5.21

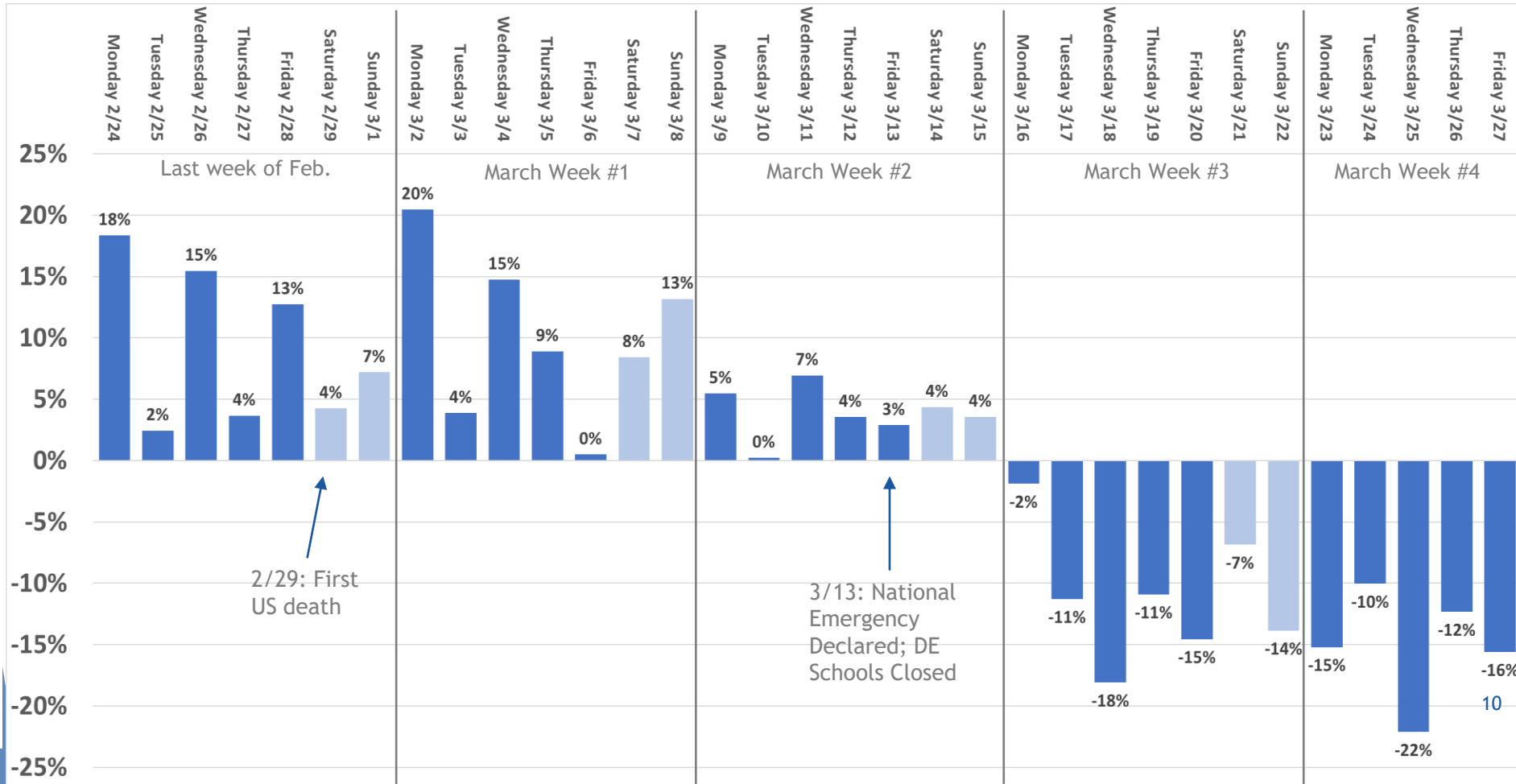
US 202: PA 491 to I-95

Comparison of combined travel times average for both directions(see map) from the same time period in 2019 to 2020. PM peak period is measured from 4pm-6pm.



Approx. 6.5 Miles

Departure in Corridor Travel Times: March 2020 vs. March 2019 PM peak Period



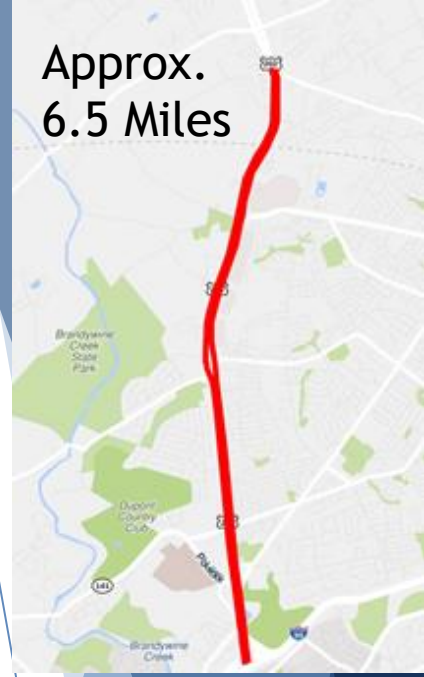
Typical PM Travel Time :
Approx: 13 minutes

Weekday Weekly Changes 2019 vs 2020 (PM Peak)

Avg. WEEKDAY Travel Time Changes	% Change 2019 to 2020
Last week Feb.	10%
March Week #1	9%
March Week #2	4%
March Week #3	-12%
March Week #4	-15%

