Current Situation

CORONAVIRUS (COVID-19) BY THE NUMBERS
Weld County, Colorado  Updated March 25, 2020

Positive Cases: 106  Deaths: 4

<table>
<thead>
<tr>
<th>Age</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-99</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>80-89</td>
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</tr>
<tr>
<td>70-79</td>
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</tr>
<tr>
<td>60-69</td>
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<td>0</td>
</tr>
<tr>
<td>50-59</td>
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<td>0</td>
</tr>
<tr>
<td>40-49</td>
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<td>0</td>
</tr>
<tr>
<td>30-39</td>
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</tr>
<tr>
<td>20-29</td>
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<td>0</td>
</tr>
<tr>
<td>10-19</td>
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<td>0</td>
</tr>
<tr>
<td>0-9</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Note: Laboratories and healthcare providers are not required to notify the Health Department of individuals tested for COVID-19, or of negative test results for COVID-19. The Health Department is only notified of COVID-19 confirmed cases and deaths. Therefore, the Health Department is unable to report an accurate number of total tests performed on Weld residents. For detailed information about statewide COVID-19 testing and results, please visit: https://covid19.colorado.gov/data. Please also note this website by CDPHE may not have up-to-date results for Weld County.

Proxy Measures – Symptoms

Respiratory symptoms: Fever, Cough, Shortness of Breath

Kinsa Health Smart Thermometer Data as of 3/25/20 [https://healthweather.us/]

March 13, 2020 – March 17, 2020 & March 19 in atypical (red) range.

Kinsa Health Smart Thermometer Data as of 3/25/20 https://healthweather.us/

How to read this chart:
This chart allows you to compare Kinss observations of the influenza-like illness level in Weld County, in orange and red, against where we'd expect them to be, in blue.

Based on our data, influenza-like illness levels in Weld County are within a normal range for this time of year.

More information
Methods
The data visualized here is a product of Kinss network of Smart Thermometers and the connected mobile applications. For answers to common questions about the map and the terms used here, please review our FAQ page. For details about our approach to determining typical illness levels and anomaly detection, please review our Technical Approach document.

Contact us
Do you work in public health, media, or at a business that wants to explore a partnership with Kinss? Please reach out to us.
For the past two weeks (2020-10 and 2020-11), the percentage (%) of Flu decreased from 2.25% to 1.73%.

For the past two weeks (2020-10 and 2020-11), the percentage (%) of COVID-19 related symptoms increased from 1.29% to 2.78%.

More visits were related to fever and either cough or shortness of breath which are symptoms of COVID-19.
COVID-19 Confirmed Cases by Location

- Weld
- Colorado
- USA
- California
- Italy
- New York
- South Korea

Cumulative Confirmed Cases

Day 1 to Day 12
COVID-19 Initial Epidemic Curves for Weld and Selected Locations with Trendlines

- Weld
- Colorado
- USA
- California
- Italy
- New York
- South Korea

Exponential Models:
- Expon. (Weld)
- Expon. (Italy)
- Expon. (South Korea)

Cumulative COVID-19 Cases Reported (Log10)
Do Nothing Scenario: Pandemic Influenza Plan Model

Epidemic Calculator

Transmission Dynamics
- Population inputs:
  - Size of population: 200,000
  - Number of initial infections: 70

- Basic Reproduction Number $R_0$: Measure of contagiousness, the number of secondary infections each infected individual produces.

Transmission Times
- Length of incubation period, $T_{inc}$: 8.10 days
- Duration patient is infectious, $T_{inf}$: 1.0 days

Clinical Dynamics
- Mortality Statistics
  - Case fatality rate: 2.0%
- Recovery Times
  - Length of hospital stay: 21.5 days
  - Time from end of incubation to death: 32 days
- Care statistics
  - Recovery time for mild cases: 11.1 days
  - Time to hospitalization: 5 days
Current Situation: Mitigation, Slowing the Spread

Epidemic Calculator

[Graph showing epidemic dynamics with various parameters and calculations]

Note: Scale changes
The Goal: Suppression, Reversing Growth

Epidemic Calculator

Note: Scale changes
Testing of Essential Personnel

- Drive thru testing for symptomatic health and emergency services professionals only will start next week.
  - Personnel will be approached by survey in next 24-48 hours
  - If approved, will be preregistered for a time slot
  - Location: The Ranch
  - Collaboration between CDPHE, Larimer, and Weld Counties
  - Reminder: This is by appointment only; no unscheduled personnel able to be seen right now
We’re in this together. We see people and businesses innovating daily to help prevent spread. We challenge everyone to pitch in to help us beat COVID-19.