

Flu Watch

Summer Edition

South Carolina Department of Health and Environmental Control Division of Acute Disease Epidemiology Week Ending October 3, 2015 (MMWR Week 39)

All data are provisional and may change as more reports are received.

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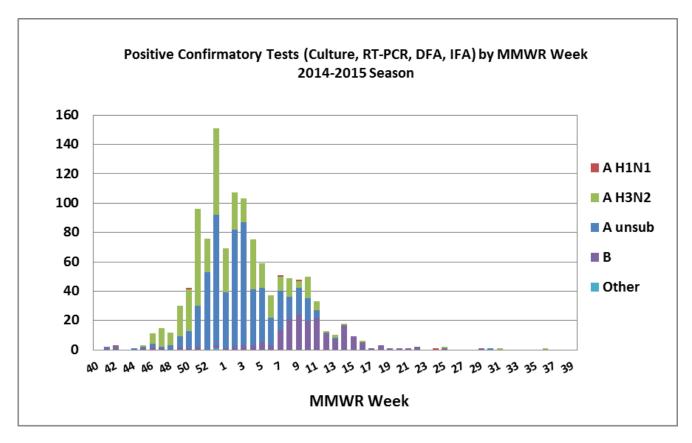
Current influenza activity level: NO ACTIVITY All data are provisional and may change as new reports are received.

Summary of ILI Activity, Positive Confirmatory Tests, and Influenza Associated Hospitalizations and Deaths Compared to Previous Week and Season

	Current week	Previous week	Change from previous week	Cumulative (2014-15)	Cumulative (2013-14)	Cumulative change 2014-15 compared to 2013-14
Number of positive cultures, RT-PCRs, DFAs, and IFAs	0	0		1,196	768	▲ 55.7%
Number of positive rapid tests	41	66	37.9%	73,811	64,190	1 5.0%
Percent of ILI visits reported by ILINet providers	0.29%	1.35%	1 .06%			
Number of lab confirmed flu hospitalizations	3	1	A	3,380	1,953	A 73.1%
Number of lab confirmed flu deaths	0	0		157	78	1 01%

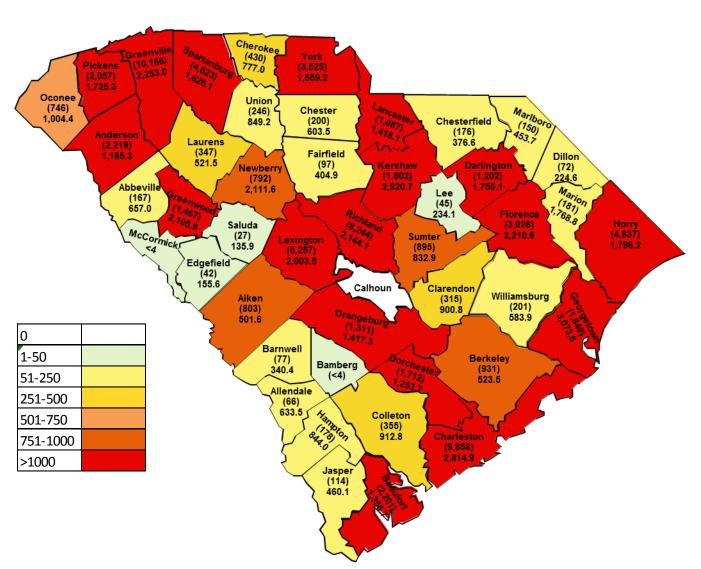
I. Confirmatory testing

Positive confirmatory influenza test results* Cumulative (09/28/14 – 10/3/15)				
	BOL and reference labs			
Number of positive confirmatory tests	1,196			
Influenza A unsubtyped	576 (48.2%)			
Influenza A H1N1	5 (0.42%)			
Influenza A H3N2	421 (35.2%)			
Influenza B	192 (16.1%)			
Unk/Other	2 (0.17%)			
Includes culture, RT-PCR, DFA, and IFA				

