



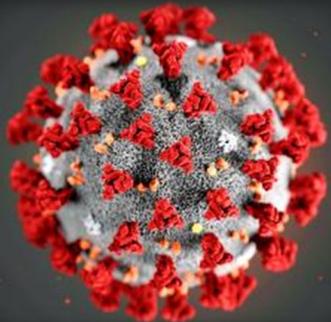
**Loudoun County**

**VIRGINIA**

WHERE TRADITION MEETS INNOVATION

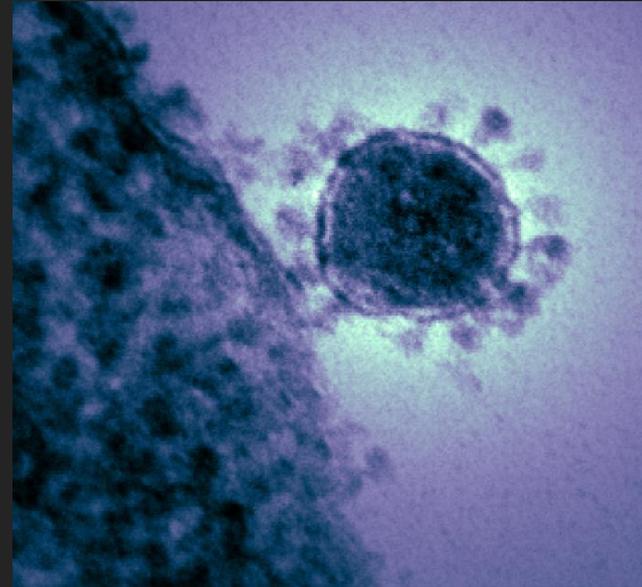
# **2019 Novel Coronavirus (COVID-19) Briefing**

Loudoun County School Board Meeting  
March 10, 2020



# Coronaviruses that Infect People

- 4 cause common cold symptoms
- 2 (SARS and MERS) cause severe lung infection
- Spread through coughing, sneezing or close personal contact
- Symptoms start 2-14 days after exposure



- 2019 Novel Coronavirus – still learning about it

# COVID-19 Compared to Past CoV Epidemics

CoV	Origin	Cases	Deaths
COVID-19 (As of 3/10/20*)	Dec 2019 (China)	117,730	4259 <b>CFR = 3.5%</b>
MERS-CoV	2012 (Saudi Arabia)	2,494	858 <b>CFR = 34%</b>
SARS-CoV	2002 (China)	8,098 (None since 2004)	774 <b>CFR = 10%</b>

\*Reported by the World Health Organization

# How Contagious Is It?

Disease	$R_0$
MERS-CoV	< 1
Seasonal influenza	1-2
COVID-19	Estimates: 1.4-3.9
SARS-CoV	3
Measles	12-18

