

MEMORANDUM

TO: Diocese of Southeast Florida Bishop's Committee on Re-Gathering
FROM: Ronald W. Helms, Ph.D.
DATE: 2020-09-30
SUBJECT: Selected Statistics that Summarize the Status of the COVID-19 Pandemic for Counties in the Diocese of Southeast Florida for the Period Ending 2020-09-28

The following displays (tables and graphs) contain:

- selected daily statistics that summarize the status of the COVID-19 pandemic for counties in the Diocese of Southeast Florida for the fortnight noted in the Subject line above, plus
- weekly statistics summarizing the status from the first week of June through this past Saturday,

compiled from data and statistics published through today's date by the Florida Department of Health (FL DOH) at

http://ww11.doh.state.fl.us/comm/_partners/covid19_report_archive/

IS THE EPIDEMIC OVER?

“Florida Gov. Ron DeSantis says he is lifting all restrictions on businesses statewide that were imposed to control the spread of the virus that causes COVID-19. Most significantly, that means restaurants and bars in the state can now operate at full capacity.

Up to now, restaurants and bars in Florida could serve customers indoors at 50% of legal occupancy. DeSantis said his new executive order lifts that restriction statewide, though local governments can keep additional limits in place if they're justified for health or economic reasons.

“Every business has the right to operate,” DeSantis said. “Some of the locals can do reasonable regulations. But you can't just say no.”¹

Our graph on page 8 shows that Miami/Dade has reported more than 150 Covid-19 Deaths per week every week since August 1. That graph and the ones on pages 9-10 show that the “curve” is not on its way down for Miami/Dade. The same graphs show that Broward County has reported an average of well over 50 Covid-19 Deaths per week since August 1 and it's not clear that the “curve” is going down, certainly not below 50. The same graphs show that since mid-July Palm Beach County has reported more than 50 Covid-19 Deaths per week (with 2 minor exceptions); the “curve” does not appear to be headed down.

¹ NPR: [Florida's Governor Lifts All COVID-19 Restrictions On Businesses Statewide](#)

Looking at the other counties' data in the "Covid-19 Deaths per Week" graphs one does not see a downward trend.

Politicians are politicians. They do what they do. They say what they say.

I see no evidence that the Covid-19 epidemic is coming to an end in the State of Florida and especially not in the Diocese of Southeast Florida. But my job is to present the best available data ("warts" and all) to you.

Making policy decisions for the Diocese and its parishes is your job.

Speaking of "warts"...

FL DOH CONTINUES TO HAVE REPORTING ISSUES.

FL DOH has done it again, in two ways.

A New Data Dump?

I have been unable to locate any FL DOH press releases or other news media information related to this but the data indicate there was another Covid-19 diagnostic lab "data dump" on September 28. Statewide, on September 30 DOH reported data through September 28. DOH reported for September 27 a low of 810 reported new Covid-19 positive test results (that DOH calls "new cases" ²) and for September 28 DOH reported 3,259 "new cases", a 402% one-day "increase". These anomalies—low numbers of "new cases" on the 27th and high numbers on the 28th—also show up as outliers in the "new cases" data for the counties in the Diocese of Southeast Florida, as we shall see below.

Recall that by explicit policy FL DOH reports "new cases", reported Covid-19 Hospitalizations, and reported Covid-19 Deaths on the dates FL DOH receives information about these events, not the dates the events occur. I discussed this misleading "date-of-report" reporting vs. "date-of-event" reporting in a recent supplemental report. Date-of-report issues are the most plausible explanation for the anomalous September 27-28 data.

FL DOH Reports Duplicate Data, Again

The second "gotcha" is, like the one above, one that can only be detected by investigating the FL DOH reports in detail. I have been unable to find any DOH press release or other public information about this issue.

- On September 28 (date in the DOH filename) DOH posted a report that was a duplicate of the report posted on September 27, both of which contained "Data through Sep 26, 2020 verified as of Sep 27, 2020 at 09:25 AM." (Note: The issues discussed in the previous section were with data for September 27 and 28; this issue is for September 26 data.)
 - I entered these data in my local database just once, for September 26.
 - On the following two days DOH reported data for subsequent dates, namely:
 - On September 29 DOH posted data "through Sep 27, 2020".
 - On September 30 DOH posted data "through Sep 28, 2020".

² I put "new cases" in quotation marks because FL DOH policies disregard new Covid-19 cases that are reported without concurrent Covid-19 diagnostic test results. When test results are delayed, as discussed in this paragraph for example, or when a diagnostic lab reports results weekly or less frequently, DOH disregards actual Covid-19 new cases, hospitalizations, or deaths that don't have concurrent positive test results.

- As of today DOH has not skipped another date (as it did twice earlier in September).
- Consequently this week's report contains information through September 28; ordinarily one would have expected to see data through September 29.
 - The fortnightly part of the report still contains information from 14 consecutive days.

THE USUAL ENDING...

Disclaimer

My usual disclaimer: As before, I personally extracted the numbers from the website and my work has not yet been reviewed by others. Although I worked carefully my error rate is not zero and I request that you be kind (as in, "Love thy neighbor....") when my data entry errors pop up—and tell me about them quickly so that I can repair them quickly.

Please let me know what changes you would like that will assist you in your very difficult assignment.

FYI but ultimately not very important, maybe: Outliers

Reported Covid-19 Deaths

- Previously Reported: Miami/Dade, September 22, 42 Covid-19 Deaths, (also affects Deaths per 100K Population): The data in this report match the data in the FL DOH website.
- Miami/Dade, September 22 and 24, 36 and 39 Covid-19 Deaths respectively, (also affects Deaths per 100K Population): The data in this report match the data in the FL DOH website.
- Miami/Dade, September 26 and 27, 0 and 0 Covid-19 Deaths respectively, (also affects Deaths per 100K Population): During this fortnight Miami/Dade reported a mean of 22.9 Covid-19 deaths per day. Zero deaths on these two consecutive dates is not credible. However, the data in this report match the data in the FL DOH website.
- All 6 counties, September 26-27, 0 total Covid-19 Deaths on the 26th and 2 on the 27th (also affects Deaths per 100K Population): These data are not credible. However, the data in this report match the data in the FL DOH website.
- Previously reported: Martin, September 22, 6 Covid-19 Deaths, (also affects Deaths per 100K Population): The data in this report match the data in the FL DOH website.
- Previously reported: Miami/Dade, September 17, 50 Covid-19 Deaths, (also affects Deaths per 100K Population): The data in this report match the data in the FL DOH website.
- Previously reported: Palm Beach, 22 Covid-19 Deaths, September 22 (also affects Deaths per 100K Population): The data in this report match the data in the FL DOH website.

Reported Covid-19 Hospitalizations

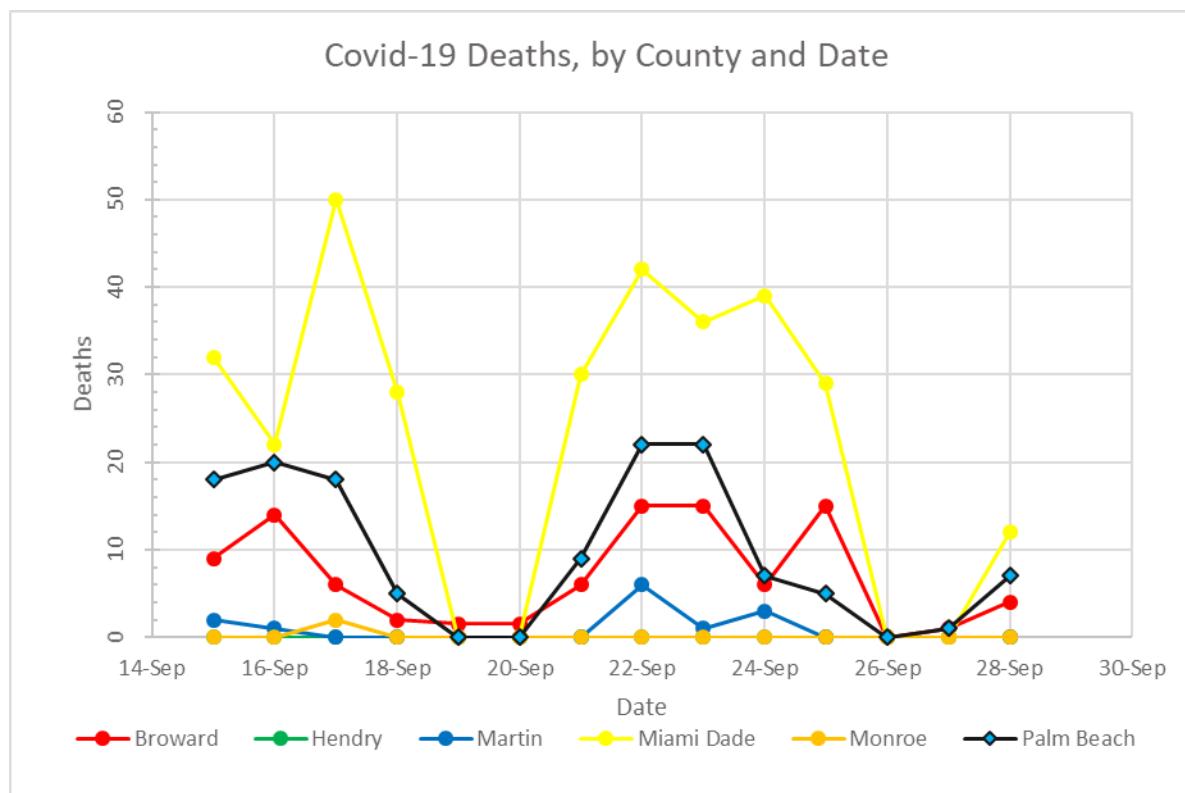
- Broward, September 28, 32 Hospitalizations (also affects Hospitalizations per 100K Population): The data in this report match the data in the FL DOH website. During this fortnight (including this date) Broward reported a mean of 14.1 Hospitalizations per day; 32 is an unusual value, 2.1 standard deviations from the mean, but not literally incredible.

