



COVID-19 Epidemiology Update

OTTAWA PUBLIC HEALTH. Report compiled on April 20, 2020, 11:00 am

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Purpose

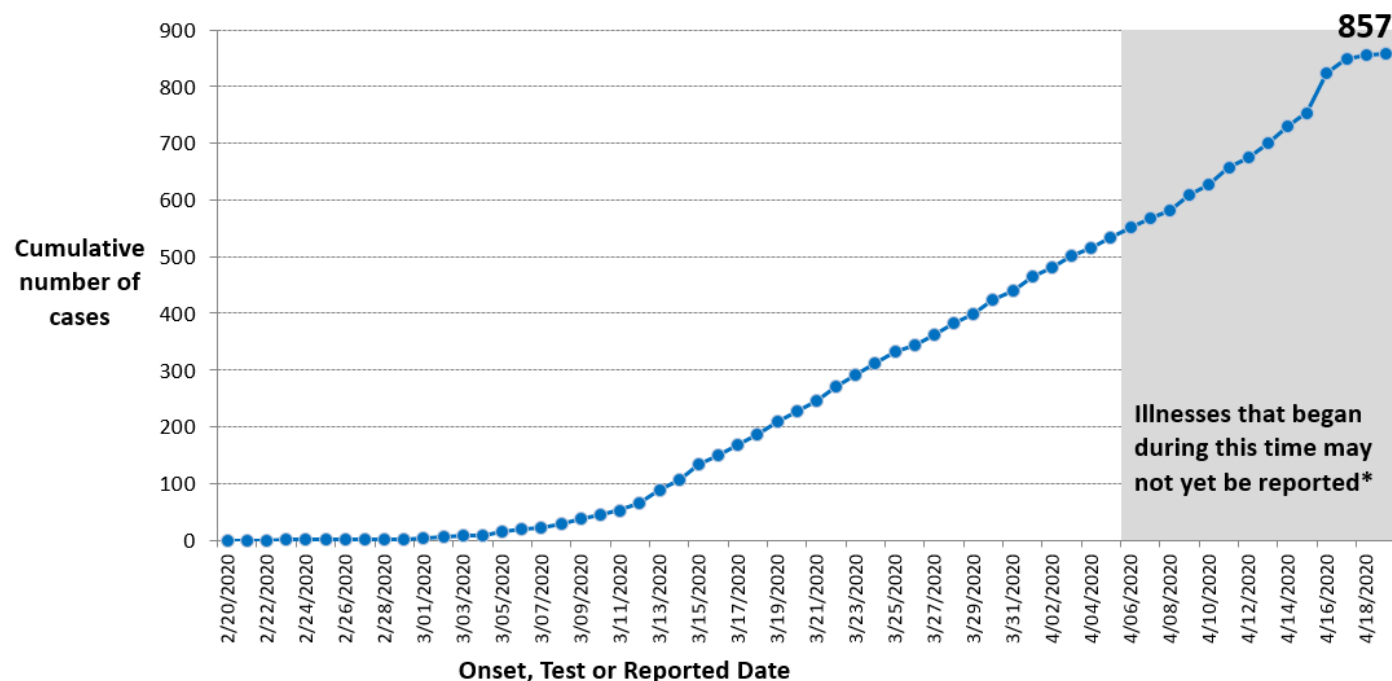
This daily report provides an epidemiologic summary of COVID-19 activity in Ottawa to date. The report includes the most current information available from the integrated Public Health Information System (iPHIS) and a chart review of COVID-19 cases as of 4:00 p.m. April 19, 2020.

Summary

- 857 laboratory-confirmed cases, including 25 deaths, have been reported in Ottawa.
- This includes 54 new cases and 2 new deaths since the previous report.
- 12% of cases have been hospitalized (cumulative), including 4% in intensive care (cumulative).
- The median age of cases is 51 years (range, 4 months to 105 years).
- There are 19 ongoing outbreaks in [institutions](#).
- The most common reported exposure settings for cases include: 48% with close contact with a case only, 20% with no travel and no known contact with a case, 14% with travel only, and 13% with exposure information pending.

