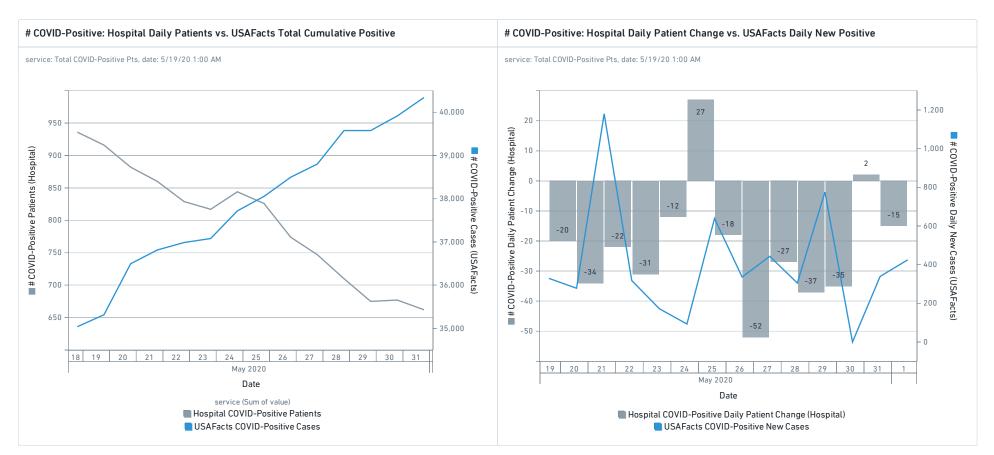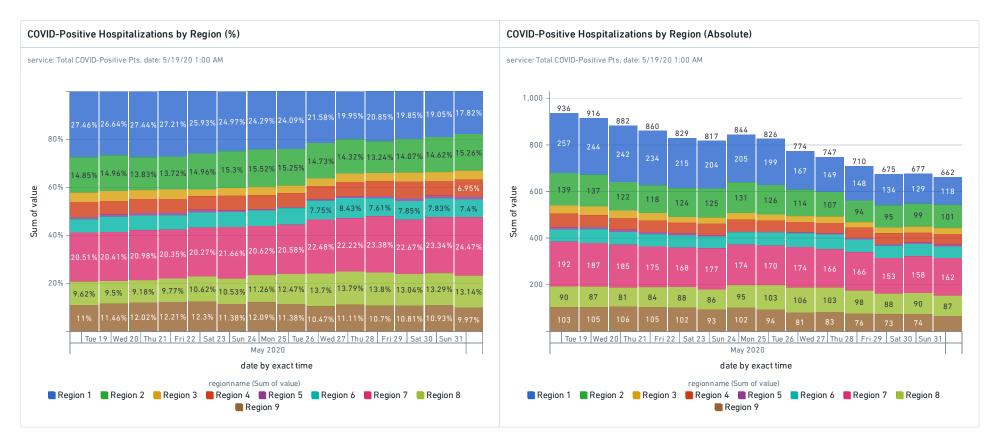# Tulane Case Review Report

I. Review of Total COVID-Positive: Comparing Hospital-reported patient figures against USAFacts total figures

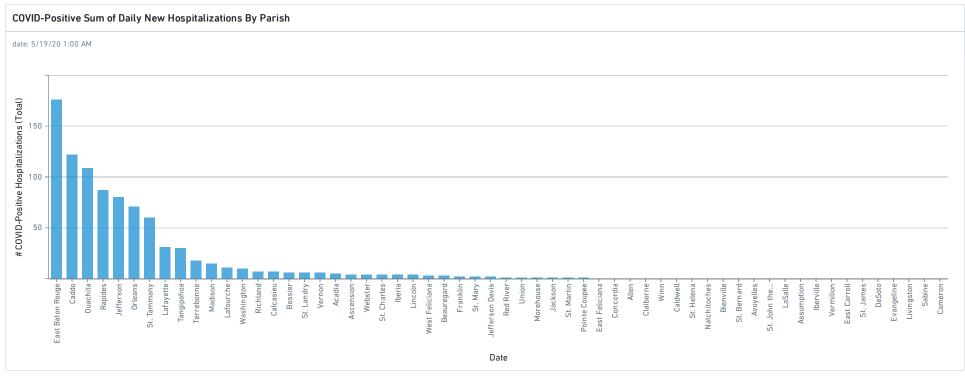| # COVID-Positive: Hospital Daily Patients vs. USAFacts Total Cumulative Positive	# COVID-Positive: Hospital Daily Patient Change vs. USAFacts Daily New Positive
service: Total COVID-Positive Pts, date: 5/19/20 1:00 AM	service: Total COVID-Positive Pts, date: 5/19/20 1:00 AM

service (Sum of value)
- Hospital COVID-Positive Patients
- USAFacts COVID-Positive Cases

- Hospital COVID-Positive Daily Patient Change (Hospital)
- USAFacts COVID-Positive New Cases

The above chart reviews in daily total volume of hospital COVID-POSITIVE patients against the broader publicly reported cases for the state. It's worth noting here that this is a comparison of ongoing hospitalizations against cumulative cases, not cumulative hospitalizations since that data is currently unavailable. Please note that there are two separate Y-axis.

