



DEPARTMENT OF HEALTH SERVICES DIVISION OF PUBLIC HEALTH

**Weekly Surveillance Report
For the Week Ending January 16, 2010 (week 10-02)**



AT A GLANCE

- 1. Predominant respiratory viruses in Wisconsin:**
RSV, 2009 A/H1N1 and Rhinovirus

- 2. Influenza-like illness activity in Wisconsin and five public health regions:**

	Current Week 10-02	Previous Week 10-01
Wisconsin	Low	Low
Northeastern Region	Low	Low
Northern Region	Low	Low
Southeastern Region	Low	Low
Southern Region	Low	Low
Western Region	Low	Low

- 3. Influenza-like illness percentage:**

	Current week 10-02	Baseline
United States	1.8%	2.3%
Wisconsin	0.9%	3.1%
Region V (WI, MN, IL, MI, OH)	1.3%	1.7%

- 4. The Predictive Value Positive (PVP) for rapid influenza tests is:** Low

(PVP is the probability of disease in a patient with a positive test result)

- 5. The Predictive Value Negative (PVN) for rapid influenza tests is:** Moderate and increasing

(PVN is the probability of not having disease when the test result is negative)

Use of the influenza rapid test to diagnose 2009 H1N1 is discouraged

- 6. Antiviral resistance: (August 31 2009 –present) * State lab counts reflect tests on Wisconsin residents**

ADAMANTANE RESISTANCE								
Season/Lab		Influenza Subtype						
		Seasonal A/H1		2009 A/H1N1		A/H3		
Tested	Resistant	Tested	Resistant	Tested	Resistant			
09-10	WSLH	1	0%	878	99.7%	11	81.8%	
09-10	CDC							
OSELTAMIVIR RESISTANCE								
Season/Lab		Influenza Subtype						
		Seasonal A/H1		2009 A/H1N1		A/H3		B
Tested	Resistant	Tested	Resistant	Tested	Resistant	Tested	Resistant	
09-10	WSLH			64	0%			
09-10	CDC	1	100%	2974	1.4%	8	0%	6
ZANAMIVIR RESISTANCE								
Season/Lab		Influenza Subtype						
		Seasonal A/H1		2009 A/H1N1		A/H3		B
Tested	Resistant	Tested	Resistant	Tested	Resistant	Tested	Resistant	
09-10	CDC			831	0%			

- 7. Influenza-associated pediatric deaths (August 31, 2009-present)**

	Current Week 10-02	2009-10 Season Total	Due to 2009 H1N1
United States	7	243	198
Wisconsin	1	4	4

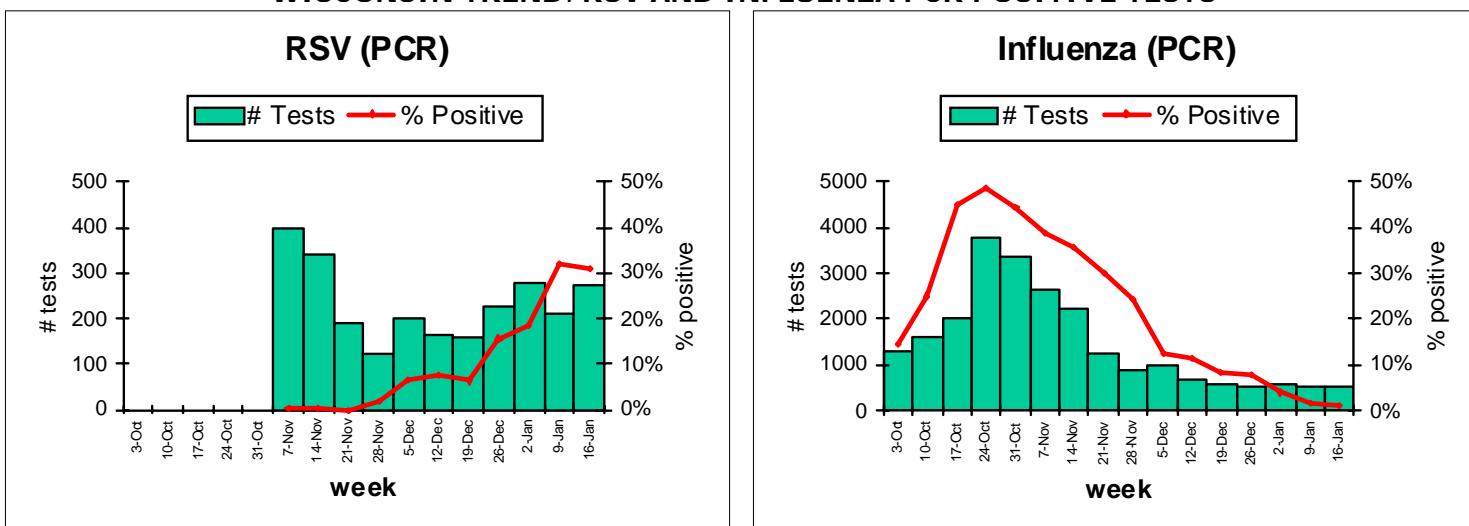
- 8. Pneumonia and influenza mortality (P&I), United States,**

