

**Orange County Emergency Medical Services
Medical Health Operational Area Coordination (MHOAC)**

Online at: <http://www.healthdisasteroc.org/ems/archive>

09/09/20

OVERVIEW OF CURRENT SITUATION (09/09/20 0630) *Source: Johns Hopkins University & Medicine <https://coronavirus.jhu.edu/map.html>*

Cases / Deaths
 Worldwide: 27,615,676 / 898,426
 Nationwide: 6,301,919 / 189,718
 California: 745,126 / 13,849
 Orange County: 50,190 / 1,065 *Source: [Orange County COVID-19 Case Counts & Testing Figures](#)*

ORANGE COUNTY PUBLIC HEALTH (as of 09/09/20 1000)

<u>Orange County COVID-19 Summary*</u> <i>click for full details</i>	Sat 9/05/20	Sun 9/06/20	Mon 9/07/20	Tue 9/08/20	Wed 9/09/20	Thu 9/10/20	Fri 9/11/20
Cases Reported to Date	49,509	49,732	49,845	49,996	50,190		
Deaths Reported to Date	1,051	1,053	1,053	1,056	1,065		
Tests Reported Today	7,379	5,305	4,444	3,363	6,853		
Cumulative Tests to Date	690,743	696,048	700,492	703,855	710,708		
*Data posted is always preliminary & subject to change. More information may become available as individual case investigations are completed. LOCAL DATA MAY BE DIFFERENT FROM THE STATE WEBSITE DATA							

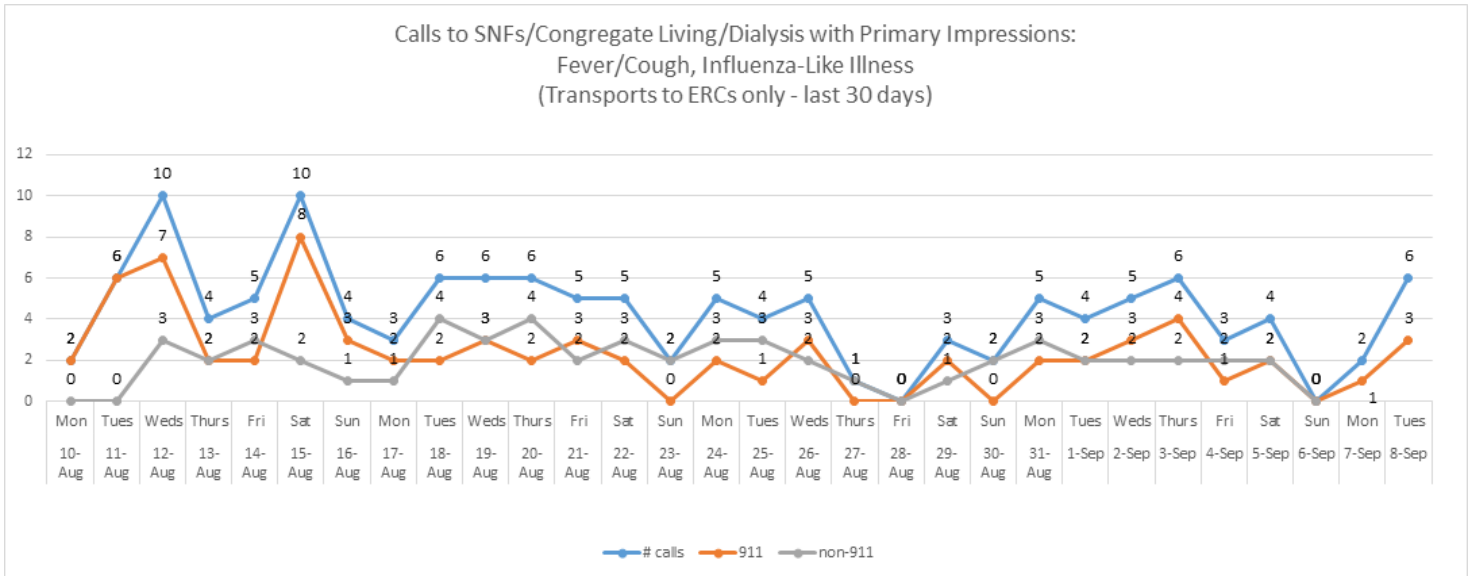
PUBLIC HEALTH UPDATE (09/08/20)

- California’s new blueprint for reducing COVID-19 is now implemented with weekly updates on Tuesday. The 4-tier system has criteria for loosening and tightening restrictions on business sectors depending on which tier the county is placed based on indicators regarding the level of disease burden
- The four tiers include; purple for widespread transmission, red for substantial transmission, orange for moderate and yellow for minimal.
- Orange County was originally placed in the purple widespread tier, however we now qualify for moving to the red substantial tier effective September 8th.
- This change in tiers is reflective of disease transmission continuing to decline in recent weeks. We continue to see declining case rates and testing positivity rates. Current metrics are similar to levels in early June prior to initially beginning to open up business sectors after the governor’s stay at home order.
- With the declining disease burden, hospitalizations continue to trend downward with 238 COVID patients and 75 ICU patients reported on September 6th, both at the lowest counts since early May.
- Based on current available data, Orange County continues to see good testing volume, with volume above the threshold of 150 tests per day per 100,000, hovering around 180 for the past 3 weeks.
- This progress is very encouraging and with more sectors opening with the change to the red tier, it is essential that all OC residents and visitors consistently practice individual behaviors that mitigate disease transmission if we are to keep seeing encouraging trends;
 - Stay home as much as possible, especially high risk persons (65 or older, or underlying health conditions)
 - Stay home when sick
 - Isolation of cases and quarantine of all contacts (within 6 feet for 15 minutes or more)
 - Practice social distancing at all times; 6 feet or more
 - Wear face coverings when unable to maintain social distancing; high compliance is critical given asymptomatic transmission
 - Wash hands frequently
 - Avoid touching face
 - Disinfect frequently touched surfaces often

