

Florida Influenza Surveillance

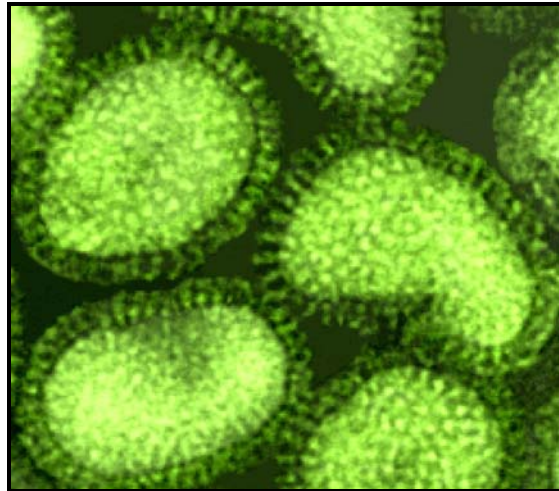
*Week Ending February 25, 2006
(Week 8)*

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I. Summary

This is the twenty-first 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 8, Influenza-like illness (ILI) activity as reported by FSPISN decreased in 5 of the seven regions (Centraleast, Centralwest, Northcentral, Northeast, and Southeast). County level influenza reporting recorded as of March 1, 2006: Activity levels for Broward, and Hillsborough Counties were reported as Widespread. Eleven counties reported Localized activity; (Brevard, Duval, Gulf, Lee, Leon, Orange, Polk, Sarasota, Seminole, Volusia and Wakulla). Twenty-six county health departments reported Sporadic ILI activity; (Alachua, Baker, Bay, Charlotte, Citrus, Clay, Collier, Dade, Escambia, Flagler, Hendry, Hernando, Highlands, Holmes, Indian River, Jackson, Manatee, Monroe, Nassau, Palm Beach, Pinellas, St. Johns, St. Lucie, Santa Rosa, Sumter, and Suwannee). Seven counties reported no activity. Twenty-one 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 February 25, 2006 was 1.90%, compared to 3.32% for the previous week. This is based on 38% of sentinel sites reporting. The highest weighted % ILI activity reported was in the Northcentral region at 3.66%, while the Northwest region reported the lowest at 0.45% ILI cases.

FSPISN*§ Weighted ILI Activity, by Region, Week ending February 25, 2006	
REGION	REPORTED ILI%
Centraleast	1.07%
Centralwest	1.82%
Northcentral¶	3.66%
Northeast	2.84%
Northwest**	0.45%
Southeast	2.51%
Southwest	0.53%

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

§ FSPISN Reporting is incomplete for this week (38%). Numbers may change dramatically as more reports are received.

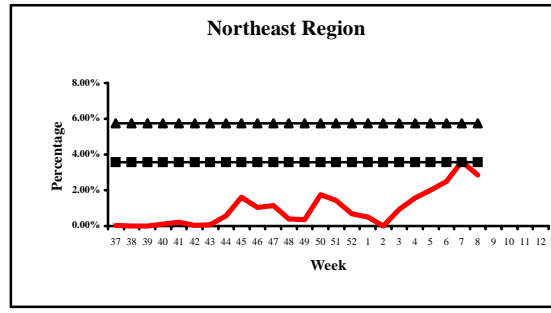
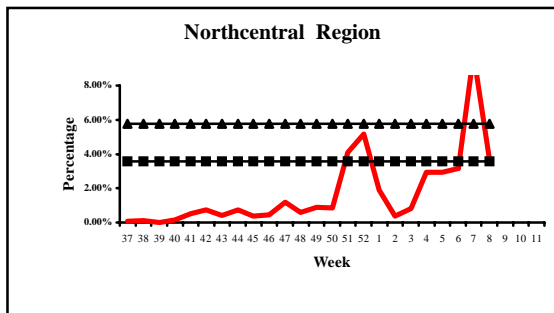
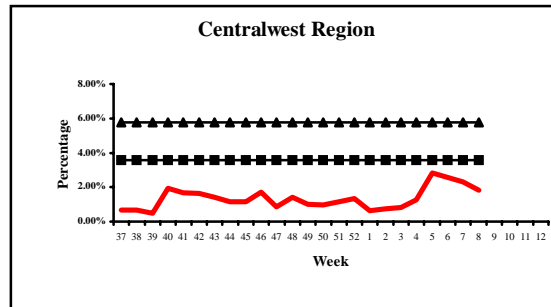
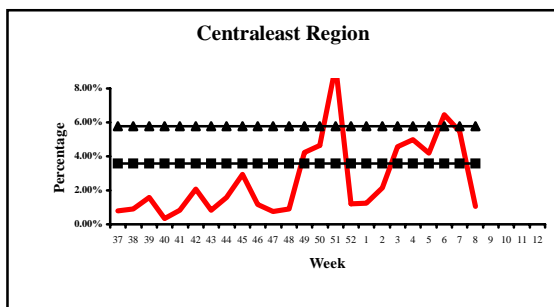
** . The ILI activity percentage reported for the Northwest region is based on only 2 FSPISN facilities

