

# Florida Influenza Surveillance

# Week Ending April 8, 2006

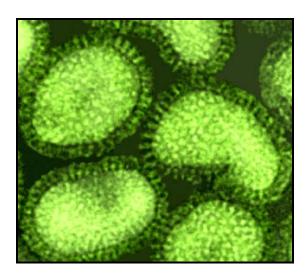
# (Week 14)

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## I. Summary

This is the twenty-seventh weekly Florida influenza surveillance report for the 2005-06 season. Influenza surveillance in Florida consists of six surveillance components: Florida Sentinel Physician Influenza Surveillance Network (FSPISN), state laboratory-based viral surveillance, county influenza activity levels as determined and reported by county health department epidemiologists based on county level influenza and influenza-like illness (ILI) surveillance, reporting of influenza-associated deaths among those <18 years of age, post-influenza infection encephalitis reporting, and reports of influenza or ILI outbreaks in the community or institutional settings. Influenza is not a reportable disease in Florida and therefore information regarding the exact number of influenza cases within the state is not available.

These surveillance systems allow the Florida Department of Health, in collaboration with the Centers for Disease Control and Prevention (CDC), to determine when and where influenza activity is occurring, identify circulating viruses, detect changes in the circulating influenza viruses, track patterns of influenza associated morbidity and mortality and estimate the overall impact of influenza in the state of Florida. Almost all of the reporting by the counties, laboratories and healthcare providers for the various surveillance programs that track influenza-associated morbidity and mortality is voluntary.

During week 14, Influenza-like illness (ILI) activity, as reported by FSPISN increased in five of the seven regions (Centraleast, Centralwest, Northcentral, Southeast, and Southwest). Overall, state ILI activity as reported by FSPISN was increased this week. Influenza activity levels reported by counties as of April 12, 2006 were similar to that of the previous week: No counties reported Widespread activity. No counties reported Localized activity. Twenty-three county health departments reported Sporadic ILI activity: (Bay, Brevard, Broward, Charlotte, Collier, Dade, Duval, Escambia, Hamilton, Hillsborough, Highlands, Holmes, Indian River, Leon, Manatee, Orange, Palm Beach, Pinellas, Santa Rosa, Sarasota, St Johns, Seminole and Volusia). Sixteen counties reported no activity. Twenty-eight counties did not report this week.

# II. FSPISN Influenza and Influenza-like Illness (ILI) Surveillance Summary:

Table 1 shows the weighted ILI activity by region as reported by Florida Sentinel Physician Influenza Surveillance Network (FSPISN) providers. The overall weighted percent ILI activity for the state for the week ending April 8, 2006 was 1.56%, compared to 0.95% for the previous week. ILI activity is below the Florida baseline. This is based on 47% of sentinel sites reporting. The highest weighted % ILI activity reported was in the Centraleast region at 3.02%, while the Northeast region reported the lowest at 0.16% ILI cases.

FSPISN <sup>*§</sup> Weighted ILI Activity, by Region, Week ending April 8, 2006		
REGION	<b>REPORTED ILI%</b>	
Centraleast	3.02%	
Centralwest	0.42%	
Northcentral**	0.56%	
Northeast	0.16%	
Northwest <sup>+</sup>	0.19%	
Southeast	1.89%	
Southwest	1.77%	

\*The ILI activity levels are based on information reported by the Florida Sentinel Physician Influenza Network. § FSPISN Reporting is incomplete for this week (47%). Numbers may change dramatically as more reports are received.

\*\* The ILI activity percentage reported for the Northcentral is based on only 1 FSPISN facility

† The ILI activity percentage reported for the Northwest is based on only 1 FSPISN facility

#### III. FSPISN Influenza-like Illness Graphs by Region

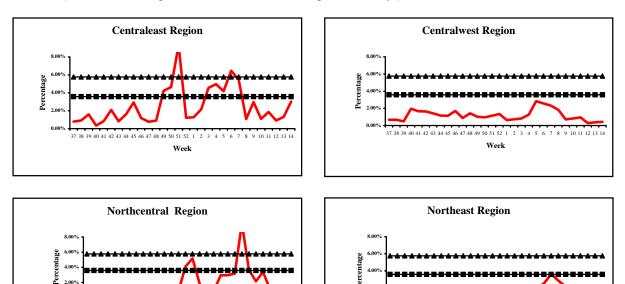
2.00

37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 1

Week

\_\_\_\_\_Florida Baseline: 3.58%, calculated using the previous 3 years of data as reported by FSPISN. (A line exceeding the baseline indicates moderate ILI activity.)

