A joint collaboration between Stark County Public Health Agencies:

Alliance City Health Department   Canton City Public Health

Massillon City Health Department   Stark County Health Department

Stark County, Ohio
July 10, 2020 Epi Report

COVID-19 Snapshot Stark County, Ohio as of 12:00pm July 10, 2020

Level 1	Level 2	Level 3	Level 4

Stark County is currently at a **Level 2 (Orange)** Status as indicated by the Ohio Public Health Advisory System
Please see the last page of this report for a link to more information

Confirmed Cases

Total: 1131

Active/Open Cases: 287

Closed: (includes Deaths) 844

Closed due to Death: 110

Probable Cases

Total: 73

Active/Open Cases: 14

Closed: (includes Deaths) 59

Closed due to Death: 4

Hospitalized
Confirmed & Probable Cases

Yes: (includes ICU) 201

Yes, ICU: 45

Discharged: (includes 42 Deaths) 132

Age Range

Confirmed Cases: 1-108

Deaths in Confirmed Cases: 53-108

All data contained is preliminary and is subject to change as more information is reported to Ohio Department of Health (ODH). Data presented in this document is based on data as of 07.10.2020 12:00pm (for Stark County data) and/or 2:00pm (for Ohio data). Cases from previous days are likely to change as more information is entered.

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Stark County Epi Situational Report - COVID-19
Table 1 as of: 07/10/2020 2:00PM

Next report scheduled: 07/14/2020

Cases Reported to Stark LHDs		
Data as of 07.10.2020 1200		
Positive/Confirmed	1131	
Hospitalized	200	17.68%
ICU Admissions	45	3.98%
Deaths in Confirmed Cases	110	9.73%
Probable Cases	73	
Deaths in Probable Cases	4	

Cases Reported to ODH		
Data as of 07.10.2020 1400		
Positive/Confirmed	59000	
Hospitalized	8701	14.75%
ICU Admissions	2161	3.66%
Deaths in Confirmed Cases	2776	4.71%
Probable Cases	3856	
Deaths in Probable Cases	256	

Descriptive Statistics for Stark County Confirmed Cases

Gender	Confirmed Cases		Deaths
Male	489	43.2%	54
Female	638	56.4%	56
Unknown	4	0.4%	0
Total	1131		110

Ethnicity	Hispanic	Non-Hisp	Unknown
Count	108	831	192
%	10%	73%	17%

Race	White	Black	Asian/Pacific Islander	Other	Unknown
Count	798	103	15	114	101
%	71%	9%	1%	10%	9%

Illness Information for Stark County Confirmed Cases-Cumulative Counts

Hospitalized		
Yes	200	18%
No	927	82%
Unknown	4	0%

Pre-existing Conditions		
Yes	744	66%
No	387	34%

If hospitalized, in ICU?		
Yes	45	23%
No	155	78%

Discharged from Hospital		
ICU	38	
Other	94	
Some cases may be discharged due to death.		

