Background: Laura is forecast to become a category 4 Hurricane before landfall northeast of Houston, TX. States of emergency declared for Florida, Mississippi, Louisiana, and Texas. Several companies in Louisiana have suspended operations at crude oil terminals in preparing for the arrival of the storm. 16 dynamically positioned (DP) rigs moved off location representing 100 percent of operating DP rigs in the Gulf. Personnel were evacuated from 299 production platforms, 46.5 percent of the 643 manned platforms in the Gulf of Mexico. Downed trees and road closures are major concerns along I-10, which runs east-west through the Florida panhandle, across Louisiana, Texas and to Los Angeles, and I-45, connecting Dallas and the Gulf Coast. Roughly 200 miles of each interstate are in the storm’s potential path. Precautionary measures should be taken here, or alternative routes should be taken to reduce the risk of disruptions across this zone.

Lifeline Status

Communications

US
- In July there were roughly 90,000 households in this geography receiving benefits from the Supplemental Nutrition Assistance Program (SNAP). Beginning in August SNAP benefits were maximized for all Louisiana program participants (e.g. $646 per month for a family of four). Louisiana SNAP benefits were paid out on August 21.
- DIRS was activated for select counties within Texas, Louisiana, Arkansas, and Missouri. DIRS considerations are being made for additional counties as the storm is forecast to progress across 15 states and the District of Columbia. Government Emergency Telecommunications Service (GETS) and Wireless Priority Service (WPS) Emergency Code Red was activated.

Food, Water, Shelter

US
- Grocery shopping frequency has greatly declined since the start of the pandemic.
- Shopping once a week or more has declined 20% (from 67% of shoppers to 47% of shoppers).
- Shopping less frequently has increased since the pandemic began, with 27% of shoppers now going to the grocery store two to three times a month and 26% going once a month or less.

Pharmacy status

- As of 2pm on 8/25 there are 38 closed pharmacies in the US.
- Pharmacy status in LA, MS, and TX is as follows:

<table>
<thead>
<tr>
<th>Pharmacy Status</th>
<th>Louisiana</th>
<th>Mississippi</th>
<th>Texas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open</td>
<td>980</td>
<td>550</td>
<td>3724</td>
</tr>
<tr>
<td>Closed</td>
<td>0</td>
<td>0</td>
<td>15</td>
</tr>
<tr>
<td>Unknown</td>
<td>21</td>
<td>16</td>
<td>200</td>
</tr>
<tr>
<td>Not participating in Rx Open</td>
<td>121</td>
<td>110</td>
<td>1190</td>
</tr>
</tbody>
</table>

Healthcare Ready Support Team
alerts@healthcaredyready.org

Energy

Fuel
- Power: Expect extended power outages during this event; Contractor line support on stand-by to assist with restoration of power post-event. TS Laura is projected to leave 276,330 customers without power.

Transportation

Ports
- The Port of Houston’s terminals will be closed 8/26 and 8/27 due to weather, although this is subject to change. Although we have yet to see impacts of this closure, we are aware that disruptions to the movement of products through this port may impact supply chains. We will continue tracking these impacts as the storm makes landfall.

Healthcare & Medical

US
- There is a noticeable increase in pharmacy closures (+14) and pharmacies with the unknown status (+31) in Texas. We anticipate this is due to the forecast of Hurricane Laura and will continue to track pharmacy status as the storm makes landfall.
- Reported impacts to healthcare supply chain
  - No impacts at this time.
- Other situational awareness and considerations
  - Although Marco is no longer a threat, flooding has already occurred in the southern Mississippi River, and Hurricane Laura may continue to exacerbate these effects.
  - State supported COVID-19 testing sites in Louisiana are closed until 8/28 due to Hurricane Laura.
**Hurricane Vulnerability Index**

**CURRENT TRENDS**
- 4.2% of firms in Galveston County, Texas, and 4.3% of firms in Harris County, Texas, are expected to suspend operations within a year of the storm.
- Already hard hit by COVID-19, 4.8% of businesses in the *Mining, Quarrying, Oil, and Gas Extraction and Accommodation and Food Services* sectors are expected to suspend operations a year after the storm.
- Projected to be hit by Hurricane force winds, Newton County, Texas (5.4%) and Calcasieu County, Louisiana (5.3%) are expected to see the largest effects from Laura.