# When Did the Outbreak Start?

Cluster of 44  
Cases of  
pneumonia  
announced  
in Wuhan  
12/31/19

First  
exported  
case from  
China  
diagnosed  
1/13/20

CDC  
developed  
rRT-  
PCR test  
1/19/20

1/7/20

Novel  
coronavirus  
isolated in  
China

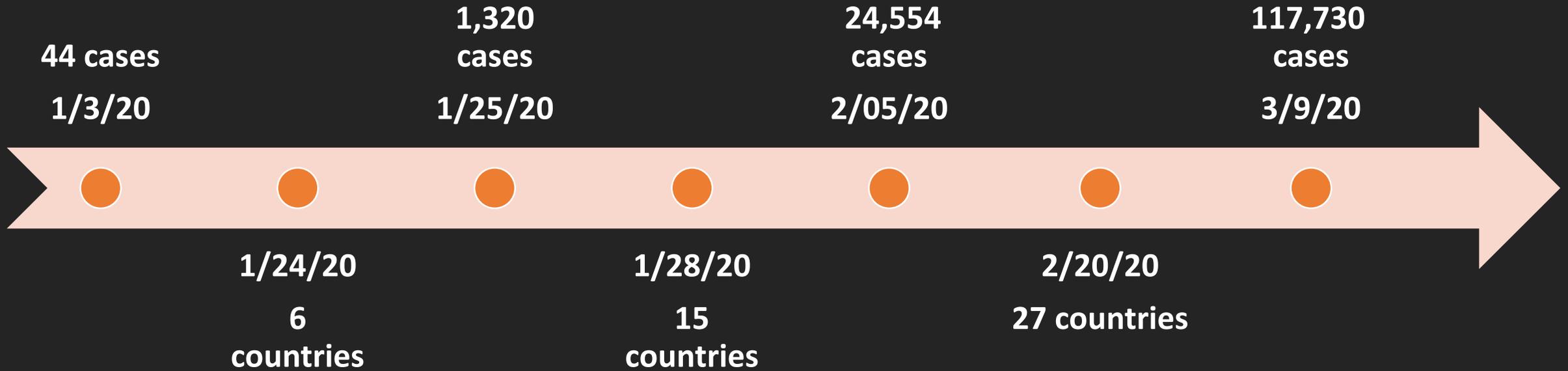
1/17/20

Entry  
screening at 3  
U.S. airports  
began

1/21/20

First U.S.  
case  
diagnosed

# How Many People Are Sick?



Confirmed Cases as of 3/9/20 Reported by the World Health Organization	
Total	117,730 known cases; 4,259 deaths
China	80,757 known cases; 3,136 deaths
United States	800 known cases; 28 deaths
Virginia	5 cases; (38 PUIs ruled out)

# WHO Frequency Map



Coronavirus COVID-19 Global Cases by the Center for Systems Science and Engineering (CSSE) at Jo...