Zooming in further, this chart looks at just the daily difference in COVID-POSITIVE patients in hospitals against the daily difference in total reported cases. Please note that there are two separate Y-axis.

COVID-Positive Hospitalizations by Region (%)

Sum of value

	Tue 19	Wed 20	Thu 21	Fri 22	Sat 23	Sun 24	Mon 25	Tue 26	Wed 27	Thu 28	Fri 29	Sat 30	Sun 31
Region 1	27.46%	26.64%	27.44%	27.21%	25.93%	24.97%	24.29%	24.09%	21.58%	19.95%	20.85%	19.85%	19.05%	17.82%
Region 2	14.85%	14.96%	13.83%	13.72%	14.96%	15.3%	15.52%	15.25%	14.73%	14.32%	13.24%	14.07%	14.62%	15.26%
														6.95%
Region 6									7.75%	8.43%	7.61%	7.85%	7.83%	7.4%
Region 7	20.51%	20.41%	20.98%	20.35%	20.27%	21.66%	20.62%	20.58%	22.48%	22.22%	23.38%	22.67%	23.34%	24.47%
Region 8	9.62%	9.5%	9.18%	9.77%	10.62%	10.53%	11.26%	12.47%	13.7%	13.79%	13.8%	13.04%	13.29%	13.14%
Region 9	11%	11.46%	12.02%	12.21%	12.3%	11.38%	12.09%	11.38%	10.47%	11.11%	10.7%	10.81%	10.93%	9.97%

date by exact time — May 2020

regionname (Sum of value): Region 1, Region 2, Region 3, Region 4, Region 5, Region 6, Region 7, Region 8, Region 9

COVID-Positive Hospitalizations by Region (Absolute)

Sum of value

	Tue 19	Wed 20	Thu 21	Fri 22	Sat 23	Sun 24	Mon 25	Tue 26	Wed 27	Thu 28	Fri 29	Sat 30	Sun 31
Total	936	916	882	860	829	817	844	826	774	747	710	675	677	662
Region 1	257	244	242	234	215	204	205	199	167	149	148	134	129	118
Region 2	139	137	122	118	124	125	131	126	114	107	94	95	99	101
Region 7	192	187	185	175	168	177	174	170	174	166	166	153	158	162
Region 8	90	87	81	84	88	86	95	103	106	103	98	88	90	87
Region 9	103	105	106	105	102	93	102	94	81	83	76	73	74	

date by exact time — May 2020

regionname (Sum of value): Region 1, Region 2, Region 3, Region 4, Region 5, Region 6, Region 7, Region 8, Region 9
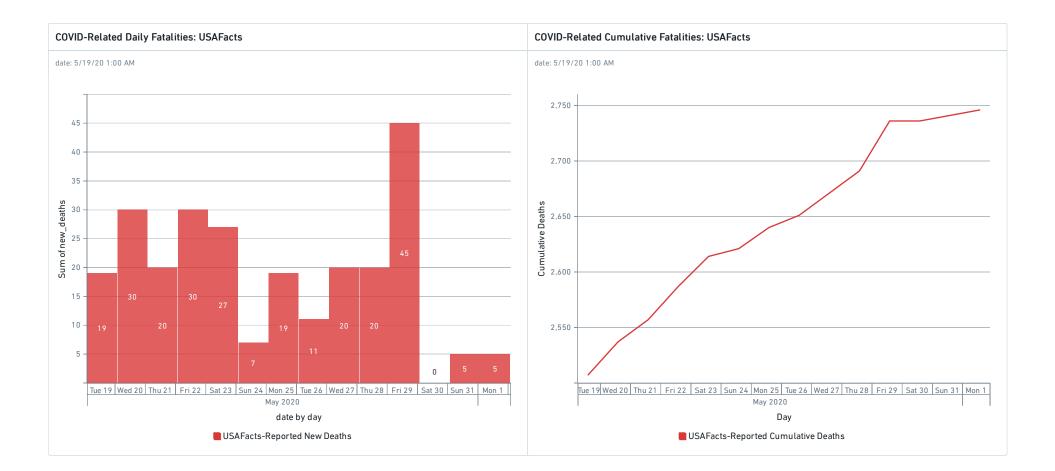
Over time, the total % of all COVID-Positive hospitalizations shifted from primarily in Region 1, to just 30% in Region 1.
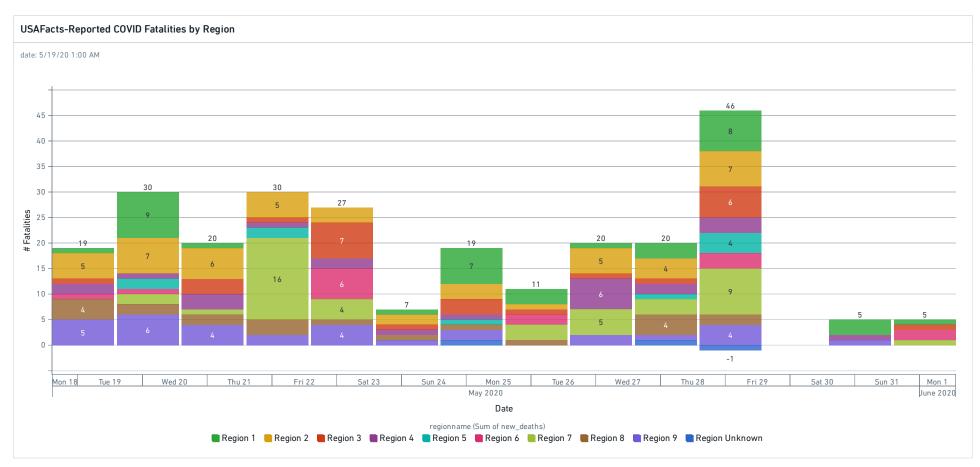
The above chart is the same underlying data for total COVID-Positive hospitalizations, but by absolute values.