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Signs & Symptoms in Confirmed Stark County Cases
Graph 1
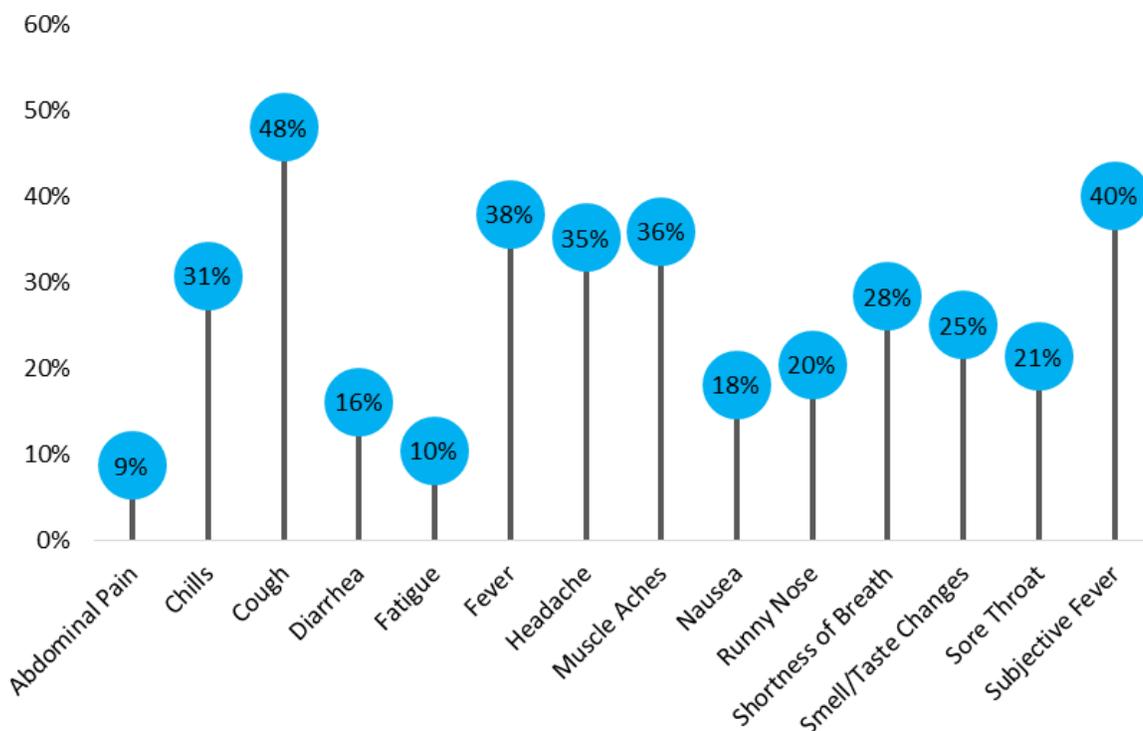
Graph 1 shows the incidence of signs and symptoms reported in confirmed cases of COVID-19 in Stark County. Two symptoms that are similar are subjective fever where in a patient felt feverish and fever in which is defined as a fever of >100.4F (38C). Additional symptoms may be added in the future as prevalence increases.

- Abdominal Pain: 9%
- Chills: 31%
- Cough: 48%
- Diarrhea: 16%
- Fatigue: 10%
- Fever: 38%
- Headache: 35%
- Muscle Aches: 36%
- Nausea: 18%
- Runny Nose: 20%
- Shortness of Breath: 28%
- Smell/Taste Changes: 25%
- Sore Throat: 21%
- Subjective Fever: 40%

Total Number of Confirmed & Probable Cases by Age Group in Stark County
Graph 2
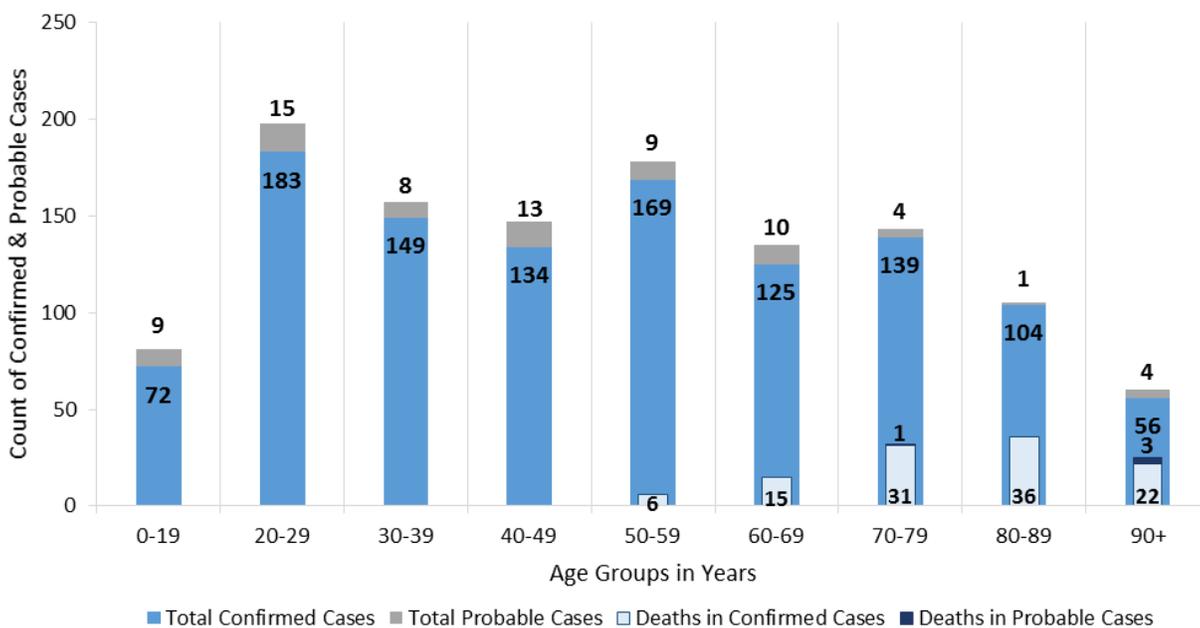
Graph 2 shows the cumulative number of laboratory-confirmed and probable cases and deaths in those cases by age group. Age groups may be broken down further as new cases emerge.