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SKILLED NURSING/ASSISTED LIVING/RESIDENTIAL CARE FACILITY – TRENDS

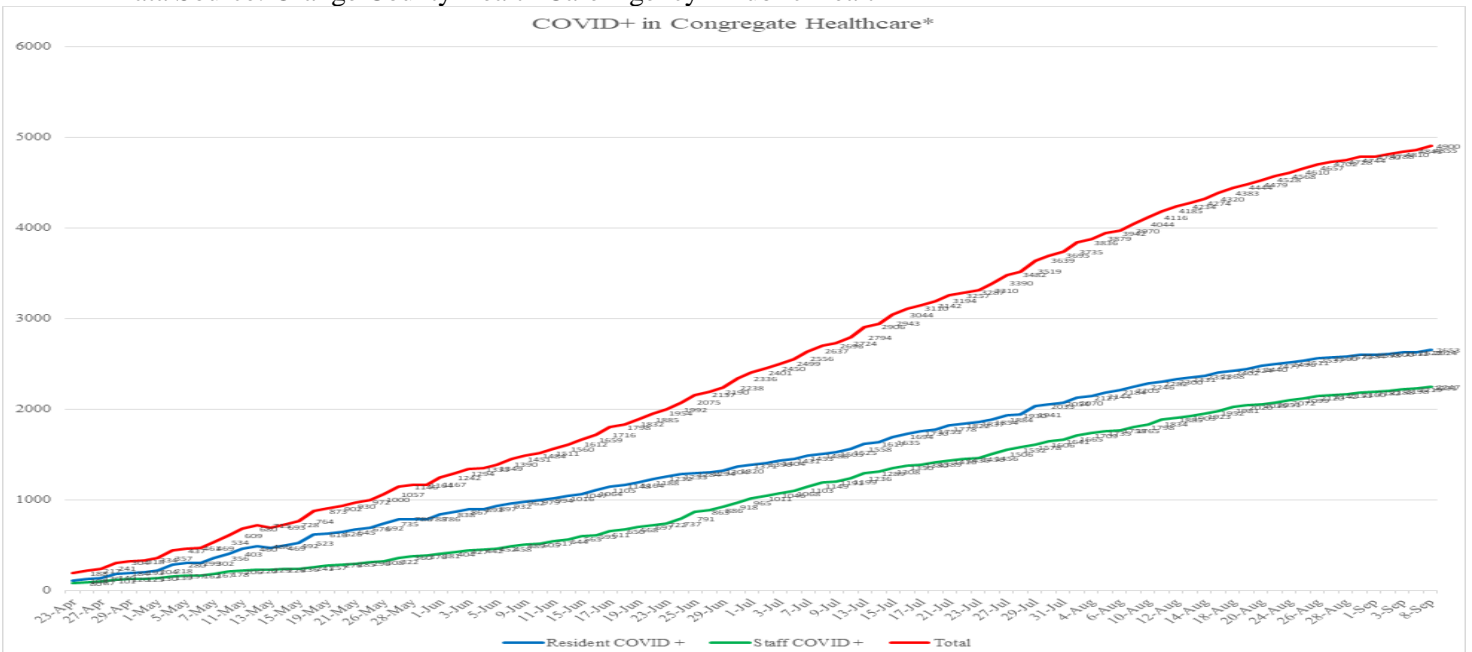
*Data Source: Orange County Medical Emergency Data System (OC-MEDS)



*Data Source: California Department of Public Health (CDPH)

Reporting Date: 9/09/20 (73/73 SNFs reported)	Skilled Nursing Facility PPE – DAYS ON HAND*			
	0 - 3 days	4 - 7 days	8-14 days	15+ days
N95 Masks	0	5	17	51
Surgical Masks	0	3	16	54
Eye Protection	0	4	16	53
Gowns	0	4	15	54
Gloves	0	3	18	52
Alcohol-Based Hand Sanitizer	0	4	16	53

*Data Source: Orange County Health Care Agency – Public Health



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*Data Source: Orange County Health Care Agency – Public Health

Current Facility Outbreaks (as of 9/8/20 1700)

Facility Type by Licensing Category	#	<i>An "Outbreak" is two (2) or more confirmed cases of COVID-19 in facility occurring within 14 days.</i>
Skilled Nursing Facility	7	Anaheim Healthcare Center, Greenfield Care Center Of Fullerton, Huntington Valley Healthcare Center, Mainplace PostAcute, Mesa Verde Post Acute Care Center, Park Regency Care Center, The Hills PostAcute
Elderly Assisted Living	12	Arbor Palms Of Anaheim, Harvest Retirement, Hollybrooke Senior Living, Meridian At Anaheim Hills, Pacifica Senior Living South Coast, Paradise Residential Senior Care 3, Park Regency Retirement Center, San Clemente Villas By The Sea, Sunny Crest Senior Living, Villa Regina, Villa Regina 2, Walnut Village

Previous Facility Outbreaks (as of 9/8/20 1700)

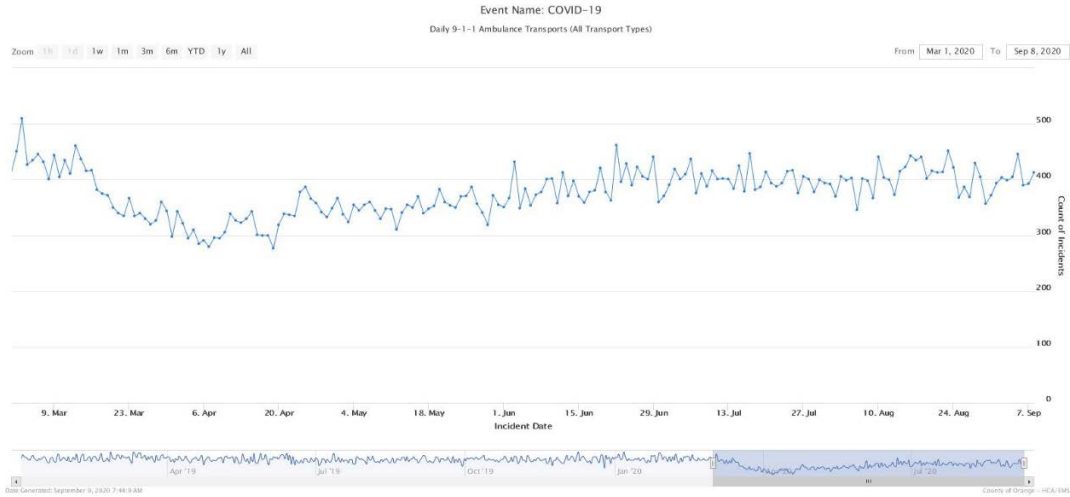
Facility Type by Licensing Category	#	<i>An "Outbreak" is two (2) or more confirmed cases of COVID-19 in facility occurring within 14 days.</i>
Skilled Nursing Facility	41	Alamitos West Health & Rehabilitation, Alta Gardens Care Center, Anaheim Crest Nursing Center, Anaheim Terrace Care Center, Beachside Nursing Center, Buena Vista Care Center, Chapman Care Center, Country Villa Plaza Convalescent Center, Coventry Court Health Center, Crystal Cove Care Center, Flagship Healthcare Center, French Park Care Center, Garden Grove Convalescent, Garden Park Care Center, Gordon Lane Care Center, Harbor Villa Care Center, Healthcare Center of Orange County, Kindred Hospital Brea SNF, Laguna Hills Health & Rehabilitation Center, La Palma Nursing Center, Lake Forest Nursing Center, Leisure Court Nursing Center, Manorcare Health Services Fountain Valley, New Orange Hills, Orange Healthcare & Wellness Centre, Orangegrove Rehabilitation Hospital, Pacific Haven Subacute & Healthcare Center, Palm Terrace Healthcare & Rehabilitation Center, Park Anaheim Healthcare Center, Rowntree Gardens Elmwood, Sea Cliff Healthcare Center, Seal Beach Health & Rehabilitation Center, South Coast PostAcute, St. Edna Subacute & Rehabilitation Center, St. Elizabeth Healthcare Center, Terrace View Care Center, The Pavilion at Sunny Hills, Victoria Healthcare & Rehabilitation Center, Walnut Village Rehabilitation & Care Center, West Anaheim Extended Care, Windsor Gardens Convalescent Center of Anaheim
Elderly Assisted Living	41	Acacia Villas, ActivCare Yorba Linda, Anaheim Crown Plaza, Ardent Care, Atria Del Sol, Atria San Juan, Brookdale Anaheim, Brookdale Nohl Ranch, Brookdale San Juan Capistrano, Cambridge Court, Cambridge House, Capriana (Oakmont), Care Jeselle, Carmel Village Retirement Community, Crown Cove, Del Obispo Terrace Senior Living, DelSol Home, Emerald Court, Golden Leisure Home III, Heathers McKinley, Heathers Wintergreen, Huntington Terrace, Kaego's Richman Gardens, Kamstra Care Home, Karlton Residential Care Center, Pacific Shores Laguna Hills, Pacific Shores Mission Viejo, Park Plaza, Regency, Rowntree Gardens, Seacliff Assisted Living, Silverado Senior Living Newport Mesa, Silverado Senior Living San Juan Capistrano, Silverado Senior Living Tustin Hacienda, St. Francis Home, St. Therese Residential Care, Sunflower Gardens, Sunrise Villa Bradford, Valley View Gardens, Vivante on the Coast, Whitten Heights Assisted Living & Memory Care