**A A A A Florida Threshold:** 5.76%, calculated using the previous 3 years of data as reported by FSPISN. (A line exceeding the threshold indicates high ILI activity.)



2

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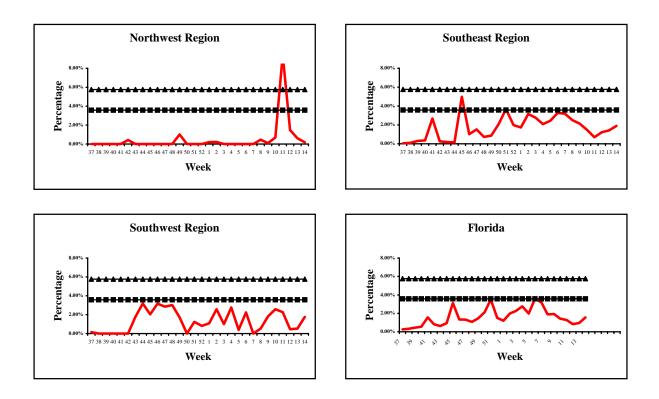
Per 2.00%

0.00%

37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52

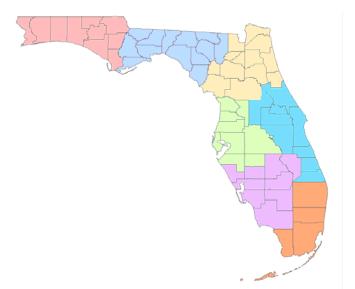
Week

9 10 11 12 13 14



# Influenza Surveillance Regions

Centraleast
Centralwest
Northcentral
Northeast
Northwest
Southeast
Southwest



## Influenza Surveillance – Reminders

#### **Important Reminders**

\*Influenza activity reporting by sentinel providers is voluntary

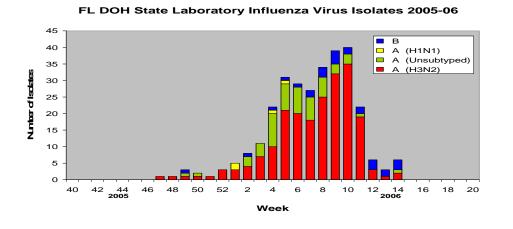
\*The influenza surveillance data is used to answer the questions of where, when, and what viruses are circulating. It can be used to determine if influenza activity is increasing or decreasing, but it cannot be used to ascertain how many people have become ill with influenza so far this season.

\*Reporting is incomplete for this week. Numbers may change dramatically as more reports are received.

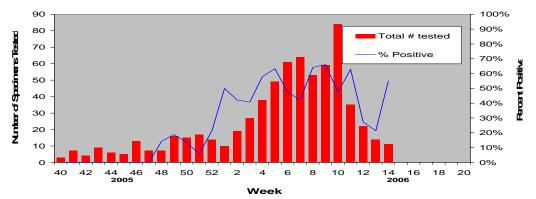
#### **IV. Laboratory Surveillance:**

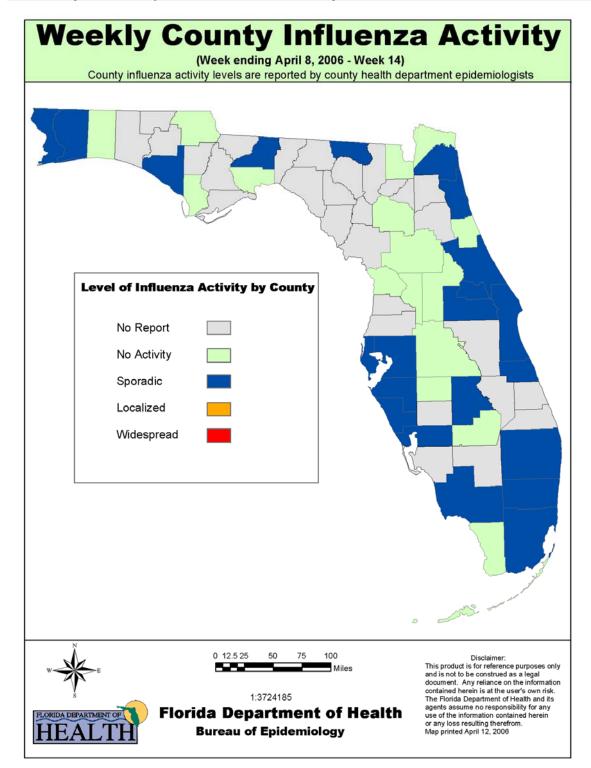
During week 14, Florida Department of Health State Laboratories (Tampa and Jacksonville) reported 11 specimens tested for influenza viruses and 6 (55%) were positive. Of these 3 were influenza A ( 2 were H3N2 and 1 was unsubtyped) and 3 were influenza B.