	Current Week 10-02	Previous Week 10-01
P&I %	8.0%	7.1%
National P&I threshold %	7.6%	7.6%

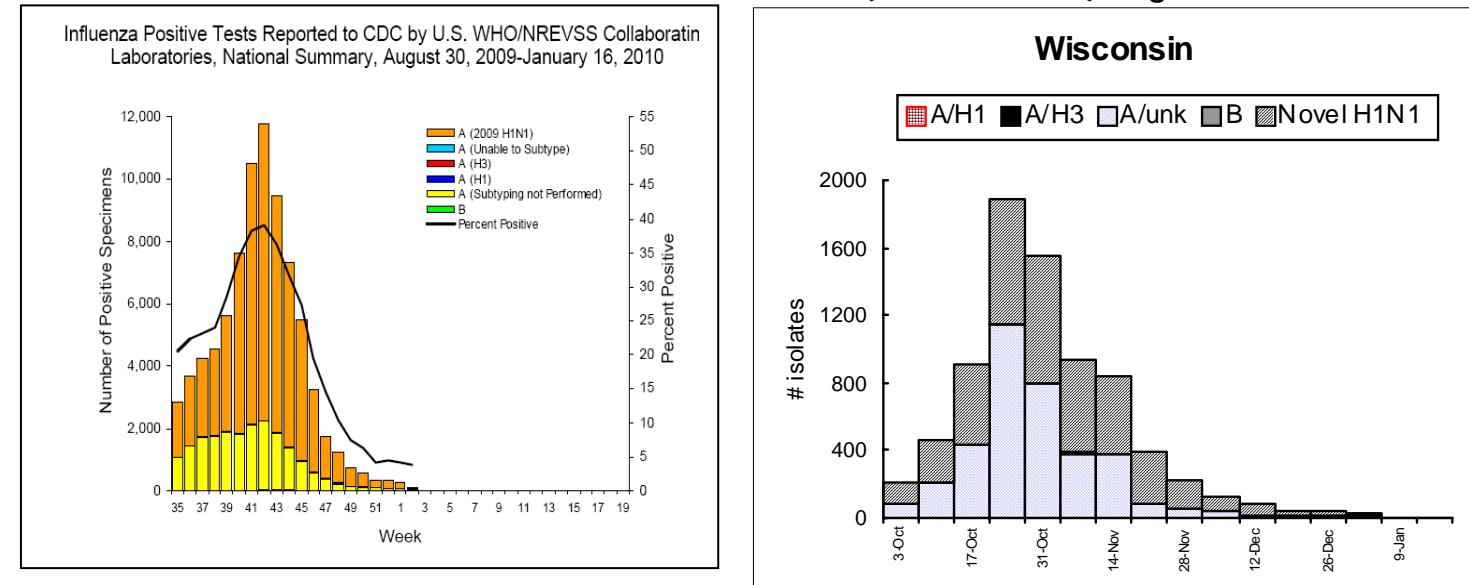
WISCONSIN LABORATORY SURVEILLANCE For Influenza and other Respiratory Viruses (week 10-02)