Count of Confirmed & Probable Cases vs *Age Groups in Years*

Age Group	Total Confirmed Cases	Total Probable Cases	Deaths in Confirmed Cases	Deaths in Probable Cases
0-19	72	9		
20-29	183	15		
30-39	149	8		
40-49	134	13		
50-59	169	9	6	
60-69	125	10	15	
70-79	139	4	31	1
80-89	104	1	36	
90+	56	4	22	3

Legend: ▇ Total Confirmed Cases ▨ Total Probable Cases ☐ Deaths in Confirmed Cases ■ Deaths in Probable Cases

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Weekly EpiCurve of Confirmed COVID-19 Cases in Stark County and Ohio by Illness Onset
Graph 3

Legend:
- Ohio
- Stark County

Y-axis: Weekly Count of Cases

X-axis: Week Beginning

| Week Beginning	Ohio	Stark County
02/23/2020	28	2
03/01/2020	122	3
03/08/2020	557	12
03/15/2020	1503	18
03/22/2020	1935	40
03/29/2020	2199	54
04/05/2020	2231	78
04/12/2020	6183	76
04/19/2020	3220	68
04/26/2020	4123	91
05/03/2020	3406	82
05/10/2020	3468	101
05/17/2020	3493	71
05/24/2020	2775	41
05/31/2020	2441	62
06/07/2020	2829	50
06/14/2020	4036	76
06/21/2020	5995	80
06/28/2020	5863	89
07/05/2020	3334	37

Graph 3 shows the EpiCurve which displays the total number of laboratory-confirmed cases per week, based on the illness onset date for Stark County and Ohio. If the illness onset date is not available, the earliest known date is utilized, which could include the date the specimen was collected, the date of the test results or the date reported to the local health department. Counts will change as additional information is collected. Totals may not equal the totals on Table 1 depending on when data was accessed. Stark County's first confirmed case reported an illness onset date of 2/25/2020, while Ohio had cases prior to 2/23/2020, those are not included. **This data only includes data up until 12:00pm on 7/10/2020.**