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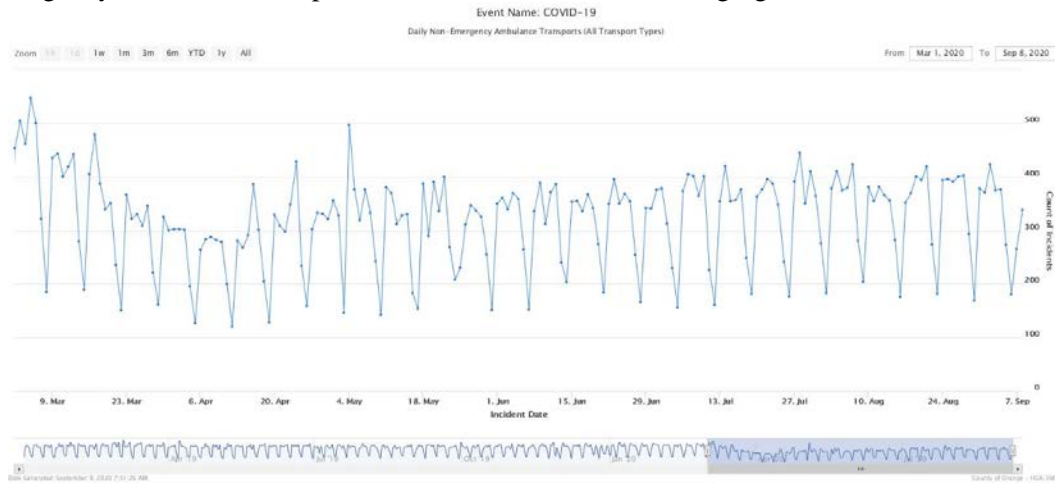
EMERGENCY MEDICAL SERVICES STATUS

*Data Source: Orange County Medical Emergency Data System (OC-MEDS)

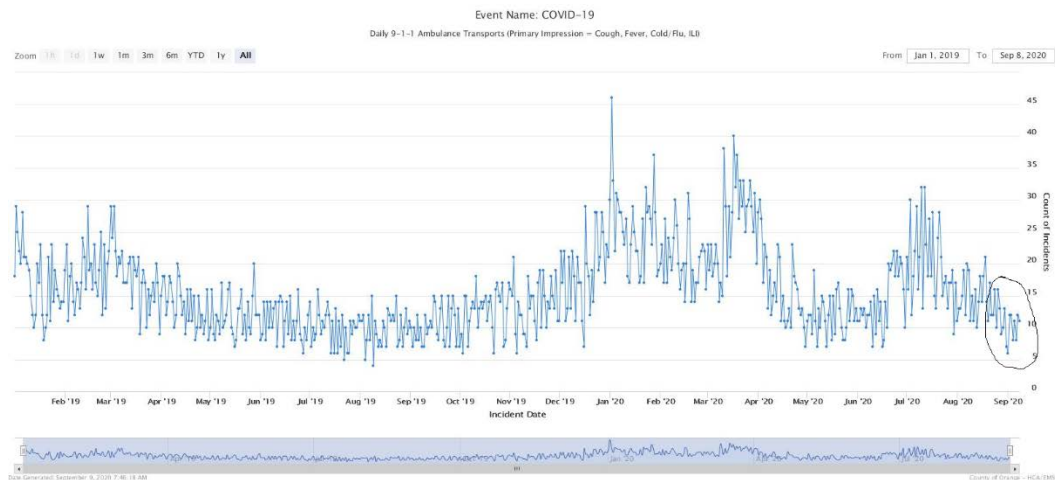
- 9-1-1 ambulance transport volume have been trending higher. They are averaging about 10-15% below normal overall.



- Non-emergency ambulance transports have stabilized and are averaging about 20-25% below normal.



- Primary Impressions of Cold/Flu/ILI by 9-1-1 EMS providers have been at or near baseline for the last few days.



