

TEXAS COASTAL BEND COVID-19 PANDEMIC REPORT



June 26, 2020

CC TAMU-CC Joint COVID-19 Modelling Task Force

https://tinyurl.com/TAMUCC-COVID











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TASK FORCE OBJECTIVES

ADDRESS PUBLIC CONCERNS & QUESTIONS ABOUT COVID-19 & INTERVENTIONS

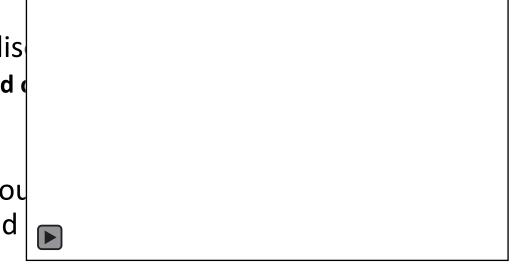
ENABLE EVIDENCE-BASED DECISION MAKING



WHAT IS AN OUTBREAK?

EXAMPLE SPREAD OF COVID-19

- Rapid rise in occurrence of disease
 - Can be localized widespread
- COVID-19 is transmitted throu air, surfaces, and contact



INTERVENTIONS & OPENING TX

- 1. STAY-AT-HOME IF YOU CAN
- 2. SOCIAL DISTANCING & FACE COVERINGS
- 3. SELF ISOLATE WHEN SYMPTOMATIC
- 4. SCHOOL CLOSURES
- 5. OPEN TX 1, 2, 3, 3 repealed