21 Day EpiCurve of Confirmed COVID-19 Cases in Stark County and Ohio by Illness Onset
Graph 4
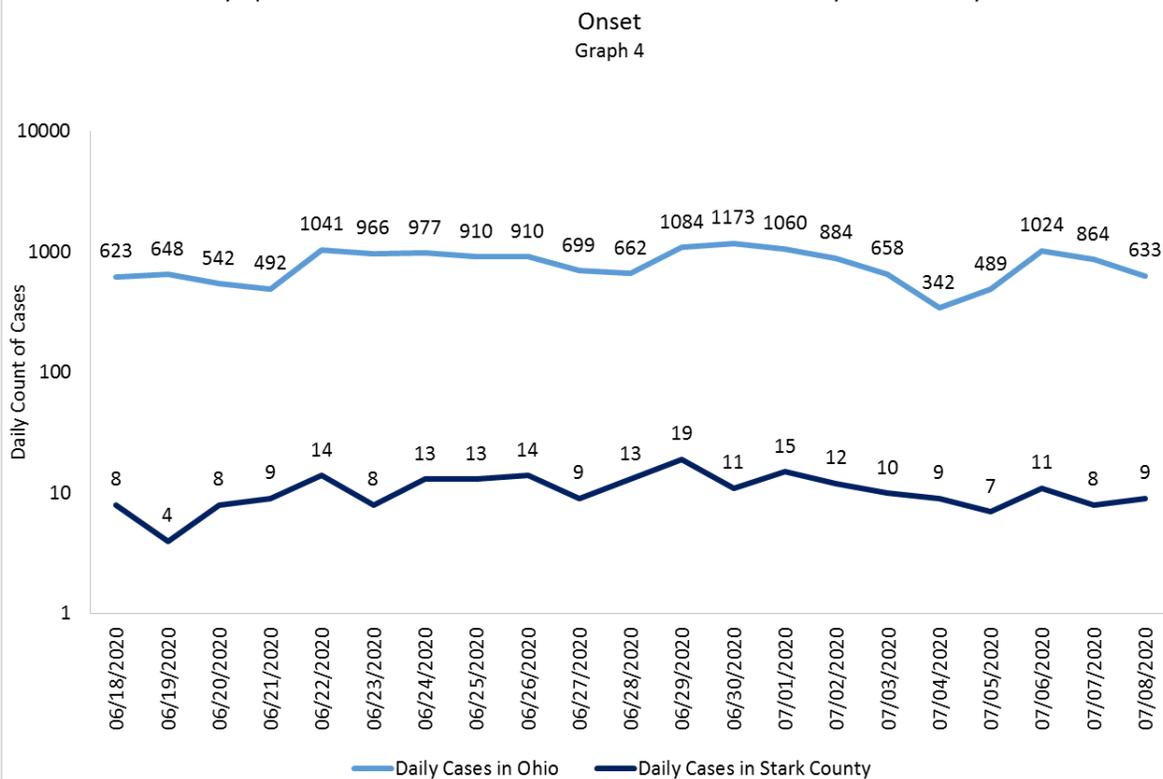
To help highlight short-term daily changes, Graph 4 shows daily counts of laboratory confirmed cases.

Daily Count of Cases (log scale):

Daily Cases in Ohio:
Date	Cases
06/18/2020	623
06/19/2020	648
06/20/2020	542
06/21/2020	492
06/22/2020	1041
06/23/2020	966
06/24/2020	977
06/25/2020	910
06/26/2020	910
06/27/2020	699
06/28/2020	662
06/29/2020	1084
06/30/2020	1173
07/01/2020	1060
07/02/2020	884
07/03/2020	658
07/04/2020	342
07/05/2020	489
07/06/2020	1024
07/07/2020	864
07/08/2020	633

Daily Cases in Stark County:
Date	Cases
06/18/2020	8
06/19/2020	4
06/20/2020	8
06/21/2020	9
06/22/2020	14
06/23/2020	8
06/24/2020	13
06/25/2020	13
06/26/2020	14
06/27/2020	9
06/28/2020	13
06/29/2020	19
06/30/2020	11
07/01/2020	15
07/02/2020	12
07/03/2020	10
07/04/2020	9
07/05/2020	7
07/06/2020	11
07/07/2020	8
07/08/2020	9

