Data, maps and graphics shown in the Florida COVID-19 Data and Surveillance Dashboard are maintained and published by the Bureau of Epidemiology in the Division of Disease Control and Health Protection at the Florida Department of Health.

To learn more about Florida's COVID-19 resources, visit https://floridahealthcovid19.gov/.

To reach the Florida Department of Health COVID-19 hotline, operated as a toll-free help line that you can reach 24 hours a day, 7 days a week at, call:
1 (866) 779-6121

Contact information:
For general inquiries and questions related to COVID-19, please email COVID-19@FLHealth.gov or call the DOH hotline at: 1 (866) 779-6121

All press inquiries should be directed to the ESF-14 Communication team, at ESF14@em.myflorida.com.

For issues or problems with the map or dashboard, please email

COVID-19@FLHealth.gov

with information about the error or problem.

Important COVID-19 Information Resources:

- Florida Department of Health COVID-19 Website
- Florida Department of Health GIS Open Data Hub
- U.S. Centers for Disease Control and Prevention (CDC)
- World Health Organization (WHO)

Information about the Data and Surveillance Dashboard:

Update Schedule:
Each day's update will reflect all changes made in Merlin[1] to cases that were confirmed as of 7:25 am that day. We update the data once a day, at approximately 11:00 A.M. Eastern Daylight Savings Time (UTC-4). The charts and graphics are restricted not to show the current day's case numbers, as they are incomplete and will be uploaded the following day.

Additional COVID-19 Data Resources:
A detailed report summarizing all data and data resources, as well as all case data, is updated each day by the Bureau of Epidemiology (DOH) and can be found on the COVID-19 DOH website here. All data shown in the report is the same as what is shown in the dashboard.

A list of geospatial resources specific to COVID-19 is provided below:

- Florida Department of Health GIS Open Data Hub
- The Florida Geographic Information Office: https://www.floridagio.gov/
- Florida Department of Emergency Management: https://www.floridadisaster.org/
- ESRI's COVID-19 GIS Hub:
    - English: https://coronavirus-disasterresponse.hub.arcgis.com/
    - Spanish: https://covid19esrispain-sitesesrispain.hub.arcgis.com/
- National Institute of Health Data Resources: https://datascience.nih.gov/covid-19-open-access-resources

Data Definitions:
Key information about variables included in our data.

Persons Under Investigation/Surveillance (PUI): Essentially, PUIs are any person who has been or is waiting to be tested. This includes persons who are considered high-risk for COVID-19 due to recent travel, contact with a known case, exhibiting symptoms of COVID-19 as determined by a healthcare professional, or some combination thereof. PUI's also include people who meet laboratory testing criteria based on symptoms and exposure, as well as confirmed cases with positive test results. PUIs include any person who is or was being tested, including those with negative and pending results.

All PUIs fit into one of three residency types:

1. Florida residents tested in Florida
2. Non-Florida residents tested in Florida
3. Florida residents tested outside of Florida

Florida Residents Tested Elsewhere: The total number of Florida residents with positive COVID-19 test results who were tested outside of Florida and were not exposed/infectious in Florida.

Non-Florida Residents Tested in Florida: The total number of people with positive COVID-19 test results who were tested, exposed, and/or infectious while in Florida, but are legal residents of another state.

Total Cases: The total (sum) number of Persons Under Investigation (PUI) who tested positive for COVID-19 while in Florida, as well as Florida residents who tested positive or were exposed/contagious while outside of Florida, and out-of-state residents who were exposed, contagious, and/or tested in Florida.

Deaths: The Deaths by Day chart shows the total number of Florida residents with confirmed COVID-19 that died on each calendar day (12:00 AM - 11:59 PM). Caution should be used in interpreting recent trends, as deaths are added as they are reported to the Department of Health. Death data often has significant delays in reporting, and it is possible data within the past two weeks will be updated frequently.

More information – Common Questions

Q: What does the "hospitalizations" data represent?
"Hospitalizations" is a count of all laboratory confirmed cases in which an inpatient hospitalization occurred at any time during illness. These people may no longer be hospitalized. This number does not represent the number of COVID-19 positive persons *currently* hospitalized.