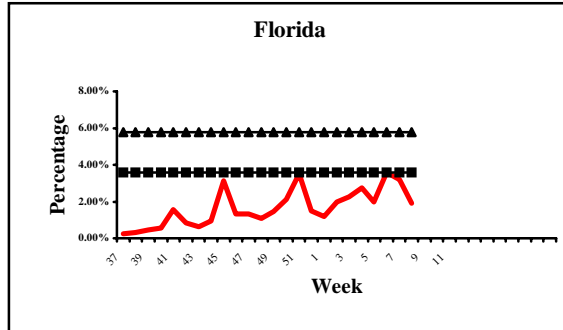
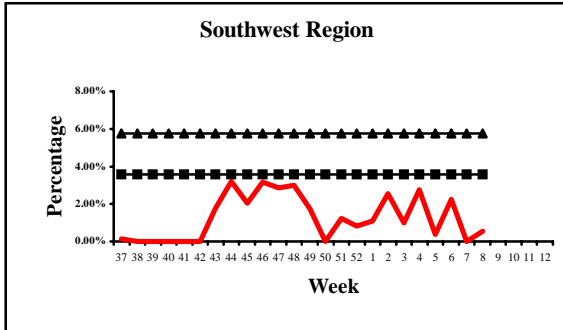
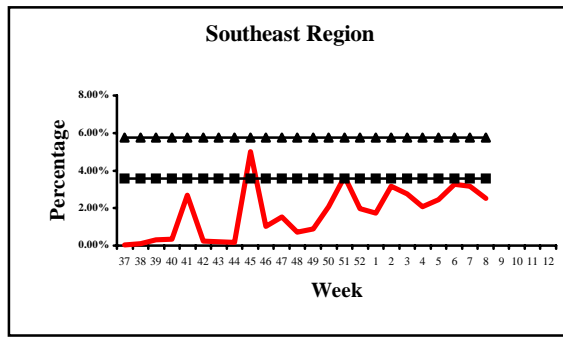
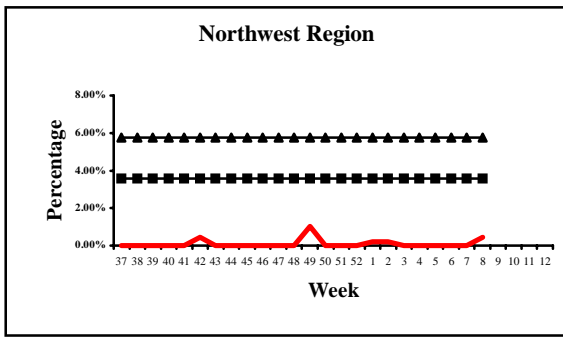
¶ The ILI activity percentage reported for the Northcentral region is based on only 2 FSPISN facilities.