Cases Over Time

Figure 1. Cumulative epidemiological curve of Ottawa residents with confirmed COVID-19, by the EARLIEST of onset date, test and reported date

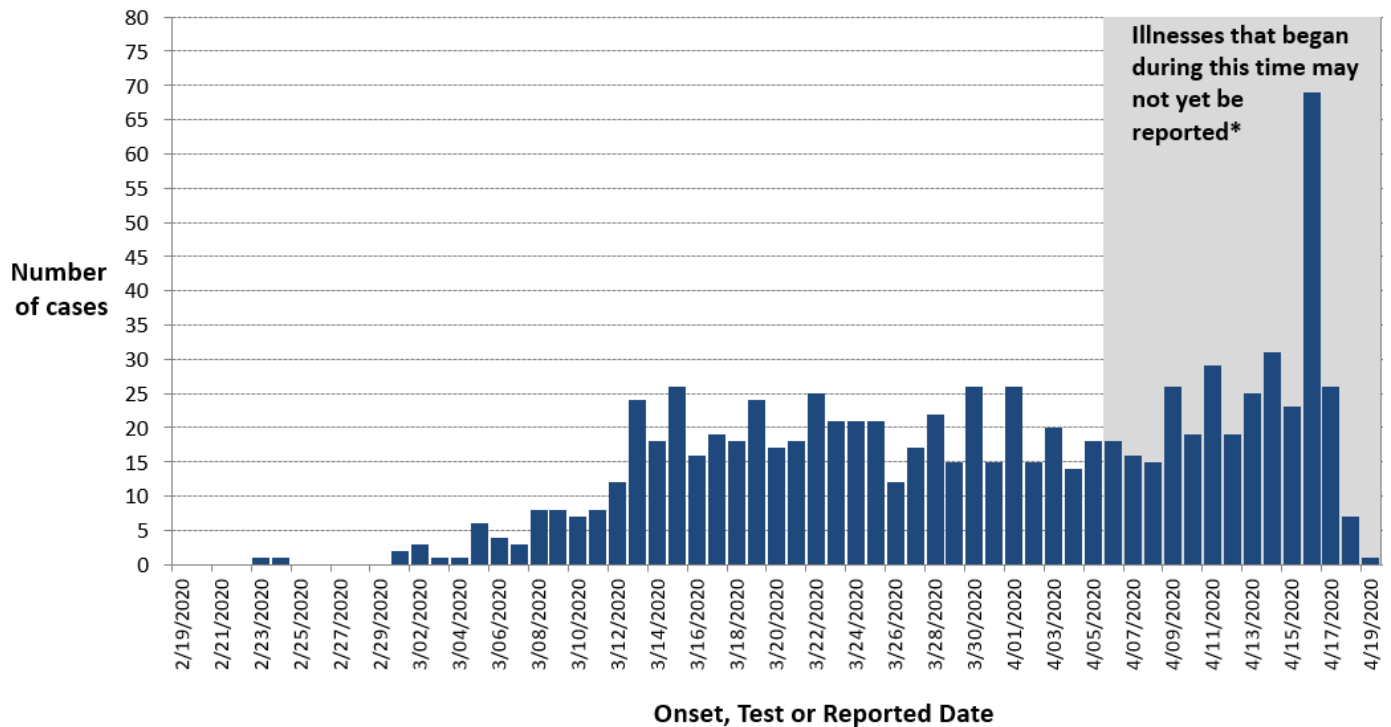


Notes:

1. Data are from iPHIS and a chart review of individuals with COVID-19 -positive laboratory results as of 4:00 p.m. on April 19, 2020.
2. The onset date is the earliest of symptom onset, laboratory testing, and reporting dates. This means that in the graphs, cases are shown based on when the person’s symptoms started, or if that is not known, the date that they were tested. If the test date is not known, the date that the case was reported to public health is used. As the case is investigated and more information is available, the dates in the graph are updated.
3. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.
4. A patient’s exposure may have occurred up to 14 days prior to onset of symptoms.
5. *Symptomatic cases occurring in approximately the last 14 days are likely under-reported due to the time for individuals to seek medical assessment, availability of testing, and receipt of test results.



Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19, by the EARLIEST of onset, test and reported date (n=857)



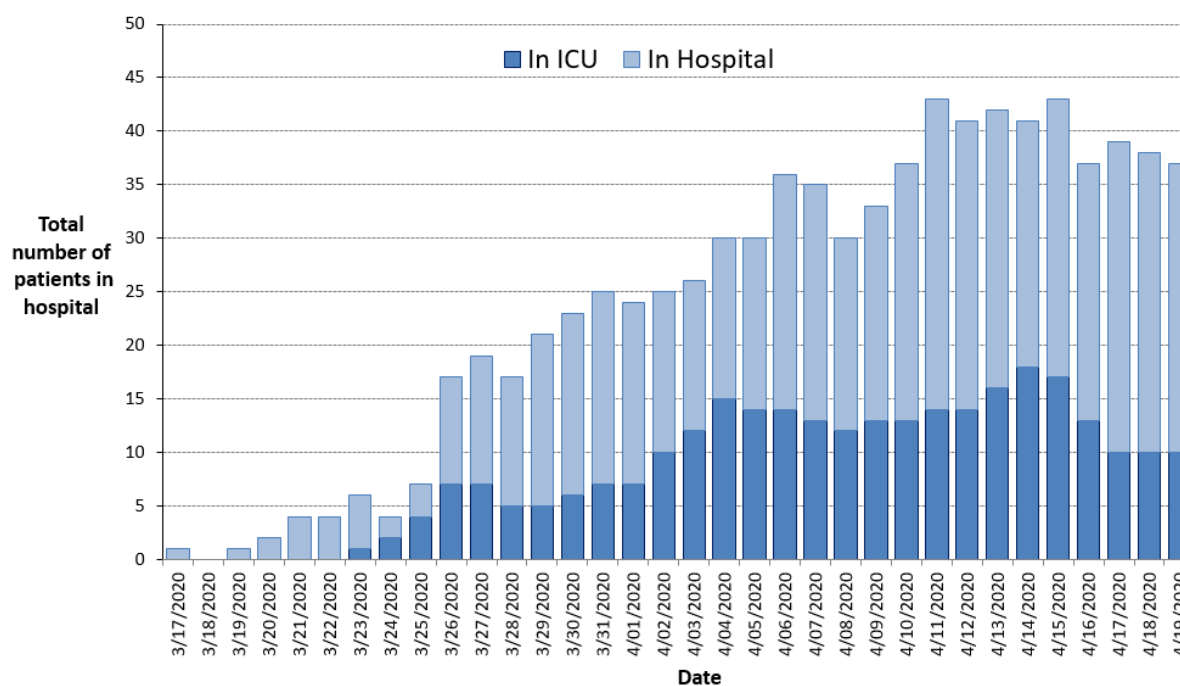
Notes:

2. Data are from iPHIS and a chart review of individuals with COVID-19 -positive laboratory results as of 4:00 p.m. on April 19, 2020.
3. The onset date is the earliest of symptom onset, laboratory testing, and reporting dates. This means that in the graphs, cases are shown based on when the person’s symptoms started, or if that is not known, the date that they were tested. If the test date is not known, the date that the case was reported to public health is used. As the case is investigated and more information is available, the dates in the graph are updated.
6. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.
7. A patient’s exposure may have occurred up to 14 days prior to onset of symptoms.
8. *Symptomatic cases occurring in approximately the last 14 days are likely under-reported due to the time for individuals to seek medical assessment, availability of testing, and receipt of test results.



Severity of Cases

Figure 3. Ottawa residents with confirmed COVID-19 currently in hospital or intensive care, by day



Notes:

1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 pm on April 19, 2020.
2. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.
3. The dark blue bars represent the number of patients currently in the ICU. The light blue bars represent the number of patients currently in hospital (excluding patients in the ICU).