VIRUS CULTURE Based on 56 tests		RAPID TESTS			SELECT PCR TESTS	
Test Type	% Positive	Virus	# Tests	% Positive	Test Type	Positive/ total number
Total % Positive	5.4%					
Influenza (Tot.)	0.0%	Influenza (Tot)	350	2.9%	Influenza A & B	5/507
	0.0%	Influenza A		2.3%	Influenza A	0/0
	0.0%	Influenza B		0.3%	# A/H1 2009 A/H1	0/3
hMPV	0.0%				# A/H3 # A/not subtyped	0/2
		Influenza Unk.*		0.3%	# B	0/0
RSV	3.6%	RSV	250	36.0%	RSV	84/272
Adenovirus	0.0%	Adenovirus	16	0.0%	Adenovirus	2/135
Parainfluenza	1.8%				Parainfluenza	5/187
Rhinovirus	0.0%	* Influenza unknown (Unk) are positive influenza test results that cannot be distinguished between Type A and B			Corona OC43	0/111
Enterovirus	0.0%				Corona NL63	0/111
					hMPV	4/135
					Rhinovirus	13/135

WISCONSIN TREND. RSV AND INFLUENZA PCR POSITIVE TESTS



WISCONSIN AND U.S. TREND INFLUENZA SUBTYPES (CULTURE/PCR) August 2009-Present

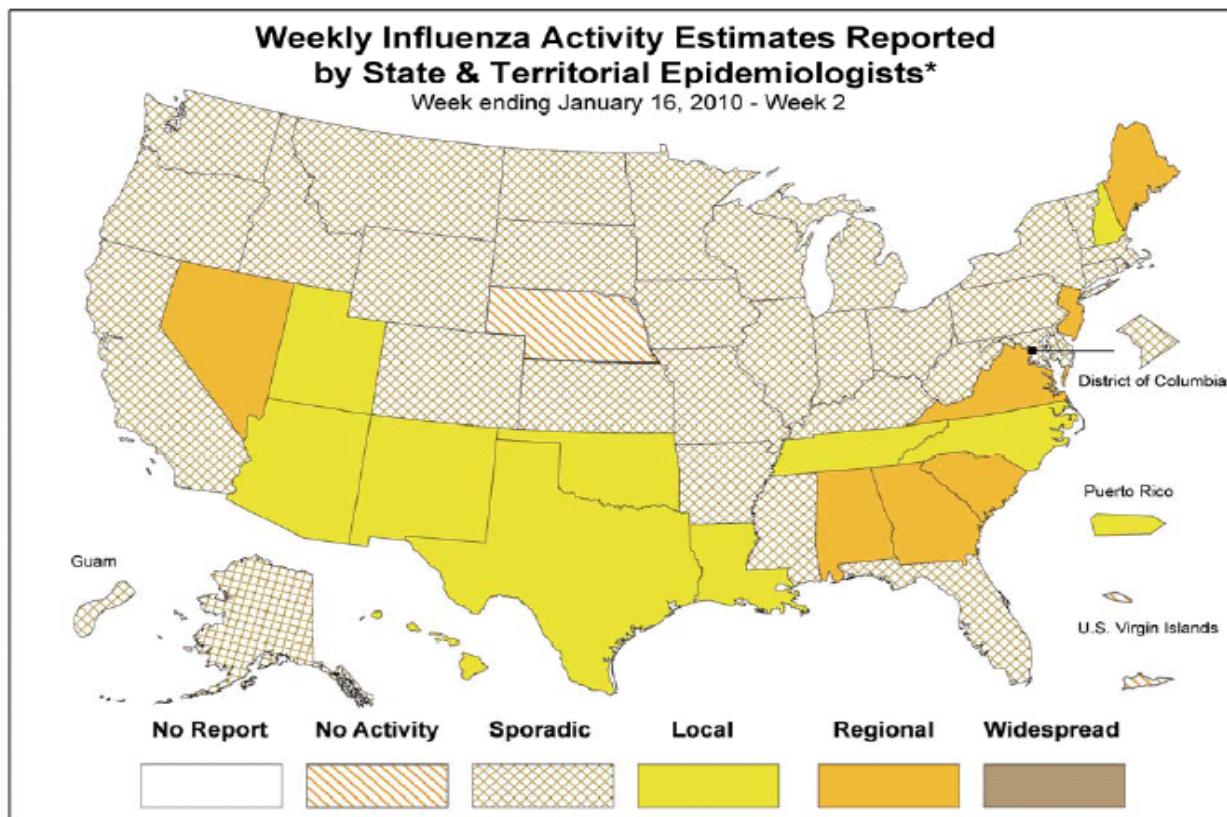


NATIONAL SUMMARY
(Wisconsin is in Region 5)
National and Regional Summary of Select Surveillance Components