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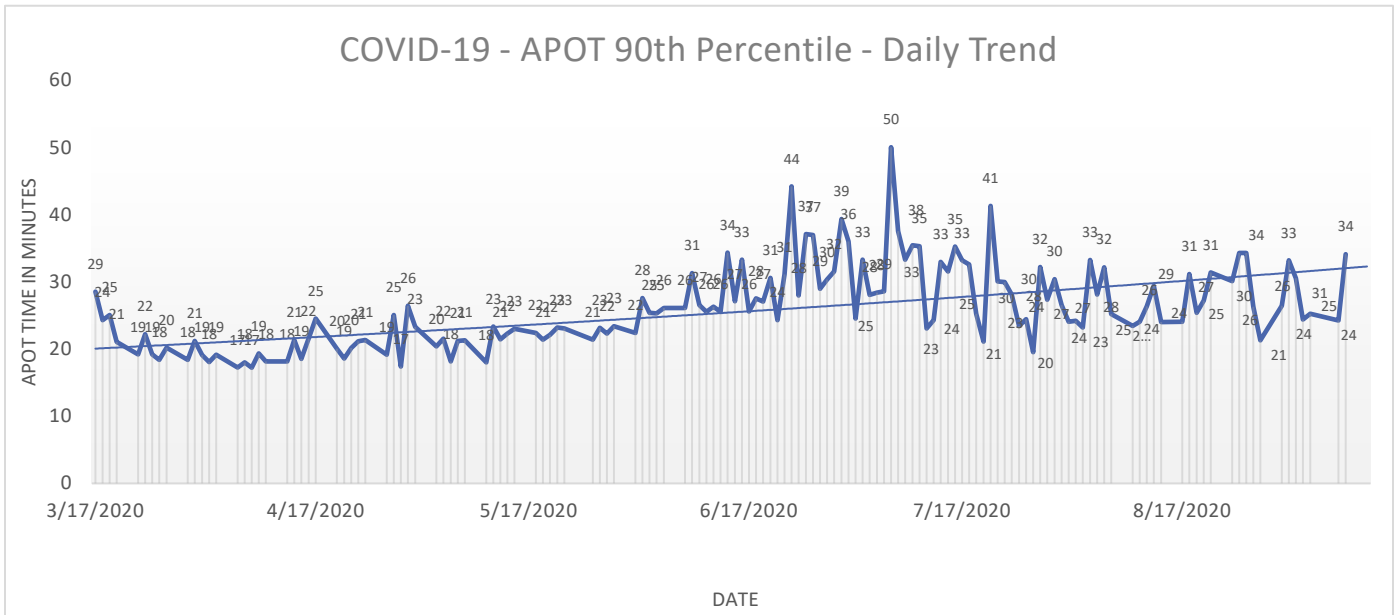
- Ambulance Patient Offload Time (APOT) is defined as the time the ambulance arrives at the receiving destination (wheels stop) to the time that the ambulance crew physically transfers the patient to the ED gurney. Last 24 hours: **Current Average APOT is: 14m33s / Current 90th Percentile APOT is: 34m11s**

The chart below displays a daily trend since the COVID-19 event began.

- Eight (8) ERCs had APOT times greater than thirty (30) minutes.
- Two (2) ERCs had APOT times greater than sixty (60) minutes.

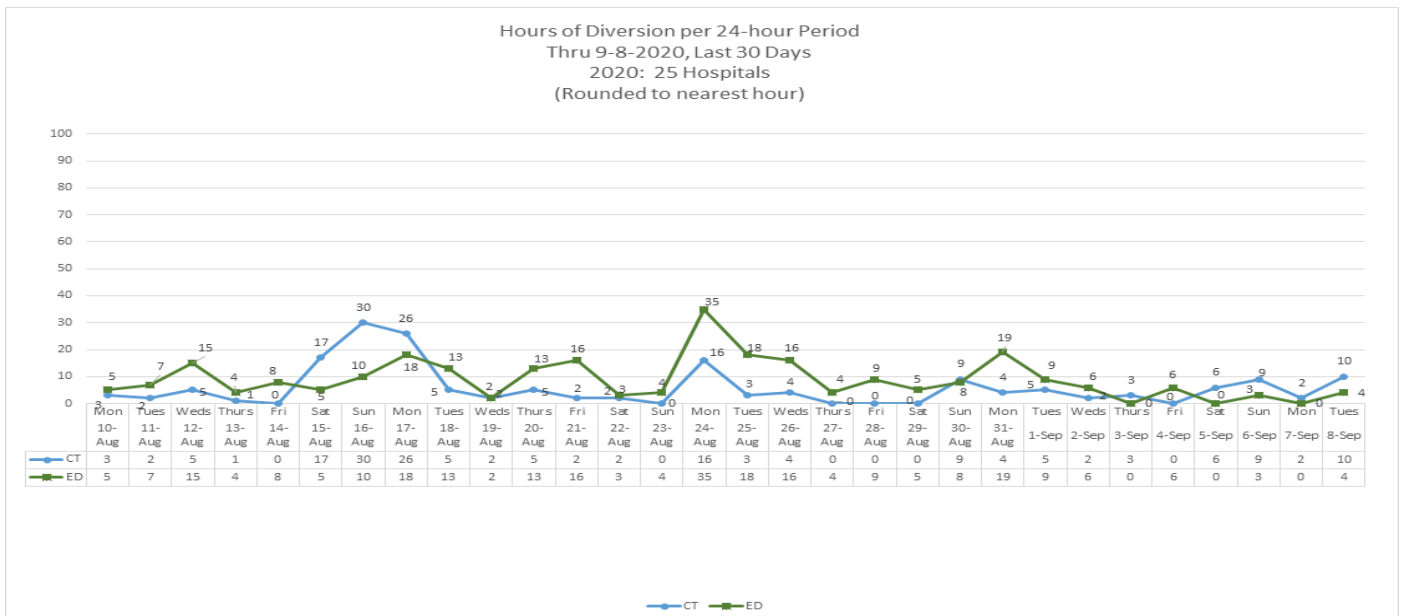
Note: a handful of ERCs were close to the 30 minute threshold, but were not over it.

*Data Source: Orange County Medical Emergency Data System (OC-MEDS)



- **Emergency Department (ED) Diversion & Computerized Tomography (CT) (ED closed to all ambulance transport due to no ED capacity or no CT available) for the last 30 days 8/10/20 – 9/08/20 below.**

*Data Source: ReddiNet



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(26): Anaheim Regional, Anaheim Global, Chapman Global, CHOC, CHOC at Mission, Foothill, Fountain Valley, Garden Grove, Hoag-Irvine, Hoag-Newport Beach, Huntington Beach, Kaiser-Anaheim, Kaiser-Irvine, La Palma, Los Alamitos, Mission –Laguna Beach, Mission-Mission Viejo, Orange Coast Memorial, Orange County Global, Placentia Linda, Saddleback Memorial, Saint Jude, South Coast Global, St. Josephs, UCI, West Anaheim

DATE	ALL HOSPITALS (33)						EMERGENCY RECEIVING CENTERS					
	Census ALL	Occupancy %	COVID+ Hospitalized	COVID+ ICU	% ICU Beds Available	% ICU Ventilators Available	Census ALL	Occupancy %	COVID+ Hospitalized	COVID+ ICU	% ICU Beds Available	% ICU Ventilators Available
8/18	3503	71%	419	124	30%	56%	3348	70%	416	124	30%	56%
8/19	3572	72%	400	118	32%	58%	3416	71%	397	118	32%	57%
8/20	3508	71%	397	117	30%	58%	3342	70%	394	117	30%	58%
8/21	3667	73%	392	110	31%	59%	3510	73%	389	110	31%	59%
8/22	3531	71%	380	111	29%	58%	3371	71%	377	111	29%	58%
8/23	3422	69%	388	116	32%	59%	3255	68%	388	116	32%	59%
8/24	3384	68%	385	113	33%	58%	3229	68%	385	113	33%	58%
8/25	3518	70%	399	113	28%	58%	3362	70%	399	113	28%	58%
8/26	3602	71%	372	112	31%	60%	3438	71%	372	112	31%	60%
8/27	3618	72%	351	98	30%	61%	3452	71%	351	98	30%	61%
8/28	3573	69%	341	99	32%	63%	3408	69%	341	99	32%	63%
8/29	3433	69%	329	99	35%	62%	3265	68%	329	99	35%	62%
8/30	3367	66%	317	98	34%	62%	3200	65%	317	98	34%	62%
8/31	3312	65%	307	93	37%	62%	3156	64%	307	93	37%	62%
9/1	3463	67%	295	89	31%	63%	3297	67%	295	89	31%	63%
9/2	3592	71%	272	79	30%	62%	3415	70%	272	79	30%	62%
9/3	3532	69%	264	77	33%	63%	3350	68%	264	77	33%	63%
9/4	3561	70%	274	83	33%	62%	3384	69%	274	83	33%	62%
9/5	3527	69%	253	77	33%	63%	3357	68%	253	77	33%	63%
9/6	3418	68%	238	75	34%	65%	3248	67%	238	75	34%	65%
9/7	3350	65%	242	70	33%	62%	3194	65%	242	70	33%	62%
9/8	3393	66%	234	62	33%	62%	3237	66%	234	62	33%	62%