COVID-Positive Sum of Daily New Hospitalizations By Parish

date: 5/19/20 1:00 AM

The above chart sums up the daily New Hospitalizations of COVID-Positive patients by Parish. Please note that these do not include some initial number of COVID-positive patients from prior to when each facility began reporting data.
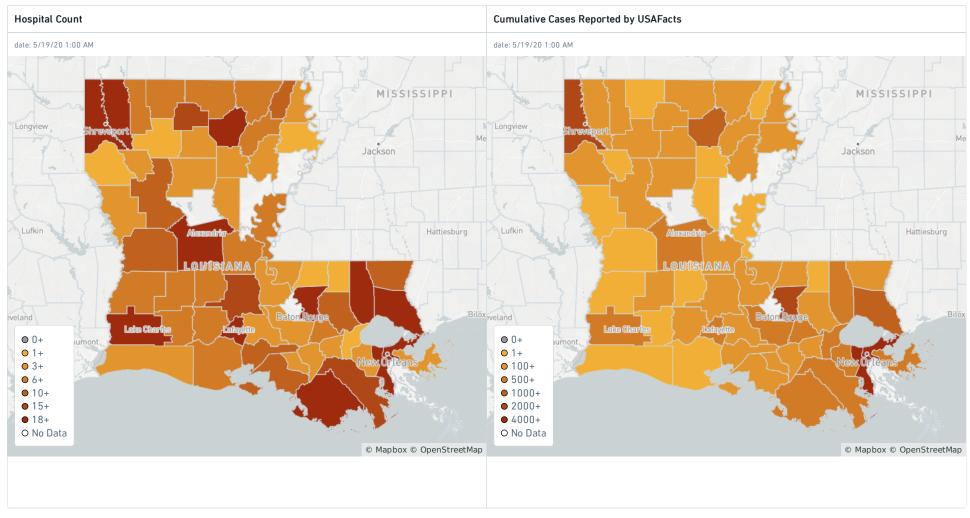
II. Review of Total COVID Fatalities: Comparing Hospital-reported patient fatalities against USAFacts total fatalities
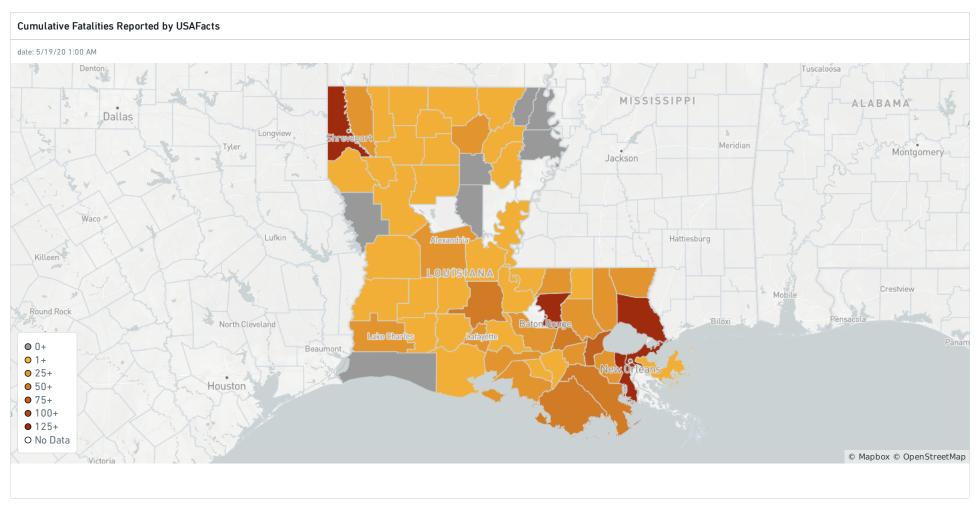
COVID-Related Daily Fatalities: USAFacts