III. FSPISN Influenza-like Illness Graphs By Region

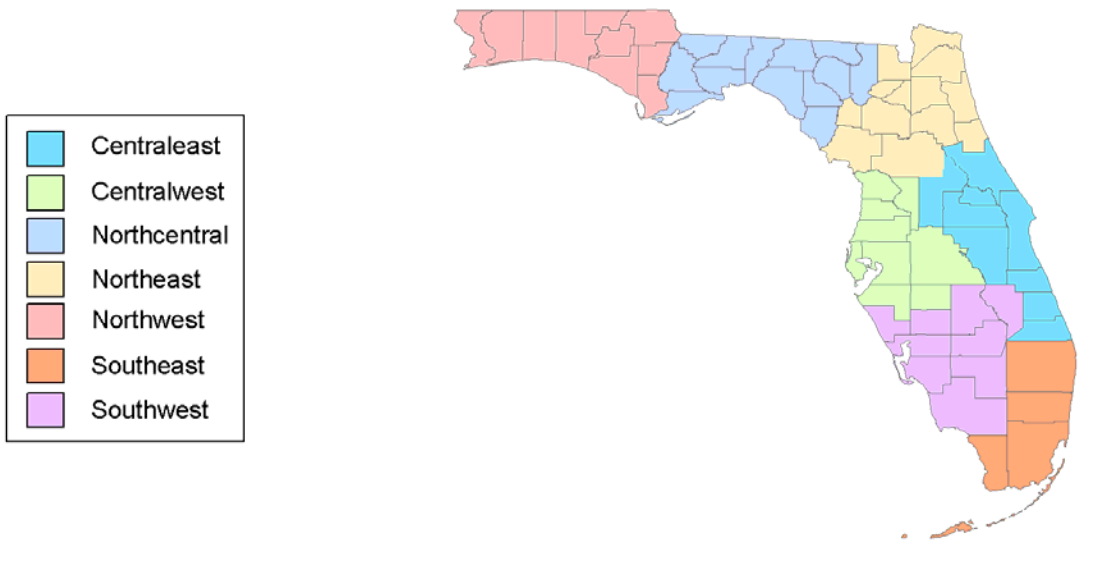
††††† Florida Baseline: 3.58%, calculated using the previous 3 years of data as reported by FSPISN. (A line exceeding the baseline indicates moderate ILI activity.)

▲▲▲▲▲ 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.)





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 question 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.*

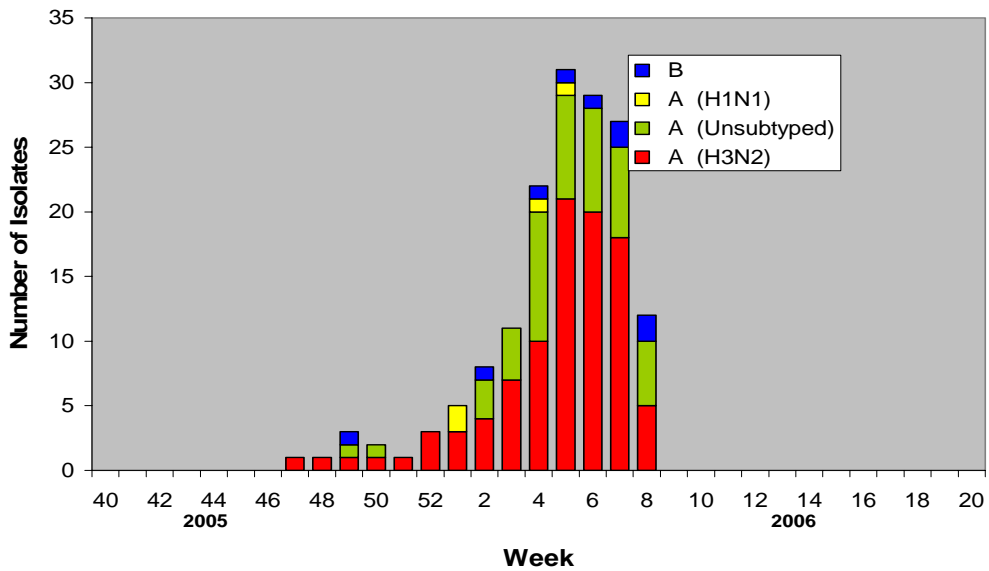
**Reporting is incomplete for this week. Numbers may change dramatically as more reports are received.*