HHS Surveillance Regions**	Data for current week			Data cumulative since August 30, 2009 (Week 35)*						
	Out- patient ILI†	% positive for flu‡	Number of jurisdictions reporting regional or widespread activity§	A (H1)	A (H3)	2009 A (H1N1)	A (unable to sub- type)¶	A (Subty- ping not perfor- med)	B	Pediatric Deaths
Nation	Normal	3.7%	7 of 54	27	55	61,608	318	19,572	228	243
Region 1	Normal	3.3%	1 of 6	4	2	3,349	14	475	10	6
Region 2	Normal	4.8%	1 of 4	4	4	1,514	0	1,106	9	12
Region 3	Normal	3.2%	1 of 6	3	10	10,593	48	1,452	17	13
Region 4	Normal	8.9%	3 of 8	0	5	7,510	94	4,157	68	45
Region 5	Normal	3.3%	0 of 6	7	23	9,361	52	1,555	15	35
Region 6	Normal	2.5%	0 of 5	0	3	3,492	45	4,794	42	67
Region 7	Normal	3.2%	0 of 4	3	1	3,312	3	776	3	8
Region 8	Normal	2.5%	0 of 6	4	2	9,684	0	3,767	52	15
Region 9	Elevated	4.4%	1 of 5	0	4	8,211	48	1,170	10	32
Region 10	Normal	5.2%	0 of 4	2	1	4,582	14	320	2	10

*Influenza season officially begins each year at week 40. This season data from week 35 will be included to show the trend of influenza activity before the official start of the 2009-10 influenza season.

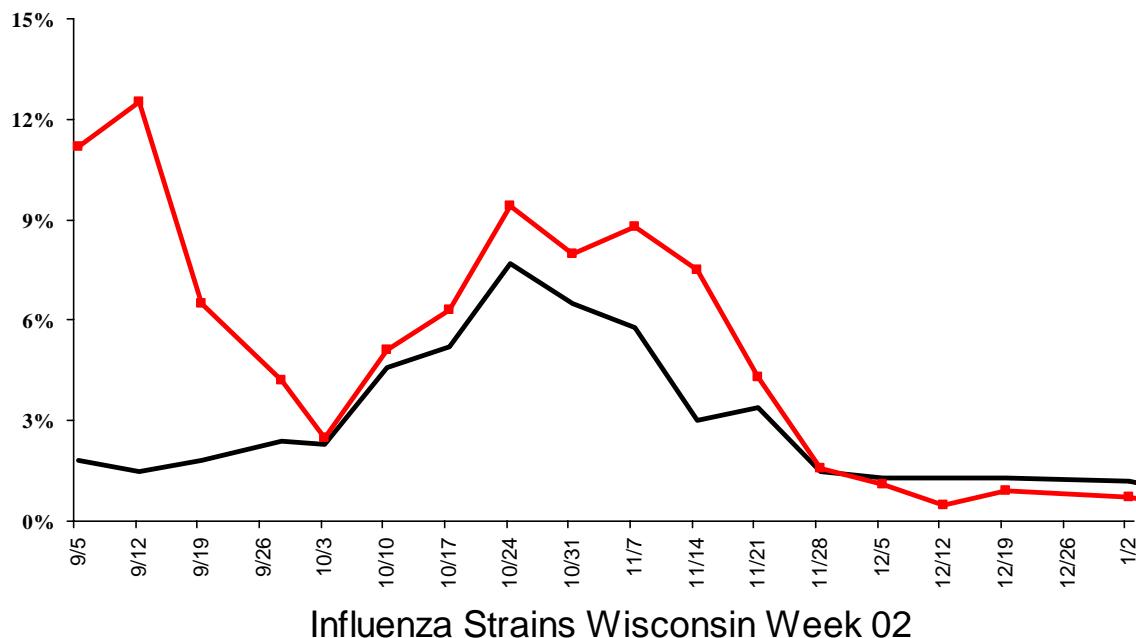
**HHS regions (Region 1 CT, ME, MA, NH, RI, VT; Region 2: NJ, NY, Puerto Rico, US Virgin Islands; Region 3: DE, DC, MD, PA, VA, WV; Region 4: AL, FL, GA, KY, MS, NC, SC, TN; Region 5: IL, IN, MI, MN, OH, WI; Region 6: AR, LA, NM, OK, TX; Region 7: IA, KS, MO, NE; Region 8: CO, MT, ND, SD, UT, WY; Region 9: AZ, CA, Guam, HI, NV; and Region 10: AK, ID, OR, WA). Use of the national baseline for regional data or regional baselines for state data is not appropriate.