Table 1. Severity of disease for Ottawa residents with confirmed COVID-19

Measure	Number	Percentage
All cases	857	
Cumulative hospitalized	106	12%
Currently in hospital	37	4%
Cumulative intensive care	32	4%
Currently in intensive care	10	1%
Deaths	25	3%
Resolved ⁴	359	42%

Notes:

1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 p.m. on April 19, 2020.
2. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.
3. Intensive care patients are a subset of hospitalized patients.
4. Resolved cases are persons whose symptoms have resolved and who have been discharged from isolation as per the Ministry of Health Public Health Guidance on Testing and Clearing Cases. March 26, 2020. version 2.0.



Case Characteristics

Table 2. Age, gender and occupation (health care worker or first responder) of Ottawa residents with confirmed COVID-19

Measure	Number	Percentage
Case count	857	-
Change from previous report	54	7% increase
Age, median (range)	51 years (4m-105y)	-
Age		
<5 years	7	1%
5 to 19 years	24	3%
20 to 44 years	297	35%
45 to 64 years	284	33%
65 years and older	245	29%
Unknown	0	0%
Gender		
Female	463	54%
Male	394	46%
Unknown	0	0%
Health care workers and first responders	115	13%

Notes:

1. Data are from iPHIS and a chart review of individuals with COVID-19 -positive laboratory results as of 4:00 p.m. on April 19, 2020.
2. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.

Table 3. Age of Ottawa residents with confirmed COVID-19 that have been hospitalized (cumulative) and in intensive care (cumulative) (n=857)

Measure	Cumulative Hospitalized		Cumulative Intensive Care	
	Number	Percentage	Number	Percentage
Case count	106	12%	32	4%
Age, median (range)	65 years (29 to 97)		64 years (37* to 83)	
Age				
<5 years	0	0%	0	0%
5 to 19 years	0	0%	0	0%
20 to 44 years	12*	11%	4*	13%
45 to 64 years	40	38%	12	38%
65 years and older	54	51%	16	50%

Notes:

1. Data are taken from chart review of individuals with CoV-positive laboratory results, consulted at 4:00 p.m. on April 19, 2020.
2. Intensive care patients are a subset of hospitalized patients.
3. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.
4. *Two individuals previously miscategorized as 20-44 year-olds have been corrected as of April 17, 2020.