*Data Source: California Department of Public Health (CDPH) – Snowflake server

*HHS significantly changed [reporting requirements](#) for hospitals effective 07/22/20.

Current data is posted on the CDPH website at:

<https://public.tableau.com/views/COVID-19HospitalsDashboard/Hospitals?%3Aembed=y&%3AshowVizHome=no>

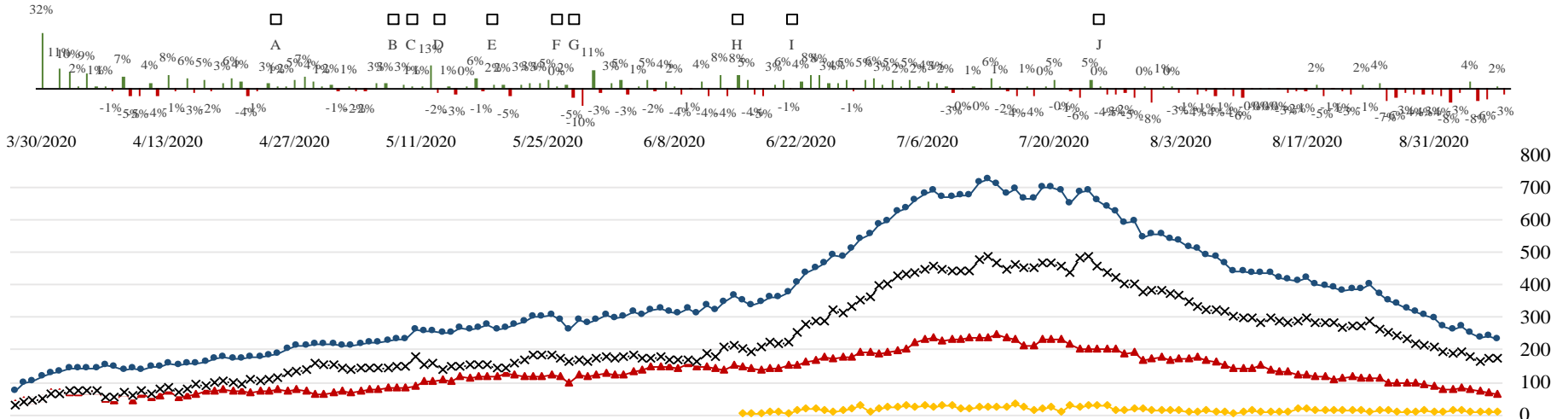
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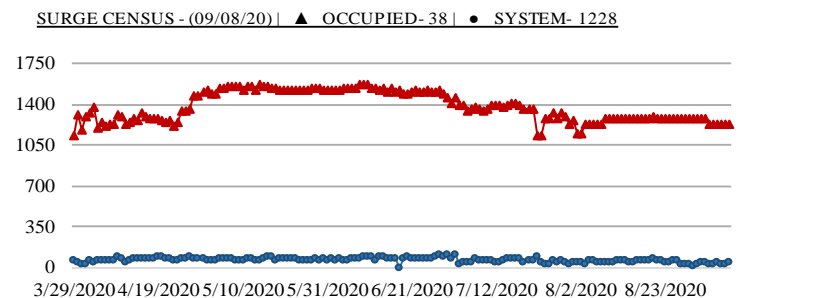
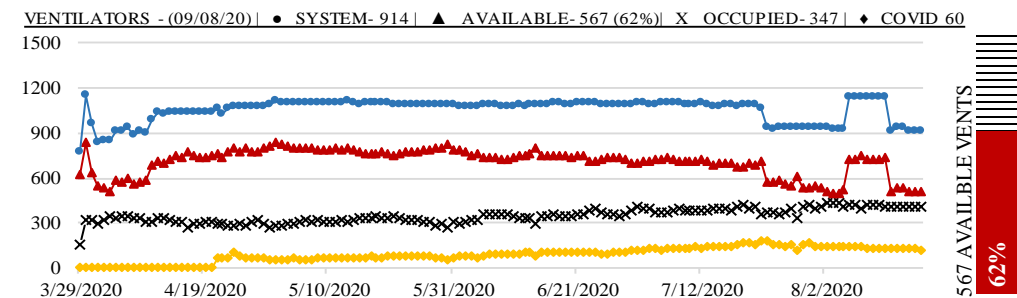
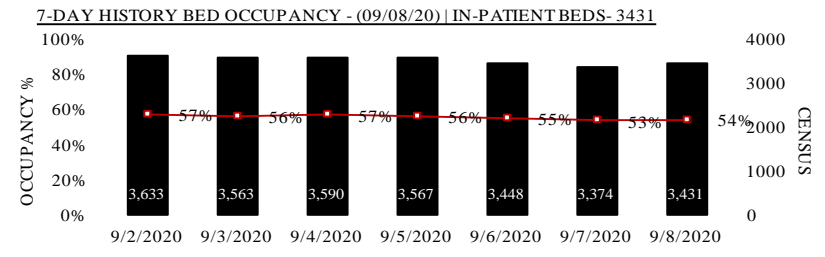
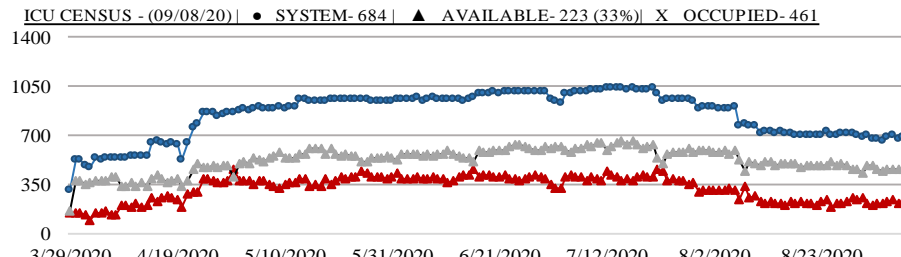
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COVID 19 ORANGE COUNTY HOSPITAL SYSTEM DATA (CA SNOWFLAKE SERVER)