Total Confirmed

804

Confirmed Cases by Country/Region

80,757 Mainland China

10,149 Italy

8,042 Iran

7,513 South Korea

1,646 Spain

1,606 France

1,281 Germany

800 US

696 Others

581 Japan

382 Netherlands

374 Switzerland

373 UK

325 Sweden

277 Norway

267 Belgium

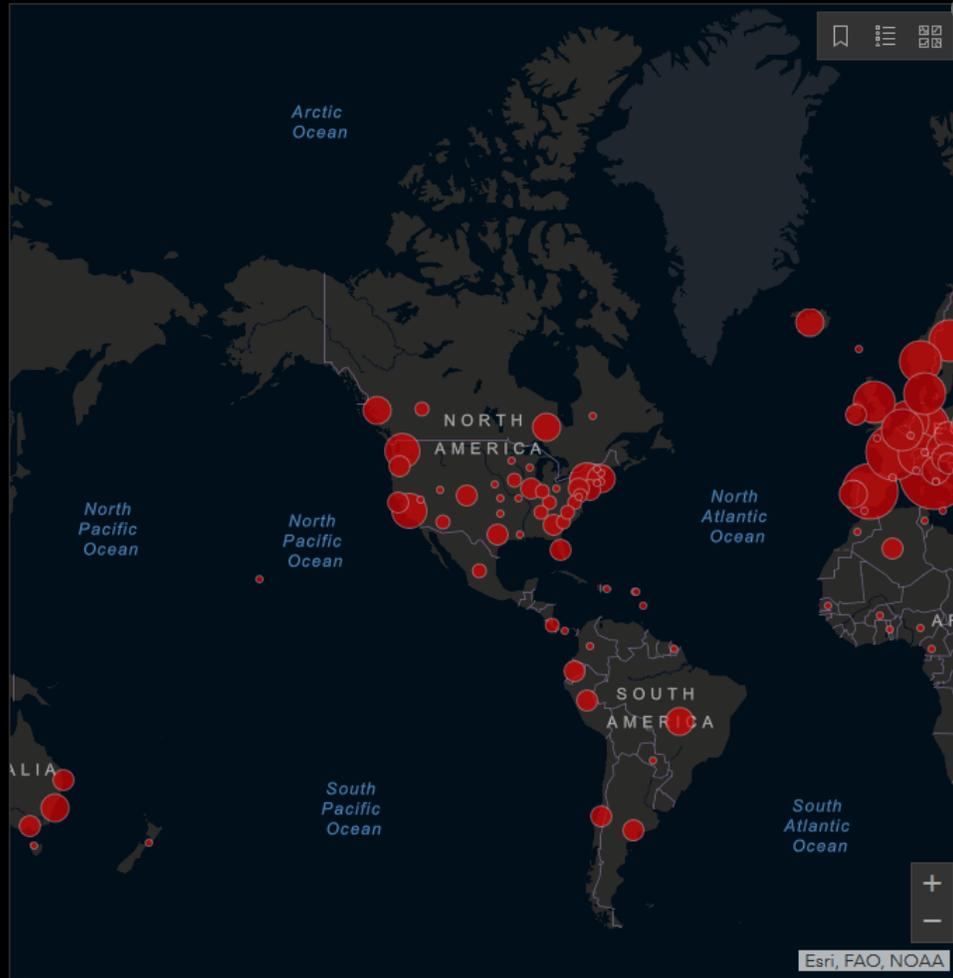
262 Denmark

Country/Region

Last Updated at (M/D/YYYY)  
3/10/2020, 2:13:16 PM

117  
countries/regions

Lancet Inf Dis Article: [Here](#). Mobile Version: [Here](#). Visualization: JHU CSSE. Automation Support: [Esri Living Atlas team](#) and [JHU APL](#). Data sources: [WHO](#), [CDC](#), [ECDC](#), [NHC](#) and [DXY](#) and local media reports. Read more in this [blog](#). [Contact US](#). Downloadable database: [GitHub](#): [Here](#). Feature layer: [Here](#).



Cumulative Confirmed Cases Active Cases

Esri, FAO, NOAA

Total Deaths

28

23 deaths  
Washington US

2 deaths  
California US

2 deaths  
Florida US

1 deaths  
New Jersey US

Total Recovered

8

2 recovered  
California US

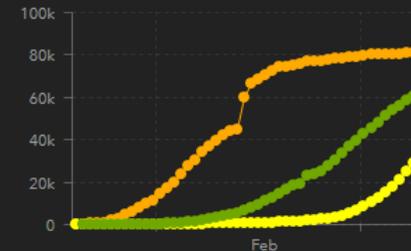
2 recovered  
Illinois US

1 recovered  
Arizona US

1 recovered  
Massachusetts US

1 recovered  
Washington US

1 recovered  
Wisconsin US



Mainland China Other Locations  
Total Recovered

Actual Logarithmic Daily Cases

# Containment Phase

- Goal is to prevent the spread of infection
- Involves voluntary quarantine and isolation of people with recent travel to mainland China and Iran
- Evidence of containment failure
  - South Korea, Italy, Iran
- Local Efforts underway in WA, CA, NY, and more recently in Maryland, DC and Virginia among others

# Testing & Public Health Monitoring Data

Number of Cases, Presumptive Positive or Confirmed

3

Number of Test Results Currently Pending

9

Number of People Currently under Public Health Monitoring

166

Total Number of People Tested for COVID-19, by Region and Testing Status

	Negative	Pending*	Positive	Total^
Central	13	2	0	15
Eastern	6	3	0	9
Northern	13	2	3	18
Northwest	4	2	0	6
Southwest	2	0	0	2
<b>Total</b>	<b>38</b>	<b>9</b>	<b>3</b>	<b>50</b>

Total Number of People under Public Health Monitoring, by Monitoring Status

	Low Risk**	Medium Risk†	High Risk	Total^^
Currently under Monitoring	23	121	22	166
Completed Monitoring without further Public Health Action	16	236	0	252
<b>Total</b>	<b>39</b>	<b>357</b>	<b>22</b>	<b>418</b>

# Quarantine and Isolation

	High Risk	Medium Risk	Low Risk	No identifiable risk
<b>Actions for people without symptoms consistent with COVID-19</b>	Remain under quarantine authority; no public activities; daily active monitoring; controlled travel	Stay home; active monitoring or self-monitoring with public health supervision; recommend to not travel	Self observation	None
<b>Actions for people with symptoms consistent with COVID-19</b>	Immediate isolation; medical evaluation guided by PUI definition; pre-notify healthcare services; controlled travel	Immediate isolation; medical evaluation guided by PUI definition; pre-notify healthcare services; controlled travel	Stay home from work or school, avoid contact with others, don't travel. Seek health advice	None; routine medical care