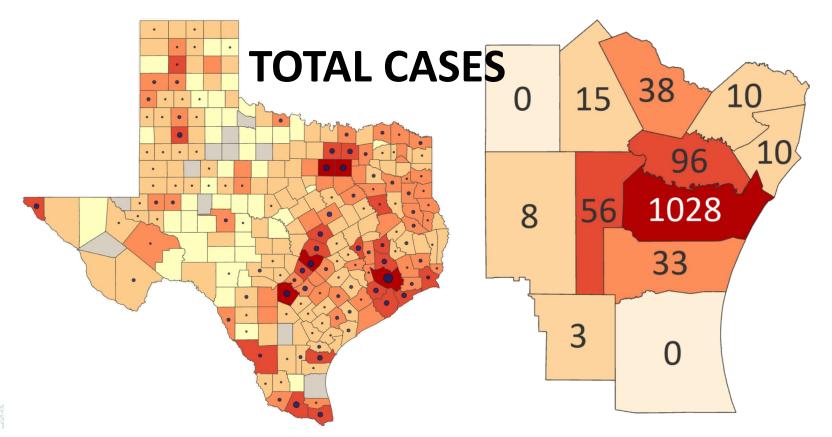






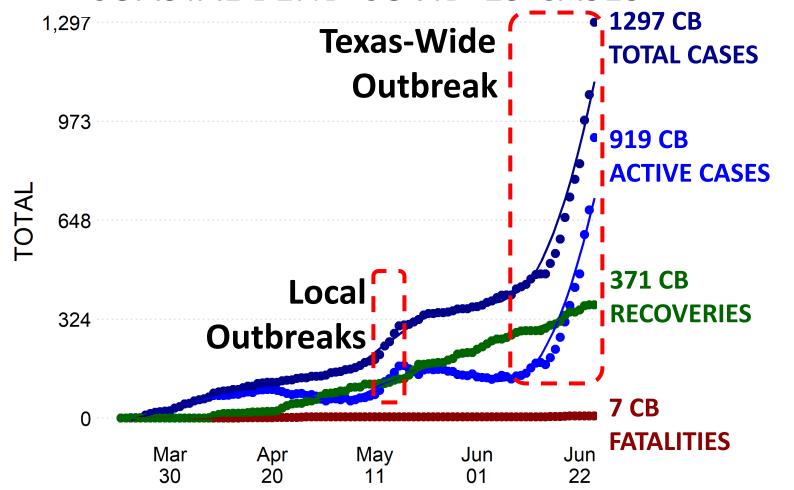


REPORT FOR 12 COUNTY COASTAL BEND





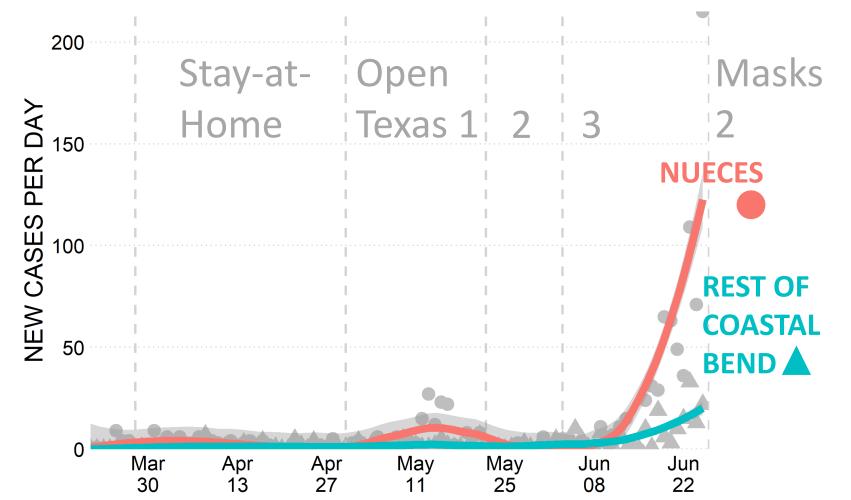
COASTAL BEND COVID-19 CASES





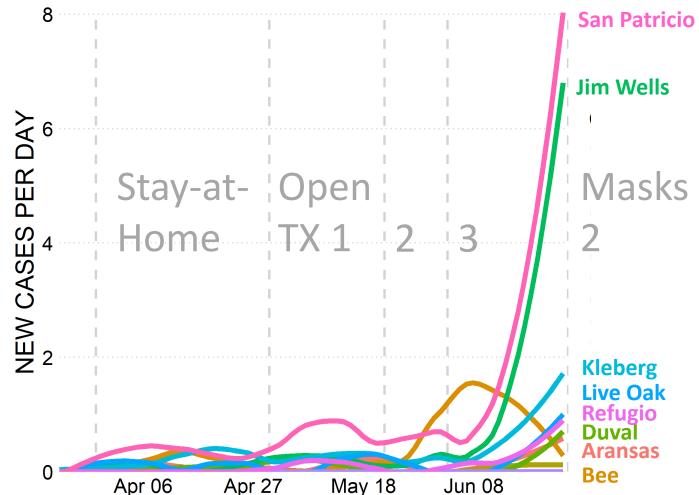
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NEW COVID-19 CASES PER DAY





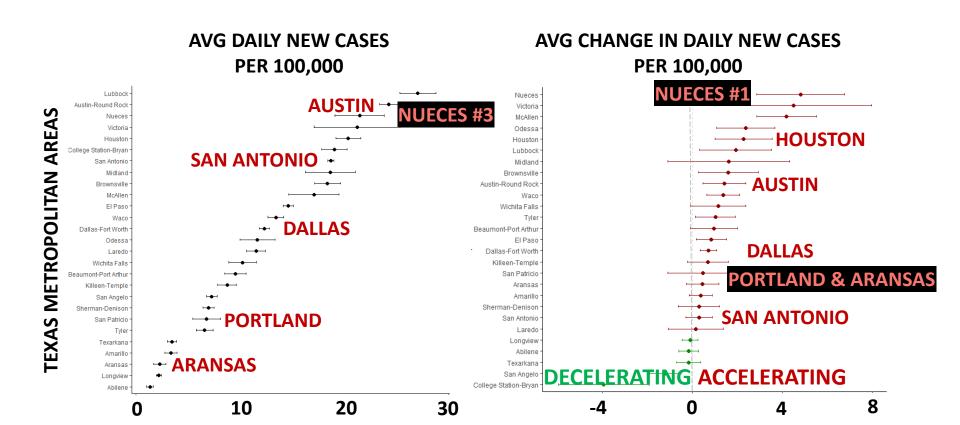
NEW COVID-19 CASES PER DAY



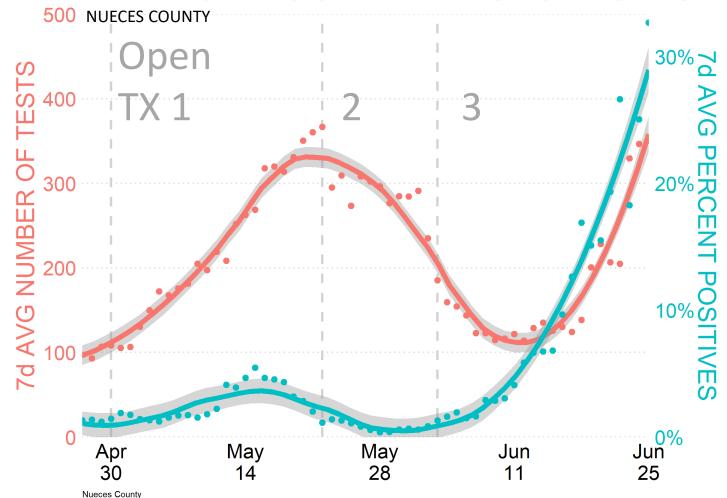


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CASES ACCUMULATING RAPIDLY IN NUECES COUNTY IN PAST WEEK



RATE OF POSITIVE TESTS RISING





CELL PHONES CAN BE USED TO ASSESS OUR BEHAVIORS, EVALUATE INTERVENTIONS



Foot Traffic Leaving Home Potential Encounters



WHAT ABOUT OUR PRIVACY?

- Apps track your location and the data is sold to businesses
 - Google maps
 - Facebook
 - Instagram
 - Flashlight
- Anonymized data is used for targeted advertising & decision making

Use location?