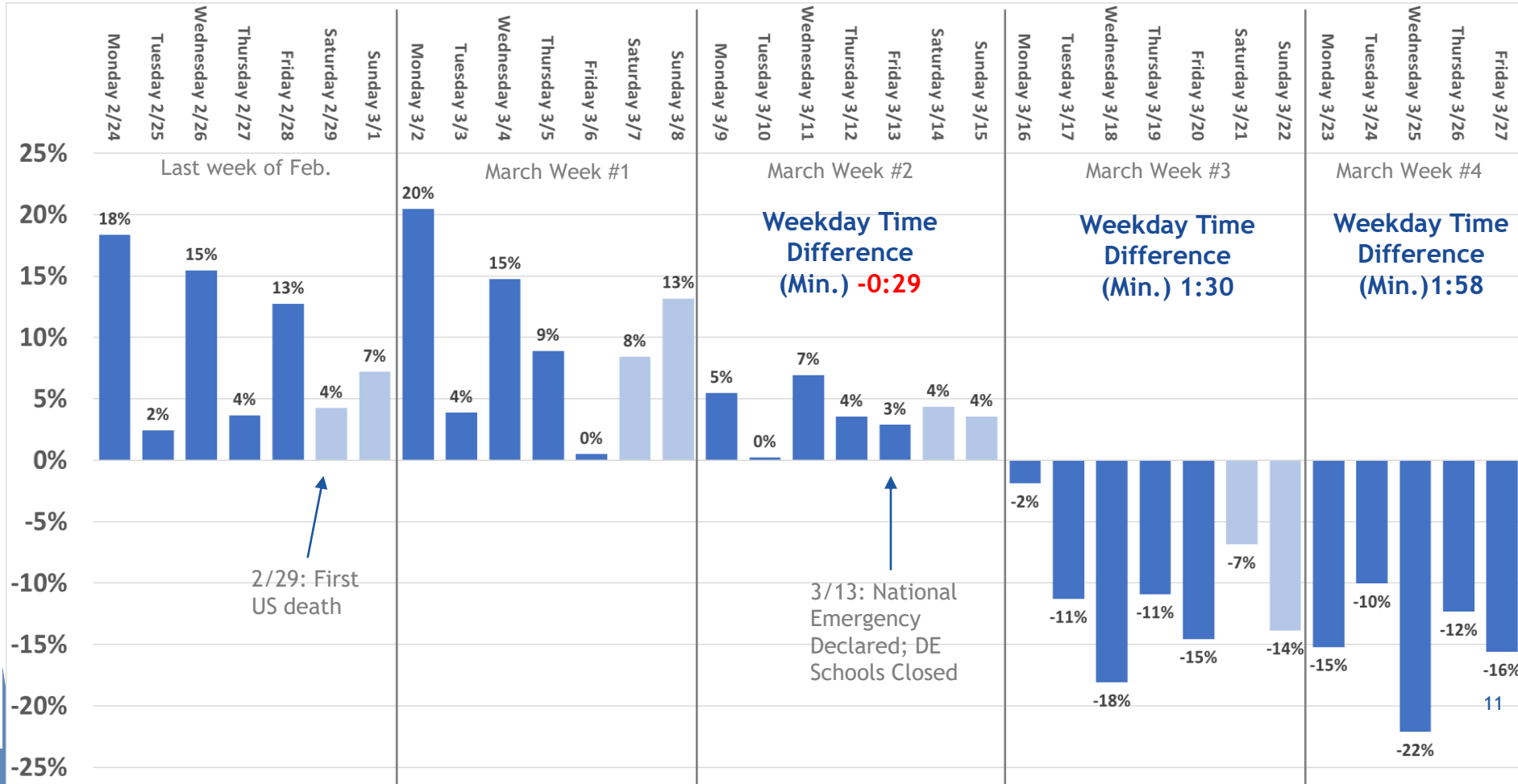
US 202: PA 491 to I-95

Comparison of combined travel times average for both directions(see map) from the same time period in 2019 to 2020. PM peak period is measured from 4pm-6pm.



Approx. 6.5 Miles

Departure in Corridor Travel Times: March 2020 vs. March 2019 PM peak Period



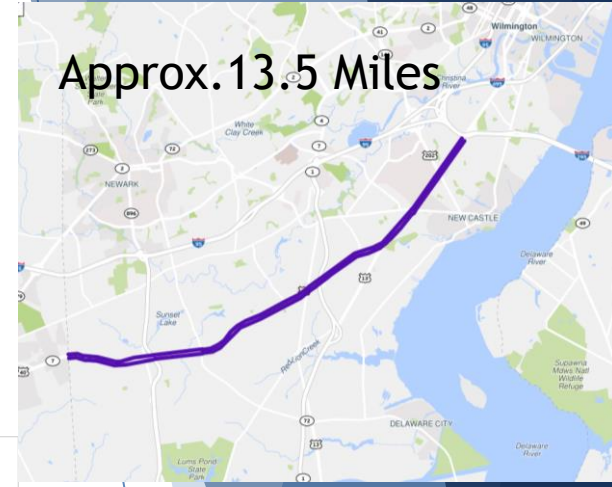
Typical PM Travel Time :
Approx: 13 minutes

Weekday Corridor Travel Time Changes (PM Peak)

Weekdays	PM Peak Avg. Travel Time 2019 (min.)	PM Peak Avg. Travel Time 2020 (Min.)	PM peak Corridor Travel Time Difference (min.)
Last week Feb.	12.6	13.9	-1.29
March Week #1	13.0	14.2	-1.19
March Week #2	12.9	13.4	-0.48
March Week #3	13.0	11.5	1.50
March Week #4	12.9	10.9	1.95