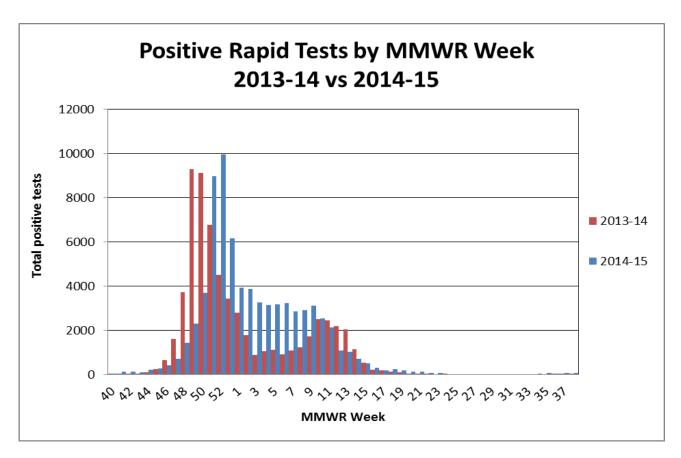


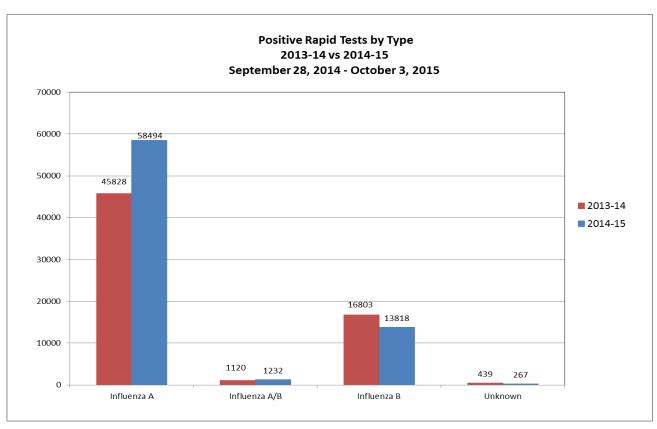
^{*}Includes culture, PCR, DFA, IFA

Map of all Laboratory Confirmed Cases* by County Cumulative 09/28/14 – 10/3/15



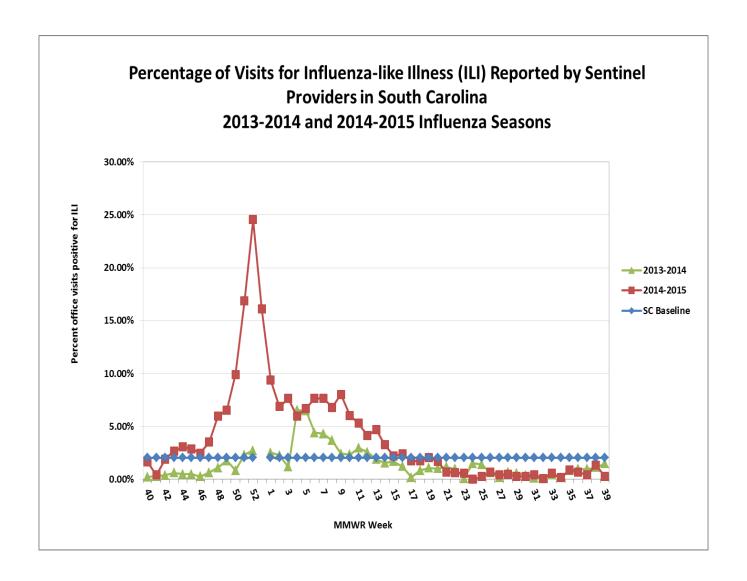
*Includes all laboratory tests (rapid antigen, culture, PCR, IFA, DFA.)



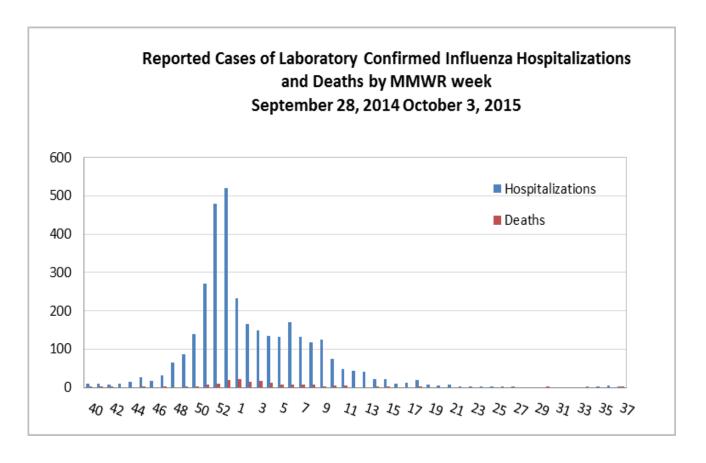


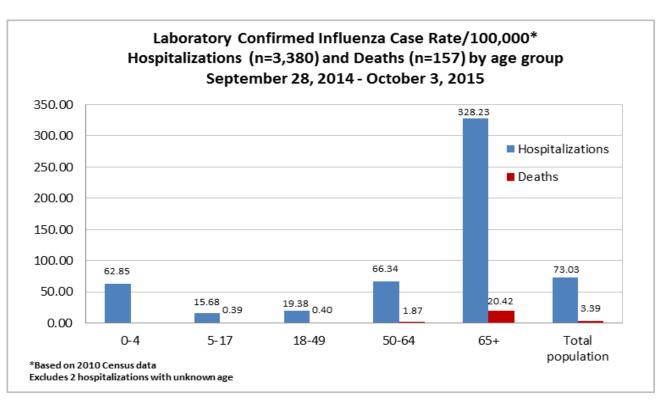
III. ILINet Influenza-Like Illness Surveillance