Exposure Settings

Table 4. Exposures of Ottawa residents with confirmed COVID-19

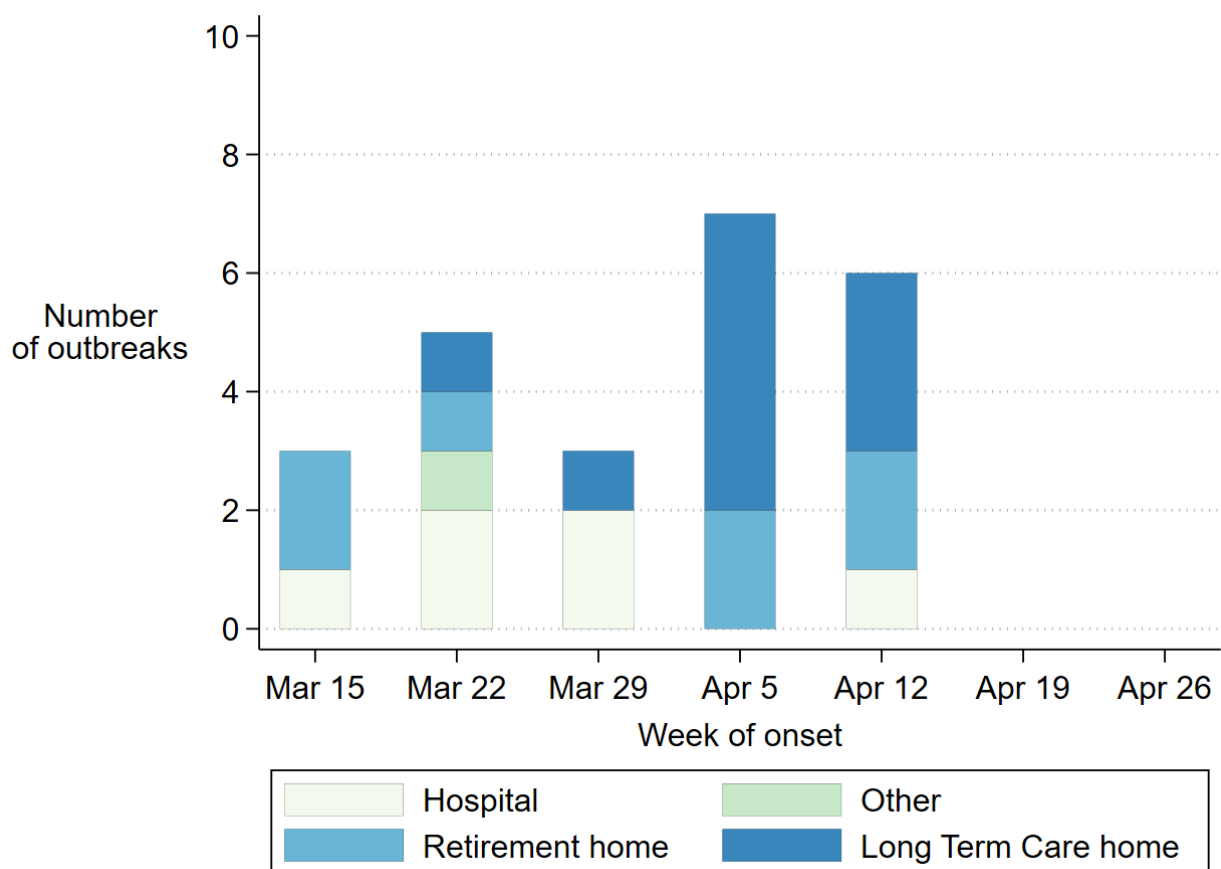
Exposure	Number	Percentage
Travel only	122	14%
Travel and contact with a case	44	5%
Contact with a case only	410	48%
No travel and no known contact with a known case	169	20%
Undetermined/pending	112	13%
TOTAL	857	

Notes:

1. Data as of 4:00 p.m. on April 19, 2020. Investigations are ongoing.
2. Confirmed cases are those with a confirmed COVID-19 laboratory result as per the Ministry of Health Public health management of cases and contacts of COVID-19 in Ontario. March 25, 2020 version 6.0.

Outbreaks

Figure 4. Total number of COVID-19 outbreaks in Ottawa institutions²



1. Data as of 4:00 pm on April 19, 2020. Five outbreaks are closed and 19 are active. Investigation and data entry are ongoing.
2. Institutions include long-term care homes, retirement homes, group homes (other) and public hospitals.



Data Notes & Sources

Data extracted represent a snapshot at the time of extraction and may differ in previous or subsequent reports. These data sources are used:

- 1) Case information
 - a. Ontario Ministry of Health, integrated Public Health Information System (iPHIS), extracted by Ottawa Public Health at 4:00 p.m. each day. iPHIS is a dynamic disease reporting system that allows for ongoing updates to data previously entered. Data extracted from the iPHIS database represent a snapshot at the time of extraction and can be different in previous or subsequent reports.
 - b. OPH Public Health Medical Unit case management chart review

Please use the following citation when referencing this document:

Ottawa Public Health. COVID-19 Epidemiology Update. April 20, 2020. Ottawa (ON): Ottawa Public Health; 2020.

For further information about COVID-19 in Ottawa, visit ottawapublichealth.ca.