IV. Laboratory Surveillance:

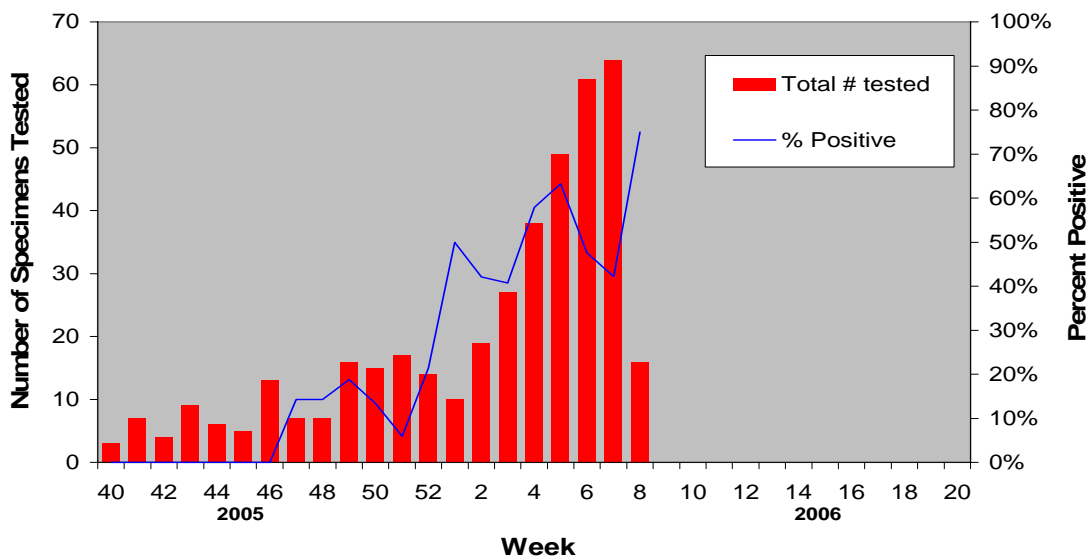
During week 8, Florida Department of Health State Laboratories (Tampa and Jacksonville) reported 16 specimens tested for influenza viruses and 12 (75%) were positive. Of these 5 were influenza A (H3N2), 5 were influenza A viruses not subtyped, and 2 were influenza B.

Since October 4, 2005, Florida Department of Health State Laboratories have tested a total of 398 specimens for influenza viruses and 154 (39%) were positive. Among the 154 influenza viruses, 145 (94%) were influenza A viruses and 9 (6%) were influenza B viruses. One hundred of the 145 influenza A viruses have been subtyped: 96 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