- Miami/Dade, September 28, 22 Hospitalizations (also affects Hospitalizations per 100K Population): The data in this report match the data in the FL DOH website. This number (22) looks large in comparison to the preceding two days but is actually only 0.9 standard deviations from the fortnight mean, 14.6 Hospitalizations/day.
 - The situation is similar for Palm Beach on this date.
- Previously reported: Broward, 28 and 19 Covid-19 New Hospitalizations, September 21 and 22, respectively (also affects Covid-19 New Hospitalizations per 100K Population): The data in this report match the data in the FL DOH website.
- Previously reported: Hendry County, Covid-19 New Hospitalizations per 100K Population, September 15: The data in this report match the data in the FL DOH website. Hendry reported 3 new hospitalizations, producing 7.14 hospitalizations per 100K population.
- Previously reported: Hendry County, Covid-19 New Hospitalizations per 100K Population, September 22: The data in this report match the data in the FL DOH website. Hendry reported 2 new hospitalizations, producing 4.76 hospitalizations per 100K population.

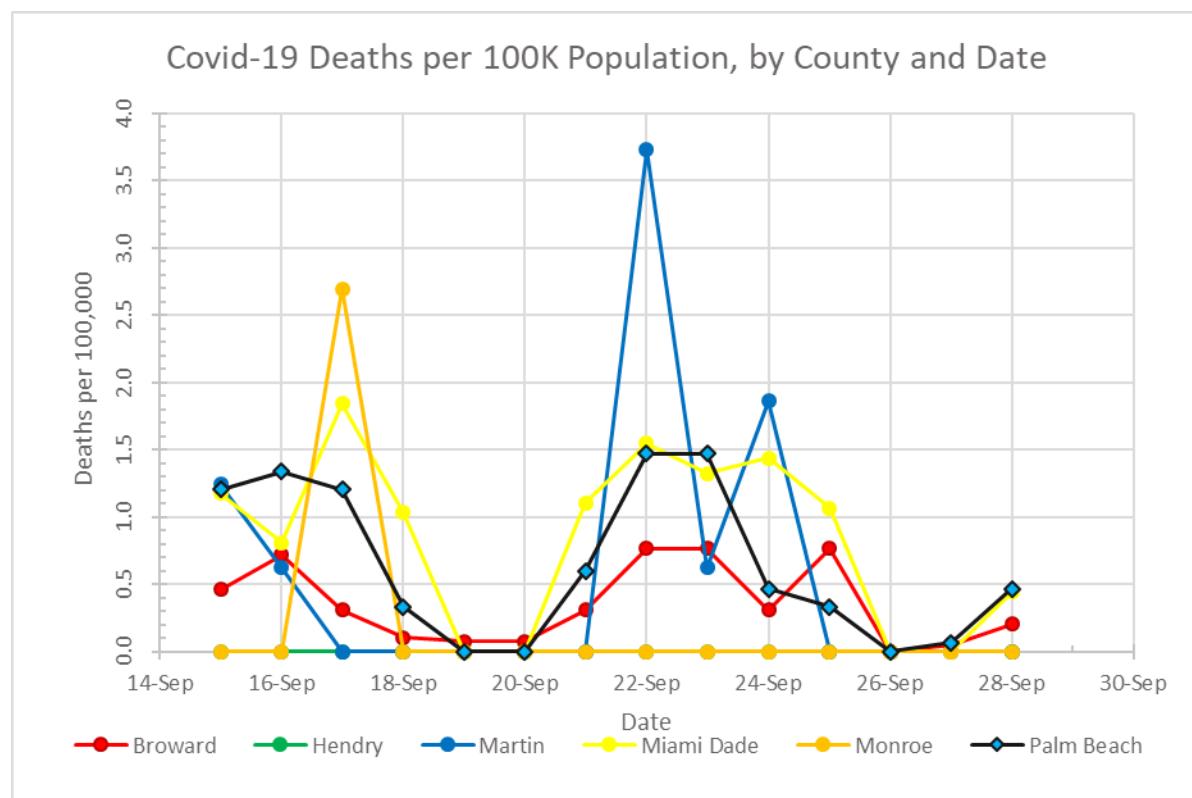
Reported New Covid-19 Cases

- Broward, Miami/Dade, and Palm Beach, September 27: Reported New Covid-19 Cases. The data in this report match the data in the FL DOH website. These counties' data for September 27 are 2.7, 2.4, and 2.2 standard deviations below the counties' corresponding fortnightly means. New Cases data from the other counties are also substantially lower than their fortnightly means. These DOH website data are not credible but I have been unable to find an explanation.
- Broward, Miami/Dade, and Palm Beach, September 28: Reported New Covid-19 Cases. The data in this report match the data in the FL DOH website. These counties' data for September 28 look "high", but that is in comparison to the preceding two days, noted above. In reality the points are only 1.4, 1.8, and 0.4 standard deviations from the respective fortnightly means.

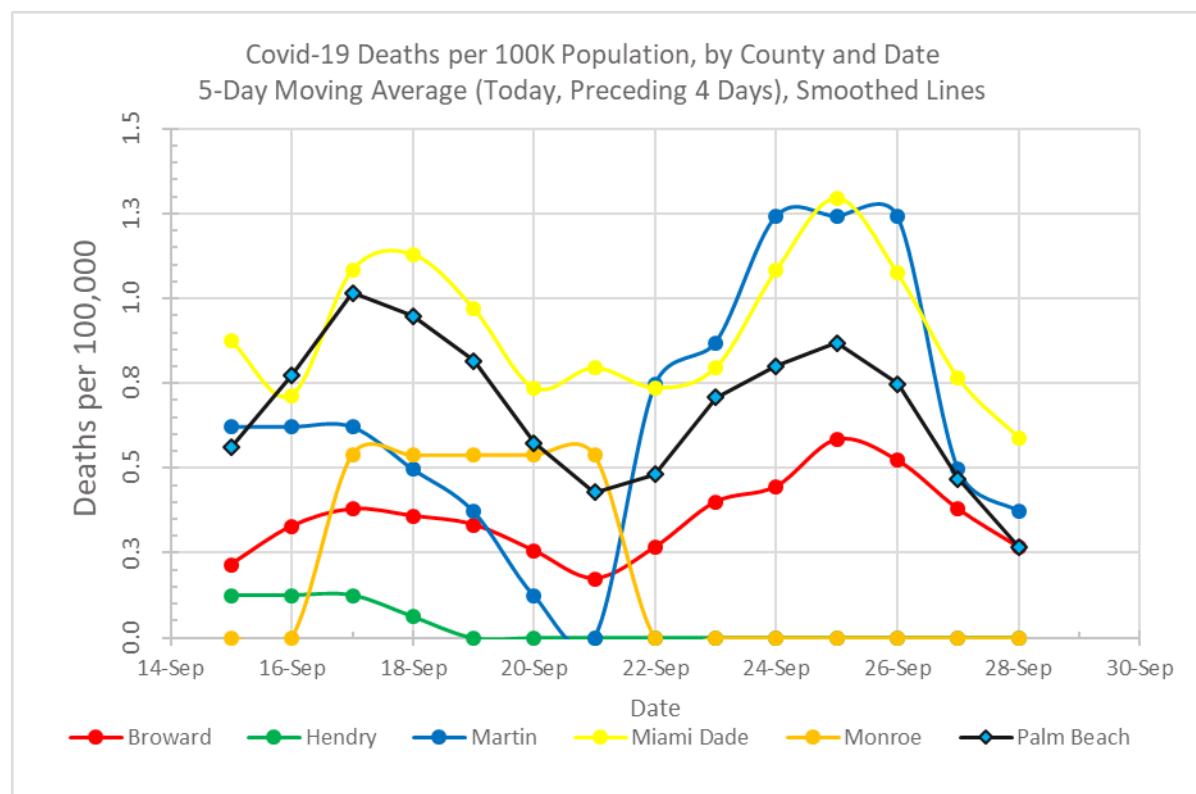
Covid-19 Deaths, by County and Date (Computed from Cumulative Year-to-Date Totals)														
Date	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep
Broward	9	14	6	2	1.5	1.5	6	15	15	6	15	0	1	4
Hendry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Martin	2	1	0	0	0	0	0	6	1	3	0	0	0	0
Miami Dade	32	22	50	28	0	0	30	42	36	39	29	0	0	12
Monroe	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Palm Beach	18	20	18	5	0	0	9	22	22	7	5	0	1	7



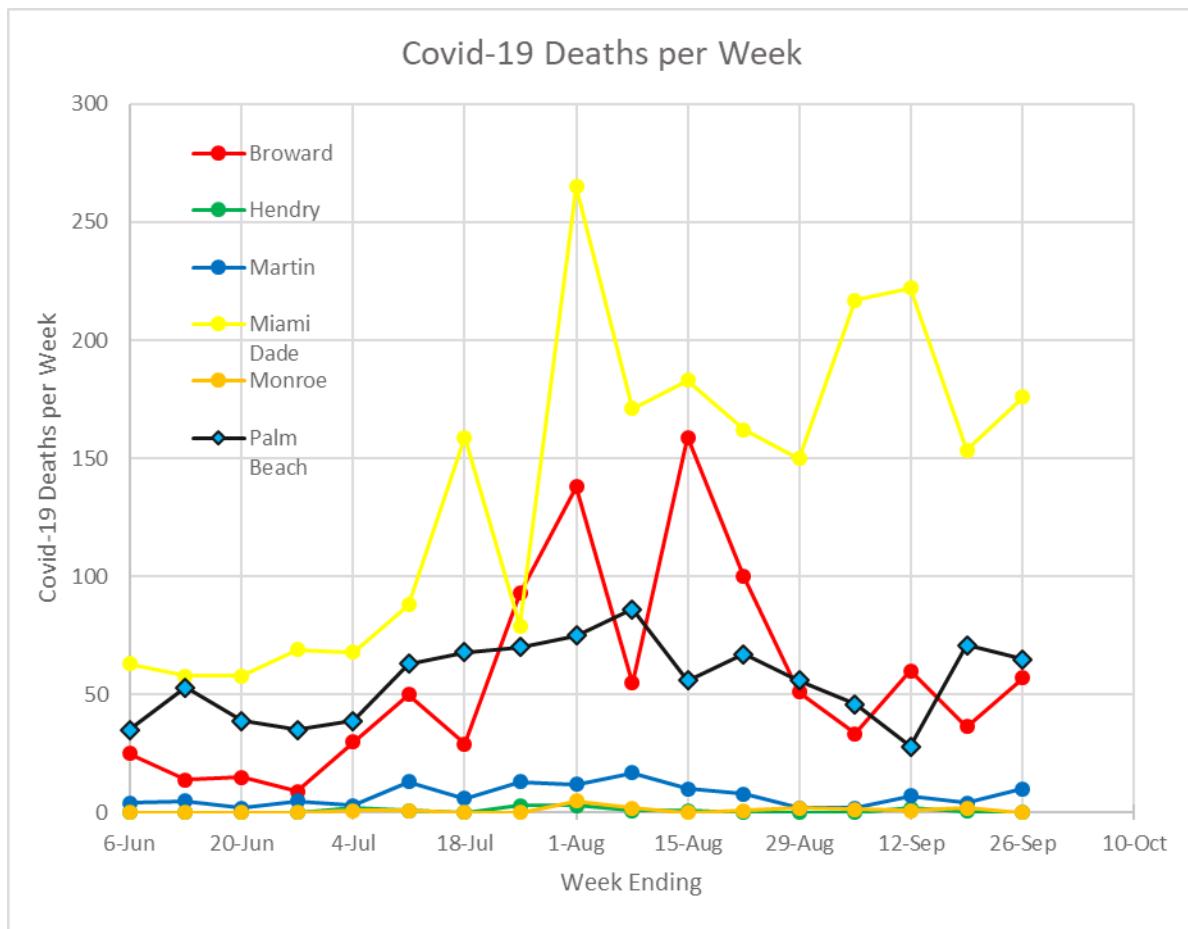
Covid-19 Deaths per 100,000 Population, by County and Date (Computed from US Census Bureau 2019 Est. Populations and Table above)															
Date	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	
Broward	0.46	0.72	0.31	0.10	0.08	0.08	0.31	0.77	0.77	0.31	0.77	0.00	0.05	0.20	
Hendry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Martin	1.24	0.62	0.00	0.00	0.00	0.00	0.00	3.73	0.62	1.86	0.00	0.00	0.00	0.00	
Miami Dade	1.18	0.81	1.84	1.03	0.00	0.00	1.10	1.55	1.33	1.44	1.07	0.00	0.00	0.44	
Monroe	0.00	0.00	2.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Palm Beach	1.20	1.34	1.20	0.33	0.00	0.00	0.60	1.47	1.47	0.47	0.33	0.00	0.07	0.47	