Q: Where is the information about recovery?
We do not currently display any recovery measurements.

Q: What does "Case Date" represent?
"Case date" is the date the positive laboratory result was received in the Department of Health's database system and became a "confirmed case." This is not the date a person contracted the virus, became symptomatic, or was treated. Florida does not create a case or count suspected/probable cases in the case counts without a confirmed-positive lab result.
Data users: Please not that case date is stored in the data as "Case_". There are additional fields with dates specially formatted to work with our interactive charts that aren't case fields.

Q: Where is the deaths by date data, and why does some of the data change?
The Deaths by Day chart shows the total number of Florida residents with a confirmed-positive COVID-19 test result that died on each calendar day (12:00 AM - 11:59 PM). Caution should be used in interpreting recent trends, as deaths are added as they are reported to the Department. Once a verified date of death is received, the date may be changed if the reported date and verified death date are different. Florida does not count suspected/probable COVID-19 deaths without a confirmed-positive lab result.

Q. How is the zip code assigned to a person or case?
Cases are counted in a zip code based on residential or mailing address, or by healthcare provider or lab address if other addresses are missing.

Q. Why is the city data and the zip code data different?

The zip code data is supplied to a healthcare worker, case manager, or lab technician by each patient during intake when a test is first recorded. When entering a zip code, the system we use automatically produces a list of cities within that zip code for the individual to further specify where they live. Sometimes the individual uses the postal city, which may be Miami, when that person lives outside the City of Miami boundaries in the jurisdiction of Coral Gables. Many zip codes contain multiple city/town jurisdictions, and about 20% of zip codes overlap more than one county.

Q: How is the Zip Code data calculated and/or shown?

If a COUNTY has five or more cases (total):

- In zip codes with fewer than 5 cases, the total number of cases is shown as "<5".
- Zip codes with 0 cases in these counties are "0" or "No cases."
- All values of 5 or greater are shown by the actual number of cases in that zip code.

If a COUNTY has fewer than five total cases across all of its zip codes, then ALL of the zip codes within that county show the total number of cases as "Suppressed."

Q: My zip code says "Suppressed" under cases. What does that mean?

If "Suppressed" is shown for a ZIP code, then the county it falls in currently has fewer than five cases across all zip code. To protect the privacy of our COVID-19-Positive residents, zip code data is only available in counties where five or more cases have been reported.

Q: What about PO Box zip codes, or zip codes with letters, like 334MH?

PO Box zip codes are not shown in the map because they do not have a physical boundary. "Filler" zip codes with letters, like 334MH, are typically areas where no or very few people live, like the Florida Everglades, and are shown on the map like any other zip code. These ZIP codes are shown as "No Data" on the map.

Q: How is the race and ethnicity data collected and calculated?

Race and ethnicity data may be included with the initial case report, on the lab result, or provided by the patient later. Cases listed as "Unknown" could signify that a person does not know his or her race and/or ethnicity, they refused to answer the question, or no data was provided.

For data users and sharing:

CLICK HERE TO READ THE DISCLAIMER.

Accessing county and case-line level data (including historical data):

The Florida Department of Health publishes several feature services that are available for public use. These layers are the only official and authoritative data counts published by the Department of Health through ArcGIS Online. If you cannot download or export the raw data provided below, we may be in the process of updating the data. The easiest way to export our data to csv or other format is through our Open Data Hub.