Legend: — Daily Cases in Ohio   — Daily Cases in Stark County

Count of Deaths in Confirmed Cases by Week
Graph 5
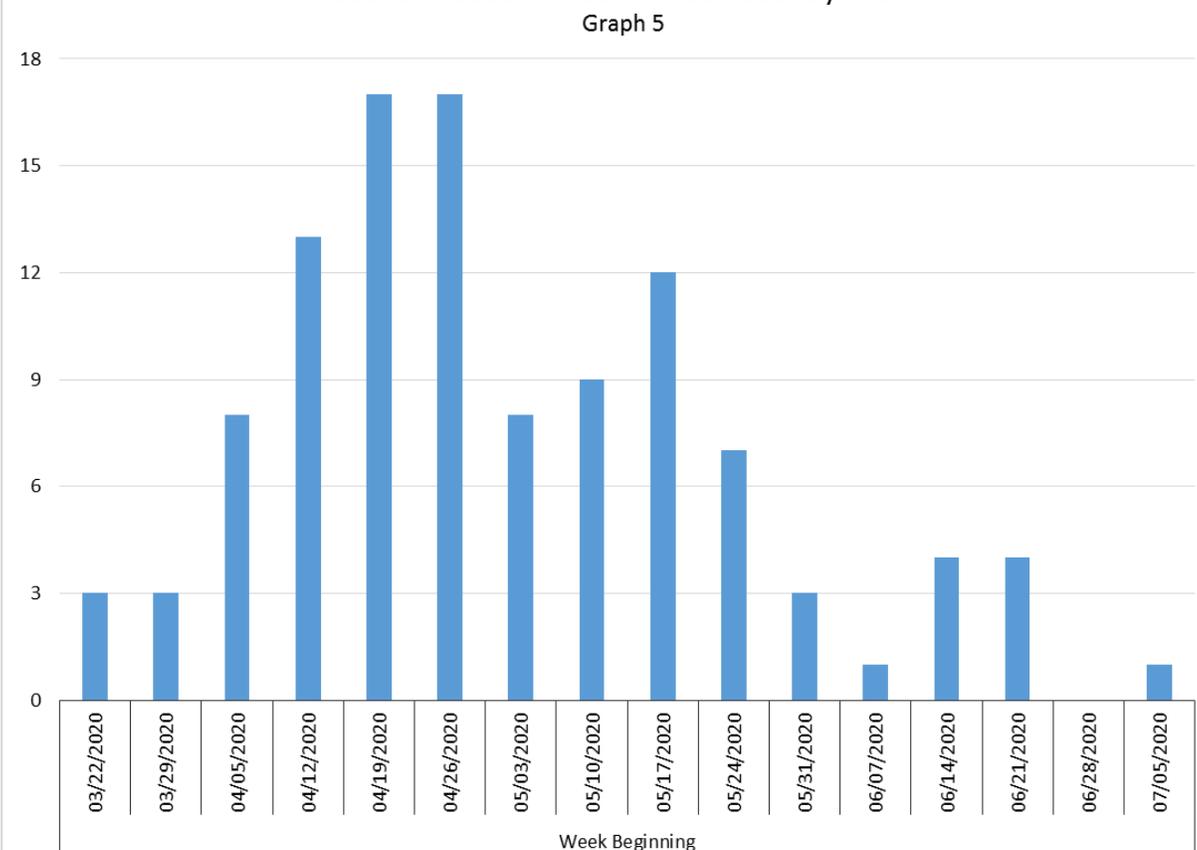
Graph 5 is a breakdown of death counts in laboratory-confirmed cases by week in which the death occurred. Includes deaths documented as of 12:00pm on 07/10/2020.

Week Beginning	Deaths
03/22/2020	3
03/29/2020	3
04/05/2020	8
04/12/2020	13
04/19/2020	17
04/26/2020	17
05/03/2020	8
05/10/2020	9
05/17/2020	12
05/24/2020	7
05/31/2020	3
06/07/2020	1
06/14/2020	4
06/21/2020	4
06/28/2020	0
07/05/2020	1

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Rate of Confirmed and Probable Cases by Health Jurisdiction
Graph 6

Rate per 100,000 in population

	282.2	384.6	555.4	280.1
	Alliance	Canton	Massillon	Stark County

Health Jurisdiction
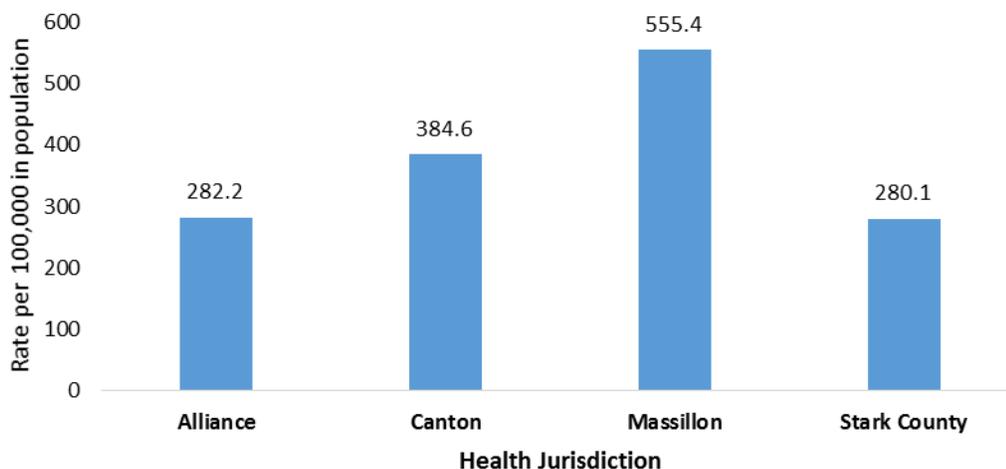
	Probable Cases	Confirmed Cases	Total
Alliance	1	62	63
Canton	26	245	271
Massillon	9	171	180
Stark County	37	653	690