Since October 4, 2005, Florida Department of Health State Laboratories have tested a total of 669 specimens for influenza viruses and 293 (44%) were positive. Among the 293 influenza viruses, 268 (91%) were influenza A viruses and 26 (9%) were influenza B viruses. Two hundred twelve (212) of the 268 influenza A viruses have been subtyped: 208 were influenza A (H3N2) virus and 4 were influenza A (H1N1) virus. *Laboratory information is preliminary and may change as additional results are received.* 









# V. County Health Department Influenza Activity

County influenza activity level definitions. (County activity levels should be reported via EpiCom.)

#### 0 = No Activity:

Overall clinical activity remains low with no laboratory confirmed cases<sup>†</sup> in the county. 1 = Sporadic:

And/or  $\begin{pmatrix} a. \\ b. \\ An ILl^{\$}$  outbreak in a single setting<sup>‡</sup> in the county.

(No detection of increased ILI<sup>§</sup> activity by surveillance systems\*)

#### 2 = Localized:

And/or

- a. An increase of ILI<sup>§</sup> activity detected by a single surveillance system\* within the county. (An increase in ILI<sup>§</sup> activity has not been detected by *multiple* ILI surveillance systems).
- b. Two or more outbreaks (ILI<sup>§</sup> or lab confirmed<sup>†</sup>) detected in a single setting<sup>‡</sup> in the county.

AND

c. Recent (within past three weeks) laboratory evidence<sup>†</sup> of flu activity in the county. 3 = Widespread:

And/or  $\int$  a. An increase in ILI<sup>§</sup> activity detected in  $\ge 2$  surveillance systems in the county.

b. Two or more outbreaks (ILI<sup>§</sup> or laboratory confirmed<sup>†</sup>) detected in *multiple* settings<sup>‡</sup> in the county.

No Report: (No report was received from the county at the time of publication)

<sup>†</sup> Laboratory confirmed case = case confirmed by rapid diagnostic test, antigen detection, culture, or PCR.

- <sup>§ ILI</sup> = Influenza-like illness, fever ≥100°F AND sore throat and/or cough *in the absence* of another known cause. \* ILI surveillance system activity can be assessed using a variety of surveillance systems including sentinel providers, school/workplace absenteeism, long-term care facility (LTCF) surveillance, correctional institution surveillance, hospital emergency department surveillance and laboratory surveillance.
- <sup>\*</sup> Settings include institutional settings (LTCFs, hospitals, prisons, schools, companies) & the community.

# VI. Influenza-associated deaths among those <18 years of age & post influenza infection encephalitis

As of the week ending April 8, 2006, one influenza-associated death and/or post influenza infection encephalitis among those <18 years of age were reported in the state of Florida.

Reportable Disease	Number of Cases 05-06 Influenza Season
Influenza-associated deaths among those <18 years of age	1
Post-influenza infection encephalitis	0

Influenza-associated deaths among those <18 years of age and/or post influenza infection encephalitis are reportable; case report forms can be accessed at:

http://www.doh.state.fl.us/disease ctrl/epi/topics/crforms.htm.

#### VII. Reports of influenza or ILI outbreaks in the community or institutional settings

- The Department of Corrections reported an influenza A outbreak in a Bay County corrections facility on 3/8/06.
- Duval County Health Department reported an influenza A outbreak in a nursing home on 2/23/06.
- Duval County Health Department reported an influenza A outbreak in an assisted living facility on 2/21/06.
- The Department of Corrections reported an influenza-like illness outbreak in a Jackson County corrections facility on 2/22/06.
- Alachua County Health Department Epidemiology reported an influenza A outbreak in a special needs facility which occurred from 1/20/06 to 2/6/06.
- Brevard County Health Department began investigation of a reported influenza outbreak in a long-term care facility on 2/03/06.