English-language versions:

A. The **case-line data** for Florida can be accessed as a hosted table here: https://services1.arcgis.com/CY1LXxl9zlJeBuRZ/arcgis/rest/services/Florida_COVID19_Case_Line_Data_NEW/FeatureServer
   a. About page: https://fdoh.maps.arcgis.com/home/item.html?id=37abda537d17458bae6677b8ab75fcb9#overview

B. The **county-level data** and map feature service layer can be accessed here: https://fdoh.maps.arcgis.com/home/item.html?id=a7887f1940b34bf5a02c6f7f27a5cb2c
   a. About page: https://fdoh.maps.arcgis.com/home/item.html?id=a7887f1940b34bf5a02c6f7f27a5cb2c#overview

C. The **zip-code level** map feature service layer can be accessed here: https://services1.arcgis.com/CY1LXxl9zlJeBuRZ/arcgis/rest/services/Florida_Cases_Zips_COVID19/FeatureServer
   a. About page: https://fdoh.maps.arcgis.com/home/item.html?id=09ec2e757f91411b8e12445805cf2809#overview

D. Hosted table of **new cases by county by date**, can be accessed here: https://services1.arcgis.com/CY1LXxl9zlJeBuRZ/arcgis/rest/services/Florida_COVID_19_Cases_by_Day_For_Time_Series/FeatureServer
   a. About page: https://fdoh.maps.arcgis.com/home/item.html?id=452ab45aaa714042b3d61c741f851d5a#overview

E. Hosted table of **Florida Health Metrics**, by week, by county, can be accessed here: https://services1.arcgis.com/CY1LXxl9zlJeBuRZ/arcgis/rest/services/Florida_Health_Metrics/FeatureServer
   a. About page: https://fdoh.maps.arcgis.com/home/item.html?id=492f02b473df4c8f8aa68fedf420c933 &view=table#overview

Spanish-language versions (spatial feature service layers only):

    A. The **county-level data** and map feature service layer can be accessed here:
        a. https://services1.arcgis.com/CY1LXxl9zlJeBuRZ/arcgis/rest/services/Casos_por_condado/FeatureServer
        b. About page: https://fdoh.maps.arcgis.com/home/item.html?id=6b62115d061a47999f3b95ef71548f b6#overview

    B. The **zip-code level** map feature service layer can be accessed here:
        a. https://services1.arcgis.com/CY1LXxl9zlJeBuRZ/arcgis/rest/services/Casos_por_c%C3%B 3digo_postal/FeatureServer
        b. About page: https://fdoh.maps.arcgis.com/home/item.html?id=e3853ab986f34c9db6e7080107ab4b dd#overview

We ask that you use the short links to our applications/gateways built in Experience Builder, as we've configured the applications to auto-detect the type of device used to access the data, and instantaneously re-route the user to the appropriate dashboard layout based on the user's aspect ratio/device.

Gateway short links:

English version of the dashboard is: https://arcg.is/0Hfi5O

Spanish version of the dashboard is: https://arcg.is/TLSD4

Additionally, you can create a scaled version of our application to embed into your own native environment by clicking the "<>" embed code at the bottom of the dashboard (in experience builder – desktop only).

Please credit the "Florida Department of Health" with any representation of the map or dashboard.

<div align="center">

Advisements on using the data:

</div>

The key elements of this data most relevant to outside or third-party mapping or public products are listed below with brief and general descriptions. We recommend using these fields for the outlined intended purposes as this data is checked for accuracy at each update. Additional fields are used for quality control. All data, schema and aggregation methods are subject to change as this is an ever-evolving situation.

Prefix guide:
"PUI"= PUI: Persons under surveillance (any person for which we have data about)
"T_ " = Testing: Testing information for all PUIs and cases.
"C_" = Cases only: Information about cases, which are those persons who have COVID-19 positive test results on file

Key Data about Testing:

T_negative	Testing: Total negative persons tested for all Florida and non-Florida residents, including Florida residents tested outside of the state, and those tested at private facilities.
T_positive	Testing: Total positive persons tested for all Florida and non-Florida resident types, including Florida residents tested outside of the state, and those tested at private facilities.
PUILab_Yes	All persons tested with lab results on file, including negative, positive and inconclusive. This total does NOT include those who are waiting to be tested or have submitted tests to labs for which results are still pending.