This app wants to change your device settings:

 Use GPS, Wi-Fi and mobile networks for location

Find out more



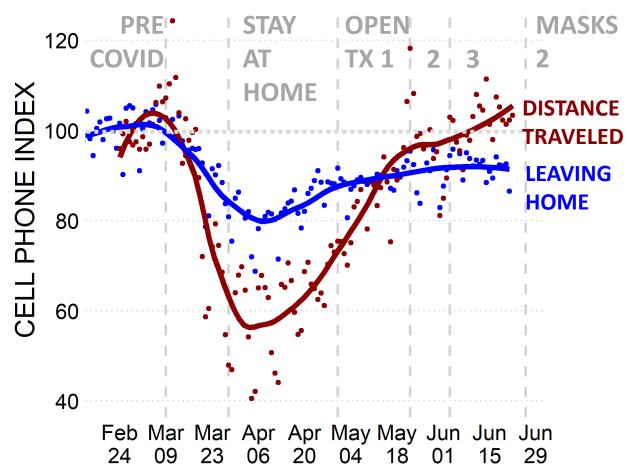
NO

YES

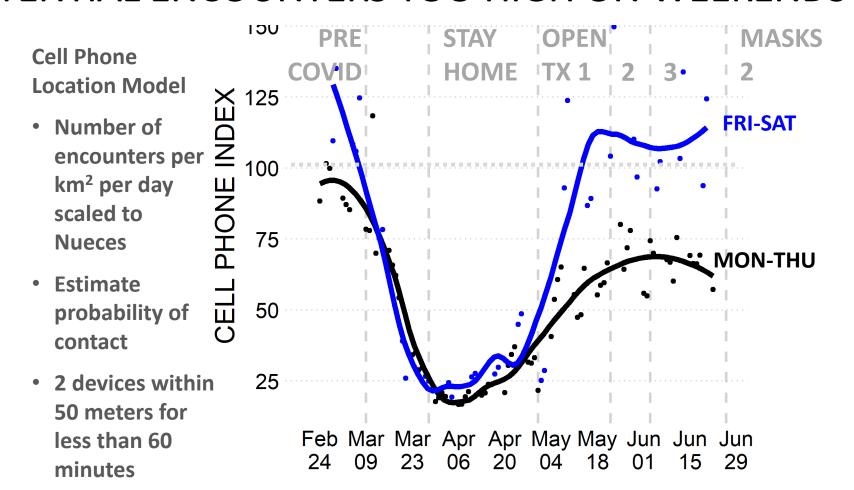
MANY ARE LEAVING HOME

Cell Phone Location Model

- Proportion leaving home per day
- Device leaves home triggers count
- Distance traveled



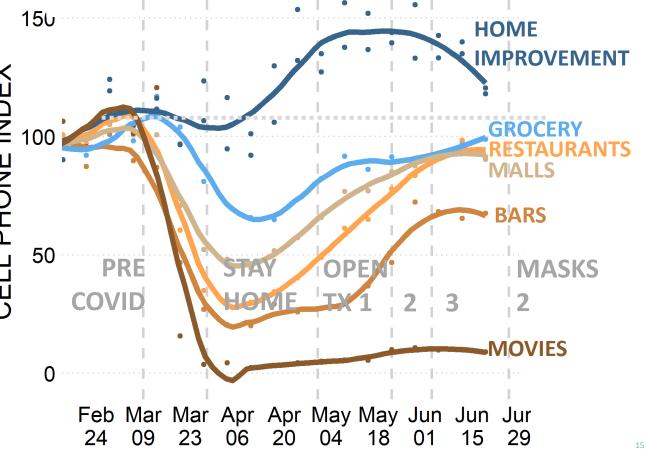
POTENTIAL ENCOUNTERS TOO HIGH ON WEEKENDS



ESSENTIAL & NON-ESSENTIAL GATHERINGS

Cell Phone Foot Traffic Model

- Visits to local establishments **Z** counted
- Device near or in building
- safeGraph.com