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**Trend Chart**

- **Management of Companies and Enterprises**
  - Employers: 595
  - Employees: 102,061
  - Daily Wages: $31,486,674
  - Probability of Inactivity (HVI): 7.0%
- **Other Services (except Public Administration)**
  - Employers: 164,341
  - Probability of Inactivity (HVI): 5.7%
- **Accommodation and Food Services**
  - Employers: 20,902
  - Employees: 317,068
  - Daily Wages: $15,181,029
  - Probability of Inactivity (HVI): 4.8%
- **Mining, Quarrying, and Oil and Gas Extraction**
  - Employers: 4,946
  - Employees: 65,932
  - Daily Wages: $16,381,750
  - Probability of Inactivity (HVI): 4.8%
- **Real Estate and Rental and Leasing**
  - Employers: 36,305
  - Employees: 470,203
  - Daily Wages: $49,255,800
  - Probability of Inactivity (HVI): 4.6%
- **Transportation and Warehousing**
  - Employers: 14,772
  - Employees: 72,515
  - Daily Wages: $10,152,246
  - Probability of Inactivity (HVI): 4.3%
- **Finance and Insurance**
  - Employers: 11,435
  - Employees: 160,023
  - Daily Wages: $22,352,150
  - Probability of Inactivity (HVI): 4.2%
- **Administrative Support and Waste Management and Remediation Services**
  - Employers: 17,414
  - Employees: 143,740
  - Daily Wages: $28,346,817
  - Probability of Inactivity (HVI): 4.0%
- **Health Care and Social Assistance**
  - Employers: 24,104
  - Employees: 199,559
  - Daily Wages: $21,438,463
  - Probability of Inactivity (HVI): 4.0%
- **Arts, Entertainment, and Recreation**
  - Employers: 4,184
  - Employees: 33,645
  - Daily Wages: $2,911,904
  - Probability of Inactivity (HVI): 4.0%
- **Construction**
  - Employers: 4,518
  - Employees: 57,950
  - Daily Wages: $10,746,265
  - Probability of Inactivity (HVI): 3.9%
- **Professional, Scientific, and Technical Services**
  - Employers: 19,370
  - Employees: 264,952
  - Daily Wages: $41,796,521
  - Probability of Inactivity (HVI): 3.7%
- **Educational Services**
  - Employers: 29,278
  - Employees: 552,957
  - Daily Wages: $62,460,901
  - Probability of Inactivity (HVI): 3.5%
- **Professional, Scientific, and Technical Services**
  - Employers: 5,695
  - Employees: 85,927
  - Daily Wages: $7,613,873
  - Probability of Inactivity (HVI): 3.5%
- **Agriculture, Forestry, Fishing, and Hunting**
  - Employers: 30,156
  - Employees: 250,068
  - Daily Wages: $50,841,706
  - Probability of Inactivity (HVI): 3.4%
- **Wholesale Trade**
  - Employers: 2,433
  - Employees: 13,630
  - Daily Wages: $1,573,958
  - Probability of Inactivity (HVI): 3.4%
- **Utilities**
  - Employers: 15,727
  - Employees: 177,923
  - Daily Wages: $20,121,328
  - Probability of Inactivity (HVI): 3.3%
- **Manufacturing**
  - Employers: 2,053
  - Employees: 26,417
  - Daily Wages: $6,024,398
  - Probability of Inactivity (HVI): 3.3%
- **Public Administration**
  - Employers: 8,797
  - Employees: 221,160
  - Daily Wages: $27,626,086
  - Probability of Inactivity (HVI): 0.0%

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*The Hurricane Vulnerability Index (HVI) Measures the probability that a business will go inactive within a year of being hit by a hurricane or tropical storm.*
Presence of Top US Businesses

<table>
<thead>
<tr>
<th>Global Ultimate Business Name</th>
<th>Total Annual Sales</th>
<th>Locations in the Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dollar General Corporation</td>
<td>$27,753,973,000</td>
<td>762</td>
</tr>
<tr>
<td>Dollar Tree, Inc.</td>
<td>$23,610,800,000</td>
<td>760</td>
</tr>
<tr>
<td>Jones Financial Companies, L.L.P.</td>
<td>$8,269,000,000</td>
<td>499</td>
</tr>
<tr>
<td>CVS Health Corporation</td>
<td>$256,776,000,000</td>
<td>350</td>
</tr>
<tr>
<td>Walgreens Boots Alliance, Inc.</td>
<td>$136,866,000,000</td>
<td>321</td>
</tr>
<tr>
<td>JPMorgan Chase &amp; Co.</td>
<td>$142,422,000,000</td>
<td>301</td>
</tr>
<tr>
<td>O'Reilly Automotive, Inc.</td>
<td>$10,149,985,000</td>
<td>263</td>
</tr>
<tr>
<td>Wells Fargo &amp; Company</td>
<td>$103,915,000,000</td>
<td>262</td>
</tr>
<tr>
<td>Kinder Morgan Inc.</td>
<td>$13,209,000,000</td>
<td>255</td>
</tr>
<tr>
<td>AT&amp;T Inc.</td>
<td>$181,193,000,000</td>
<td>223</td>
</tr>
</tbody>
</table>

- We identified businesses in the US with over $5B in Total Annual Sales, a comparable list to the Fortune 500.