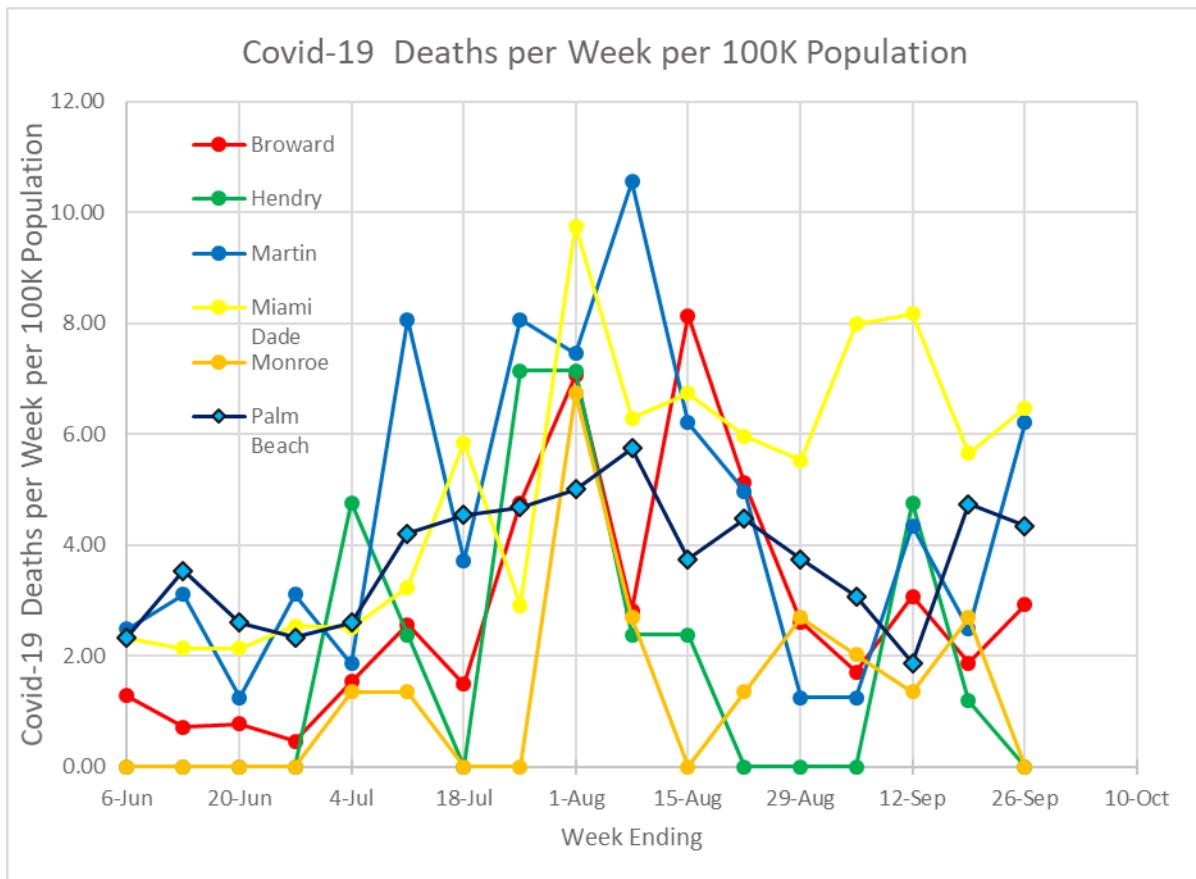
Covid-19 Deaths per 100,000 Population, by County and Date, 5-Day Moving Averages: Today, Preceding 4 Days (Computed from Table above)														
Date	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep
Broward	0.22	0.33	0.38	0.36	0.33	0.26	0.17	0.27	0.40	0.45	0.58	0.52	0.38	0.27
Hendry	0.12	0.12	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Martin	0.62	0.62	0.62	0.50	0.37	0.12	0.00	0.75	0.87	1.24	1.24	1.24	0.50	0.37
Miami Dade	0.88	0.71	1.08	1.13	0.97	0.74	0.80	0.74	0.80	1.08	1.30	1.07	0.77	0.59
Monroe	0.00	0.00	0.54	0.54	0.54	0.54	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Palm Beach	0.56	0.78	1.02	0.95	0.82	0.57	0.43	0.48	0.71	0.80	0.87	0.75	0.47	0.27



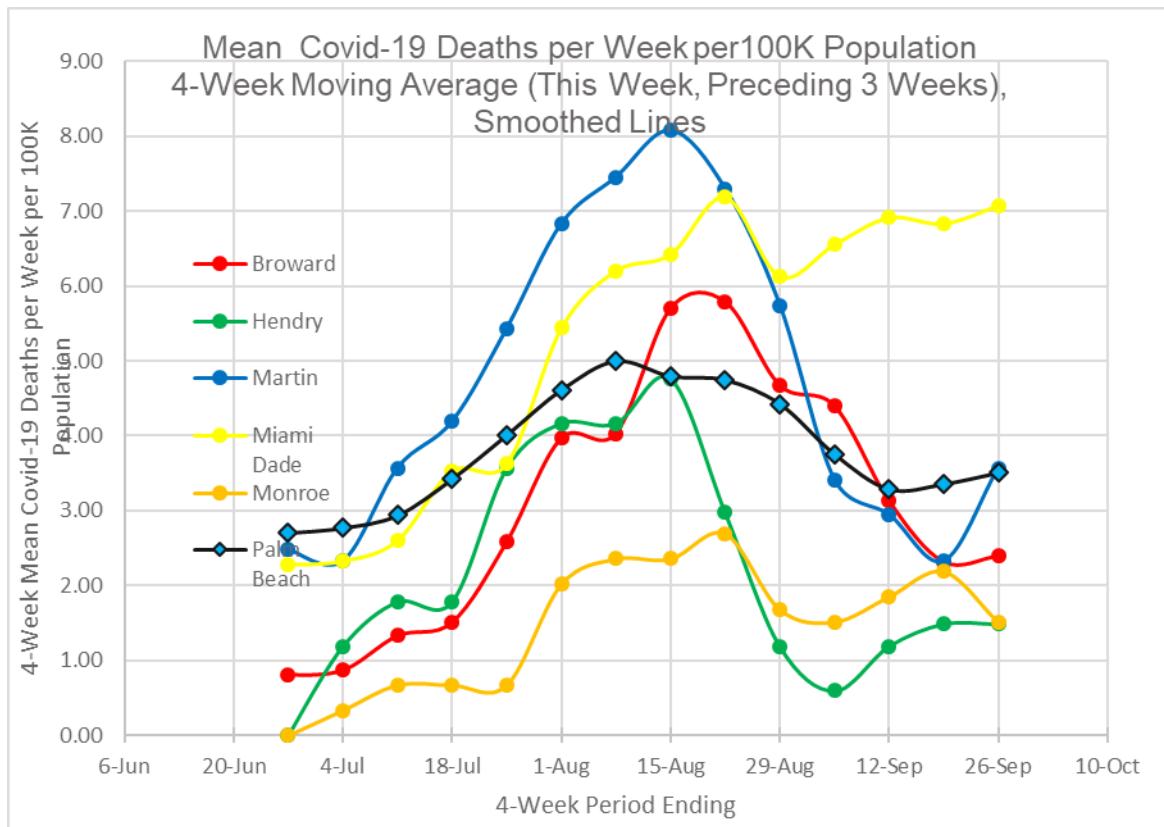
Covid-19 Deaths per Week						
Week End	Broward	Hendry	Martin	Miami Dade	Monroe	Palm Beach
2020-06-06	25	0	4	63	0	35
2020-06-13	14	0	5	58	0	53
2020-06-20	15	0	2	58	0	39
2020-06-27	9	0	5	69	0	35
2020-07-04	30	2	3	68	1	39
2020-07-11	50	1	13	88	1	63
2020-07-18	29	0	6	159	0	68
2020-07-25	93	3	13	79	0	70
2020-08-01	138	3	12	265	5	75
2020-08-08	55	1	17	171	2	86
2020-08-15	159	1	10	183	0	56
2020-08-22	100	0	8	162	1	67
2020-08-29	51	0	2	150	2	56
2020-09-05	33.5	0	2	217	1.5	46
2020-09-12	60	2	7	222	1	28
2020-09-19	36.5	0.5	4	153.5	2	71
2020-09-26	57	0	10	176	0	65