TRANSMISSION RATE IS TOO HIGH

PEOPLE INFECTED

PER CARRIER

3.1
SOUTH TEXAS



Week Week
Week 2
1

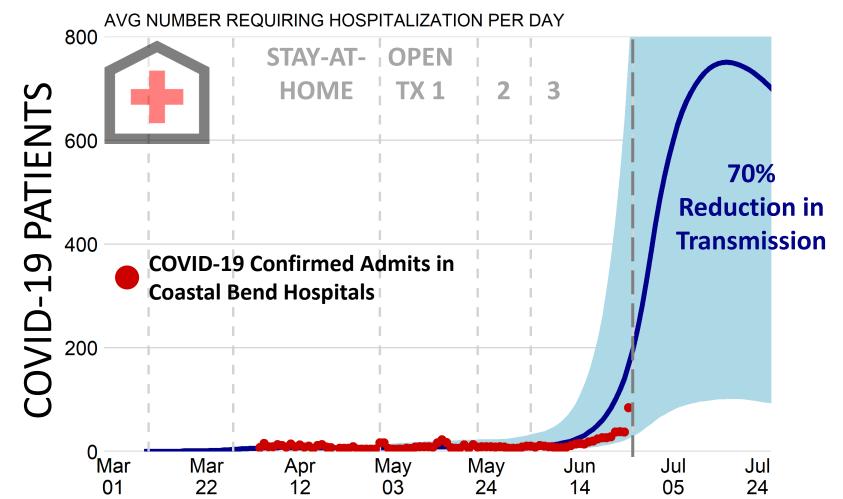
136 Infected In 1 month

Week 4

IN 1 MONTH

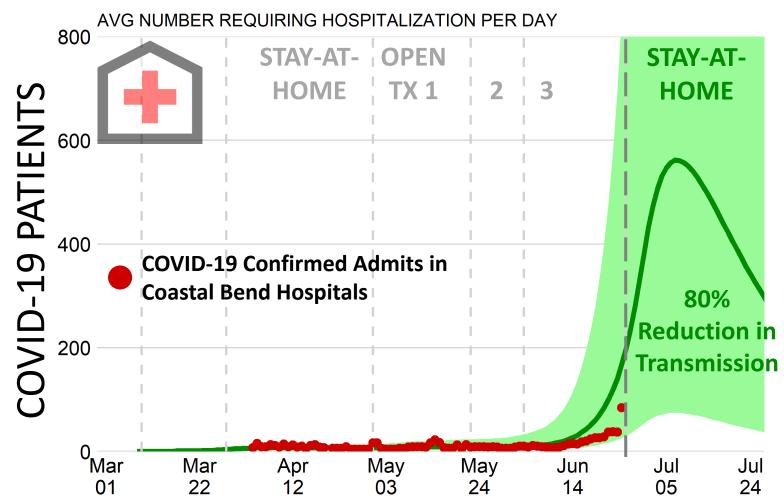


PROJECTED HOSPITALIZED



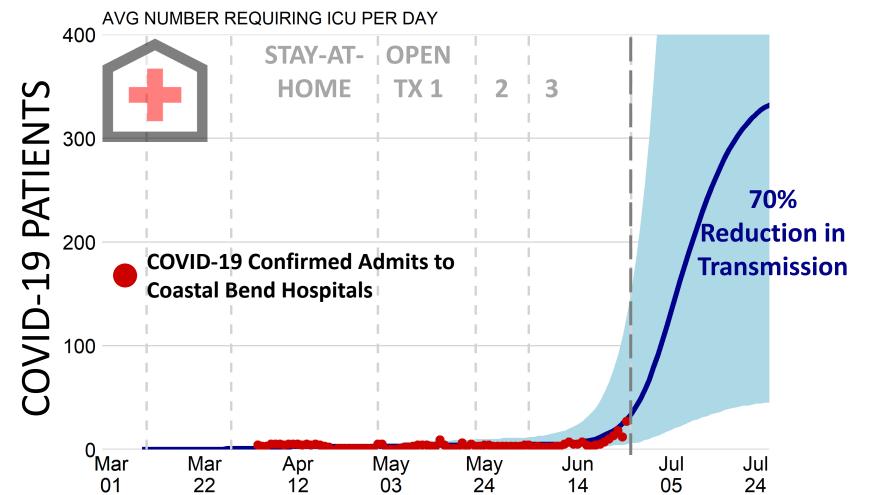


PROJECTED HOSPITALIZED



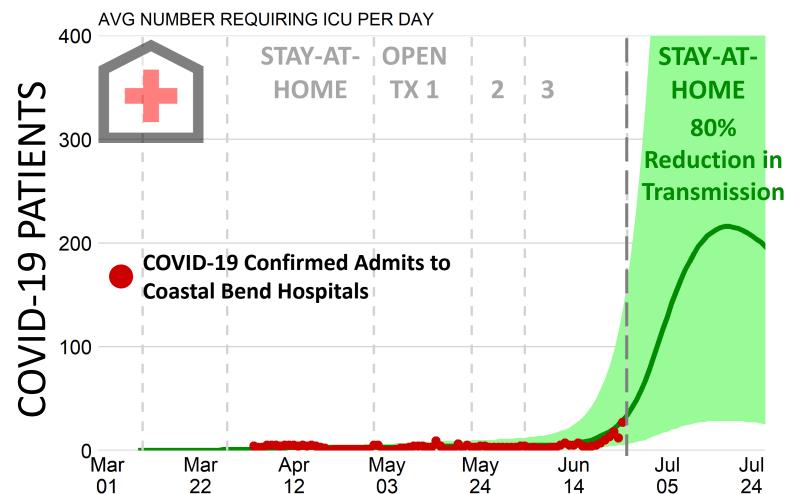


PROJECTED ICU



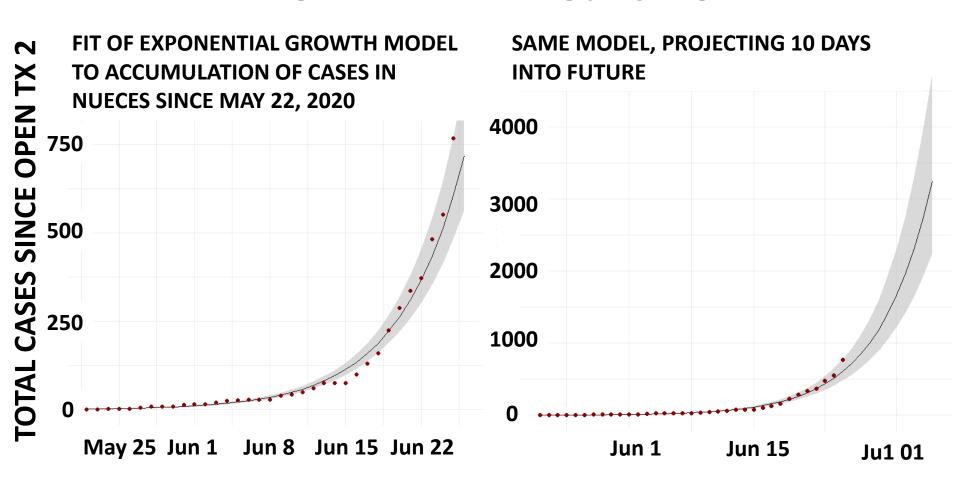


PROJECTED ICU





EXPONENTIAL PROJECTION



SUMMARY

- Texas-Wide-Outbreak
- COVID-19 still expanding RAPIDLY in <u>South</u>
 <u>TX</u>
- 7-14 days until changes made today affect cases, hospitalizations
 - Today's cases were infected last week
- Expect indicators of COVID to be affected
 - Capacity of system to test and report COVID cases will be strained



HELP CONTAIN LOCAL OUTBREAKS

- Critically important to identify & contain localized outbreaks
 - Involved businesses, leaders, essential & frontline workers should be commended for compliance & comprehensive testing
- Lessons learned for managers
 - Task force recommends you do as much as possible to stop the transmission of COVID



