

Florida Influenza Surveillance

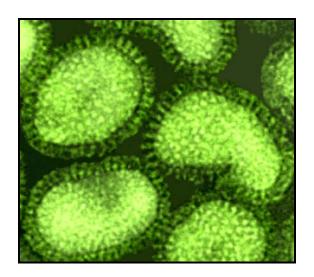
Week Ending March 4, 2006 (Week 9)

André Ourso, MPH; Florida Epidemic Intelligence Service Fellow

Brittni Jones, Influenza Surveillance Coordinator

D'Juan Harris, GIS Specialist

Aaron Kite-Powell, MS; Florida Epidemic Intelligence Service Fellow



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I. Summary

This is the twenty-second 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 9, Influenza-like illness (ILI) activity, as reported by FSPISN decreased in five of the seven regions (Centralwest, Northcentral, Northwest, Northeast and Southeast). County-level influenza reporting recorded as of March 7, 2006: Activity levels for Hillsborough and Pasco counties were reported as Widespread. Ten counties reported Localized activity: (Broward, Dade, Duval, Gulf, Hernando, Leon, Orange, Polk, St. Johns and Volusia). Twenty-four county health departments reported Sporadic ILI activity: (Alachua, Baker, Bay, Brevard, Clay, Collier, Escambia, Flagler, Hamilton, Jackson, Lake, Lee, Martin, Monroe, Nassau, Okaloosa, Palm Beach, Pinellas, Santa Rosa, Seminole, Sumter, Suwannee, Union and Wakulla). Seven counties reported no activity. Twenty-four 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 March 4, 2006 was 1.93%, compared to 1.90% for the previous week. This is based on 36% of sentinel sites reporting. The highest weighted % ILI activity reported was in the Centraleast region at 2.97%, while the Northwest region reported the lowest at 0.10% ILI cases.

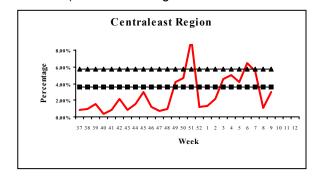
FSPISN*§ Weighted ILI Activity, by Region, Week ending March 4, 2006		
REGION	REPORTED ILI%	
Centraleast	2.97%	
Centralwest	0.71%	
Northcentral**	2.14%	
Northeast	2.15%	
Northwest	0.10%	
Southeast	2.13%	
Southwest	1.81%	

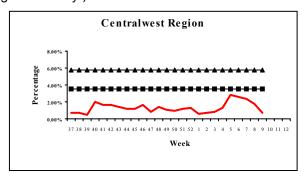
^{*}The ILI activity levels are based on information reported by the Florida Sentinel Physician Influenza Network.

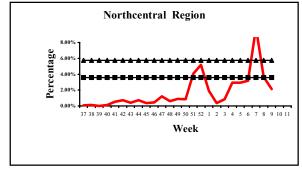
III. FSPISN Influenza-like Illness Graphs by Region

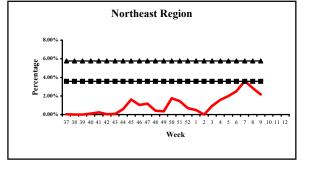
FSPISN. (A line exceeding the baseline indicates moderate ILI activity.)

▲ ▲ ▲ ▲ 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.)



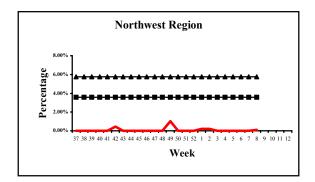


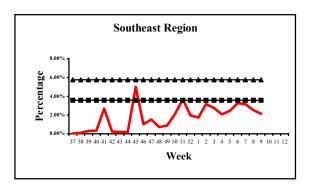


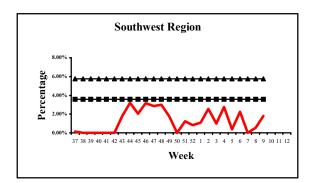


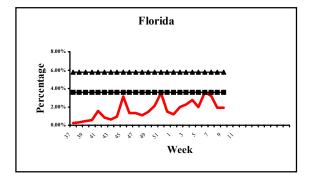
[§] FSPISN Reporting is incomplete for this week (36%). Numbers may change dramatically as more reports are received.