NON-ICU - 09/08/20 X			ICU - 09/08/20 ▲			ED OVERFLOW - 09/08/20 ◆			SYSTEM - 09/08/20 ●			1 DAY +/- (09/07/20)			3 DAY +/- (09/06/20)			7 DAY +/- (09/02/20)		
172	0	0.0%	62	-8	-11.4%	10	0	0.0%	234	-8	-3.3%	234	-8	-3.3%	238	-4	-1.7%	272	-38	-14.0%
			▼						▼			▼			▼					



A. Face Covers Mandatory, B. Cinco de Mayo, C. OC Beaches Open, D. Mom's Day, E. OC Parks Parking Open, F. OC Stage 2 Approved, G. Memorial Day, H. Re-open entertainment, etc., I. CA Gov. Mask Mandate, J. Changes to data collection, Federal

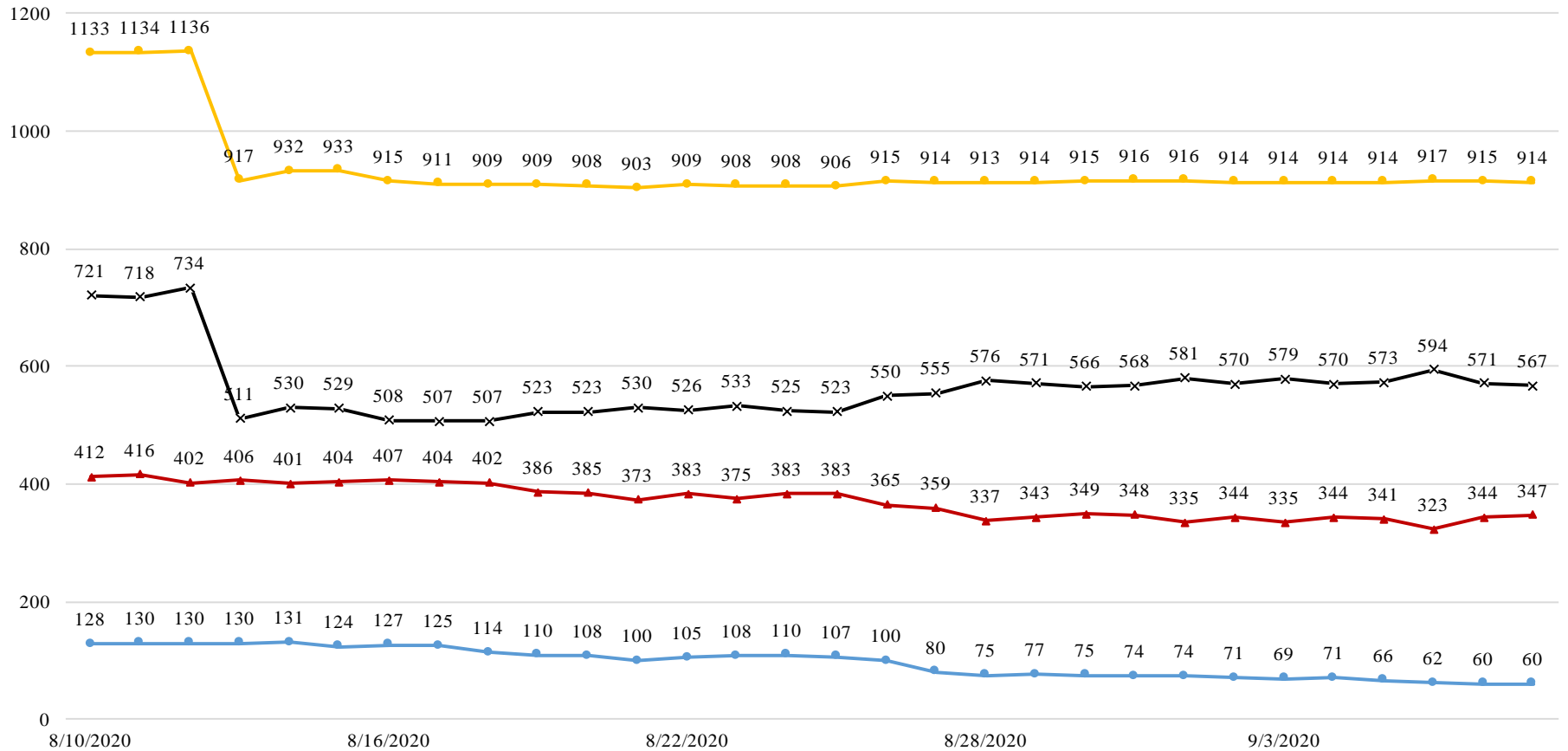


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COVID 19 ORANGE COUNTY HOSPITAL SYSTEM DATA (CA SNOWFLAKE SERVER) **VENTILATORS IN USE (08/10/20 - 09/08/20) | 33 ACUTE CARE FACILITIES REPORTING**



DATE	8/10	8/11	8/12	8/13	8/14	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	8/29	8/30	8/31	9/1	9/2	9/3	9/4	9/5	9/6	9/7	9/8	
COVID+ ●	128	130	130	130	131	124	127	125	114	110	108	100	105	108	110	107	100	80	75	77	75	74	74	71	69	71	66	62	60	60	
SYSTEM OCC ▲	412	416	402	406	401	404	407	404	402	386	385	373	383	375	383	383	365	359	337	343	349	348	335	344	335	344	341	323	344	347	
SYSTEM AVL X	721	718	734	511	530	529	508	507	507	523	523	530	526	533	525	523	550	555	576	571	566	568	581	570	579	570	573	594	571	567	
SYSTEM TTL ◆	1133	1134	1136	917	932	933	915	911	909	909	908	903	909	908	908	906	915	914	913	914	915	916	916	914	914	914	914	914	917	915	914