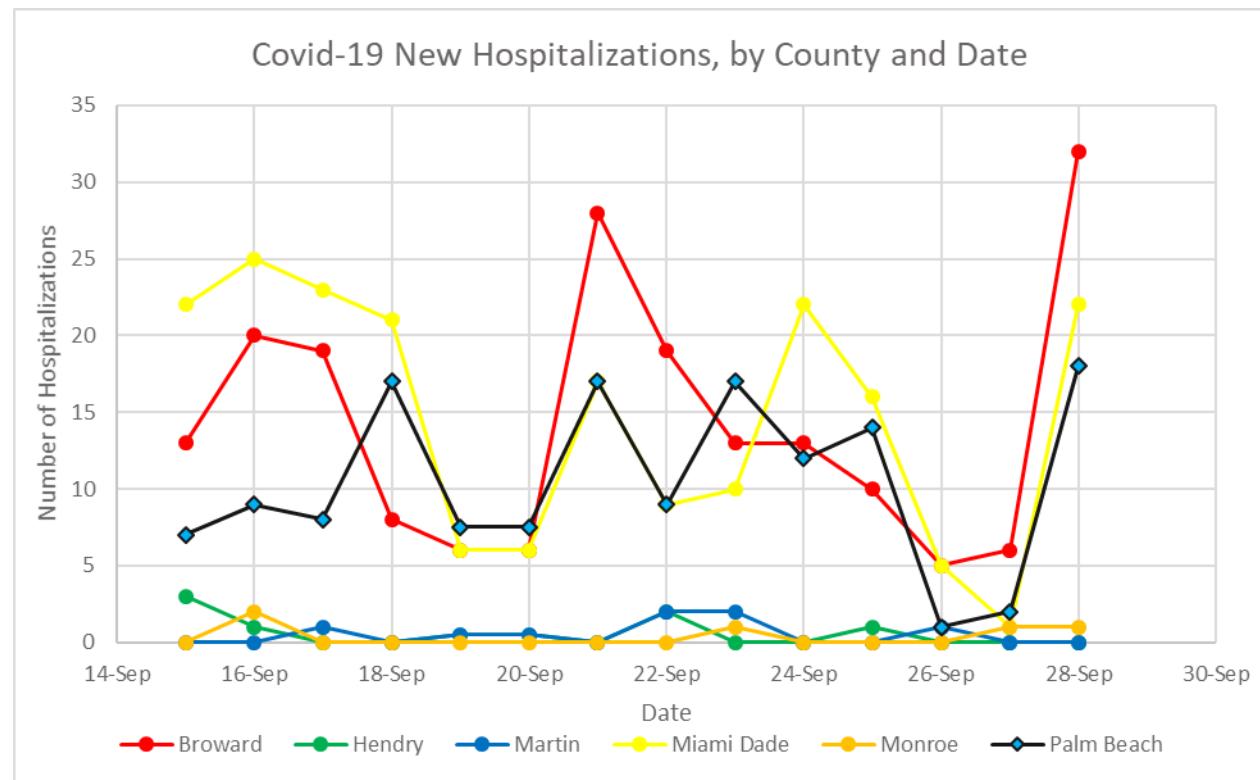
Week End	Broward	Hendry	Martin	Miami Dade	Monroe	Palm Beach
2020-06-06	1.28	0.00	2.48	2.32	0.00	2.34
2020-06-13	0.72	0.00	3.11	2.13	0.00	3.54
2020-06-20	0.77	0.00	1.24	2.13	0.00	2.61
2020-06-27	0.46	0.00	3.11	2.54	0.00	2.34
2020-07-04	1.54	4.76	1.86	2.50	1.35	2.61
2020-07-11	2.56	2.38	8.07	3.24	1.35	4.21
2020-07-18	1.49	0.00	3.73	5.85	0.00	4.54
2020-07-25	4.76	7.14	8.07	2.91	0.00	4.68
2020-08-01	7.07	7.14	7.45	9.75	6.74	5.01
2020-08-08	2.82	2.38	10.56	6.29	2.69	5.75
2020-08-15	8.14	2.38	6.21	6.74	0.00	3.74
2020-08-22	5.12	0.00	4.97	5.96	1.35	4.48
2020-08-29	2.61	0.00	1.24	5.52	2.69	3.74
2020-09-05	1.72	0.00	1.24	7.99	2.02	3.07
2020-09-12	3.07	4.76	4.35	8.17	1.35	1.87
2020-09-19	1.87	1.19	2.48	5.65	2.69	4.74
2020-09-26	2.92	0.00	6.21	6.48	0.00	4.34



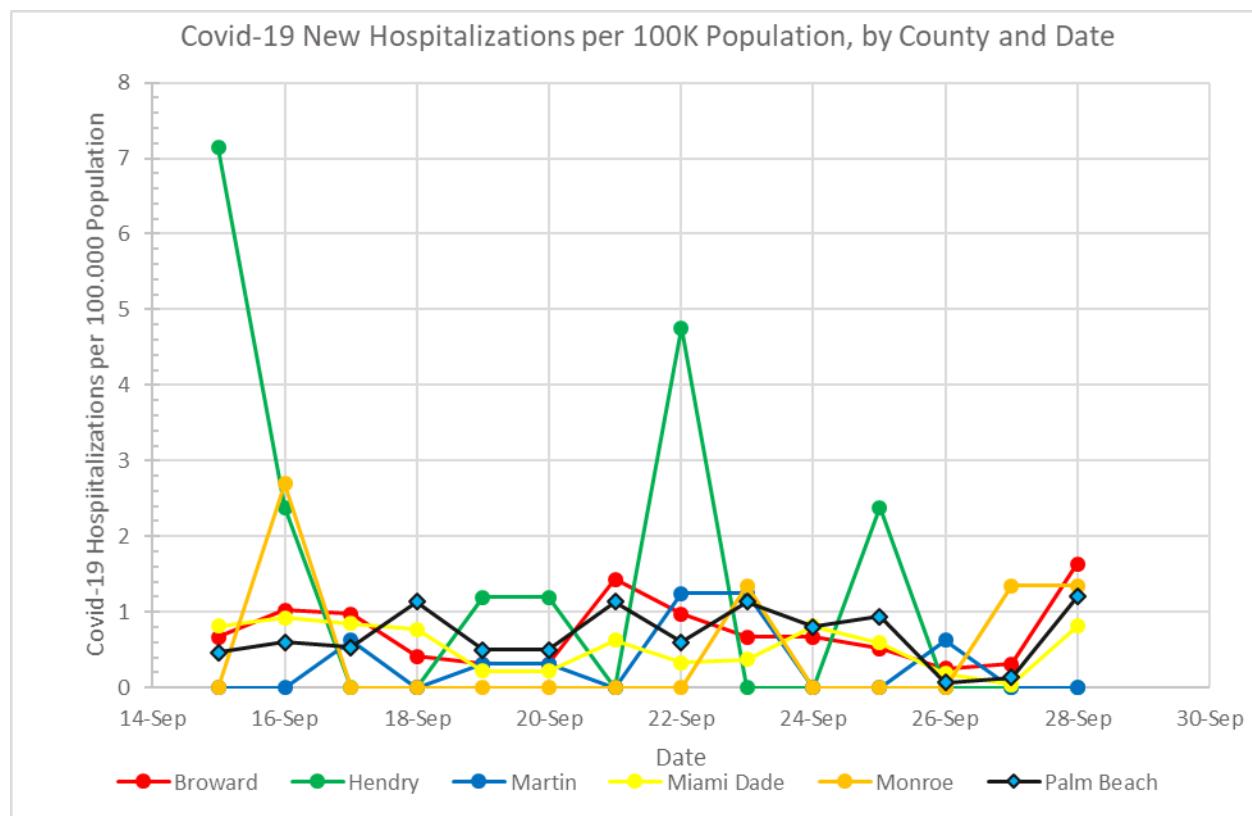
Mean Covid-19 Deaths per Week per 100K Population						
4-Week End	Broward	Hendry	Martin	Miami Dade	Monroe	Palm Beach
2020-06-06						
2020-06-13						
2020-06-20						
2020-06-27	0.81	0.00	2.48	2.28	0.00	2.71
2020-07-04	0.87	1.19	2.33	2.33	0.34	2.77
2020-07-11	1.33	1.78	3.57	2.60	0.67	2.94
2020-07-18	1.51	1.78	4.19	3.53	0.67	3.42
2020-07-25	2.59	3.57	5.43	3.63	0.67	4.01
2020-08-01	3.97	4.16	6.83	5.44	2.02	4.61
2020-08-08	4.03	4.16	7.45	6.20	2.36	4.99
2020-08-15	5.70	4.76	8.07	6.42	2.36	4.79
2020-08-22	5.79	2.97	7.30	7.19	2.69	4.74
2020-08-29	4.67	1.19	5.75	6.13	1.68	4.43
2020-09-05	4.40	0.59	3.42	6.55	1.52	3.76
2020-09-12	3.13	1.19	2.95	6.91	1.85	3.29
2020-09-19	2.32	1.49	2.33	6.83	2.19	3.36
2020-09-26	2.39	1.49	3.57	7.07	1.52	3.51