WHAT CAN WE DO TO **CONTROL THE SPREAD OF COVID-19?**

- Each of us can make a difference
 - Face coverings in public decrease transmission by up to 50%
 - Social distance (6+ ft)
 - Self-isolate when symptomatic
 - Stay-at-Home if you can
 - Postpone social gatherings, or have them online
 - Curbside & takeout
- Support testing & contact tracing

https://tinyurl.com/TAMUCC-COVID





ACKNOWLEDGEMENTS

https://www.conradblucherinstitute.org/covid19-response

- The joint taskforce was created by Judge Canales, City leadership including City Manager Zanoni, TAMU-CC President Miller and Vice President Mahdy
- Many Organizations and People Contributed to this Work
- Including: Philippe Tissot, Keren Costanzo, Chris Bird, Daniel McGinn, Steve Viera, Lucy Huang, Jason Selwyn, Bryan Gillis, Meng Zhao, Greg Buck, Jason Louis, Hilary Watt, Annette Rodriguez, Mike Mohat, Mike Simmons, Scott King, Evan Krell, Mahmoud Eldefrawy, Roy Roberts, Audrey Garza, Gina Concannon, Davey Edwards, Qianqian Liu, Leisha Martin, Ed Warga, Dante Gonzalez, Tiffany Anderson, Maggie Turner