Key Data about Confirmed COVID-19 Positive Cases:

CasesAll	Cases only: The sum total of all positive cases, including Florida residents in Florida, Florida residents outside Florida, and non-Florida residents in Florida
FLResDeaths	Deaths of Florida Residents
C_Hosp_Yes	Cases (confirmed positive) with a hospital admission noted
C_AgeRange	Cases Only: Age range for all cases, regardless of residency type
C_AgeMedian	Cases Only: Median range for all cases, regardless of residency type
C_AllResTypes	Cases Only: Sum of COVID-19 positive Florida Residents; includes in and out of state Florida residents, but does not include out-of-state residents who were treated/tested/isolated in Florida

Key Data about Cases by Zip Code:

ZIP	= The zip code
COUNTYNAME	= The county for the zip code (multi-part counties have been split)
ZIPX	= The unique county-zip identifier used to pair the data during updates
POName	= The postal address name assigned to the zip code
place_labels	= A list of the municipalities intersecting the zip code boundary
c_places	= The list of cities cases self-reported as being residents of
Cases_1	= The number of cases in each zip code, with conditions*
LabelY	= A calculated field for map display only.

*If a COUNTY has <u>fewer than five total cases across all of its zip codes</u>, then ALL of the zip codes within that county show the total number of cases as "Suppressed."

IF Suppressed: This county currently has fewer than five cases across all zip codes in the county. In order to protect the privacy of our COVID-19-Positive residents, zip code data is only available in counties where five or more cases have been reported.

If a COUNTY has five or more cases (total), all zip codes with fewer than 5 cases are "masked" to help protect the privacy of those individuals.

- If there are fewer than 5 cases, the total number of cases is shown as "<5".
- If there are 5-9 cases in that zip code, the total number of cases is shown as "5-9"
- Zip codes with 0 cases in these counties are "0" or "No cases."
- All values of 10 or greater are shown by the actual number of cases in that zip code.

Key Data about Florida Health Metrics

Florida monitors COVID-19 case data in multiple ways, including emergency room visits, case counts, and laboratory test data.

Monitoring data in the Florida Health Metrics layer is summarized by county and by week, and is based on syndromic data from emergency departments, new case reports, and testing. All testing and case data shown in the Florida Health Metrics layer are restricted to Florida Residents only. Syndromic data are reported by nearly all emergency room and free-standing emergency department visits across the state. Syndromic data are summarized by county of patient residence as reported when the patient is registered at the emergency department.

Week_StartDate: The date which marks the beginning of the next reporting week. All data in this resource is aggregated by county and by week. Reporting weeks start on Sunday and go to (and include) the following Saturday. For example, Week 18 of 2020 started 12:00 AM Sunday, April 26, and ended at 11:59 PM Saturday, May 2. The date shown in the table for all Week 18 data would be 4/26/20. Data are submitted by local time. For all weeks before March 8, data is either USA Eastern Time (UTC -5) or USA Central Time (UTC-6). Starting March 8, 2020, data is either USA Eastern Daylight Savings Time (UTC -4) or USA Central Daylight Savings Time (UTC-5).

Week_EndDate: The date which marks the end of the previous reporting week.

W_ILI: Emergency department visits with Influenza-like illnesses. Influenza-like illness (ILI) visits are shown by week for emergency departments and free-standing emergency departments. ILI syndrome captures patients with chief complaints of:
1. Fever and cough or
2. Fever and sore throat or
3. Influenza/flu

W_COVIDL: Emergency department visits with COVID-19-like illnesses. COVID-like illness (CLI) are shown by week for emergency departments and free-standing emergency departments. CLI excludes patients with a diagnosis of influenza. CLI captures patients with chief complaints of:
1. Fever and cough or
2. Fever and shortness of breath or
3. Fever and difficulty breathing or
4. COVID-19 discharge diagnosis

Percent positive for laboratory testing (W_PercPos and W_Positivity): The number of newly positive Florida residents divided by the total number of people with test results, excluding persons who previously tested positive. W_PercPos is shown as a fraction, and W_Positivity is shown as a whole number (positive divided by total, times 100). Only PCR testing is included in these figures.

W_NegTests: All persons with negative test results in a week by county, excluding persons who previously tested positive.

W_PosTests: All Florida residents with their first positive test result in a week by county.