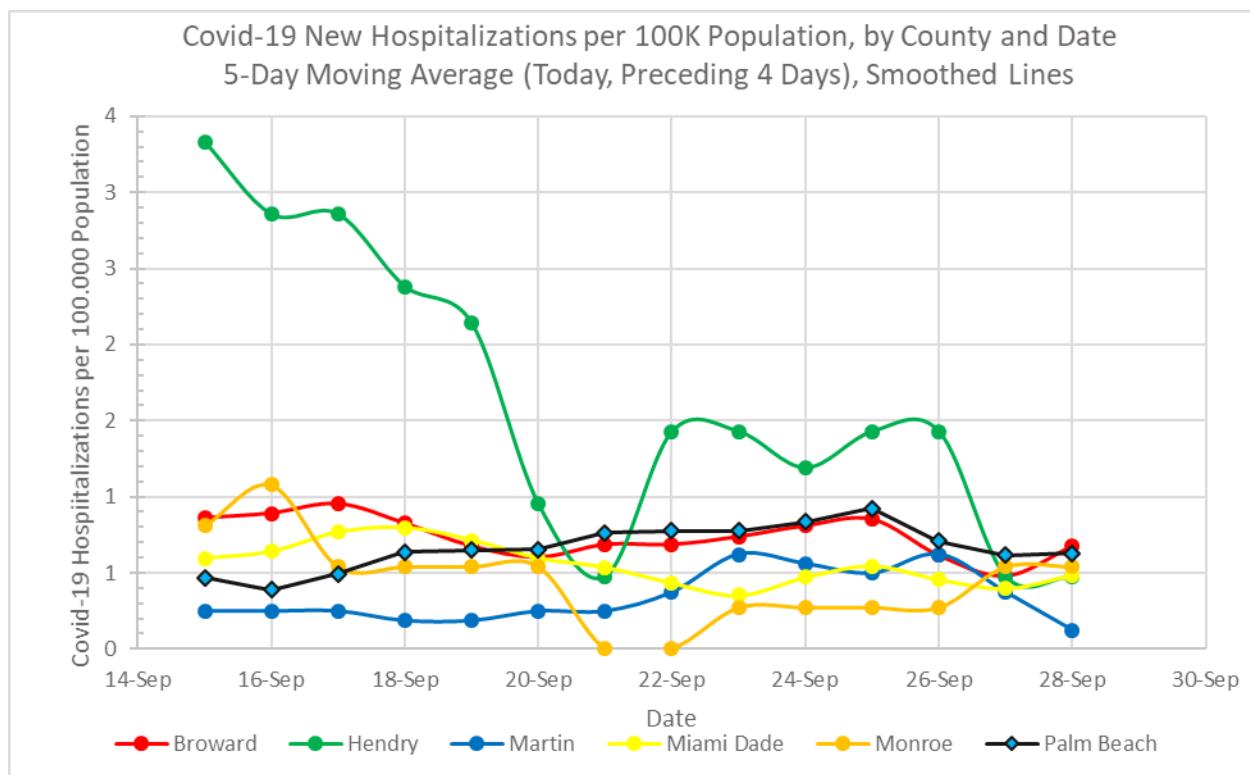
Covid-19 New Hospitalizations, by County and Date														
Date	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep
Broward	13	20	19	8	6	6	28	19	13	13	10	5	6	32
Hendry	3	1	0	0	0.5	0.5	0	2	0	0	1	0	0	0
Martin	0	0	1	0	0.5	0.5	0	2	2	0	0	1	0	0
Miami Dade	22	25	23	21	6	6	17	9	10	22	16	5	1	22
Monroe	0	2	0	0	0	0	0	0	1	0	0	0	1	1
Palm Beach	7	9	8	17	7.5	7.5	17	9	17	12	14	1	2	18



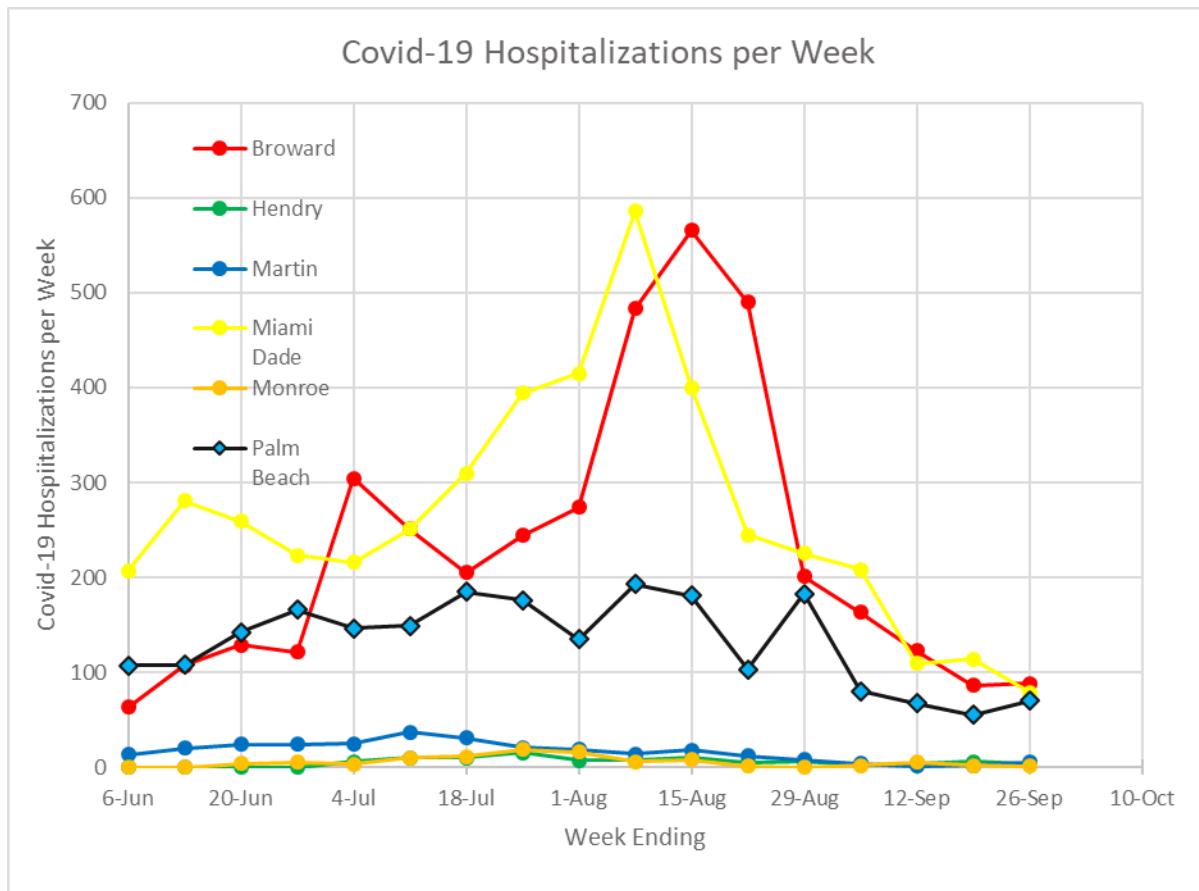
Covid-19 New Hospitalizations per 100K Population, by County and Date (Computed from US Census Bureau 2019 Est. Populations and Hospitalizations Table)														
Date	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep
Broward	0.67	1.02	0.97	0.41	0.31	0.31	1.43	0.97	0.67	0.67	0.51	0.26	0.31	1.64
Hendry	7.14	2.38	0.00	0.00	1.19	1.19	0.00	4.76	0.00	0.00	2.38	0.00	0.00	0.00
Martin	0.00	0.00	0.62	0.00	0.31	0.31	0.00	1.24	1.24	0.00	0.00	0.62	0.00	0.00
Miami Dade	0.81	0.92	0.85	0.77	0.22	0.22	0.63	0.33	0.37	0.81	0.59	0.18	0.04	0.81
Monroe	0.00	2.69	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	1.35	1.35
Palm Beach	0.47	0.60	0.53	1.14	0.50	0.50	1.14	0.60	1.14	0.80	0.94	0.07	0.13	1.20



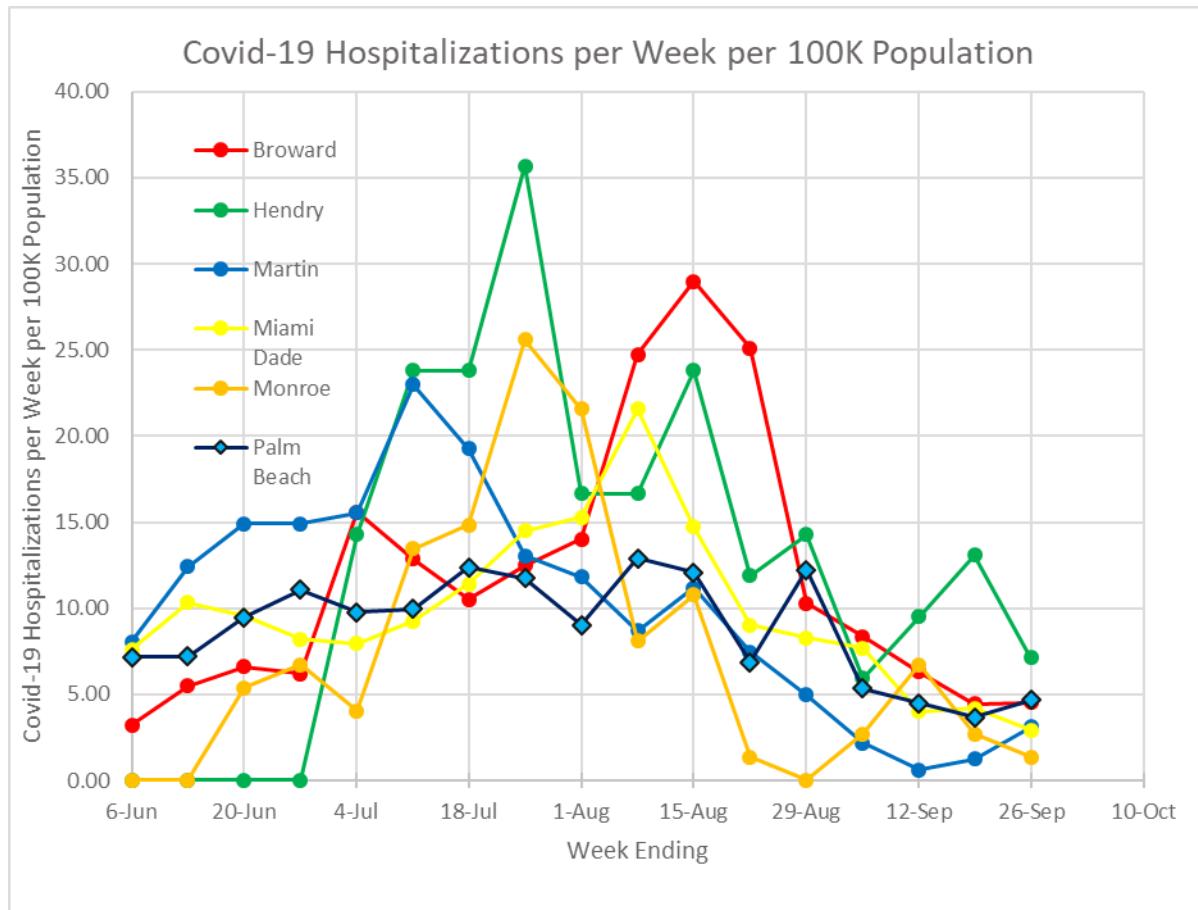
Covid-19 New Hospitalizations per 100K Population, by County and Date, 5-Day Moving Averages: Today, Preceding 4 Days, (Computed from New Cases per 100K Table)														
Date	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep
Broward	0.86	0.89	0.95	0.82	0.68	0.60	0.69	0.69	0.74	0.81	0.85	0.61	0.48	0.68
Hendry	3.33	2.86	2.86	2.38	2.14	0.95	0.48	1.43	1.43	1.19	1.43	1.43	0.48	0.48
Martin	0.25	0.25	0.25	0.19	0.19	0.25	0.25	0.37	0.62	0.56	0.50	0.62	0.37	0.12
Miami Dade	0.60	0.64	0.77	0.80	0.71	0.60	0.54	0.43	0.35	0.47	0.54	0.46	0.40	0.49
Monroe	0.81	1.08	0.54	0.54	0.54	0.54	0.00	0.00	0.27	0.27	0.27	0.27	0.54	0.54
Palm Beach	0.47	0.39	0.49	0.63	0.65	0.65	0.76	0.78	0.78	0.84	0.92	0.71	0.61	0.63