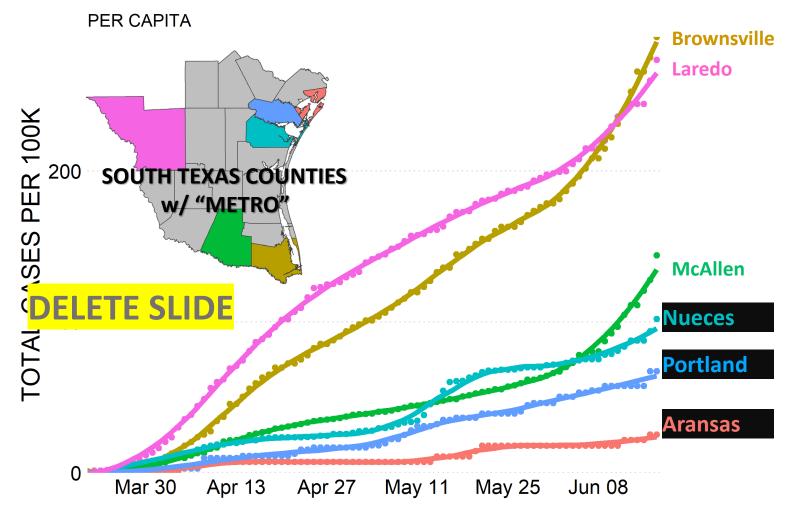




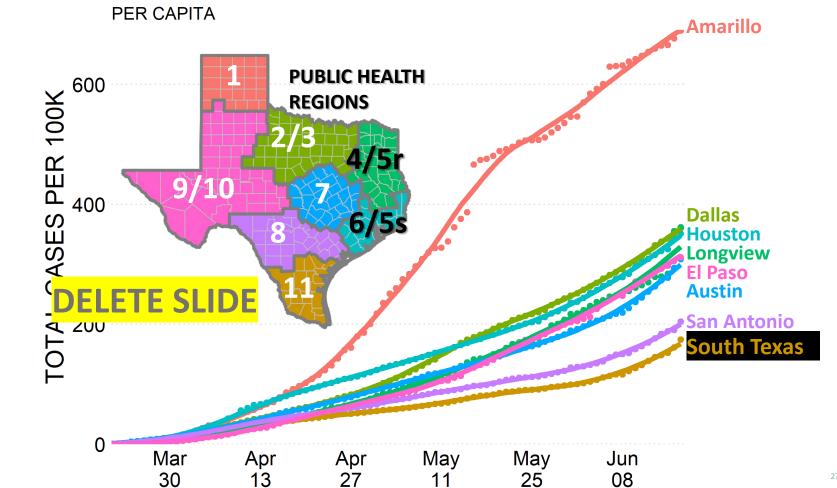




TOTAL COVID-19 CASES



TOTAL COVID-19 CASES



TESTS PER DAY NUECES COUNTY Out-Breaks ! Nursing 300 ! Homes 200 Replace w/ 2 axis figure 100 Apr May Apr May Jun Jun

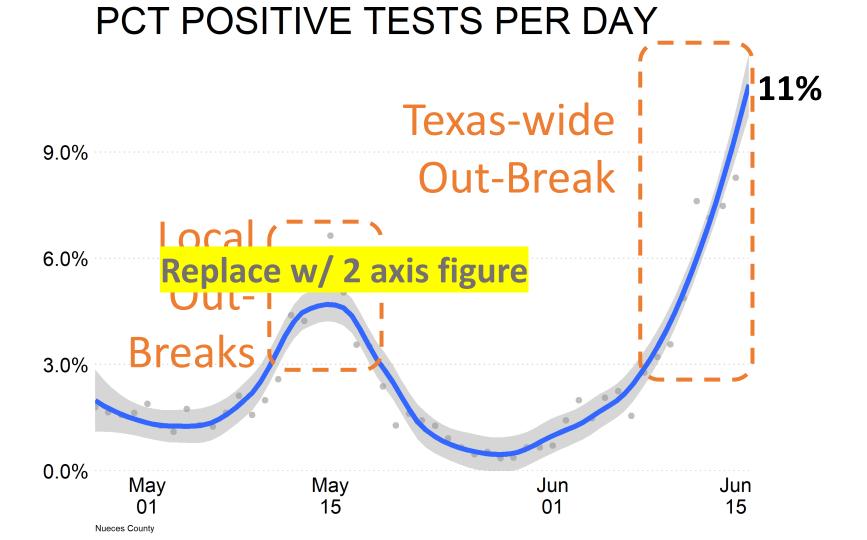
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15

04

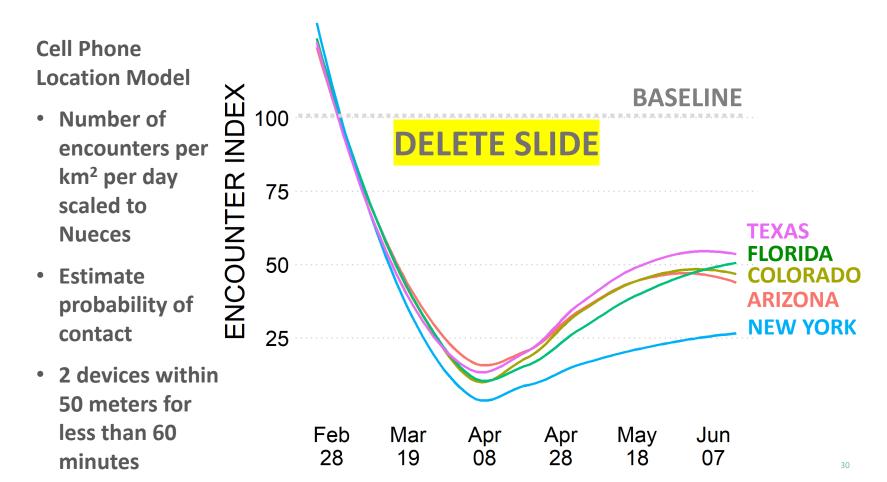
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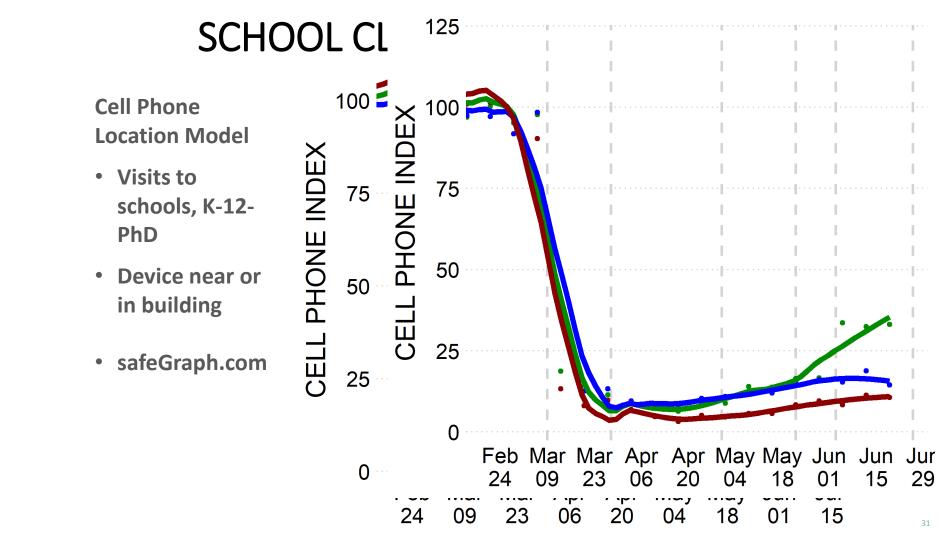
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PHONE ENCOUNTERS