W_TTotal: All Florida residents with their first positive test result plus the number of persons with negative test results in a week by county, excluding persons who previously tested positive.

W_Events: The number of cases in Florida residents per week by county based on the day the person's symptoms started or the date the laboratory result was reported to FDOH, if no symptom date is known. Cases include only confirmed cases based on a positive COVID-19 PCR result.

Data Sources for Surveillance, Case and Testing Data:

Syndromic data (emergency department visits for influenza-like illness and COVID-like illness) are provided by the Early Notification of Community-Based Epidemics system (ESSENCE-FL).

Syndromic surveillance refers to methods relying on detection of individual and population health indicators (such as characteristic symptoms of a disease among patients seeking care in emergency departments) that are discernible before confirmed diagnoses are made.

The Florida Department of Health receives data from 284 of the total 286 emergency departments statewide. County data are compiled using the patient location.

Testing and case data are provided by Merlin, Florida's reportable disease data base.

The Florida Health Metrics layer is updated every Sunday at approximately 11:00 AM Eastern Daylight Savings Time (UTC -4).

All DOH-GIS Florida COVID Cases County-level Metadata

County_1	Florida county name
COUNTYNAME	Florida county name
State	State
OBJECTID	Geographic matching code used for quality control
DEPCODE	Geographic matching code (DEP County ID)
COUNTY	Geographic matching code (Florida County ID)
FID	Feature Identification number used for mapping

Surveillance data	
PUIsTotal	PUI: The sum of all Persons Under Investigations (PUIs) in the state's database system as of the time of data publication. Includes Florida Residents, Non- Florida residents in Florida, and some Florida residents who are not currently in Florida
Age_0_4	PUI: Sum of all PUIs in this age group
Age_5_14	PUI: Sum of all PUIs in this age group
Age_15_24	PUI: Sum of all PUIs in this age group
Age_25_34	PUI: Sum of all PUIs in this age group
Age_35_44	PUI: Sum of all PUIs in this age group
Age_45_54	PUI: Sum of all PUIs in this age group
Age_55_64	PUI: Sum of all PUIs in this age group
Age_65_74	PUI: Sum of all PUIs in this age group
Age_75_84	PUI: Sum of all PUIs in this age group
Age_85plus	PUI: Sum of all PUIs in this age group
Age_Unkn	PUI: Sum of all PUIs in this age group where age data was not listed, or an error was returned
PUIAgeAvg	PUI: Average age of all PUIs in a county
PUIAgeRange	PUI: Minimum age and maximum age of all PUIs in a county
PUIAgeMedian	PUI: MEDIAN age of all PUIs in the county
PUIFemale	PUI: Number of female PUIs
PUIMale	PUI: Number of male PUIs
PUISexUnkn	PUI: Number of PUIs where sex was not listed
PUIFLRes	PUI: Number of PUIs who are Florida residents located in Florida
PUINotFLRes	PUI: Number of PUIs who are under surveillance in Florida but are not residents of the state