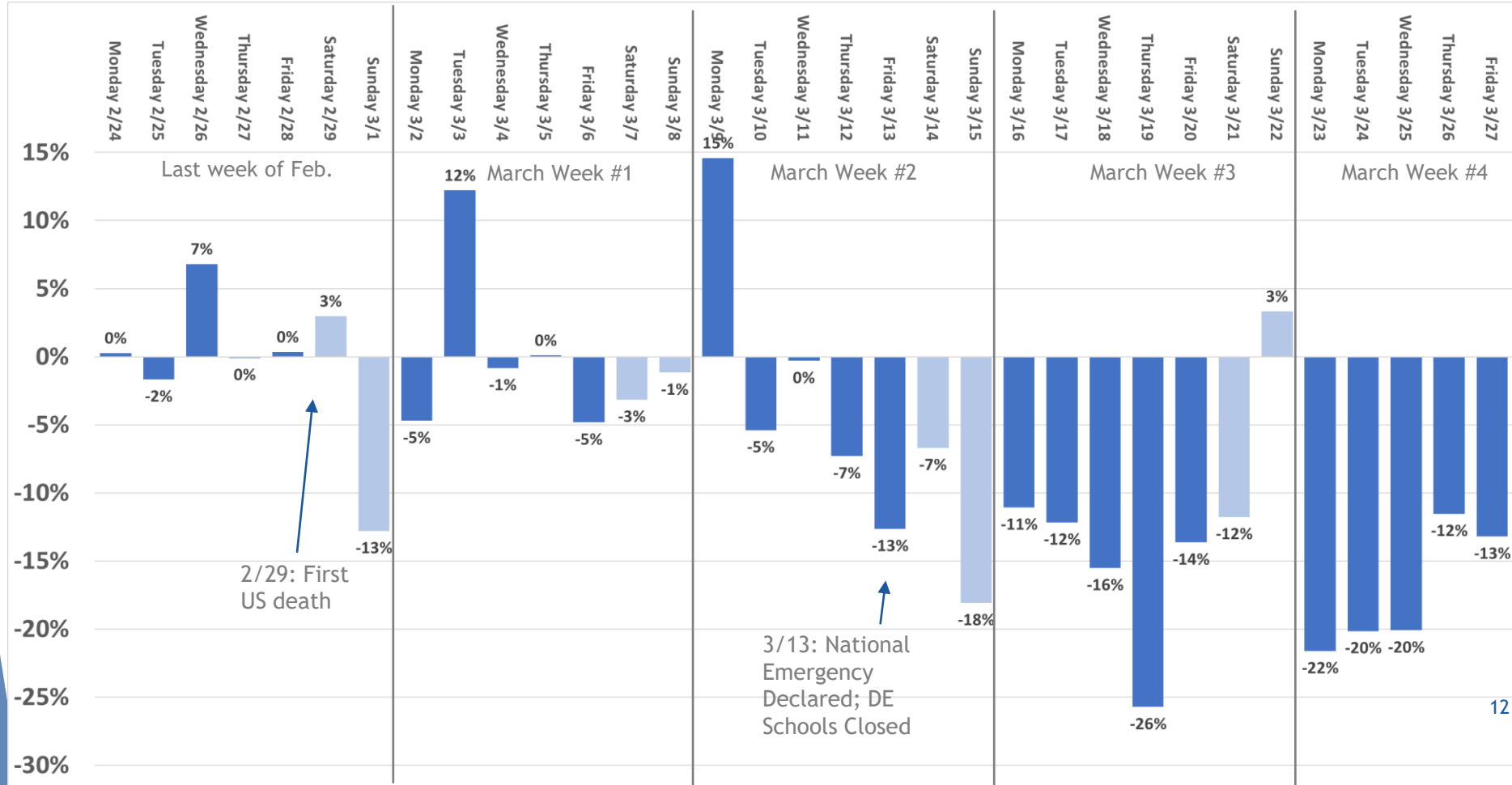
US 40: MD line to I-295

Comparison of combined travel times average for both directions(see map) from the same time period in 2019 to 2020. PM peak period is measured from 4pm-6pm.



Approx. 13.5 Miles
 Typical PM Travel Time :
 Approx: 28 minutes

Departure in Travel Times: March 2020 vs. March 2019 PM peak Period



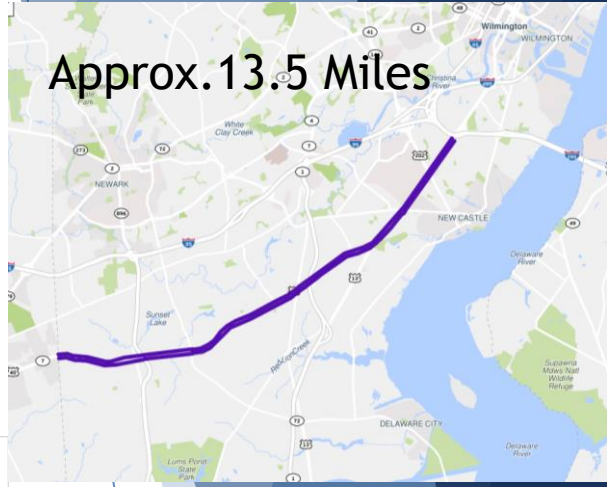
Weekday Weekly Changes
 2019 vs 2020 (PM Peak)

Avg. WEEKDAY Travel Time Changes	% Change 2019 to 2020
Last week Feb.	1%
March Week #1	0%
March Week #2	-3%
March Week #3	-16%
March Week #4	-17%

US 40: MD line to I-295

Comparison of combined travel times average for both directions(see map) from the same time period in 2019 to 2020. PM peak period is measured from 4pm-6pm.