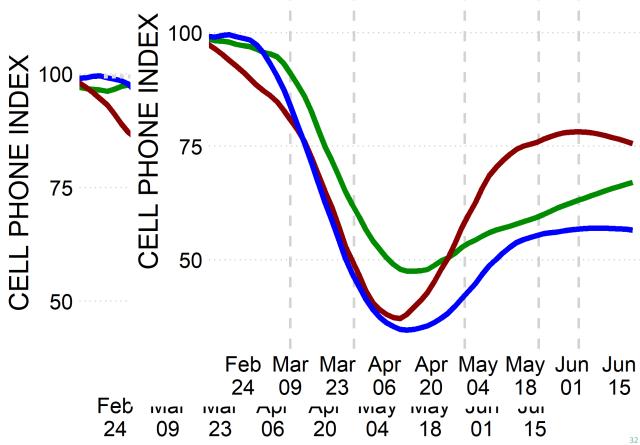




MEDICAL OFF

Cell Phone Location Model

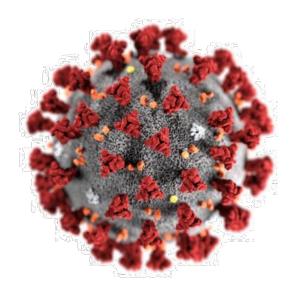
- Visits to medical facilities
- Phone near or in building
- safeGraph.com



Maybe Slide for ISDs (Could just put on website)

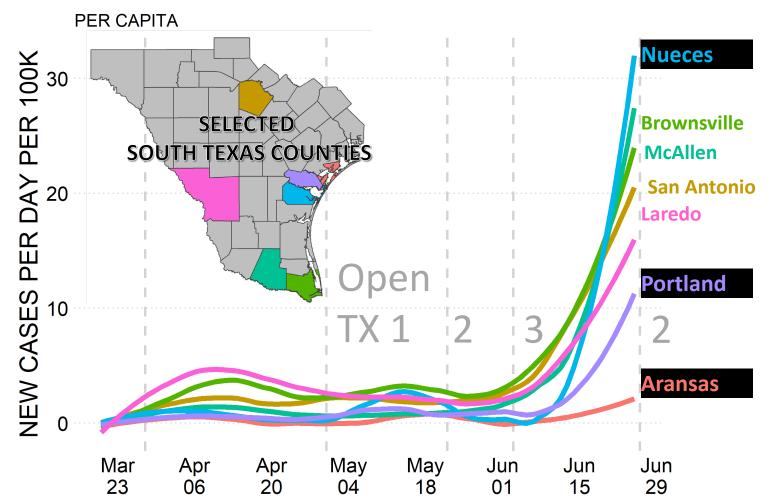
- Corpus Christi ISD
 - Ccisd.tx@k12-lets-talk.com
 - Looking to follow Texas Education Agency Guidance
 - Current plan includes starting on August 13
- Flour Bluff ISD
 - District Phone 361-694-9000
 - District email info@flourbluffschools.net
 - https://flourbluffschools.net/coronavirus-covid-19-updates/
- London ISD
 - District Phone 361-855-0092
 - Looking to follow Texas Education Agency Guidance
 - Considering two options found here (http://www.londonisd.net/)
- All other Coastal Bend ISD/CSDs can be found here: https://www.esc2.net/schools/