Graph 6 shows the rate of confirmed and probable cases by Stark County jurisdictions. Alliance, Canton and Massillon jurisdictions covers those within those particular city limits. Stark County jurisdiction covers all other areas outside of those three city limits. Rates calculated by 2018 population census data. Rates= (case count/population) *100000

Rates of Confirmed Cases by Population
Graph 7

- Ohio
- Stark County

	Confirmed	Hospitalized	Death
Ohio	504.73	74.43	23.75
Stark County	304.38	53.83	29.60
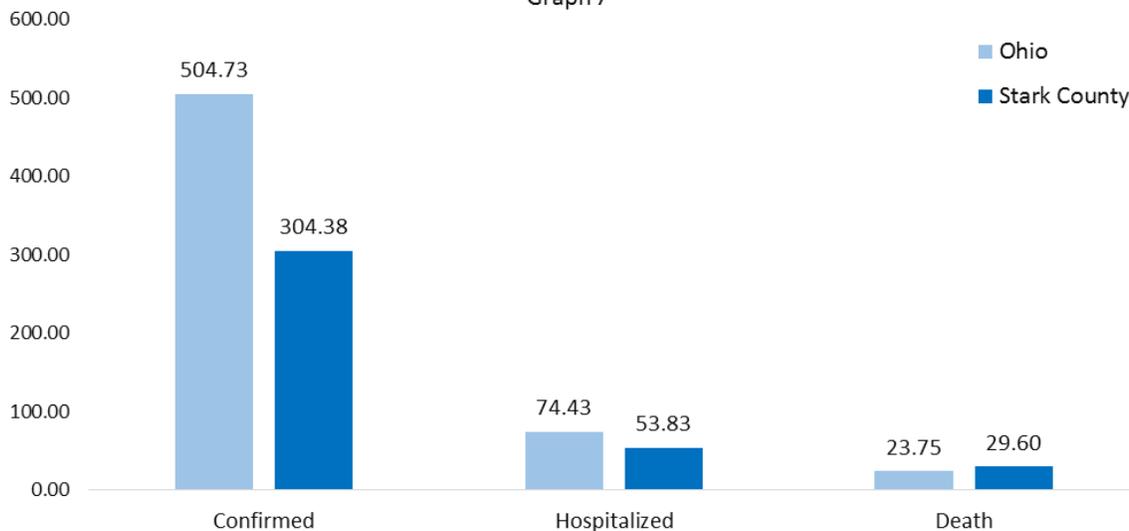
Counts of Cases	Ohio	Stark County
Confirmed	59000	1131
Hospitalized	8701	200
Deaths	2776	110

Rates based on 2018 population from data.census.gov.
Rates=(count/population)*100000

Graph 7 shows the rates dependent on the 2018 population in Ohio and Stark County. This graph works to compare cases in different populations by normalizing the cases per 100,000 persons.

- Ohio's rate of laboratory confirmed cases is 1.7x higher than those in Stark County.
- Ohio's rate of laboratory confirmed cases who require hospitalization is 1.4x higher than Stark County's rate.
- Stark County's rate of death due to COVID-19 complications is 1.2x higher than Ohio's rate.

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Closed Confirmed Cases
Graph 8

Closed/Recovered, 734

Closed due to death, 110
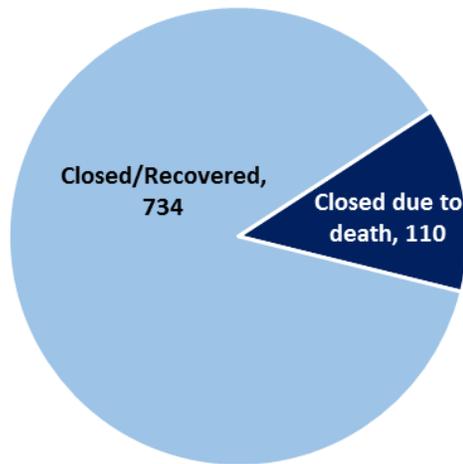
Graph 8 is the counts of confirmed cases closed, either due to closed/recovered or closed due to death. Stark County has a total of 844 cases closed of which 110 (13%) are due to death.