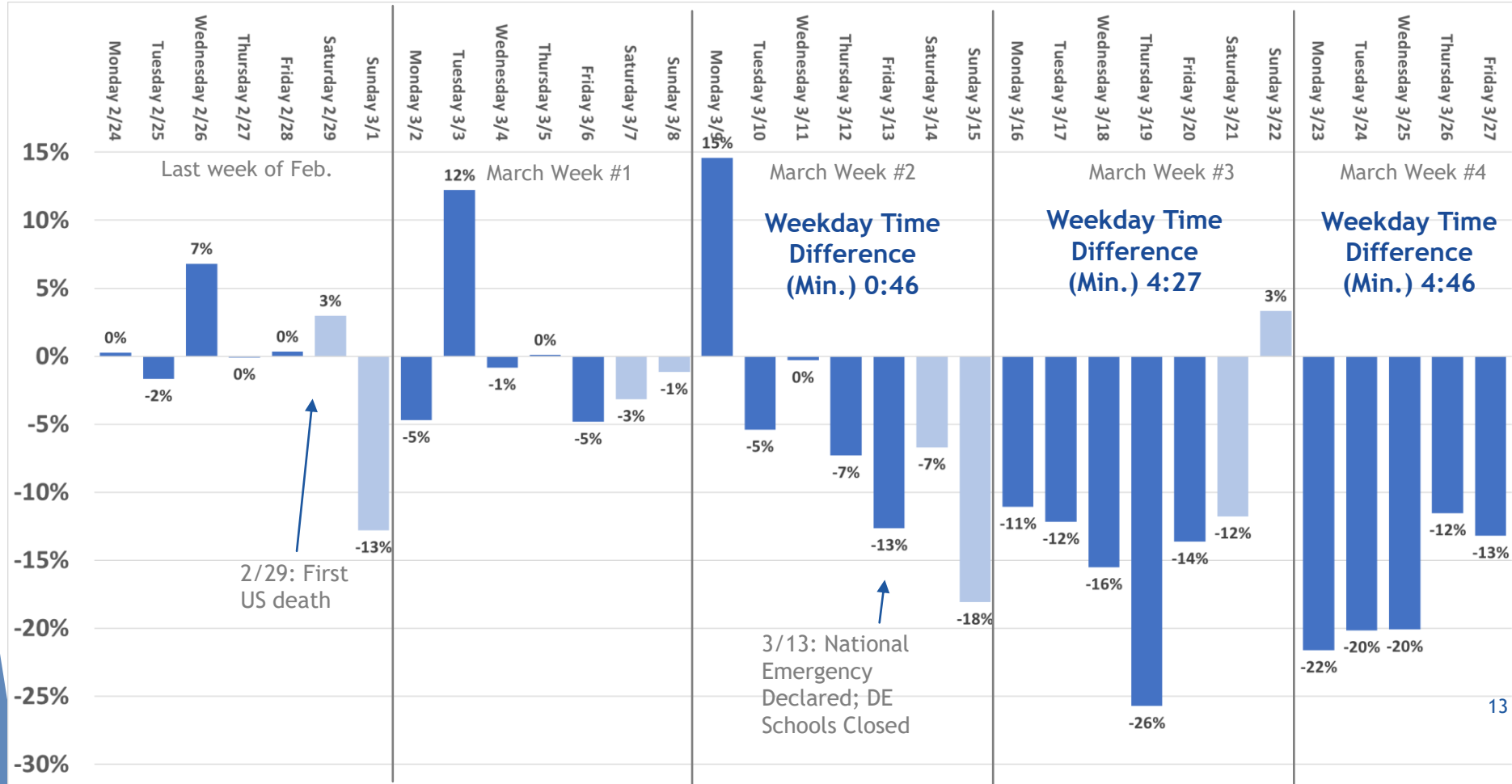
Departure in Travel Times: March 2020 vs. March 2019 PM peak Period



Typical PM Travel Time :
Approx: 28 minutes

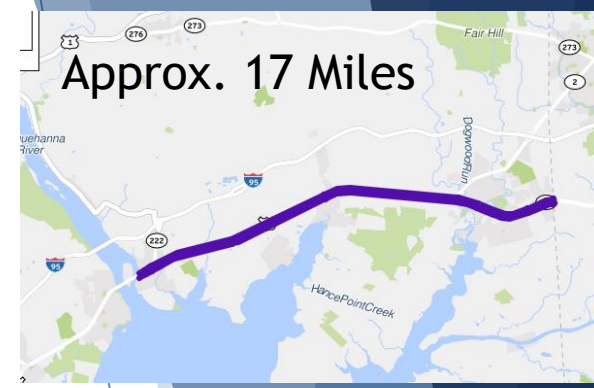
Weekday Corridor Travel Time
Changes (PM Peak)

Weekdays	PM Peak Avg. Travel Time 2019	PM Peak Avg. Travel Time 2020	PM peak Corridor Travel Time Difference (min.)
Last week Feb.	27.53	27.82	-0.29
March Week #1	27.87	27.91	-0.03
March Week #2	28.58	27.81	0.78
March Week #3	28.36	23.91	4.46
March Week #4	27.52	22.75	4.77



US 40 Cecil County

Comparison of combined travel times average for both directions(see map) from the same time period in 2019 to 2020. PM peak period is measured from 4pm-6pm.