^{**} The ILI activity percentage reported for the Northcentral is based on only 2 FSPISN facilities

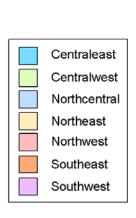


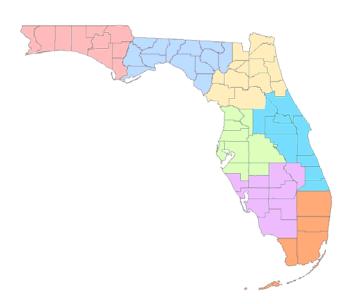






Influenza Surveillance Regions





Influenza Surveillance - Reminders

Important Reminders

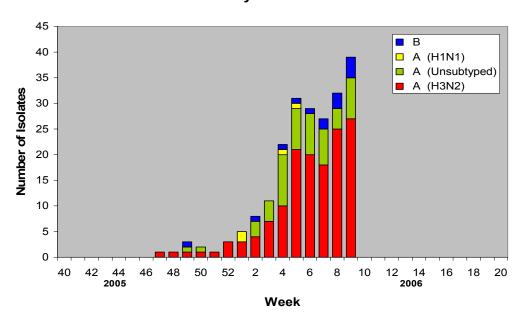
- *Influenza activity reporting by sentinel providers is voluntary
- *The influenza surveillance data is used to answer the questions of where, when, and what viruses are circulating. It can be used to determine if influenza activity is increasing or decreasing, but it cannot be used to ascertain how 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:

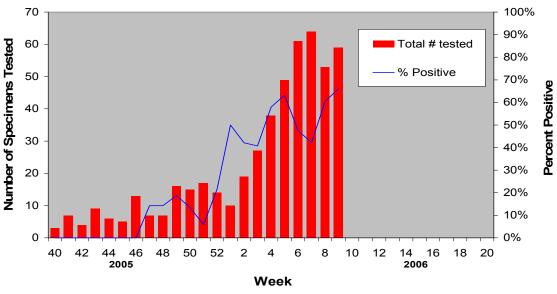
During weeks 8 and 9, Florida Department of Health State Laboratories (Tampa and Jacksonville) reported 114 specimens tested for influenza viruses and 73 (64%) were positive. Of these 52 were influenza A (H3N2), 14 were influenza A viruses not subtyped, and 7 were influenza B.

Since October 4, 2005, Florida Department of Health State Laboratories have tested a total of 503 specimens for influenza viruses and 217 (43%) were positive. Among the 217 influenza viruses, 203 (93.5%) were influenza A viruses and 14 (6.5%) were influenza B viruses. One hundred and forty-seven (147) of the 203 influenza A viruses have been subtyped: 143 were influenza A (H3N2) virus and 4 were influenza A (H1N1) virus. Laboratory information is preliminary and may change as additional results are received.

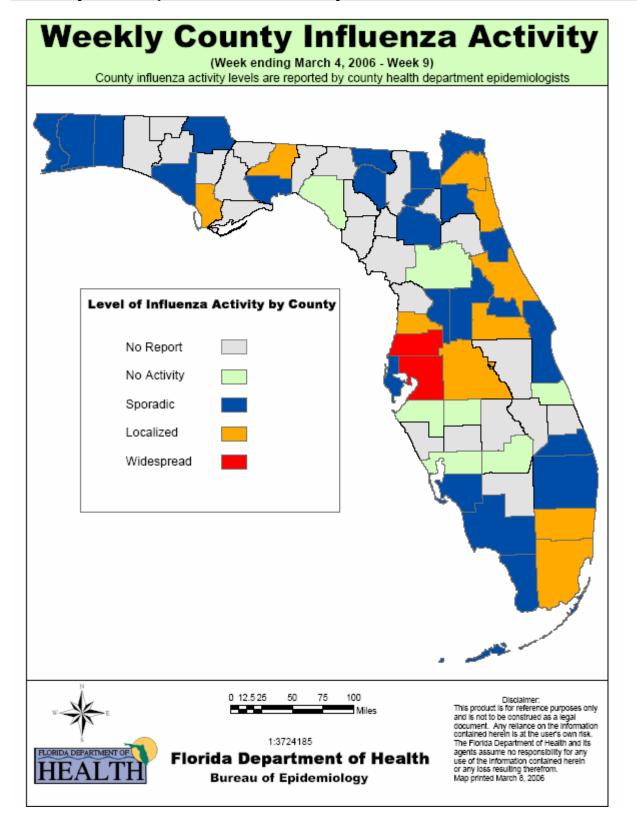
FL DOH State Laboratory Influenza Virus Isolates 2005-06