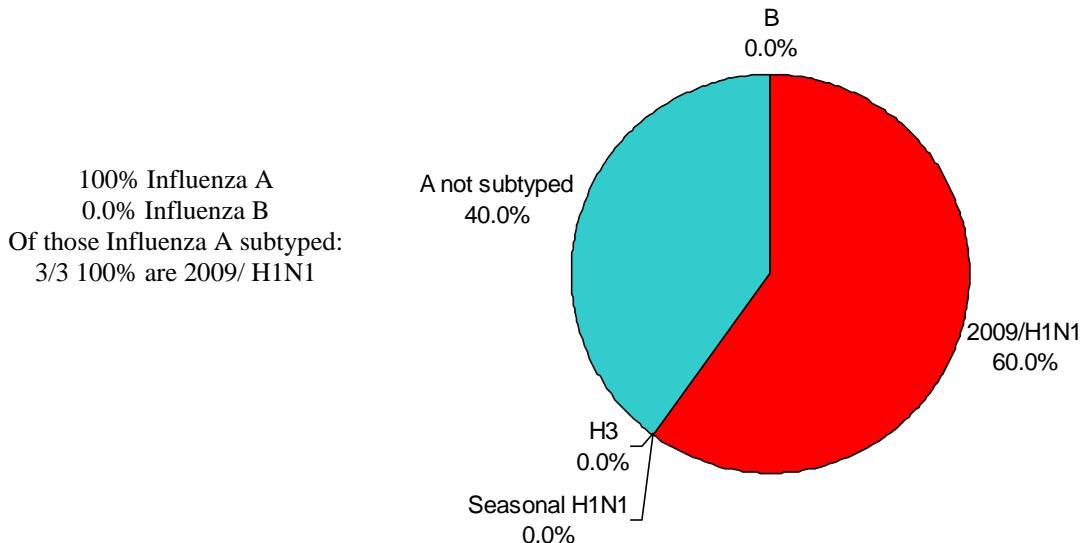
* This map indicates geographic spread & does not measure the severity of influenza activity

ILI Activity Statewide
 Family Practice Clinicians and University Student Health Clinicians
 August 29, 2009 to present

