



# MI FluFocus

## Influenza Surveillance and Avian Influenza Update

Bureau of Epidemiology  
Bureau of Laboratories

Michigan Department  
of Community Health



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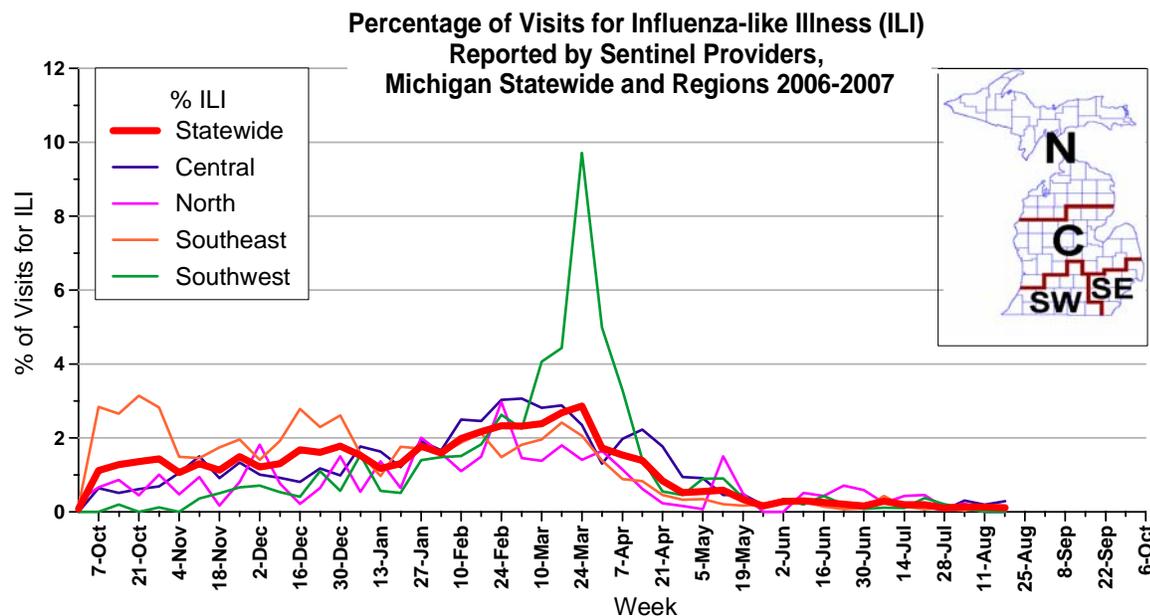
### New updates in this issue:

- **Michigan Surveillance:** Overall, influenza and influenza-like illness activity remain at low levels.
- **Avian Influenza:** Indonesia reports another human death due to H5N1.

**Michigan Disease Surveillance System:** The last week saw both aggregate flu-like illness reports and individual influenza reports hold steady near the previous week's levels. These indicators are expected to continue to fluctuate at baseline levels until fall.

**Emergency Department Surveillance:** Emergency department visits due to constitutional and respiratory complaints remained steady overall this past week. Reported levels remain consistent with levels from this time last year. Nine constitutional alerts in Regions 1(1), 2S(1), 3(1), 5(2), 7(1), and 8(3) and six respiratory alerts in Regions 1(3), 7(1) and 8(2) were generated last week.

**Sentinel Surveillance (as of August 23):** During the week ending August 18, 2007, the proportion of visits due to influenza-like illness (ILI) in Michigan remained at low a low level; 0.1% of all visits. This represents 6 cases of ILI out of 5453 total patient visits; twenty-one sentinels provided data for this report. By surveillance region, the proportion of visits due to ILI was 0.3%, Central; 0.0%, North; 0.0%, Southeast; and 0.0%, Southwest. Note that these rates may change as additional reports are received.



As part of pandemic influenza preparedness, CDC and MDCH highly encourage and recommend year-round participation from all sentinel providers. New practices are encouraged to join the sentinel surveillance program today! Contact Rachel Potter at 517-335-9710 or [potterr1@michigan.gov](mailto:potterr1@michigan.gov) for more information.

**Laboratory Surveillance (as of August 23):** For the 2006-2007 influenza season, there have been 158 culture-confirmed cases from the MDCH Lab:

- 70 A:H1N1 (Southeast (23), Southwest (21), Central (16), North (10))
- 34 A:H3N2 (North (12), Southeast (12), Central (7), Southwest (3))
- 54 B (Southeast (18), Central (17), Southwest (12), North (7))

All influenza B cultures have been B/Malaysia, except for six B/Shanghai results from the Southeast region.

\*\*\*As a reminder, the positive predictive value of influenza rapid tests decreases during times of low influenza prevalence. MDCH suggests that during periods of low influenza activity in your community, all positive rapid tests results be confirmed by sending in a specimen for viral culture; this can be arranged through your local health department.

**Influenza-Associated Pediatric Mortality (as of August 23):** For the 2006-2007 season, there are no confirmed reports of influenza-related pediatric mortality in Michigan.