Number of Influenza Specimens Tested by FL DOH State Laboratories 2005-06



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[†] in the county.

1 = Sporadic:

a. Isolated cases of laboratory confirmed influenza[†] in the county.

b. An ILI[§] outbreak in a single setting[‡] in the county.

(No detection of increased ILI§ activity by surveillance systems*)

2 = Localized:



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

AND

c. Recent (within past three weeks) laboratory evidence[†] of flu activity in the county.

3 = Widespread:



a. An increase in ILI§ activity detected in ≥2 surveillance systems in the county.

b. Two or more outbreaks (ILI§ or laboratory confirmed†) detected in *multiple* settings[‡] in the county.

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

- * 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.
- * 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 March 4, 2006, no 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	0
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.

[†] Laboratory confirmed case = case confirmed by rapid diagnostic test, antigen detection, culture, or PCR. § ILI = Influenza-like illness, fever ≥100°F AND sore throat and/or cough *in the absence* of another known cause.

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

- 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: https://www.epicom.fl.net. Influenza and ILI outbreaks should be reported to EpiCom on the Influenza forum.

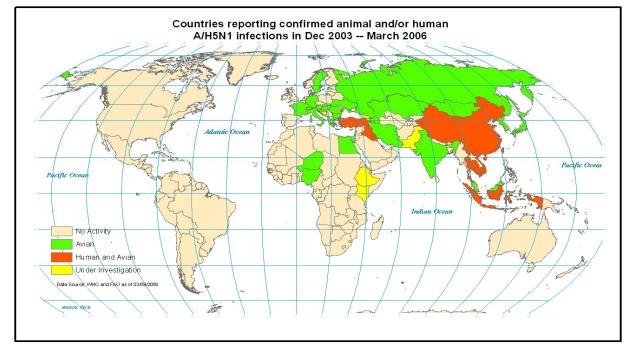
VIII. Summary of Worldwide A/H5N1 Influenza Activity

03/09/06 Summary of Worldwide A/H5N1 Avian Influenza Activity Update 14

Since the recent outbreak activity began at the end of December 2003 there have been a total of 175 confirmed human cases and 96 deaths*. Cases and deaths occurred in the following nations: Cambodia 4 cases and 4 deaths; China 15 cases and 10 deaths; Indonesia 27 cases and 20 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 China (one new case and two deaths) and Iraq (one case and death) in the last few weeks. There is a cluster of 8 persons, including 2 deaths, in Azerbaijan with an acute respiratory syndrome, and due to confirmed avian influenza in poultry in this area these cases are considered suspect human avian influenza cases. Turkish officials are investigating new reports of suspect human avian influenza cases. The new case in China was in Guangdong, an area where avian influenza has only been reported in wild birds in the recent past. Officials in Belgium are reporting a traveler who recently returned from China has been admitted to a hospital for suspected avian influenza.

The H5N1 virus continues to spread into new areas of Europe, Africa, and Asia. Countries reporting confirmed outbreaks of H5N1 in bird species since late December 2003, with the most recent outbreaks listed first, include Albania, 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 wild birds include Pakistan, Serbia and Montenegro, Bosnia and Herzegovina, Iraq, and Laos. Other countries investigating new reports of bird deaths include Turkey, Ethiopia, Kenya, and Armenia. Recently published research is now suggesting that the H5N1 virus may be endemic in parts of Asia.

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.