— Family Practice — University Health



■ 2009/H1N1
 ■ Seasonal H1N1
 ■ H3
 ■ A not subtyped
 □ B



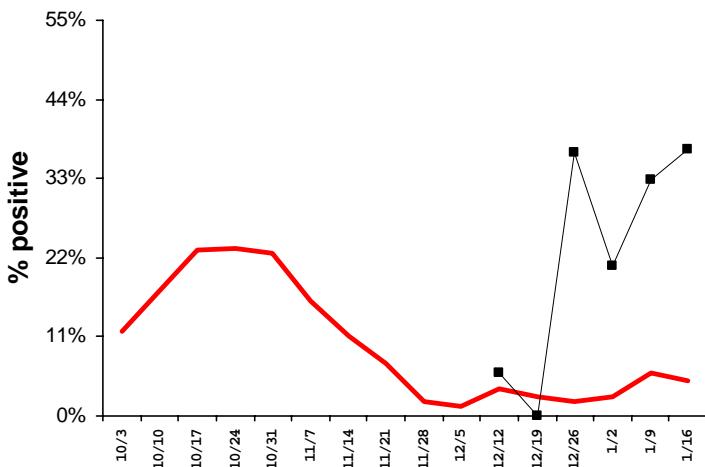
RAPID TEST SITE DATA (CHART) BY REGION

Percent Positive Rapid Tests for Influenza and RSV

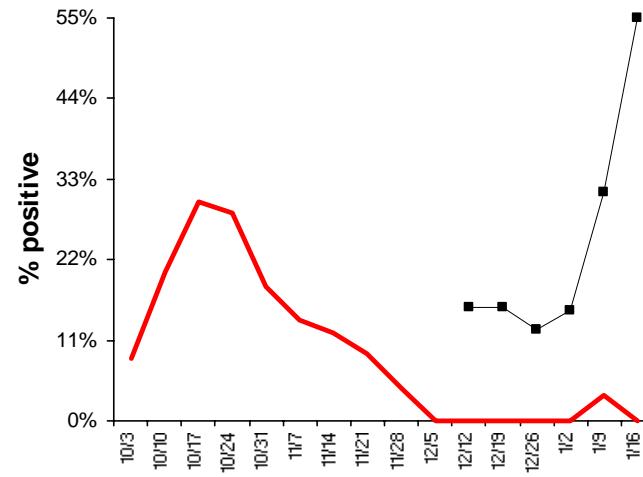
— Influenza

■ RSV

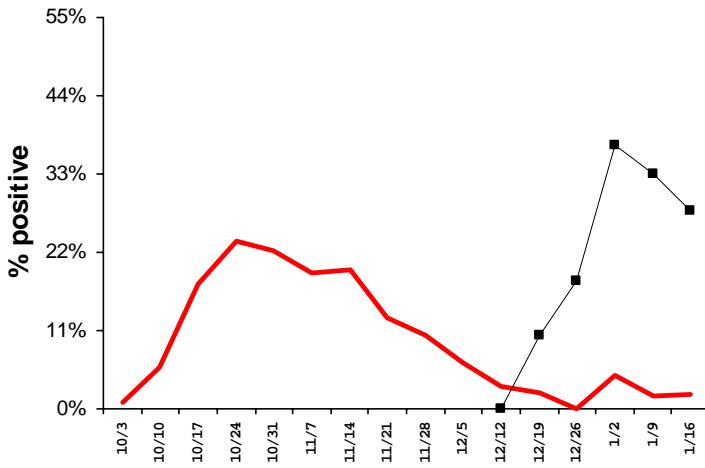
Northeast Region



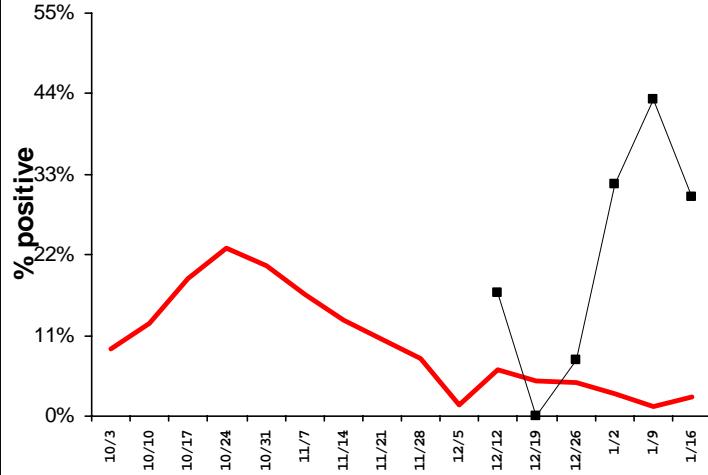
Northern Region