COVID+ = CONFIRMED AND SUSPECTED PATIENTS ON A VENTILATOR

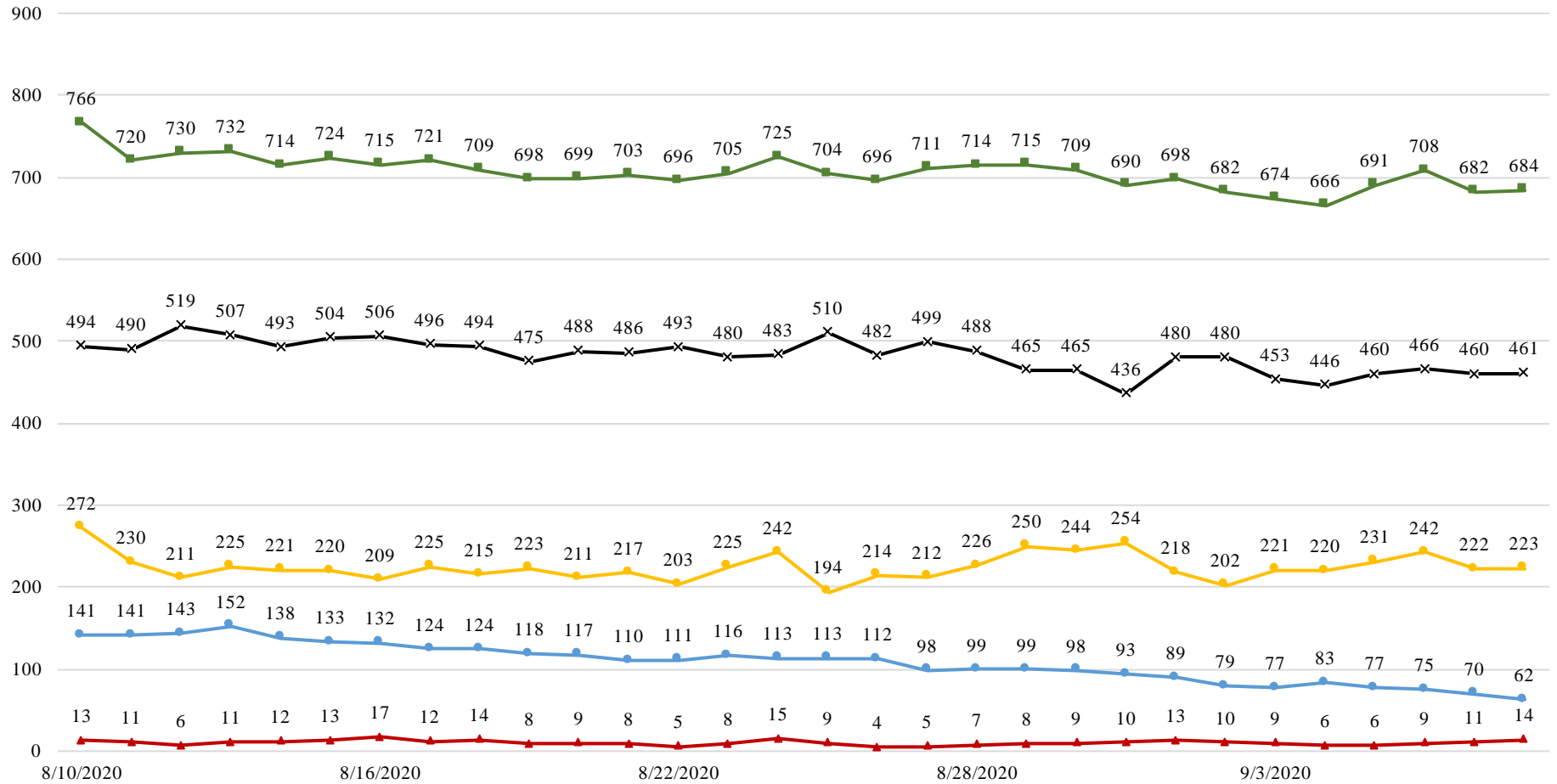
*OCC = VENTILATORS IN USE, INCLUDING COVID+ PATIENTS AND OTHER VENT PATIENTS

**AVL = AVAILABLE NON SURGE ICU BEDS

***TTL = TOTAL NON SURGE ICU BEDS

****CDPH updated how PPE and ventilator supplies are counted on 8/13/20.**

COVID 19 ORANGE COUNTY HOSPITAL SYSTEM DATA (CA SNOWFLAKE SERVER) ICU BEDS (08/10/20 - 09/08/20) | 33 ACUTE CARE FACILITIES REPORTING



DATE	8/10	8/11	8/12	8/13	8/14	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	8/29	8/30	8/31	9/1	9/2	9/3	9/4	9/5	9/6	9/7	9/8
CONFIRMED	141	141	143	152	138	133	132	124	124	118	117	110	111	116	113	113	112	98	99	99	98	93	89	79	77	83	77	75	70	62
SUSPECTED	13	11	6	11	12	13	17	12	14	8	9	8	5	8	15	9	4	5	7	8	9	10	13	10	9	6	6	9	11	14
OCCUPIED	494	490	519	507	493	504	506	496	494	475	488	486	493	480	483	510	482	499	488	465	465	436	480	480	453	446	460	466	460	461
SYSTEM AVL	272	230	211	225	221	220	209	225	215	223	211	217	203	225	242	194	214	212	226	250	244	254	218	202	221	220	231	242	222	223
SYSTEM TTL	766	720	730	732	714	724	715	721	709	698	699	703	696	705	725	704	696	711	714	715	709	690	698	682	674	666	691	708	682	684

*AVL = AVAILABLE NON SURGE ICU BEDS. PRIOR TO 7/22 DEFINITION DID NOT EXCLUDE NONSURGE.

**TTL = TOTAL NON SURGE ICU BEDS. PRIOR TO 7/22 DEFINITION DID NOT EXCLUDE NONSURGE.

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- *Data Source: California Department of Public Health (CDPH) – Snowflake server
- *HHS significantly changed [reporting requirements](#) for hospitals effective 07/22/20.
- **CDPH updated how PPE and ventilator supplies are counted on 8/13/20. Count of PAPRs are no longer available. This table has been updated based on data provided by hospitals using the new HHS data standards

Reporting Date: 9/08/20* (33/33 ACHs reported)	Acute Care Hospital PPE / Ventilator Supplies – DAYS ON HAND					
	30 days +	15-30 days	7-14 days	4-6 days	0-3 days	Not Reported
Ventilator Supplies**	2	5	14	1	1	10
N95 Masks**	13	9	4	1	0	6
Surgical Masks**	12	7	7	1	0	6
Face Shields**	11	6	8	0	1	7
Gloves**	8	9	11	0	0	5
Gowns**	9	8	5	3	1	7

*Data Source: ReddiNet

Reported Operational Status Acute Care Hospitals w/ Emergency Departments			
21 / 25 Reporting	Green	Yellow	Orange
	19	6	0

Reported Service Category Status Acute Care Hospitals w/ Emergency Departments (#25)		
Status Item	Yes	%
Command Center Activated	12	48%
Surge Plan Activated	12	48%
Canceled Procedures/Services	4	16%
Supply Issues	6	24%
CDPH Flex	9	36%
Increased Morgue Capacity	13	52%

- On a routine basis, the MHOAC tracks daily hospitalizations, census, occupancy and PPE availability as well as reviews epidemiologic data (doubling time).
- The criteria in the table below serve as objective measures to identify the need for hospitals to shift to crisis care strategies (i.e. activate surge plans) & uses the following assumptions:
 - Increased pressure in hospitals & on the EMS system requires a shift to crisis care strategies
 - Low levels of PPE will come earlier than decreased capacity and cause an abrupt change in capacity.
 - Increased hospitalizations and low PPE could have a synergistic effect to reduce capacity.
 - Low levels of PPE is not just a marker of capacity but causes capacity issues.