CASE DATA REPORT



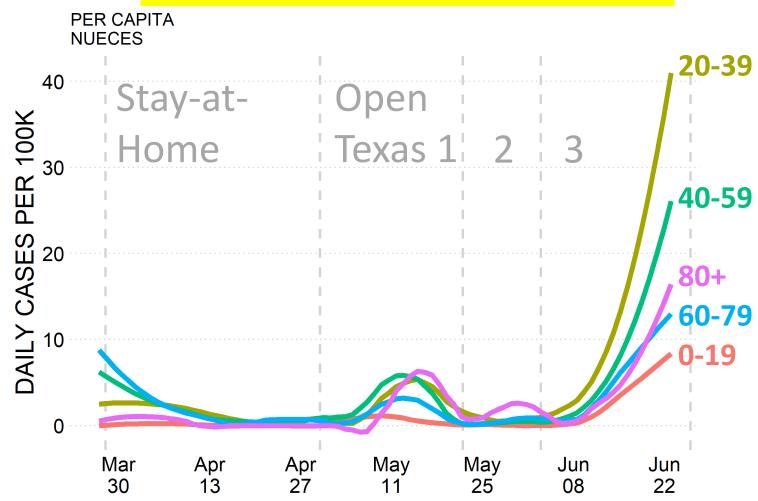


NEW COVID-19 CASES PER DAY

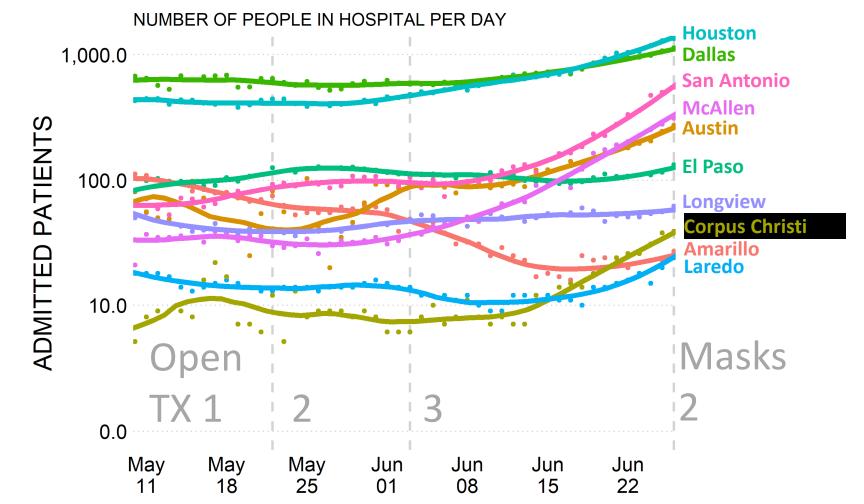


NEW COVID-19 CASES PER DAY South Texas PER CAPITA Houston NEW CASES PER DAY PER 100K **PUBLIC HEALTH** Austin **REGIONS** Amarillo San Antonio El Paso 6/5s **Dallas** Longview Mar May Apr Apr May Jun Jun 30 13 27 25 80 22

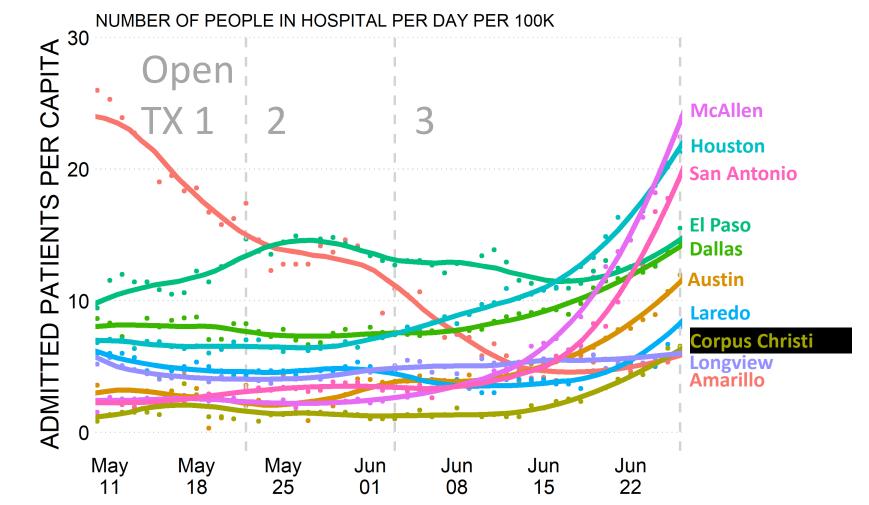
CASES RISING AMONG ALL AGE GROUPS



COVID-19 HOSPITALIZATIONS



COVID-19 HOSPITALIZATIONS





INTERVENTIONS DECREASE TRANSMISSION

- 1. STAY-AT-HOME IF YOU CAN
- 2. SOCIAL DISTANCING & FACE COVERINGS
- 3. SELF ISOLATE WHEN SYMPTOMATIC
- 4. SCHOOL CLOSURES
- 5. RESTRICTIONS TIGHTENED ON GATHERINGS/ BARS/ RESTAURANTS









Statewide "Open Texas" Philosophy

Slowly Roll Back Interventions

- Contain Flare Ups
 - Example: May Nueces
 Outbreaks
 - Example: Close Restaurant Dining Rooms

Stop Rolling Back Interventions
 When COVID Gets Too Hot



'Stay-at-Home': Turn Off



'Open Texas': How High Can We Turn the Dial Before it Gets Too Hot?

SOMETIMES THE BURNER IS HOTTER THAN IT LOOKS



EPIDEMIOLOGICAL MODELS <u>SIMULATE</u> THE COVID-19 PANDEMIC