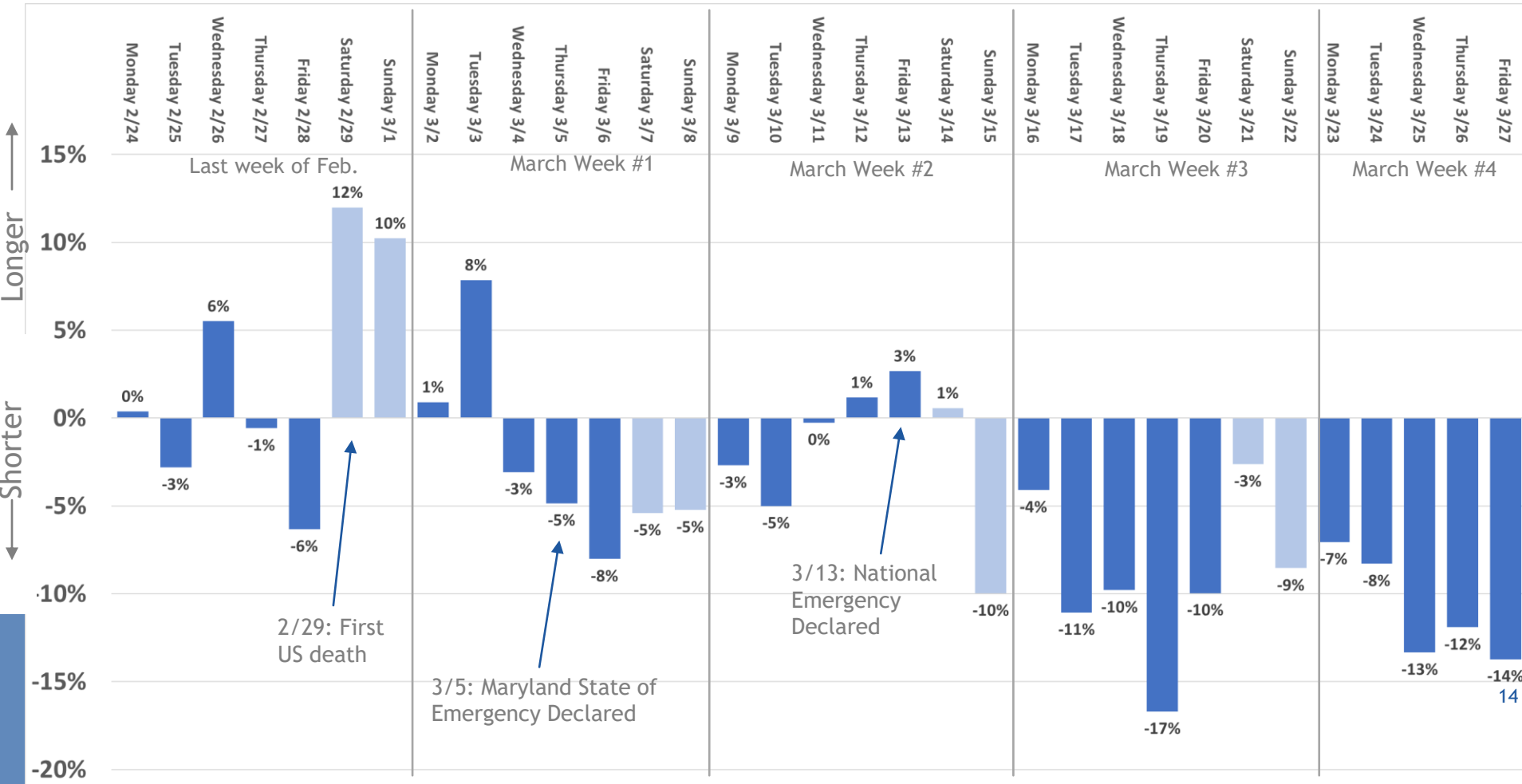


Departure in Travel Times: March 2020 vs. March 2019 PM peak Period

Typical PM Travel Time :
Approx: 27 minutes

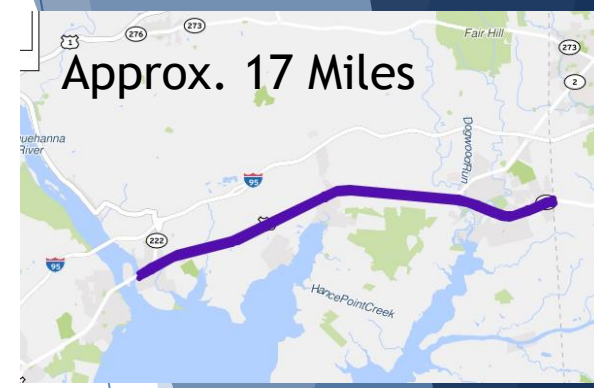
Weekday Weekly Changes
2019 vs 2020 (PM Peak)

Avg. WEEKDAY Travel Time	% Change 2019 to 2020
Last week Feb.	-1%
March Week #1	-2%
March Week #2	-1%
March Week #3	-11%
March Week #4	-11%