PUIFLResOut	PUI: Number of PUIs who are Florida residents, but are not in Florida
PUITravelNo	PUI: Total PUIs designated as not being a risk related to recent travel
PUITravelUnkn	PUI: Total PUIs designated where a travel-related designation has not yet been made
PUITravelYes	PUI: Total PUIs designated who recently traveled overseas or to an area with community spread
PUIContNo	PUIs with no known contact with current or previous confirmed cases
EverMon	Total number of cases that were at any point being monitored
MonNow	Total number of currently monitored persons by county
PUIContUnkn	PUIs where contact with current or previous confirmed cases is not known or under investigation
TPositive	PUI: Number of PUIs with test results, including negative, positive and inconclusive, but excluding pending or awaiting testing. This is the total number of people with test results in our system.
TNegative	PUI: Number of PUIs with negative test results (quality control group)
TInconc	PUI: Number of PUIs with inconclusive test results (quality control group)
TPending	PUI: Number of PUIs with test results pending (quality control group)
T_NegRes	Testing: Total number of negative Florida Residents tested
T_NegNotFLRes	Testing: Total number of negative non-Florida residents in Florida tested
T_total_Res	Testing: Total tests administered or pending for all PUIs that are Florida residents, including positive, negative and pending results.
T_negative	Testing: Total negative persons tested for all Florida and non-Florida residents
T_positive	Testing: Total positive persons tested for all Florida and non-Florida residents
T_LabDOH_Res	Testing: Total positive persons who are residents of Florida and had confirmed lab results by a private or commercial lab/hospital/facility
T_LabDOH_NonRes	Testing: Total positive persons who are NOT residents of Florida and had confirmed lab results by CDC or BPHL
T_LabPrivate_Res	Testing: Total positive persons who are residents of Florida and had confirmed lab results by a private or commercial lab/hospital/facility
T_LabPrivate_NonRes	Testing: Total positive persons who are NOT residents of Florida and had confirmed lab results by a private or commercial lab/hospital/facility
	Case data
CasesAll	Cases only: Total (sum) of all confirmed positive COVID-19 people in Florida or who are Florida residents.
C_NotFLRes	Cases only: Total number of positive Non-Florida Residents exposed/tested/isolated in Florida
C_FLResOut	Cases only: Total number of positive Florida Residents exposed/tested/isolated outside of Florida
C_AllResTypes	Cases Only: Sum of all Florida residents in and outside of Florida who tested COVID-19 Positive.
C_Men	Cases only: Sex listed as Male
C_Women	Cases only: Sex listed as Female
C_SexUnkn	Cases only: Sex data is missing or listed as "Unknown"
C_RaceWhite	Cases only: Race is listed as White

C_RaceBlack	Cases only: Race is listed as Black
C_RaceOther	Cases only: Race is listed as Other
C_RaceUnknown	Cases only: Race data is missing or listed as "Unknown"
C_HispanicYES	Cases only: Ethnicity is listed as Hispanic
C_HispanicNO	Cases only: Ethnicity is listed as NOT Hispanic
C_HispUnk	Cases only: Ethnicity data is missing or listed as "Unknown."
C_Age_0_4	Cases only: Sum of all COVID-19 positive persons in this age group
C_Age_5_14	Cases only: Sum of all COVID-19 positive persons in this age group
C_Age_15_24	Cases only: Sum of all COVID-19 positive persons in this age group
C_Age_25_34	Cases only: Sum of all COVID-19 positive persons in this age group
C_Age_35_44	Cases only: Sum of all COVID-19 positive persons in this age group
C_Age_45_54	Cases only: Sum of all COVID-19 positive persons in this age group
C_Age_55_64	Cases only: Sum of all COVID-19 positive persons in this age group
C_Age_65_74	Cases only: Sum of all COVID-19 positive persons in this age group
C_Age_75_84	Cases only: Sum of all COVID-19 positive persons in this age group
C_Age_85plus	Cases only: Sum of all COVID-19 positive persons in this age group
C_Age_Unkn	Cases only: Sum of all COVID-19 positive persons where age data was not listed, or an error was returned
C_AgeRange	Cases Only: Age range for all cases, regardless of residency type
C_AgeMedian	Cases Only: Median age for all cases, regardless of residency type
C_EDYes_Res	Cases Only: Emergency Dept Admissions for Florida Residents Only
C_EDYes_NonRes	Cases Only: Emergency Dept Admissions for Non-Florida Residents
C_HospYes_Res	Cases Only: Inpatient hospitalizations of confirmed-positive Florida residents only.
C_HospYes_NonRes	Cases Only: Inpatient hospitalizations of confirmed-positive non-Florida residents only
C_EDYes_Res	Cases Only: Emergency Dept Admissions for Florida Residents Only
C_EDYes_NonRes	Cases Only: Emergency Dept Admissions for Non-Florida Residents
C_NonResDeaths	Cases Only: Total number of deaths of non-Florida residents in Florida
C_FLResDeaths	Cases Only: Total number of deaths of Florida Residents
Deaths	Cases Only: Total number of deaths of Florida Residents