\*\*\*Reminder: The CDC has asked all states to continue to collect information on any pediatric death associated with influenza infection. This includes not only any death in a child less than 18 years of age resulting from a clinically compatible illness confirmed to be influenza by an appropriate laboratory or rapid diagnostic test, but also unexplained death with evidence of an infectious process in a child. Refer to [http://www.michigan.gov/documents/fluletter\\_107562\\_7.pdf](http://www.michigan.gov/documents/fluletter_107562_7.pdf) for the complete protocol. It is important to immediately call or fax information to MDCH to ensure that appropriate clinical specimens can be obtained.

**Congregate Settings Outbreaks (as of August 23):** There has been one report of an influenza A outbreak from a Central region extended care facility for the 2006-2007 influenza season.

**Michigan Surveillance:** The Michigan 2006-2007 Influenza Season Summary is now available online at [http://www.michigan.gov/documents/mdch/MDCH2006-2007Summary\\_205808\\_7.pdf](http://www.michigan.gov/documents/mdch/MDCH2006-2007Summary_205808_7.pdf). Overall, Michigan had a mild season that peaked in mid- to late March, with A (H1N1), A (H3N2) and B virus activity.

**National:** CDC has released an MMWR article, "Update: Influenza Activity --- United States and Worldwide, 2006--07 Season, and Composition of the 2007--08 Influenza Vaccine", available at <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5631a2.htm>. For CDC weekly surveillance report archives, visit <http://www.cdc.gov/flu/weekly/fluactivity.htm>.

**International (WHO, as of March 29):** Overall influenza activity in the northern hemisphere remained moderate in weeks 8–11. In North America, influenza activity declined in general, while in Europe and some Asian countries and areas, widespread activity continued, with influenza A(H3N2) viruses predominating. Influenza A(H1N1) viruses circulated in the United States and in a few eastern European countries. Influenza B viruses circulated at low levels.

For influenza activity from individual countries, please visit the full WHO article "Seasonal Influenza Activity in the World, 2007" at <http://www.who.int/csr/disease/influenza/update/en/>.

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Weekly reporting to the CDC has concluded for the 2006-2007 influenza season.

**End of Seasonal Report**

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### **Avian Influenza Activity**

**WHO Pandemic Phase:** Phase 3 - Human infection(s) with a new subtype, but no human-to-human spread or rare instances of spread to a close contact.

**International, Human (WHO, August 23):** The Ministry of Health of Indonesia has announced a new case of human infection of H5N1 avian influenza. A 28-year-old female from Tabanan District, in Bali Province developed symptoms on August 14, was hospitalized on August 18 and died in hospital on August 21. The case was a poultry trader. The case investigation found that she collected poultry from

villages where outbreaks of avian influenza in poultry had occurred and were later confirmed by rapid testing.

Of the 105 cases confirmed to date in Indonesia, 84 have been fatal.

**International, Poultry (Agrarisch Dagblad, August 17):** An outbreak of low pathogenic avian influenza, type H5N2, has been diagnosed on a poultry farm in Lugo, Italy. This has been notified by the Ministry of Agriculture. Lugo is 25 km west of Ravenna, in Emilia Romano.

The farm included 7000 adult ducks, 3000 geese and 150 chickens. The infection was detected within the framework of the annual, routine sero-surveillance activities. No clinical symptoms were seen.

The holding was confined, and the animals will be culled. A restriction zone of one-km radius has been imposed around the site.

Last week, an infected hobby-holding was found.

**Michigan Wild Bird Surveillance (USDA, August 23):** For the 2007 testing season, 254 Michigan samples have been taken so far, comprised of 100 live bird samples, 99 hunter-killed birds and 55 morbidity/mortality samples.

According to the National HPAI Early Detection Data System website, HPAI subtype H5N1 has not been recovered from any Michigan samples tested to date, or from the 12,767 birds or environmental samples tested nationwide. The 2007 testing season will run from April 1, 2007-March 31, 2008. For more information, visit the National HPAI Early Detection Data System website at <http://wildlifedisease.nbio.gov/ai/>.

To learn about avian influenza surveillance in Michigan wild birds or to report dead waterfowl, go to Michigan's Emerging Disease website at <http://www.michigan.gov/emergingdiseases>.

**Please contact Susan Vagasky at [VagaskyS@Michigan.gov](mailto:VagaskyS@Michigan.gov) with any questions regarding this newsletter or to be added to the weekly electronic mailing list.**