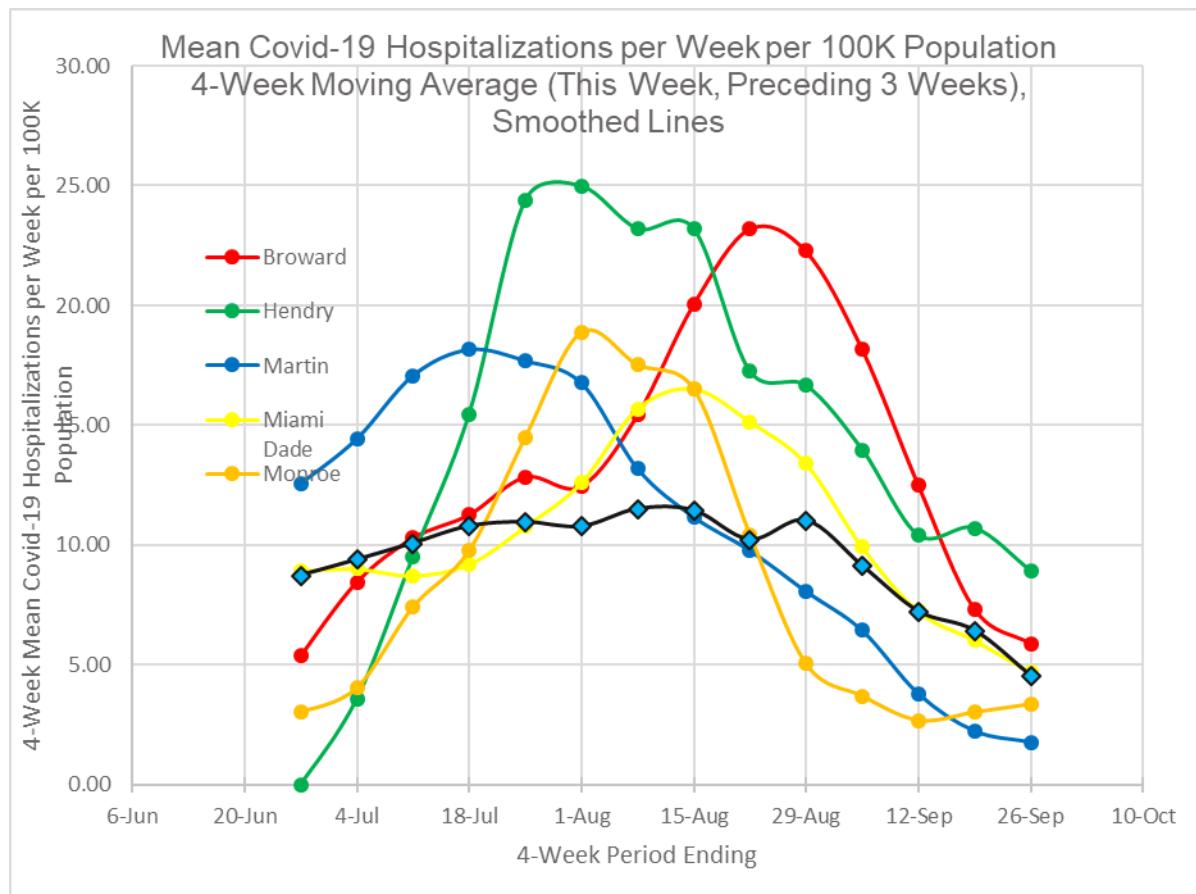
Covid-19 Hospitalizations per Week						
Week End	Broward	Hendry	Martin	Miami Dade	Monroe	Palm Beach
2020-06-06	63	0	13	207	0	107
2020-06-13	107	0	20	281	0	108
2020-06-20	129	0	24	259	4	142
2020-06-27	121	0	24	223	5	166
2020-07-04	304	6	25	216	3	146
2020-07-11	251	10	37	251	10	149
2020-07-18	205	10	31	310	11	185
2020-07-25	244	15	21	394	19	176
2020-08-01	274	7	19	415	16	135
2020-08-08	483	7	14	586	6	193
2020-08-15	566	10	18	400	8	181
2020-08-22	490	5	12	245	1	103
2020-08-29	201	6	8	225	0	183
2020-09-05	163	2.5	3.5	208.5	2	80
2020-09-12	123	4	1	109	5	67
2020-09-19	86.5	5.5	2	114	2	55
2020-09-26	88	3	5	79	1	70



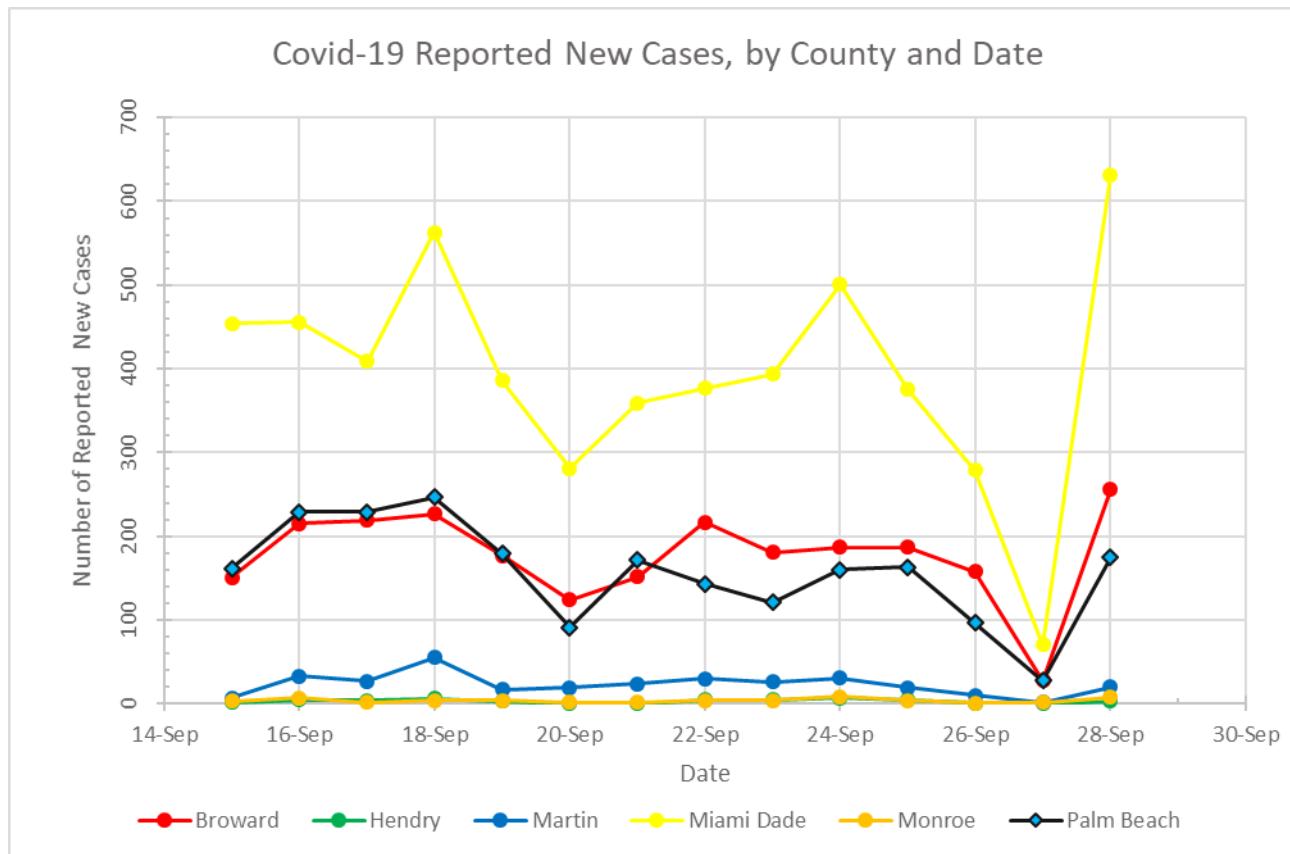
Covid-19 Hospitalizations per Week per 100K Population						
Computed from US Census Bureau 2019 Estimated Populations						
	and Hospitalizations/Week					
Week End	Broward	Hendry	Martin	Miami Dade	Monroe	Palm Beach
2020-06-06	3.23	0.00	8.07	7.62	0.00	7.15
2020-06-13	5.48	0.00	12.42	10.34	0.00	7.22
2020-06-20	6.61	0.00	14.91	9.53	5.39	9.49
2020-06-27	6.20	0.00	14.91	8.21	6.74	11.09
2020-07-04	15.57	14.28	15.53	7.95	4.04	9.75
2020-07-11	12.85	23.80	22.98	9.24	13.47	9.95
2020-07-18	10.50	23.80	19.25	11.41	14.82	12.36
2020-07-25	12.50	35.70	13.04	14.50	25.60	11.76
2020-08-01	14.03	16.66	11.80	15.27	21.56	9.02
2020-08-08	24.73	16.66	8.70	21.57	8.08	12.89
2020-08-15	28.98	23.80	11.18	14.72	10.78	12.09
2020-08-22	25.09	11.90	7.45	9.02	1.35	6.88
2020-08-29	10.29	14.28	4.97	8.28	0.00	12.23
2020-09-05	8.35	5.95	2.17	7.67	2.69	5.34
2020-09-12	6.30	9.52	0.62	4.01	6.74	4.48
2020-09-19	4.43	13.09	1.24	4.20	2.69	3.67
2020-09-26	4.51	7.14	3.11	2.91	1.35	4.68