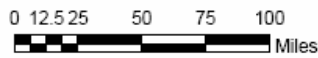
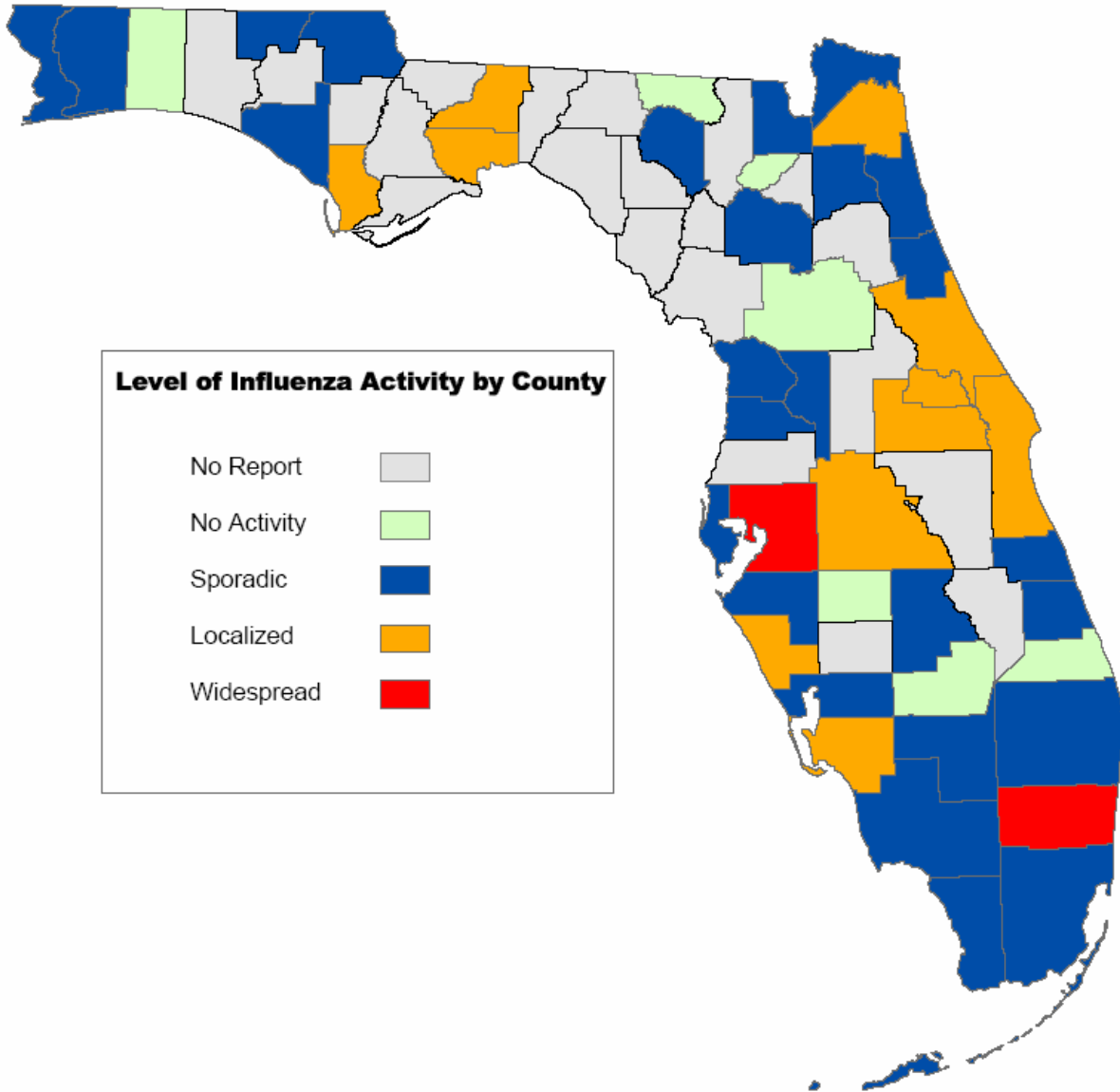


V. County Health Department Influenza Activity

Weekly County Influenza Activity

(Week ending February 25, 2006 - Week 8)

County influenza activity levels are reported by county health department epidemiologists



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Florida Department of Health
Bureau of Epidemiology

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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:

- And/or { 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:

- And/or { 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:

- And/or { 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)

[†] 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.

* 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 February 25, 2006, no influenza –associated deaths among those <18 years of age and/or post influenza infection encephalitis 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

Cases of 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

- Duval County Health Dept. reported an influenza A outbreak in a nursing home on 2/23/06.
- Duval County Health Dept. 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.