Hospital Criteria for shifting to Crisis Care Strategies LEGEND			
CRITERIA	STATUS		
	Normal Operations	Modified Operations Under Control	Modified Operations Assistance Needed
Rate of change in Hospitalized COVID-19 patients (doubling time over last 7 days)	Never to 4 weeks to double	4 weeks to 2 weeks to double	Less than 2 weeks to double
Absolute COVID-19 Census in the hospital	Less than 500	500-750	>750
Hospital census as a percentage of capacity	<80%	80% to 90%	>90%
Supply of PPE available in the hospitals	>4 weeks	2 to 4 weeks	< 2 weeks

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Hospital Criteria for shifting to Crisis Care Strategies			
9/09/20			
CRITERIA	STATUS		
	Normal Operations	Modified Operations Under Control	Modified Operations Assistance Needed
Rate of change in Hospitalized COVID-19 patients (doubling time over last 7 days)	Decreasing		
Absolute COVID-19 Census in the hospital	234		
Hospital census as a percentage of capacity	66%		
Supply of PPE available in the hospitals		2 to 4 weeks	

- It is important to note that the basis of the table is that these are concepts and criteria that we use to judge how the system is being affected by the COVID-19 pandemic. The numbers and colors given are a guideline, not a hard and fast rule. For example, if in 2 weeks our hospitalized cases go up by a factor of 1.8 to a level of 740, we will still consider that to be very concerning and would not wait until the doubling time worsens or the census tops 750.
- Hospital Surge Plans are already activated to an extent, as conditions worsen (higher COVID-19 inpatient burden, Staffing struggles, PPE concerns)
- Does this trigger a shift to crisis care strategies and an activation of surge plans?
That number is one factor. Surge plans are already activated to an extent. Increased concerns (more factors in the worrisome category) means increased amount of surge as in the next question.
- What are the surge plans and crisis care strategies that would be implemented?
-Modifying units, such as converting beds/rooms to ICUs and negative pressure rooms
-Expanded beds also includes surge tents
-Flexing nursing staffing ratios
- How was the 750-patient threshold determined?
Initial surge capacity of the hospitals was around 1000 beds. We figured that if we were getting close to that number, we need to take extra steps beyond the initial ones. Again, the exact number is not as important as the concept of stress on the system.
- All hospitals are impacted. We initially saw the highest degree of hospital burden in the hot spots of the county (Anaheim and Santa Ana), but as COVID-19 has become more widespread we are seeing the burden shift to hospitals based on their size, not just location.

AGENCY OPERATIONS CENTER / LOGISTICS SECTION

- AOC Activated at Level II; Hours of Operation Mon & Thurs 0900-1600; Warehouse Ops M-F 0900-1600
- The AOC was closed on Monday (Sept. 7, 2020) for Labor Day.
- SCARCE Resources: Gloves, Wipes

Total Activity – Updated 09/03/20		
INQUIRIES	RR RECEIVED	RR FILLED
14,466 +60	7,798 + 55	6,015 +41
Total Denied Requests: 702 / Total Redacted Requests: 438		

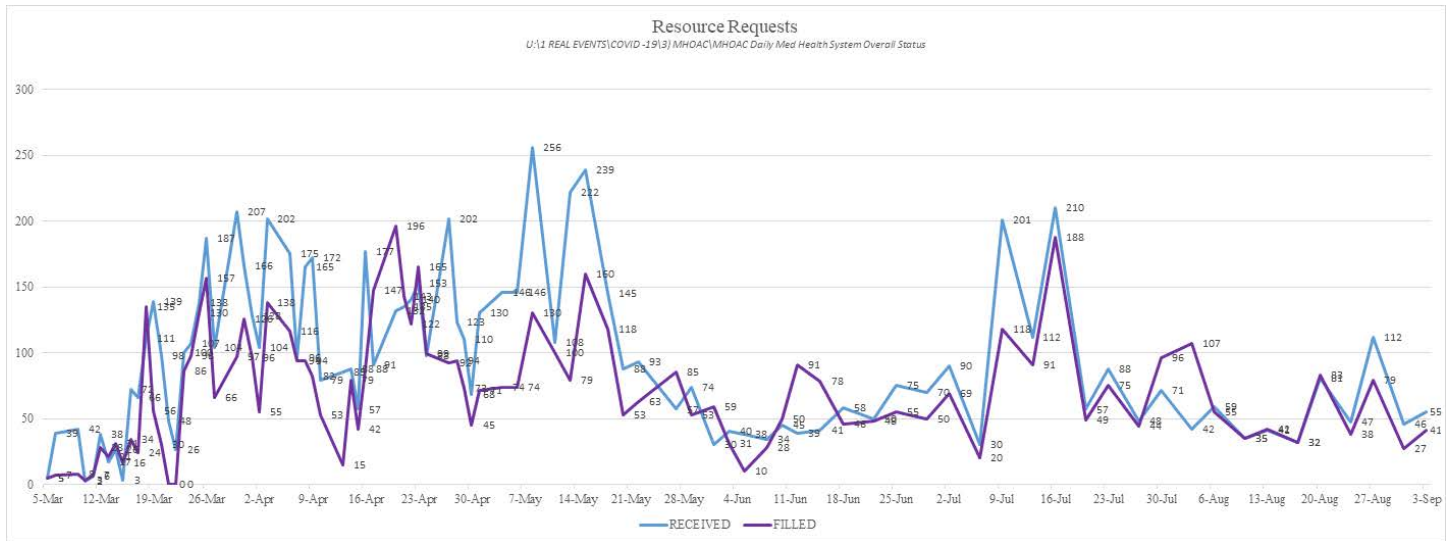
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09/09/20

Logistics Daily Units Distributed 09-03-20	
N95 Mask	13,100
Surgical Mask	10,430
Gown	22,050
Gloves	23,600
Face Shields/Eye Protection	5,060
Hand Sanitizer	60
Other	200
Total Units	74,500

Inventory Report February 18 to September 3, 2020	
Medical Supply/Equipment Total Units Distributed	
N95 Mask	4,539,480
Surgical Mask	1,425,455
Gowns	1,596,826
PPE-Suit	17,955
Gloves	2,263,150
Eye Protection	285,901
Hand Sanitizer	305,549
Other Items	824,765
Total Units	11,259,081



ALTERNATE CARE SITE

*Site open indefinitely to support hospital/SNF decompression

*Data Source: ReddiNet

Fairview (COVID-19 +)		
Patient Census (as of 9/09/2020 07:30)	CURRENT	TOTAL
Orange County	5	73
Los Angeles County	3	34
San Diego County	1	1
Ventura County	1	2
Total patients CENSUS / TOTAL ACCEPTED	10	110
Patients Discharged		TOTAL
AMA		5
DISCHARGED		95
TRANSFERRED		0