US 40 Cecil County

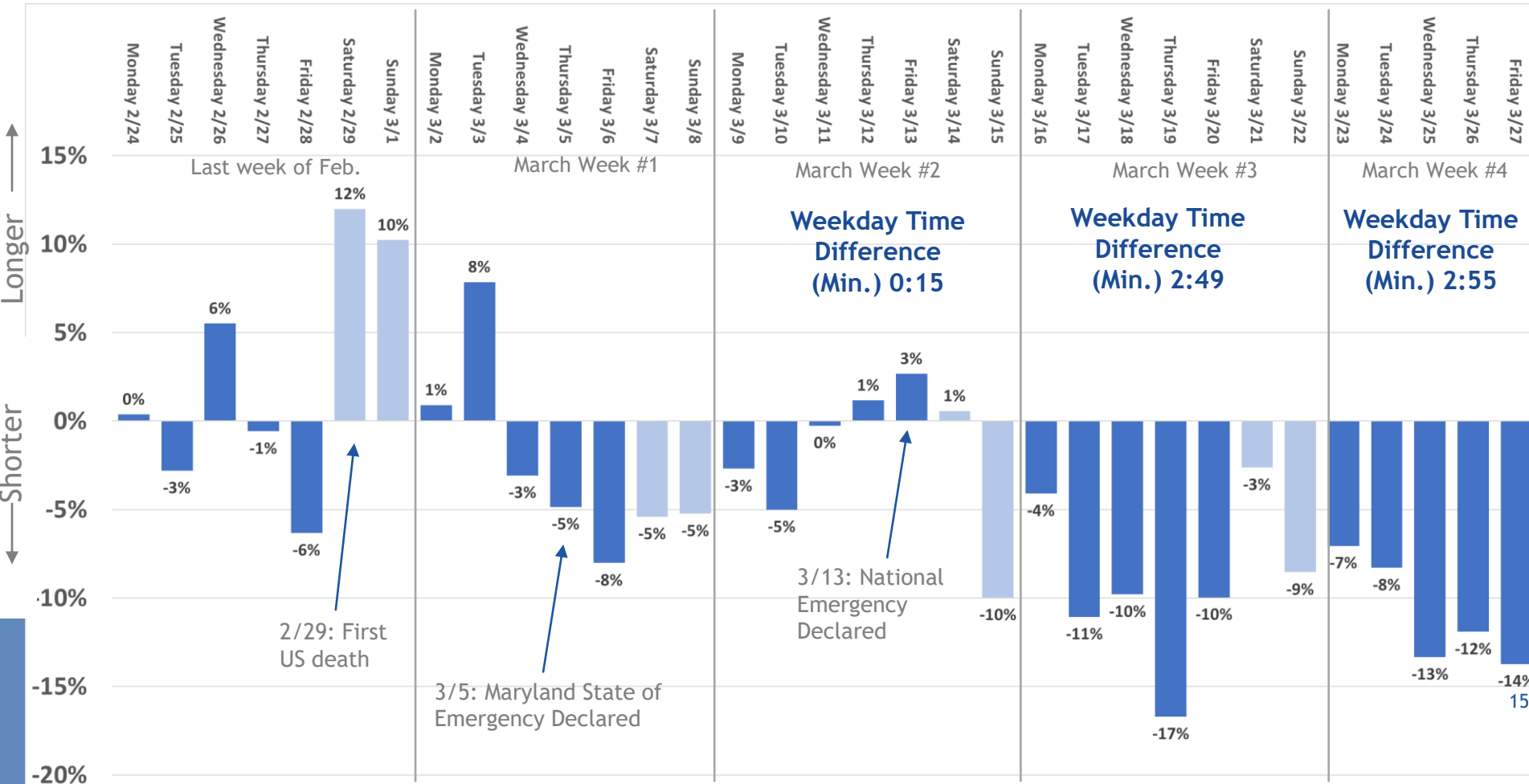
Comparison of combined travel times average for both directions(see map) from the same time period in 2019 to 2020. PM peak period is measured from 4pm-6pm.



Departure in Travel Times: March 2020 vs. March 2019 PM peak Period

Typical PM Travel Time :
Approx: 27 minutes

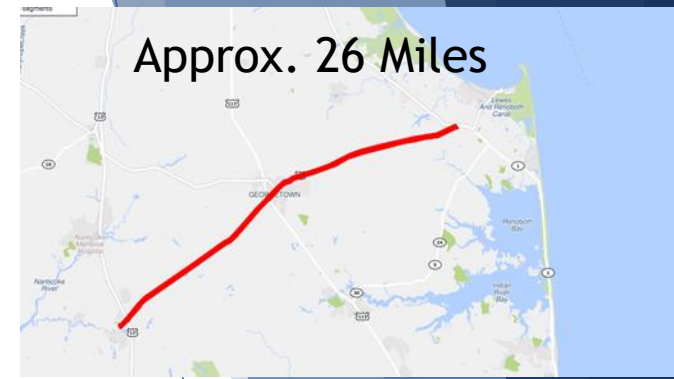
Weekday Corridor Travel Time
Changes (PM Peak)



Weekdays	PM Peak Avg. Travel Time 2019	PM Peak Avg. Travel Time 2020	PM peak Corridor Travel Time Difference (min.)
Last week Feb.	26.72	26.45	0.27
March Week #1	27.02	26.54	0.48
March Week #2	26.36	26.13	0.23
March Week #3	26.93	24.10	2.83
March Week #4	26.77	23.85	2.92