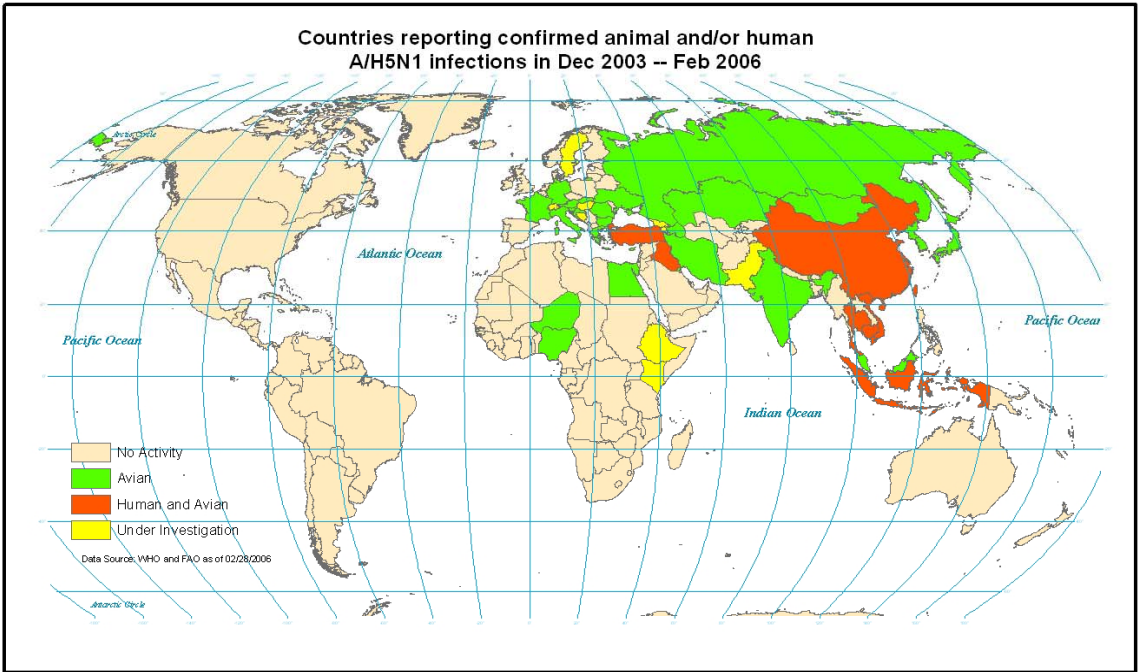
A description of reported influenza or ILI outbreaks in community or institutional settings can be viewed via EpiCom at: <https://www.epicom.fl.net>. Influenza and ILI outbreaks should be reported to EpiCom on the Influenza forum.

VIII. Summary of Worldwide A/H5N1 Influenza Activity

Since the recent outbreak activity began at the end of December 2003 there have been a total of 173 confirmed human cases and 93 deaths*. Cases and deaths occurred in the following nations: Cambodia 4 cases and 4 deaths; China 14 cases and 8 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 1 case and 1 death. The most recent confirmed cases and deaths occurred in Indonesia (one new case and death) and China (two new cases in critical condition) in the last few weeks. No human cases of H5N1 have been found in areas of Europe or Africa where the avian cases have recently been confirmed. Media reports from Germany have stated that a dead cat on the island of Rugen, where the avian cases were confirmed, has tested positive for H5N1.

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 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 Switzerland, Bosnia and Herzegovina, Iraq, and Laos. Other countries investigating reports of bird deaths include Ethiopia, Sweden, Pakistan, Hungary, Kenya, and Armenia. Recently published research is now suggesting that the H5N1 virus may be endemic in parts of Asia. The virus continues to be detected in seemingly healthy wild birds, but no human infections have been linked to exposure to diseased wild 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*