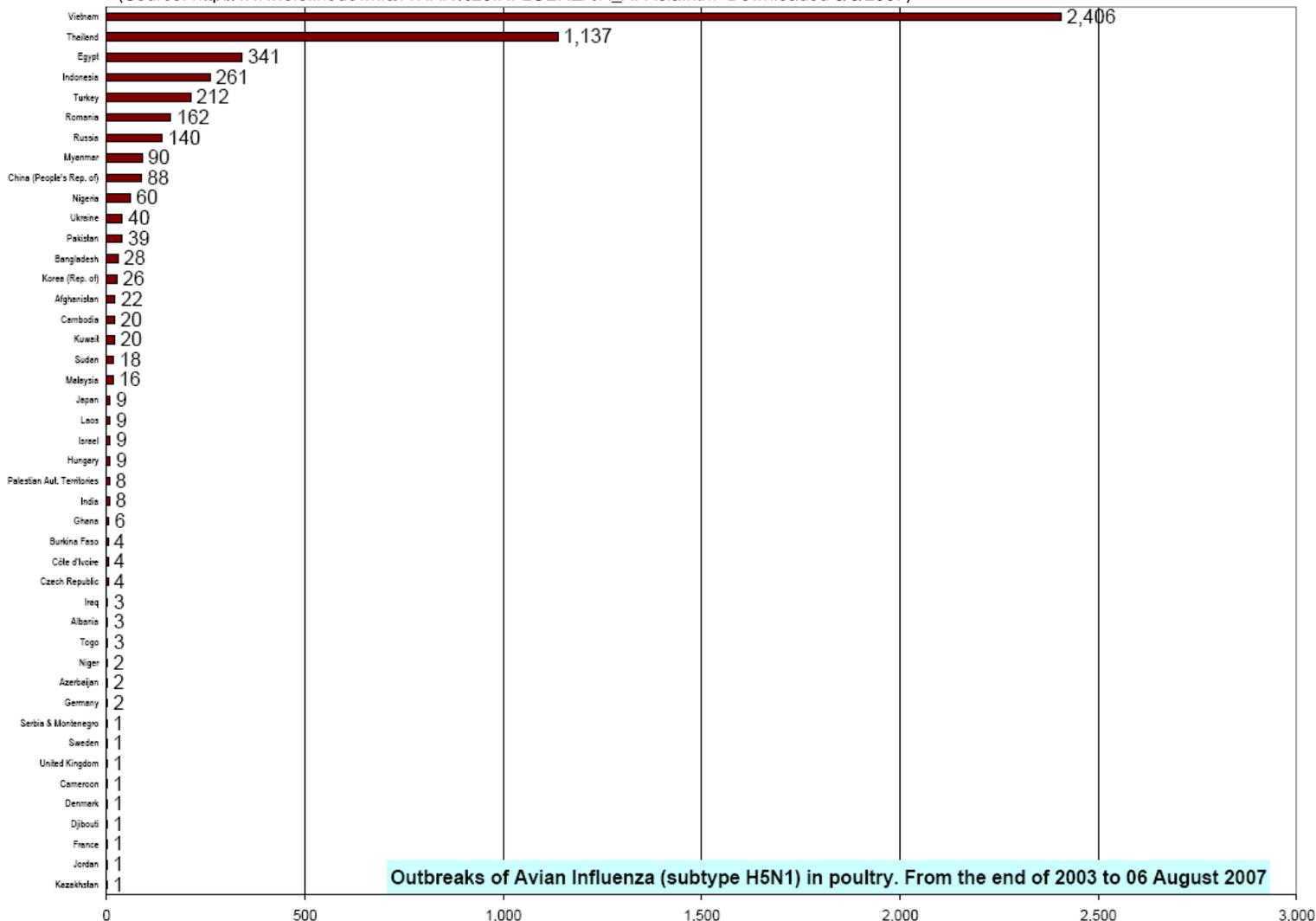
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**Table 1. H5N1 Influenza in Poultry (Outbreaks up to August 6, 2007)**

(Source: [http://www.oie.int/downld/AVIAN%20INFLUENZA/A\\_AI-Asia.htm](http://www.oie.int/downld/AVIAN%20INFLUENZA/A_AI-Asia.htm) Downloaded 8/6/2007)



Outbreaks of Avian Influenza (subtype H5N1) in poultry. From the end of 2003 to 06 August 2007

**Table 2. H5N1 Influenza in Humans (Cases up to August 23, 2007)**

([http://www.who.int/entity/csr/disease/avian\\_influenza/country/cases\\_table\\_2007\\_08\\_23/en/index.html](http://www.who.int/entity/csr/disease/avian_influenza/country/cases_table_2007_08_23/en/index.html) Downloaded 8/23/2007)

Cumulative number of lab-confirmed human cases reported to WHO. Total number of cases includes deaths.

Country	2003		2004		2005		2006		2007		Total	
	cases	deaths										
Azerbaijan	0	0	0	0	0	0	8	5	0	0	8	5
Cambodia	0	0	0	0	4	4	2	2	1	1	7	7
China	1	1	0	0	8	5	13	8	3	2	25	16
Djibouti	0	0	0	0	0	0	1	0	0	0	1	0
Egypt	0	0	0	0	0	0	18	10	20	5	38	15
Indonesia	0	0	0	0	20	13	55	45	30	26	105	84
Iraq	0	0	0	0	0	0	3	2	0	0	3	2
Lao PDR	0	0	0	0	0	0	0	0	2	2	2	2
Nigeria	0	0	0	0	0	0	0	0	1	1	1	1
Thailand	0	0	17	12	5	2	3	3	0	0	25	17
Turkey	0	0	0	0	0	0	12	4	0	0	12	4
Viet Nam	3	3	29	20	61	19	0	0	2	0	95	42
Total	4	4	46	32	98	43	115	79	59	37	322	195