US 9 (Sussex): US 13 to DE 1

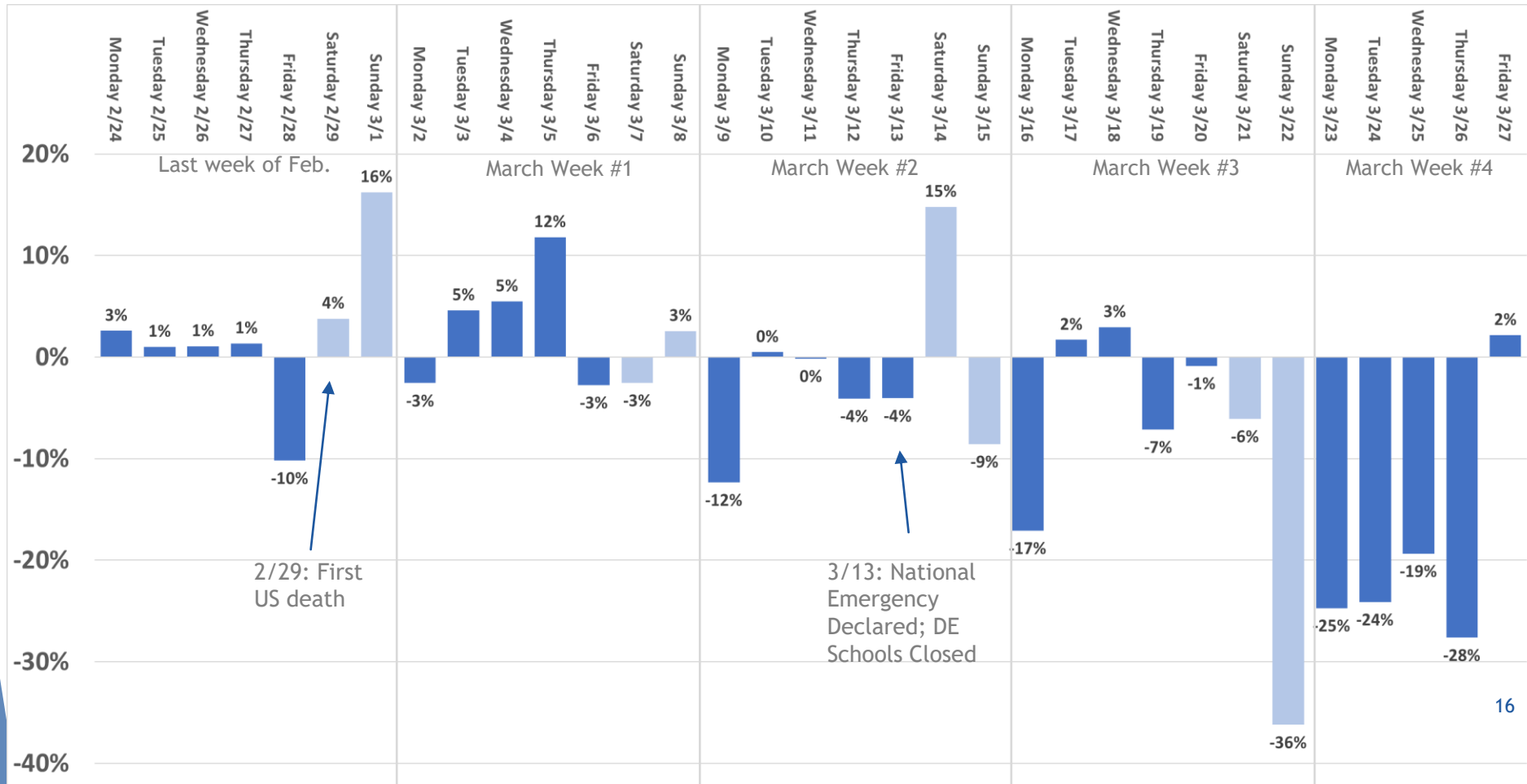
Comparison of combined travel times average for both directions(see map) from the same time period in 2019 to 2020. PM peak period is measured from 4pm-6pm.



Approx. 26 Miles

Departure in Travel Times: March 2020 vs. March 2019 PM peak Period

Typical PM Travel Time :
Approx: 44 minutes

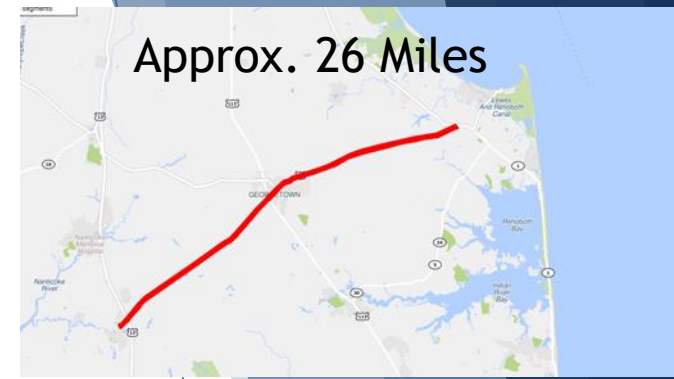


Weekday Weekly Changes
2019 vs 2020 (PM Peak)

Avg. WEEKDAY Travel Time Changes	% Change 2019 to 2020
Last week Feb.	-1%
March Week #1	3%
March Week #2	-4%
March Week #3	-4%
March Week #4	-19%