During the most recent MMWR week, 0.29%* of patient visits to SC ILINet providers were due to ILI. This is below the state baseline (2.05%). Reports were received from providers in 7 counties representing 3 of the 4 regions.



^{*} ILI percentage is dependent upon the number of reporting providers and can be greatly influenced by a single provider with high numbers of ILI.





V. South Carolina Influenza Surveillance Components

South Carolina influenza surveillance consists of mandatory and voluntary reporting systems for year-round influenza surveillance. These networks provide information on influenza virus strain and subtype and influenza disease burden.

Mandatory Reporting

Positive confirmatory test reporting

Positive influenza culture, PCR, DFA, and IFA results from commercial laboratories should be reported to DHEC within 3 days electronically via CHESS or using a DHEC 1129 card.

Positive rapid antigen test reporting

Summary numbers of positive rapid influenza tests and influenza type identified should be sent to the **regional** health department by fax or email before noon on Monday for the preceding week.

Influenza deaths

All (pediatric and adult) lab confirmed influenza deaths should be reported to DHEC within 24 hours. These include deaths confirmed by culture, PCR, rapid test, DFA, IFA or autopsy results consistent with influenza.

Influenza hospitalizations

DHEC requires weekly submission of laboratory confirmed influenza hospitalizations. Hospitals should report these to their **regional** health department by noon on Monday for the preceding week.

For additional information about ILINet or to become an ILINet provider, contact the Acute Disease Epidemiology influenza surveillance coordinator at springcb@dhec.sc.gov.

Voluntary Networks

Influenza-Like Illness (ILINet) Sentinel Providers Network ILINet focuses on the number of patients presenting with influenza-like symptoms in the absence of another known cause. ILI is defined as fever (temperature ≥100°F) plus a cough and/or a sore throat in the absence of another known cause. Providers submit weekly reports to the CDC of the total number of patients seen in a week and the subset number of those patients with ILI symptoms by age group.

South Carolina Disease Alerting, Reporting & Tracking System (SC-DARTS)

SC-DARTS is a collaborative network of syndromic surveillance systems within South Carolina. Currently our network contains the following data sources: SC Hospital Emergency Department (ED) chief-complaint data, Poison Control Center call data, Over-the-Counter (OTC) pharmaceutical sales surveillance, and CDC's BioSense Biosurveillance system. The hospital ED syndromic surveillance system classifies ED chief complaint data into appropriate syndrome categories (ex: Respiratory, GI, Fever, etc.). These syndrome categories are then analyzed using the cumulative sum (CUSUM) methodology to detect any significant increases. Syndromic reports are distributed back to the hospital on a daily basis.

VI. Definitions for Influenza Surveillance

Activity level: Indicator of the geographic spread of influenza activity which is reported to CDC each week.

- No activity: No increase in ILI activity and no laboratory-confirmed influenza cases.
- Sporadic: No increase in ILI activity and isolated laboratory-confirmed influenza cases
- *Local:* Increased ILI or 2 or more institutional outbreaks in one region and laboratory-confirmed influenza cases within the past 3 weeks in the region with increased ILI or outbreaks
- *Regional:* Increased ILI or institutional outbreaks in 2-3 regions and laboratory-confirmed influenza cases within the past 3 weeks in the regions with increased ILI or institutional outbreaks
- *Widespread:* Increased ILI and/or institutional outbreaks in at least 4 regions and laboratory confirmed influenza in the state within the past 3 weeks

Confirmatory testing: Influenza testing which is considered to be confirmatory, such as a viral culture or PCR

Influenza-like illness (ILI): Fever (temperature of 100°F [37.8°C] or greater) and cough and/or sore throat

MMWR week: Term for influenza surveillance week. Each week begins on Sunday and ends on Monday. The influenza season begins with MMWR week 40 and ends with MMWR week 39. The 2013-14 influenza season began on September 29, 2013 and will end on September 27, 2014.

Laboratory-confirmation: Positive influenza resulting from one of the following methods:

- DFA
- IFA
- Rapid influenza antigen test
- RT-PCR
- Viral culture