Data Tables

Data Table for Figures 1 and 2

Onset, Test or Reported Date	Figure 1. Cumulative epidemiological curve of Ottawa residents with confirmed COVID-19	Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19
	Total Confirmed COVID-19 Cases	Confirmed COVID-19 Cases by Date
2/19/2020	0	0
2/20/2020	0	0
2/21/2020	0	0
2/22/2020	0	0
2/23/2020	1	1
2/24/2020	2	1
2/25/2020	2	0
2/26/2020	2	0
2/27/2020	2	0
2/28/2020	2	0
2/29/2020	2	0
3/01/2020	4	2
3/02/2020	7	3
3/03/2020	8	1
3/04/2020	9	1
3/05/2020	15	6
3/06/2020	19	4
3/07/2020	22	3
3/08/2020	30	8
3/09/2020	38	8
3/10/2020	45	7
3/11/2020	53	8
3/12/2020	65	12
3/13/2020	89	24
3/14/2020	107	18
3/15/2020	133	26
3/16/2020	149	16
3/17/2020	168	19



Onset, Test or Reported Date	Figure 1. Cumulative epidemiological curve of Ottawa residents with confirmed COVID-19	Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19
	Total Confirmed COVID-19 Cases	Confirmed COVID-19 Cases by Date
3/18/2020	186	18
3/19/2020	210	24
3/20/2020	227	17
3/21/2020	245	18
3/22/2020	270	25
3/23/2020	291	21
3/24/2020	312	21
3/25/2020	333	21
3/26/2020	345	12
3/27/2020	362	17
3/28/2020	384	22
3/29/2020	399	15
3/30/2020	425	26
3/31/2020	440	15
4/01/2020	466	26
4/02/2020	481	15
4/03/2020	501	20
4/04/2020	515	14
4/05/2020	533	18
4/06/2020	551	18
4/07/2020	567	16
4/08/2020	582	15
4/09/2020	608	26
4/10/2020	627	19
4/11/2020	656	29
4/12/2020	675	19
4/13/2020	700	25
4/14/2020	731	31
4/15/2020	754	23
4/16/2020	823	69



Onset, Test or Reported Date	Figure 1. Cumulative epidemiological curve of Ottawa residents with confirmed COVID-19 Total Confirmed COVID-19 Cases	Figure 2. Epidemiological curve of Ottawa residents with confirmed COVID-19 Confirmed COVID-19 Cases by Date
4/17/2020	849	26
4/18/2020	856	7
4/19/2020	857	1



Data Table for Figure 3

Date	Number of Ottawa residents with confirmed COVID-19 in hospital	Number of Ottawa residents with confirmed COVID-19 in intensive care
3/17/2020	1	0
3/18/2020	0	0
3/19/2020	1	0
3/20/2020	2	0
3/21/2020	4	0
3/22/2020	4	0
3/23/2020	6	1
3/24/2020	5	2
3/25/2020	7	4
3/26/2020	17	7
3/27/2020	19	7
3/28/2020	18	5
3/29/2020	21	5
3/30/2020	23	6
3/31/2020	25	7
4/01/2020	24	7
4/02/2020	25	10
4/03/2020	26	12
4/04/2020	30	15
4/05/2020	30	14
4/06/2020	36	14
4/07/2020	35	13
4/08/2020	30	12
4/09/2020	33	13
4/10/2020	37	13
4/11/2020	43	14
4/12/2020	41	14
4/13/2020	42	16
4/14/2020	41	18
4/15/2020	43	17
4/16/2020	37	13



Date	Number of Ottawa residents with confirmed COVID-19 in hospital	Number of Ottawa residents with confirmed COVID-19 in intensive care
4/17/2020	39	10
4/18/2020	38	10
4/19/2020	37	10



Data Table for Figure 4

Week of symptom onset	Number of outbreaks in Ottawa retirement homes	Number of outbreaks in long-term care/ nursing homes in Ottawa	Number of outbreaks in Ottawa hospitals	Number of outbreaks in other Ottawa institutions
Mar 01	0	0	0	0
Mar 08	0	0	0	0
Mar 15	2	0	1	0
Mar 22	1	1	2	1
Mar 29	0	1	2	0
Apr 05	2	5	0	0
Apr 12	2	3	1	0
Apr 19				
Apr 26				
May 03				
May 10				
May 17				
May 24				
May 31				
Jun 07				
Jun 14				
Jun 21				
Jun 28				
Jul 05				
Jul 12				
Jul 19				
Jul 26				
Aug 02				
Aug 09				
Aug 16				
Aug 23				