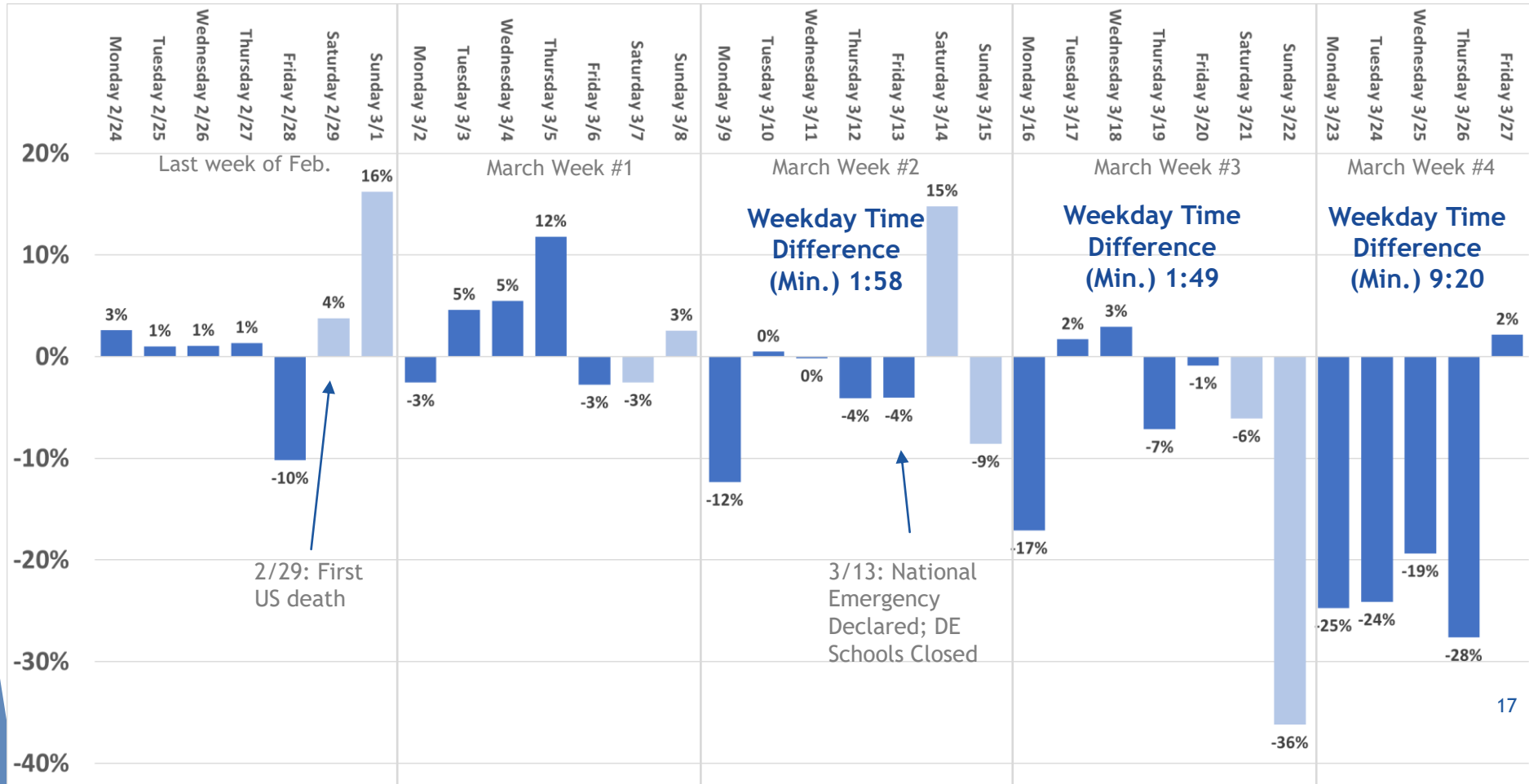
US 9 (Sussex): US 13 to DE 1

Comparison of combined travel times average for both directions(see map) from the same time period in 2019 to 2020. PM peak period is measured from 4pm-6pm.



Approx. 26 Miles

Departure in Travel Times: March 2020 vs. March 2019 PM peak Period



Typical PM Travel Time :
Approx: 44 minutes

Weekday Corridor Travel Time Changes
(PM Peak)

	PM Peak Avg. Travel Time 2019	PM Peak Avg. Travel Time 2020	PM peak Corridor Travel Time Difference (min.)
Last week Feb.	44.77	44.34	0.43
March Week #1	44.68	46.11	-1.43
March Week #2	45.92	43.97	1.95
March Week #3	45.27	43.43	1.84
March Week #4	48.87	39.54	9.33

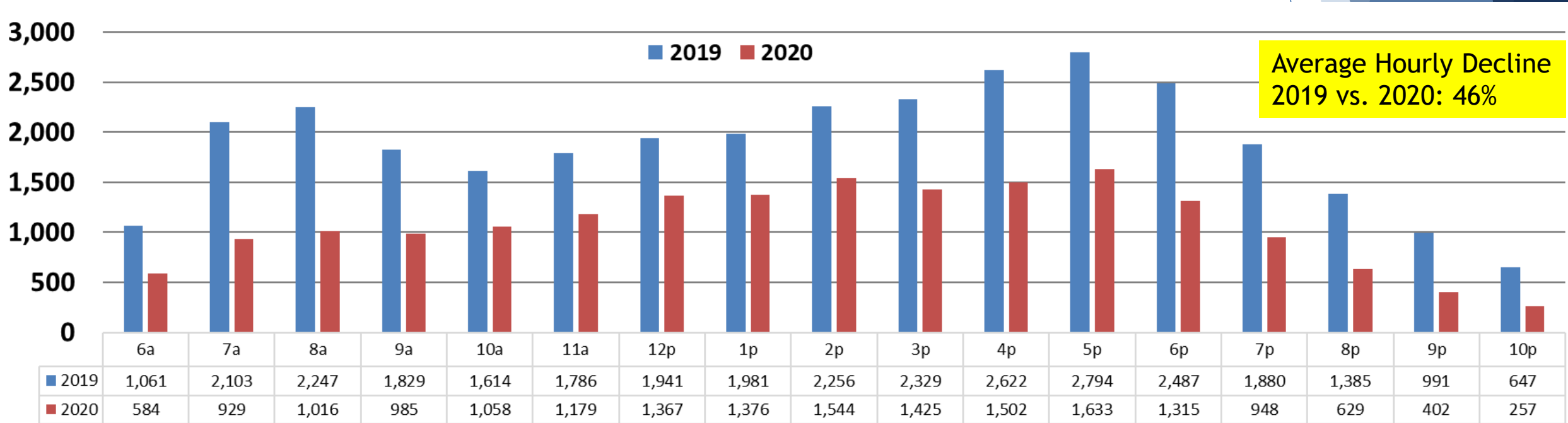
Next Steps

- Add April once data becomes available in May
- Look back into Feb for some greater trend info
- Compare to AADT data
- Evaluate over time once things get back to “normal”

Next Steps

- What will “normal” look like?
- Traffic data collection delays for many projects

US 40 @ Scotland Drive Intersection Volume Comparison -
Last Week of March 2019 vs. 2020



Next Steps

- What will “normal” look like?
- Traffic data collection delays

Park & Ride /Park & Pool Usage
April 2019 vs. 2020

Station Location	Avg. Spring Usage 2019 - 2019	April 2020	Change
Claymont Train Station	457	6	-99%
Fairplay Station	189	1	-99%
Newark Train Station	269	5	-98%
Peoples Plaza, Rt 896 & 40	38	7	-81%
Prices Corner, Centerville Road	29	3	-90%
Route 896 and Route 4, Newark*	75	25	-67%
Route 7 and Route 273	57	14	-75%
Smyrna Rest Stop US 13 & SR1	41	3	-93%
Brandywine Springs Park	9	30	+224%
Delcastle Recreation Center	26	42	+65%

Average Daily Decline
2019 vs. 2020: 87%

Questions?