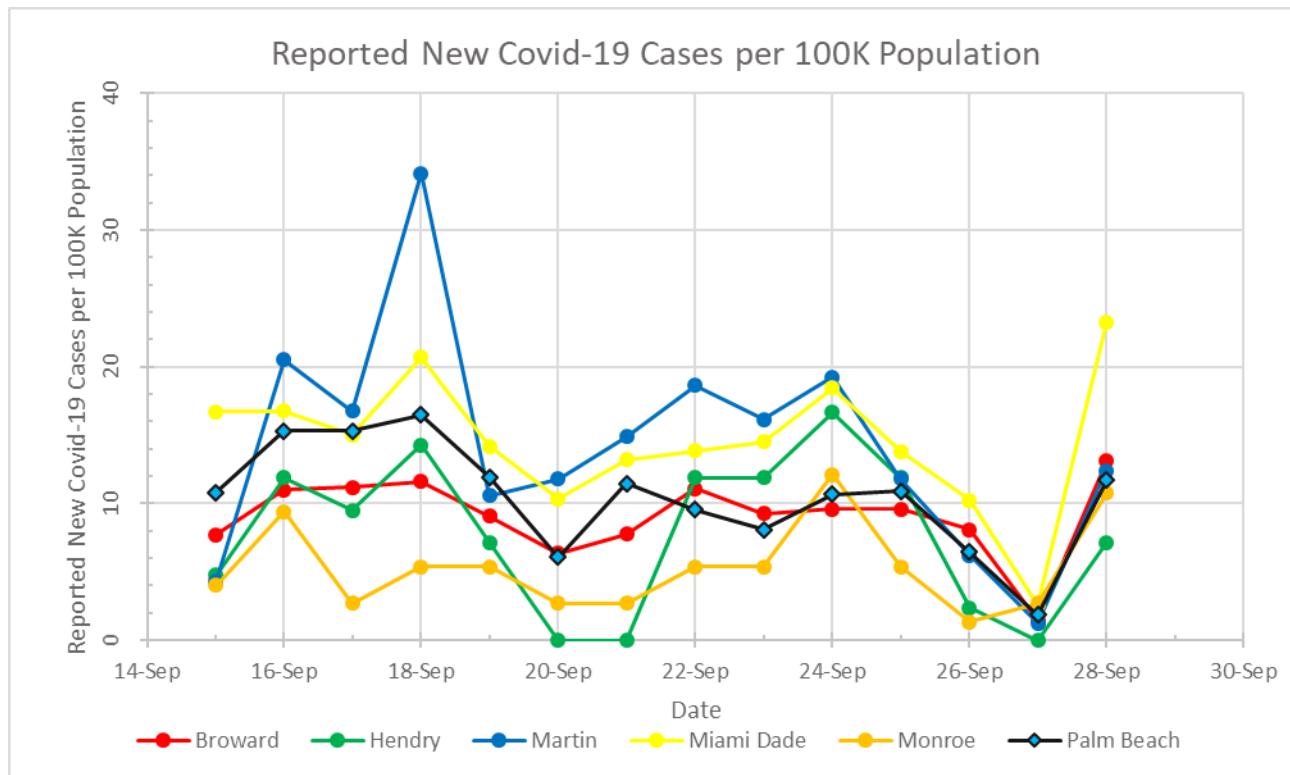
Mean Covid-19 Hospitalizations per Week per 100K Population						
4-Week End	Broward	Hendry	Martin	Miami Dade	Monroe	Palm Beach
2020-06-06						
2020-06-13						
2020-06-20						
2020-06-27	5.38	0.00	12.58	8.93	3.03	8.74
2020-07-04	8.46	3.57	14.44	9.01	4.04	9.39
2020-07-11	10.31	9.52	17.08	8.73	7.41	10.07
2020-07-18	11.28	15.47	18.17	9.20	9.77	10.79
2020-07-25	12.85	24.39	17.70	10.77	14.48	10.96
2020-08-01	12.47	24.99	16.77	12.61	18.86	10.77
2020-08-08	15.44	23.20	13.20	15.69	17.51	11.51
2020-08-15	20.06	23.20	11.18	16.52	16.50	11.44
2020-08-22	23.21	17.25	9.78	15.15	10.44	10.22
2020-08-29	22.28	16.66	8.07	13.40	5.05	11.02
2020-09-05	18.18	13.98	6.44	9.92	3.70	9.14
2020-09-12	12.51	10.41	3.80	7.25	2.69	7.23
2020-09-19	7.34	10.71	2.25	6.04	3.03	6.43
2020-09-26	5.90	8.92	1.79	4.70	3.37	4.54



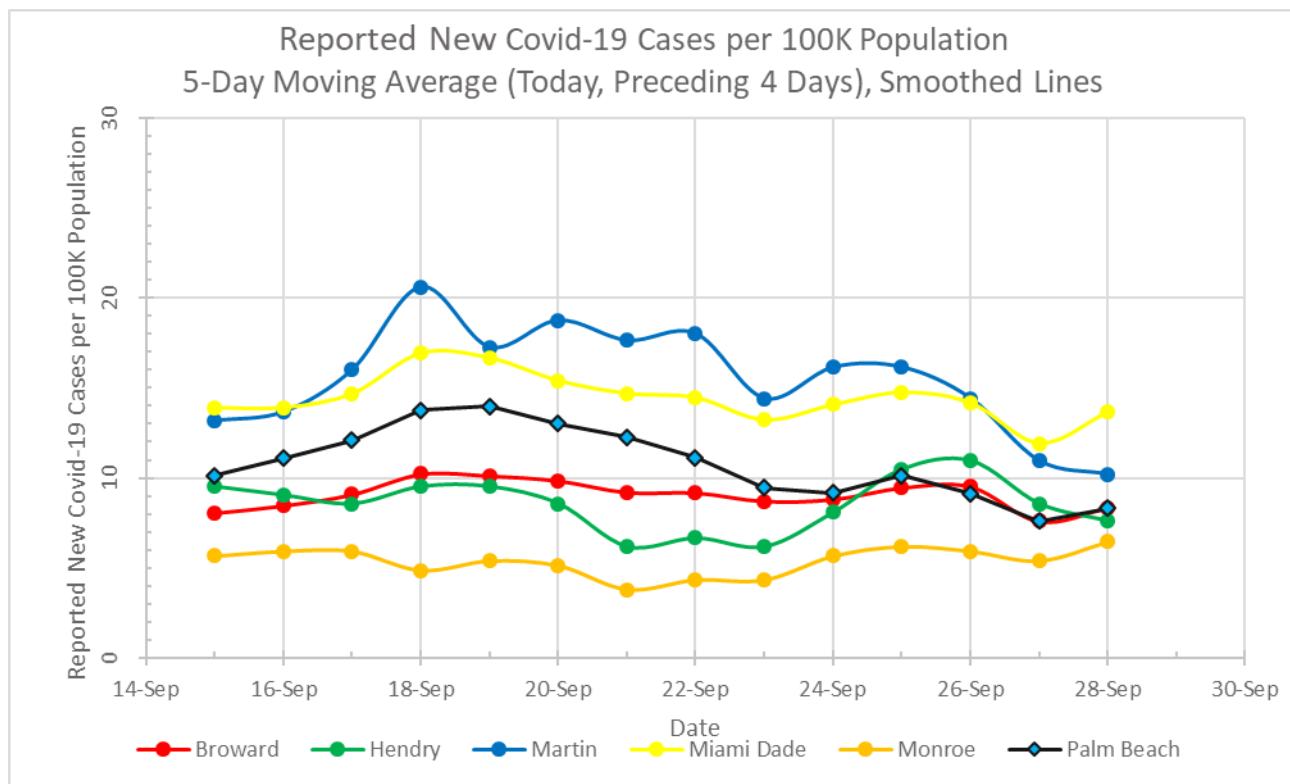
Covid-19 Reported New Cases, by County and Date														
Date	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep
Broward	151	215	219	227	177	124	152	217	181	187	187	158	28	256
Hendry	2	5	4	6	3	0	0	5	5	7	5	1	0	3
Martin	7	33	27	55	17	19	24	30	26	31	19	10	2	20
Miami Dade	454	456	409	563	386	281	359	377	394	501	375	279	71	632
Monroe	3	7	2	4	4	2	2	4	4	9	4	1	2	8
Palm Beach	162	229	229	247	179	91	172	143	121	160	163	97	28	175