A description of reported influenza or ILI outbreaks in community or institutional settings can be viewed via EpiCom at: <u>https://www.epicom.fl.net</u>. Influenza and ILI outbreaks should be reported to EpiCom on the Influenza forum.

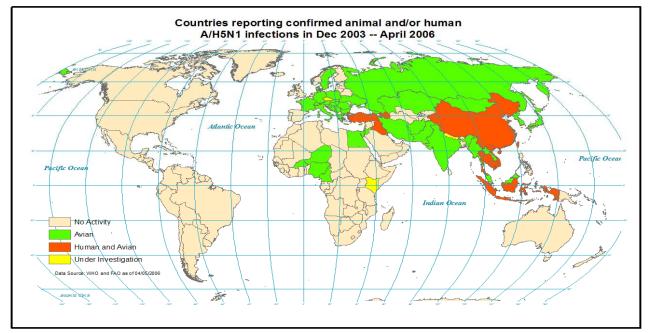
#### VIII. Summary of Worldwide A/H5N1 Influenza Activity

#### 04/13/06 Summary of Worldwide A/H5N1 Avian Influenza Activity Update 19

Since the recent outbreak activity began at the end of December 2003 there have been a total of 194 confirmed human cases and 109 deaths<sup>\*</sup>. Cases and deaths occurred in the following nations: Egypt 4 cases and 2 deaths; Azerbaijan 8 cases and 5 deaths; Cambodia 6 cases and 6 deaths; China 16 cases and 11 deaths; Indonesia 31 cases and 23 deaths; Thailand 22 cases and 14 deaths; Vietnam 93 cases and 42 deaths; Turkey 12 cases and 4 deaths; and, Iraq 2 case and 2 deaths. The most recent confirmed cases and deaths occurred in Indonesia (one case), Azerbaijan (one case), and Cambodia (one case and death). The case in Azerbaijan occurred earlier in March, and was a 17 year old girl whose cousin was previously confirmed by the WHO as H5N1 positive. Both girls have recovered. The case in Cambodia occurred in a 12 year old boy who developed symptoms of fever and headache on 3/29/06, and later died on 4/5/06. An investigation has found numerous chicken and duck deaths in the neighborhood where he lived. The one case in Indonesia occurred in a 23 year old man employed on a poultry farm, he has also recovered. Egyptian health officials are reporting a total of 12 cases of H5N1 cases and 3 deaths. Eight of these cases and 1 death have not yet been confirmed by WHO laboratories.

Over the last week there has only been one report of the H5N1 virus spreading to a new country, however, the virus continues to cause outbreaks in some previously impacted countries. Countries reporting confirmed outbreaks of H5N1 in bird species since late December 2003, with the most recent outbreaks listed first, include the United Kingdom (Scotland), Burkina Faso, Jordan, Sweden, Israel, Afghanistan, Cameroon, Myanmar, Albania, Serbia and Montenegro, Hungary, Poland, Switzerland, Niger, Slovakia, France, Austria, Malaysia, Azerbaijan, India, Slovenia, Germany, Nigeria, Egypt, Bulgaria, Italy, Greece, Iran, Croatia, Cyprus, Ukraine, Turkey, Romania, Indonesia, China, Russia, Thailand, Vietnam, Kuwait (only one flamingo), Kazakhstan, Mongolia, Cambodia, Korea (Rep. of), and Japan. Countries with confirmed H5 (neuraminidase not determined yet) infection in birds include the Czech Republic, Philippines, Iraq, and Laos. Animal health officials in the United Kingdom have found one H5N1 infected whooper swan along their shoreline. Extensive testing of wild bird species in the area has not found additional infected birds.

The current phase of alert as defined by the WHO global influenza preparedness plan is phase 3, which states that human infections with a new subtype are occurring, but no human-to-human spread, or at most rare instances of spread to a close contact. At the present time the WHO is not recommending restrictions on travel to areas affected by H5N1 avian influenza, but is suggesting that travelers to these areas avoid contact with live animal markets and poultry farms, and any free-ranging or caged poultry. Evidence suggests that the primary route of infection at this time is associated with direct contact with infected poultry, or surfaces and objects contaminated by their droppings.



\*All confirmed results are from official sources – WHO, CDC, FAO. Information on suspect cases comes from a variety of sources including Epi-X, ProMed, and the official sources mentioned above.