COVID-19 by the numbers

Location	Current Cases	Total Cases	Deaths
Global	-	4,347,935	297,241*
United States	-	1,412,121	85,990†
New Jersey	-	140,743	9,508‡
Morris County	-	5,908	523‡
Montville	10	214	§

* As reported by WHO on https://covid19.who.int/
† As reported by CDC on https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html
‡ As reported by NJDOH on https://www.nj.gov/health/cd/topics/covid2019_dashboard.shtml
§ Per NJ Office of Vital Statistics and Registry, local health departments remain prohibited from disclosing the number of deaths in a municipality due to a specific cause

COVID-19 basics

- COVID-19: (Coronavirus Disease 2019) vs other coronavirus pandemics:
    - COVID-19 – 2019: 98k cases, 3300 deaths, CFR = 3.42%
    - MERS – 2012: 2500 cases, 858 deaths, CFR = 34%
    - SARS – 2003: 8k cases, 774 deaths, CFR = 9.5%
- Incubation period: 2 to 14 days
- Main Symptoms:
    - Respiratory: fever (100.4 or above), cough, shortness of breath
- Other symptoms:
    - Chills, shaking with chills, muscle pain, headache, sore throat, loss of taste/smell
- Thought to spread through:
    - Coughs/sneezes
    - Touching surfaces with live virus on it, then touching eyes, nose, mouth
    - Close contact with ill persons
- Treatment:
    - No specific treatment – several being investigated
    - Treat the symptoms at home with OTC medications, rest, fluids
    - Severe symptoms may require treatment in hospitals

Preventing the spread of COVID-19

- Identifying and isolating lab-confirmed positive cases
- Identifying and quarantining household and close contacts of lab-confirmed positive cases
- Non-pharmaceutical interventions (NPIs) to limit/prevent spread of disease
    - Personal NPIs
        - Handwashing
        - Minimizing hand contact with eyes, nose, mouth
        - Respiratory etiquette
        - Self-isolation at home if sick
        - Avoid others who are sick
        - Masks recommended for ill persons and those who are directly caring for an ill person
        - Masks recommended for use in public
    - Community NPIs

- - Social distancing
    - Closures of facilities where people gather, cancellation of public events
  - Environmental NPIs
    - Cleaning that helps eliminate viruses from frequently-touched surfaces
      - Use products that kill viruses
      - Use products per label instructions
      - Ensure staff understand safe handling/application
      - Clean with these products at recommend frequency

COVID-19 response

- CDC response (per https://www.cdc.gov/budget/documents/covid-19/CDC-247-Response-to-COVID-19-fact-sheet.pdf)
  - Established COVID-19 Incident Management System on January 7, 2020.
  - Activated its Emergency Operations Center on January 21, 2020.
  - More than 2,600 staff are supporting the response.
  - Deployed multi-disciplinary teams to support state health departments in case identification, contact tracing, clinical management, and public communications.
  - Issued travel guidance, clinical guidance, guidance for long-term care facilities and other settings, and guidance on the use of PPE during a shortage.
  - Responded to more than 300 daily inquiries from various public health partners.
  - Developed a COVID-19 diagnostic test and equipped state and local public health labs with testing capacity.
  - Direct funds to public health organizations to assist them in meeting surges.
  - Direct funds to public health organizations for surveillance, epidemiology, lab capacity, infection control, mitigation, communications, and other preparedness and response activities.
- State Government response
  - Declared a State of Emergency on March 9, 2020.
  - Subsequently issued multiple Executive Orders and Administrative Orders closing the majority of non-essential businesses and facilities, restricting operations of essential businesses, and restricting social movement in public. Executive Orders are enforced by police departments.
- NJDOH response
  - NJDOH COVID-19 Dashboard.
  - Providing technical assistance and guidance to local HDs, schools, healthcare facilities, long-term care facilities and others.
  - Clinical guidance to healthcare facilities and healthcare providers.
  - Providing guidance to state officials to help guide state-wide orders to protect public health.
- Morris County Office of Health Management response
  - Coordinating information and supplies between NJDOH and local HDs.
  - Providing support and guidance to local HDs.
  - Coordinating with County OEM on protection of first responders throughout County.
  - Set up/run test site at Morris County Community College in Randolph.
- Montville HD response
  - CDRSS cases
    - Case investigation, including health history and detailed movements for 3 days prior to onset of symptoms.
    - Contact tracing of close contacts and household contacts.
    - Instructions given for isolation of case and quarantine of close/household contacts.
    - Frequent health monitoring throughout entire isolation/quarantine periods.