date: 5/19/20 1:00 AM

Sum of new_deaths vs date by day (May 2020)

Date	New Deaths
Tue 19	19
Wed 20	30
Thu 21	20
Fri 22	30
Sat 23	27
Sun 24	7
Mon 25	19
Tue 26	11
Wed 27	20
Thu 28	20
Fri 29	45
Sat 30	0
Sun 31	5
Mon 1	5

■ USAFacts-Reported New Deaths

COVID-Related Cumulative Fatalities: USAFacts

date: 5/19/20 1:00 AM

Cumulative Deaths vs Day (May 2020)

■ USAFacts-Reported Cumulative Deaths

USAFacts-Reported COVID Fatalities by Region

date: 5/19/20 1:00 AM

The above chart shows the count of deaths as provided by USAFacts broken down by region.

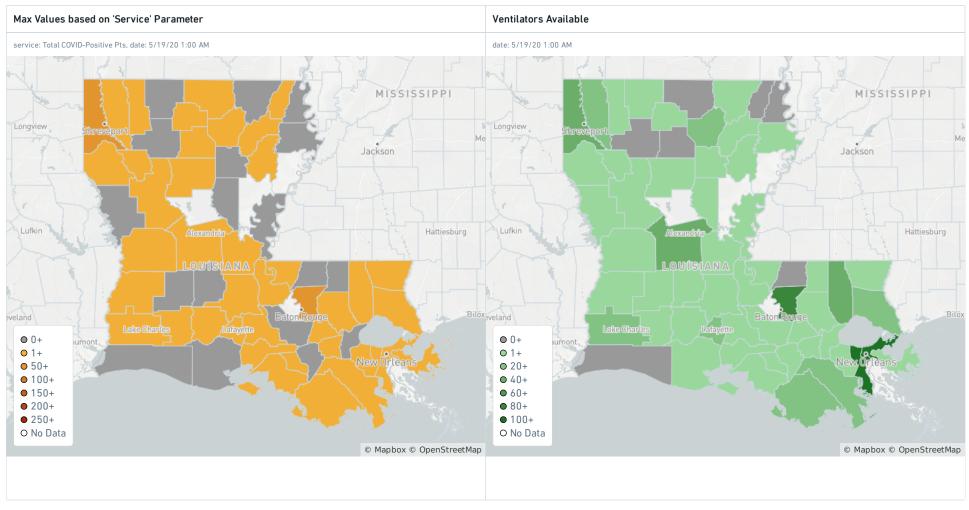## III. Map Deep-Dive of Total COVID-Positive Impact across Louisiana

Hospital Count

date: 5/19/20 1:00 AM

Legend:
- 0+
- 1+
- 3+
- 6+
- 10+
- 15+
- 18+
- No Data

© Mapbox © OpenStreetMap

The above shows the number of hospitals in each region, comparing to the chart on the right which shows # of cases.

Cumulative Cases Reported by USAFacts

date: 5/19/20 1:00 AM

Legend:
- 0+
- 1+
- 100+
- 500+
- 1000+
- 2000+
- 4000+
- No Data

© Mapbox © OpenStreetMap

The above chart of total confirmed cases per county reflects the areas where there are cases but no hospitals (e.g. Grant Parish).

Cumulative Fatalities Reported by USAFacts

date: 5/19/20 1:00 AM

The above chart reflects total fatalities by parish, as reported by USAFacts.

Max Values based on 'Service' Parameter

service: Total COVID-Positive Pts, date: 5/19/20 1:00 AM

Legend:
- 0+
- 1+
- 50+
- 100+
- 150+
- 200+
- 250+
- No Data

© Mapbox © OpenStreetMap

The above chart does where all the COVID-Positive patients are hospitalized, which shows areas as compared to earlier where there are cases generally.

Ventilators Available

date: 5/19/20 1:00 AM

Legend:
- 0+
- 1+
- 20+
- 40+
- 60+
- 80+
- 100+
- No Data

© Mapbox © OpenStreetMap

The above chart shows in green the areas with the highest number of available ventilators, which may help in guiding the re-allocation of patients to areas where there is outstanding capacity supply.