*These examples may not cover all potential exposures to laboratory confirmed case of COVID-19. If you are concerned about an exposure that does not align with these categories, please contact the CDC Emergency Operations Center at 1-800-232-4636*

- 1-2 times each day, Loudoun County receives lists of individuals in Loudoun County who may be at Medium or Low risk
- The Health Department attempts to interview everyone on that list to identify risk and have voluntary agreements signed, if appropriate
- A nursing on call schedule was started so people can be contacted 7 days a week and they can contact us 24/7

# Mitigation Phase

- Containment efforts are ongoing
- Comprehensive community education
  - General public
  - Healthcare community
  - Government/critical infrastructure
  - High risk populations
  - Hard to reach populations
  - Business community
- Responding to questions and concerns from the public
- Preparing for community impact

# What Can People Do Now?

## Stop the Spread of Germs:

- Wash your hands often with soap and water for at least 20 seconds. Use an alcohol-based hand sanitizer that contains at least 60% alcohol if soap and water are not available.
- Avoid touching your eyes, nose & mouth with unwashed hands.
- Avoid close contact with people who are sick.
- Stay home when you are sick.
- Cover your cough or sneeze with a tissue, then throw the tissue in the trash; or cough or sneeze into the sleeve of your shirt.
- Clean and disinfect frequently-touched objects and surfaces.
- CDC does not recommend that people who are well wear a facemask to protect themselves from respiratory diseases, including COVID-19. Facemasks should be used by people who show symptoms of COVID-19 to help prevent the spread of the disease to others, and by health workers.



# What Can People Do Now?

- Notify your doctor if you are sick
  - As always, if you feel sick, contact your doctor
  - Even though there is no treatment for COVID-19, the flu and other treatable infections are still here
  - Testing for COVID-19 is now more widely available, including through private testing labs
- Do not go to the emergency room just for testing
  - Your doctor should be able to see you if you are sick
  - Doctors' offices can submit specimens for testing the same way the hospital does

# What Can LCPS Do Now?

- The Loudoun County Public School System and the Health Department have a long history of working well together to protect students and staff
  - H1N1 Influenza
  - Tuberculosis
  - Pertussis
  - Outbreaks in athletic teams
  - Preventing foodborne outbreaks
- We have been in regular discussions and planning concerning COVID-19 since January
- Reviewing the most up to date CDC and VDH guidelines
  - Guidelines are evolving and will likely continue to change as we learn more about COVID-19 and the best ways to keep our children and high risk populations safe
  - [www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/guidance-for-schools.html](http://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/guidance-for-schools.html)

# School Guidance - When COVID-19 is Not Yet Identified in Our Community

- Review, update, and implement emergency operations plans (EOPs)
  - Monitor and plan for absenteeism
  - Establish procedures for students and staff who are sick at school
  - Perform routine environmental cleaning
  - Create communications plans for use with the school community

# School Guidance - When COVID-19 Cases Are Identified in Our Community

- If an ill student or staff member attended school prior to being confirmed as a COVID-19 case consider temporary school dismissal, determine when students and staff should return to schools and what additional steps are needed for the school community
- All decisions should be made in consultation with local public health as recommendations will likely change due to such factors as:
  - Prevalence of COVID-19 in the community
  - Ability to prevent spread within schools
  - Potential detrimental effects of dismissal

# Stay Informed

- Sign up to receive regular email and text from Loudoun County:

- Visit **Loudoun.gov/coronavirus**

- Text **LCCOVID19** to **888777**



# Resources

## Loudoun County

- LCPS: [lcps.org/Page/227421](https://www.lcps.org/Page/227421)
- County: [Loudoun.gov/coronavirus](https://www.loudoun.gov/coronavirus)
- Email: [health@Loudoun.gov](mailto:health@Loudoun.gov)
- Hotline: 703-737-8300

## Virginia Department of Health (VDH)

- [www.vdh.virginia.gov/coronavirus](https://www.vdh.virginia.gov/coronavirus)

## Centers for Disease Control and Prevention (CDC)

- [www.cdc.gov/coronavirus/2019-nCoV](https://www.cdc.gov/coronavirus/2019-nCoV)