- From these 750 businesses, we identified the 10 with the most sites in their corporate family tree located in the coastal counties in Arkansas, Louisiana, and Texas. The table above summarizes the Top 10 businesses in the region, along with the number of site locations in each state.

- The map on the right displays the locations in the region associated with these Top 10 businesses.
### Small Business Landscape

<table>
<thead>
<tr>
<th>NAICS 2 Industry</th>
<th>Employers</th>
<th>Employees</th>
<th>Daily Wages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Care and Social Assistance</td>
<td>20,726</td>
<td>206,515</td>
<td>$21,897,535</td>
</tr>
<tr>
<td>Accommodation and Food Services</td>
<td>14,845</td>
<td>151,548</td>
<td>$7,183,524</td>
</tr>
<tr>
<td>Retail Trade</td>
<td>21,442</td>
<td>144,909</td>
<td>$13,367,177</td>
</tr>
<tr>
<td>Construction</td>
<td>16,803</td>
<td>134,822</td>
<td>$20,043,840</td>
</tr>
<tr>
<td>Professional, Scientific, and Technical Services</td>
<td>25,541</td>
<td>133,202</td>
<td>$23,797,349</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>8,691</td>
<td>90,438</td>
<td>$13,414,122</td>
</tr>
<tr>
<td>Administrative and Support and Waste Management and Remediation Services</td>
<td>10,920</td>
<td>81,767</td>
<td>$8,788,033</td>
</tr>
<tr>
<td>Wholesale Trade</td>
<td>9,330</td>
<td>66,719</td>
<td>$10,851,942</td>
</tr>
<tr>
<td>Other Services (except Public Administration)</td>
<td>13,624</td>
<td>56,222</td>
<td>$4,567,526</td>
</tr>
<tr>
<td>Transportation and Warehousing</td>
<td>7,806</td>
<td>49,322</td>
<td>$6,557,533</td>
</tr>
<tr>
<td>Real Estate and Rental and Leasing</td>
<td>11,217</td>
<td>41,431</td>
<td>$5,693,466</td>
</tr>
<tr>
<td>Finance and Insurance</td>
<td>9,187</td>
<td>57,886</td>
<td>$7,269,940</td>
</tr>
<tr>
<td>Information</td>
<td>2,236</td>
<td>16,126</td>
<td>$2,890,759</td>
</tr>
<tr>
<td>Mining, Quarrying, and Oil and Gas Extraction</td>
<td>2,470</td>
<td>15,958</td>
<td>$3,758,053</td>
</tr>
<tr>
<td>Arts, Entertainment, and Recreation</td>
<td>2,934</td>
<td>12,843</td>
<td>$1,131,330</td>
</tr>
<tr>
<td>Management of Companies and Enterprises</td>
<td>312</td>
<td>11,514</td>
<td>$2,065,429</td>
</tr>
<tr>
<td>Agriculture, Forestry, Fishing and Hunting</td>
<td>2,101</td>
<td>8,475</td>
<td>$994,926</td>
</tr>
<tr>
<td>Educational Services</td>
<td>2,162</td>
<td>5,762</td>
<td>$485,931</td>
</tr>
<tr>
<td>Utilities</td>
<td>590</td>
<td>3,667</td>
<td>$745,921</td>
</tr>
</tbody>
</table>

### Small Business Percentage By County in the Path of Laura

- **As shown above, Health Care and Social Assistance** (206,515 employees) has the largest small business footprint in the at-risk counties.
- **Professional, Scientific, and Technical Services** (25,541) and Retail Trade (21,442) contain the highest number of small business employees.
- The table above shows the number, level of employment, and daily wages paid by small businesses by sector for the at-risk counties in the path of Laura. The small business percentage for each of the counties exposed to the storm is shown on the map to the right of the table.
- The table to the left shows the counties with the highest percentage of small businesses.
Oil and Gas Extraction

BIG TAKEAWAYS
- Bankruptcies in the Mining, Oil, and Gas Extraction Sector are up 73% for 2020 so far over the entirety of 2019.
- Average quarterly net income for businesses in the Oil and Gas Extraction sector dropped $500 Million in the first quarter of 2020 as a result of low oil prices due to COVID-19.