Cases can be closed for the following reasons:
▪ The person passed away.
▪ Symptoms have resolved in that case.
▪ The person is no longer being followed by the local health department.

Percentage Breakdown of Confirmed Cases
Graph 9

Healthcare Worker 18%

Other 57%

Long-Term Care Resident 25%
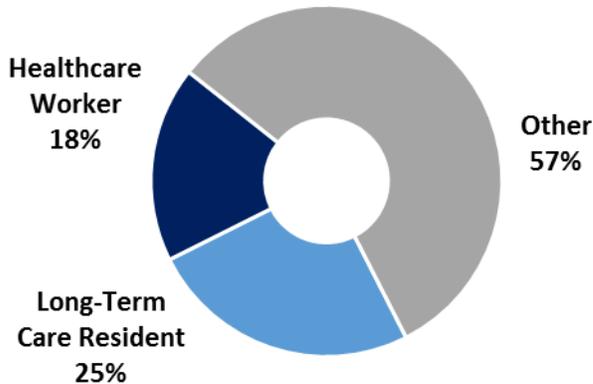
Graph 9* shows a breakdown of categories in confirmed cases. Healthcare workers account for 18% of the confirmed cases while long-term care residents account for 25% of confirmed cases. The remaining 57% do not belong in either of those categories. The percentages are based off of those that were affirmatively indicated to be either a healthcare worker or long-term care resident.

For more information on long-term care facilities including breakdown by facility and by resident/staff, please visit:
https://coronavirus.ohio.gov/wps/portal/gov/covid-19/dashboards/long-term-care-facilities/cases
https://coronavirus.ohio.gov/wps/portal/gov/covid-19/dashboards/long-term-care-facilities/mortality

*Due to priority testing guidelines both long-term care residents and healthcare workers, were initially in High Priority groups for testing. As testing has progressed, other Stark County residents are able to be tested on a more regular basis. Link for more information on priority categories is included on the last page of this document.

Background from www.cdc.gov: Coronavirus disease 2019 (COVID-19) is a respiratory illness that can spread from person to person. The virus that causes COVID-19 is a novel coronavirus that was first identified during an investigation into an outbreak in Wuhan, China.

A confirmed case or death is defined by meeting confirmatory laboratory evidence for COVID-19. A probable case or death is defined by i) meeting clinical criteria AND epidemiologic evidence with no confirmatory laboratory testing performed for COVID-19; or ii) meeting presumptive laboratory evidence AND either clinical criteria OR epidemiologic evidence; or iii) meeting vital records criteria with no confirmatory laboratory testing performed for COVID19.

Counts and rates are based on date of illness onset. If onset date is unknown, the earliest known date is utilized. Any rates based on counts less than 10 are considered unreliable and caution should be exercised when interpreting. Due to testing restrictions, data may be skewed. Report compiled by Canton City Public Health.

Data is sourced from: coronavirus.ohio.gov, ODH data warehouse, and census.gov. "These data were provided by the Ohio Department of Health. The Department specifically disclaims responsibility for any analyses, interpretations or conclusions."

For information regarding test priorities, please visit: https://coronavirus.ohio.gov/static/docs/COVID-19-Testing-Guidance.pdf

For information regarding testing sites, please visit: https://coronavirus.ohio.gov/wps/portal/gov/covid-19/testing-ch-centers/

For information on Restart Stark, including guidance and resources for Stark County, please visit: https://coronavirus-response-stark-county-resources-starkcountyohio.hub.arcgis.com/

For information on the Ohio Public Health Advisory System, please visit: https://coronavirus.ohio.gov/wps/portal/gov/covid-19/public-health-advisory-system/

For information on numbers of tests completed statewide and percent positive, please visit: https://coronavirus.ohio.gov/wps/portal/gov/covid-19/dashboards/key-metrics/testing