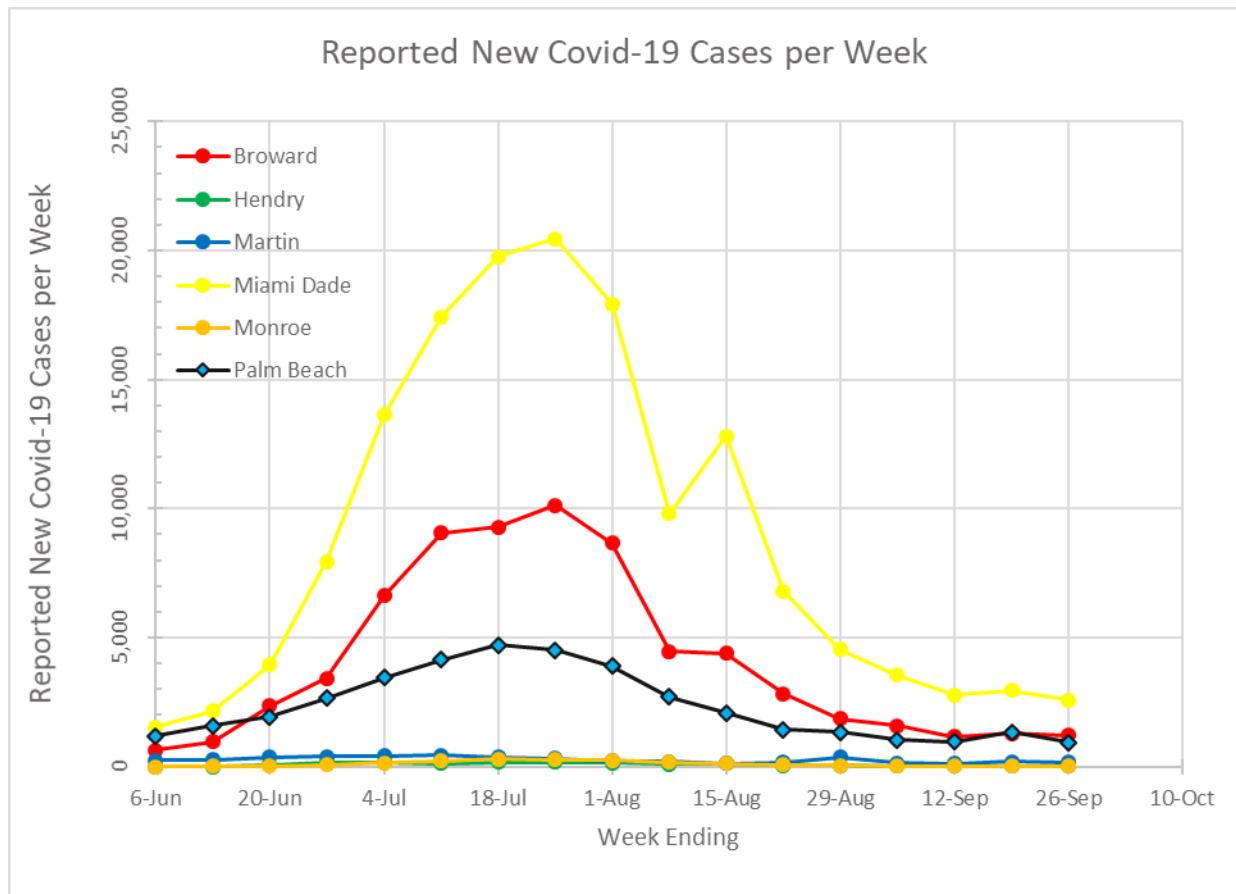
Reported New Covid-19 Cases per 100,000 Population, by County and Date (Computed from US Census Bureau 2019 Est. Populations and New Cases Table)														
Date	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep
Broward	7.73	11.01	11.21	11.62	9.06	6.35	7.78	11.11	9.27	9.58	9.58	8.09	1.43	13.11
Hendry	4.76	11.90	9.52	14.28	7.14	0.00	0.00	11.90	11.90	16.66	11.90	2.38	0.00	7.14
Martin	4.35	20.50	16.77	34.16	10.56	11.80	14.91	18.63	16.15	19.25	11.80	6.21	1.24	12.42
Miami Dade	16.71	16.78	15.05	20.72	14.21	10.34	13.21	13.88	14.50	18.44	13.80	10.27	2.61	23.26
Monroe	4.04	9.43	2.69	5.39	5.39	2.69	2.69	5.39	5.39	12.12	5.39	1.35	2.69	10.78
Palm Beach	10.82	15.30	15.30	16.50	11.96	6.08	11.49	9.55	8.08	10.69	10.89	6.48	1.87	11.69



Covid-19 New Cases per 100,000 Population, by County and Date, 5-Day Moving Averages: Today, Preceding 4 Days (Computed from New Cases per 100,000 Table)														
Date	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep
Broward	8.06	8.47	9.09	10.22	10.13	9.85	9.21	9.19	8.72	8.82	9.46	9.52	7.59	8.36
Hendry	9.52	9.04	8.57	9.52	9.52	8.57	6.19	6.66	6.19	8.09	10.47	10.95	8.57	7.62
Martin	13.17	13.66	16.02	20.62	17.27	18.76	17.64	18.01	14.41	16.15	16.15	14.41	10.93	10.19
Miami Dade	13.91	13.91	14.70	16.97	16.70	15.42	14.71	14.47	13.23	14.07	14.77	14.18	11.93	13.68
Monroe	5.66	5.93	5.93	4.85	5.39	5.12	3.77	4.31	4.31	5.66	6.20	5.93	5.39	6.47
Palm Beach	10.12	11.10	12.11	13.78	13.98	13.03	12.27	11.12	9.43	9.18	10.14	9.14	7.60	8.32

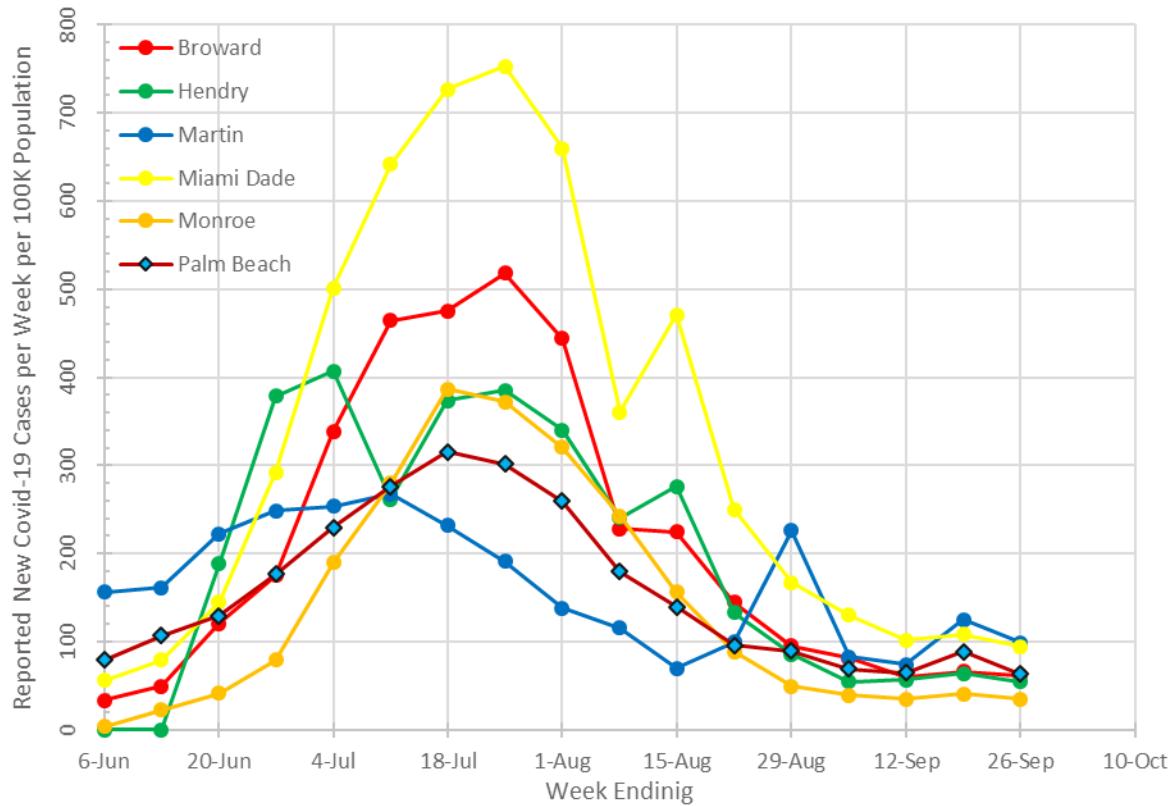


Reported New Covid-19 Cases per Week						
Week End	Broward	Hendry	Martin	Miami Dade	Monroe	Palm Beach
2020-06-06	651	0	252	1523	3	1182
2020-06-13	969	0	260	2157	17	1595
2020-06-20	2354	79	358	3931	31	1935
2020-06-27	3416	159	400	7934	59	2646
2020-07-04	6619	171	408	13625	141	3440
2020-07-11	9066	110	431	17430	208	4138
2020-07-18	9280	157	373	19754	287	4718
2020-07-25	10123	162	308	20464	276	4516
2020-08-01	8672	143	222	17932	238	3882
2020-08-08	4464	101	186	9795	180	2691
2020-08-15	4381	116	113	12801	116	2089
2020-08-22	2822	56	160	6803	66	1441
2020-08-29	1860	36	364	4551	37	1339
2020-09-05	1590	23	134	3546	29	1029
2020-09-12	1171	24	120	2768	26	971
2020-09-19	1292	27	201	2946	30	1332
2020-09-26	1206	23	159	2566	26	947



Reported New Covid-19 Cases per Week per 100K Population						
Computed from US Census Bureau 2019 Est. Populations						
	and Reported New Covid-19 Cases					
Week End	Broward	Hendry	Martin	Miami Dade	Monroe	Palm Beach
2020-06-06	33.34	0.00	156.52	56.06	4.04	78.97
2020-06-13	49.62	0.00	161.49	79.39	22.90	106.56
2020-06-20	120.55	188.00	222.36	144.68	41.76	129.28
2020-06-27	174.93	378.37	248.45	292.02	79.48	176.78
2020-07-04	338.95	406.93	253.42	501.48	189.96	229.83
2020-07-11	464.26	261.77	267.70	641.53	280.22	276.46
2020-07-18	475.22	373.61	231.68	727.07	386.65	315.21
2020-07-25	518.39	385.51	191.30	753.20	371.83	301.72
2020-08-01	444.09	340.30	137.89	660.01	320.63	259.36
2020-08-08	228.60	240.35	115.53	360.52	242.50	179.79
2020-08-15	224.35	276.05	70.19	471.16	156.28	139.57
2020-08-22	144.51	133.26	99.38	250.39	88.92	96.27
2020-08-29	95.25	85.67	226.09	167.50	49.85	89.46
2020-09-05	81.42	54.73	83.23	130.51	39.07	68.75
2020-09-12	59.97	57.11	74.53	101.88	35.03	64.87
2020-09-19	66.16	64.25	124.84	108.43	40.42	88.99
2020-09-26	61.76	54.73	98.76	94.44	35.03	63.27

Reported New Covid-19 Cases per Week per 100K Population



Mean Reported New Covid-19 Cases per Week per 100K Population						
4-Week Moving Averages: This Week, Preceding 3 Weeks						
4-Week End	Broward	Hendry	Martin	Miami Dade	Monroe	Palm Beach
2020-06-06						
2020-06-13						
2020-06-20						
2020-06-27	94.61	141.59	197.20	143.04	37.05	122.90
2020-07-04	171.01	243.32	221.43	254.39	83.53	160.61
2020-07-11	274.67	308.77	247.98	394.93	147.86	203.09
2020-07-18	363.34	355.17	250.31	540.53	234.08	249.57
2020-07-25	449.21	356.96	236.02	655.82	307.16	280.80
2020-08-01	475.49	340.30	207.14	695.45	339.83	288.19
2020-08-08	416.57	334.94	169.10	625.20	330.40	264.02
2020-08-15	353.85	310.55	128.73	561.22	272.81	220.11
2020-08-22	260.39	247.49	105.75	435.52	202.08	168.75
2020-08-29	173.18	183.83	127.80	312.39	134.38	126.27
2020-09-05	136.38	137.43	119.72	254.89	83.53	98.51
2020-09-12	95.29	82.69	120.81	162.57	53.21	79.84
2020-09-19	75.70	65.44	127.17	127.08	41.09	78.02
2020-09-26	67.33	57.71	95.34	108.82	37.38	71.47