- Isolation – separating sick people from those who are well.
- Quarantine – separating and restricting the movement of those who were exposed but have not yet become sick.
- Dispensing information on cases, news, and guidance to businesses and residents via:
  - Township website – Health Department COVID page.
  - Nixle system.
  - Newspapers and online local news outlets.
  - Electronic display boards at Township Building and Police HQ.
  - Posting of notices in Township buildings.
  - Mailings.
- Provided guidance to other Township agencies and departments.
- Developed/distributed information fliers to businesses and Township facilities throughout the Township with information on COVID-19, social distancing, and adherence to Executive Orders.
- Developed/distributed orders of closure to Township facilities that were closed by Township orders.
- Developed protocols health monitoring and infection control for employees in Township buildings, for employees working in the field, for the return of employees to Township buildings after being on reserve, for employees working in the animal shelter, and for intake of animals at the shelter.
- Authority
  - If state declares a public health emergency, NJDOH has overall authority over public health response. They provide guidance and directives that local health departments must follow.
  - If state does not declare a public health emergency, NJDOH or local Boards of Health has overall authority
  - If Governor declares a state of emergency, state government has overall authority
  - Local Boards of Health can declare and define what is a nuisance in all public or private places within its jurisdiction
  - Local Boards of Health can prohibit or remove any nuisance and all causes of disease that are injurious to the health of the inhabitants therein
  - Local Boards of Education has the authority to close a public school, likewise, the body that governs a private school has the authority to close it
  - Health Officers direct the Health Department response to the emergency in accordance with already-established plans and protocols, and any additional directives from the Governor and NJDOH.

Montville cases:
- Long-term care facilities
  - The Chelsea: 24 cases, 8 deaths (as reported by NJDOH).
  - Fox Trail: staff and residents: 9 cases, 5 deaths (as reported by NJDOH). Facility transferred the 4 remaining patients (all negative without symptoms) to their Mahwah location and closed the Montville facility until further notice.
- Congregate living facility
  - St. Alberts: no cases
- Analysis of positive cases (data as of 05/15/2020). Please note this is preliminary raw data gathered during an ongoing outbreak, and thus may be subject to revision at a later date.
  - 214 cases.
  - Average age of cases: 53.
  - 41% of cases are above age 60.

- 40% of cases have underlying chronic health conditions.
- 7% of cases were admitted into a hospital.
- Household contacts: 434 total. Average number of household contacts per case: 2.08.
- Close contacts: 280 total. Average number of close contacts per case: 1.38.
- Source patients – none identified definitively. We did not identify any cases in which household/close contacts or cases appeared as household/close contacts for other cases. For dwelling units with multiple cases it is strongly suspected (but not proven) that the source patient was a household contact.
- Dwelling units with more than one case (not counting LTC facilities): 27.
- For dwelling units with multiple cases: average is 2 cases per dwelling unit
- Cases by zip code - there are no "hot spots" or "clusters". Total municipal population = 21,240.
  - 07045 (Montville) - population 10,127 for this zip code
    - 47% of Montville municipality population of 21,240
    - 45% of cases
  - 07082 (Towaco) - population 5,384 for this zip code
    - 25% of Montville municipality population of 21,240
    - 30% of cases
  - 07058 (Pine Brook) - population 5729 for this zip code
    - 26% of Montville municipality population of 21,240
    - 25% of cases