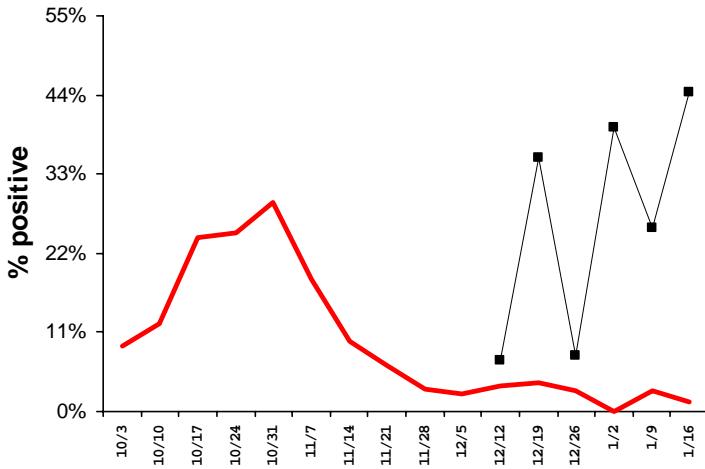
Southeastern Region



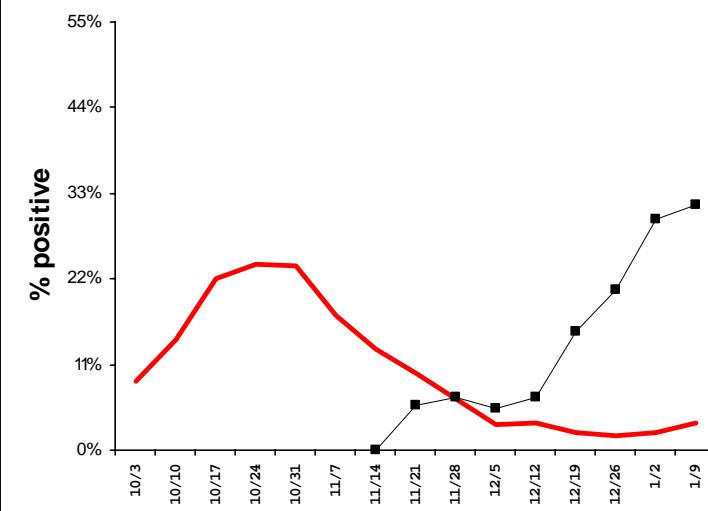
Southern Region



Western Region



Wisconsin



INFLUENZA-LIKE ILLNESS DATA (CHART) BY REGION

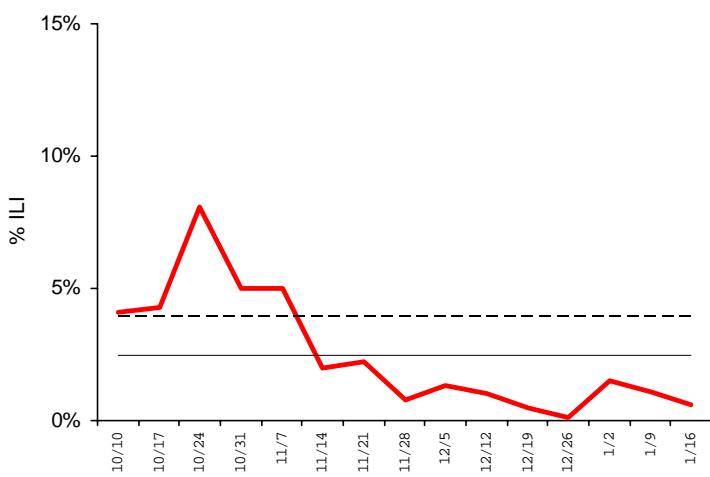
Source: US Outpatient Influenza-like Illness Surveillance Network (ILINet)

ILI %

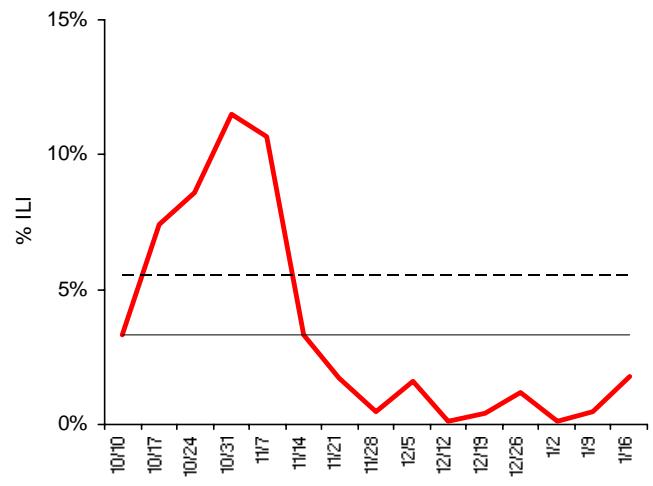
Baseline %

Threshold %

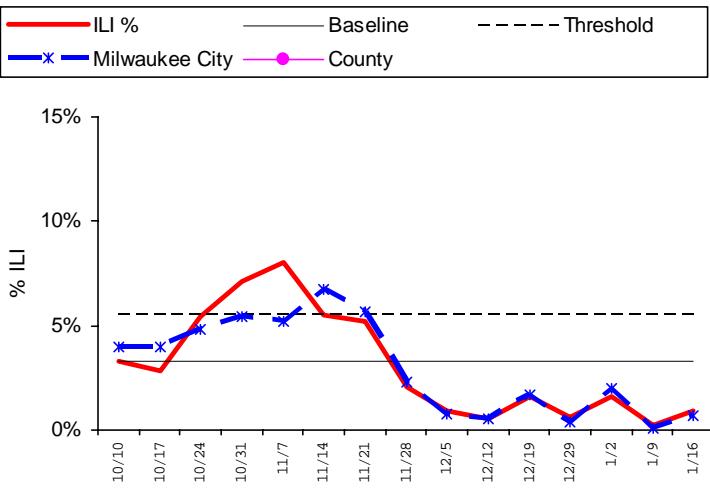
Northeast Region



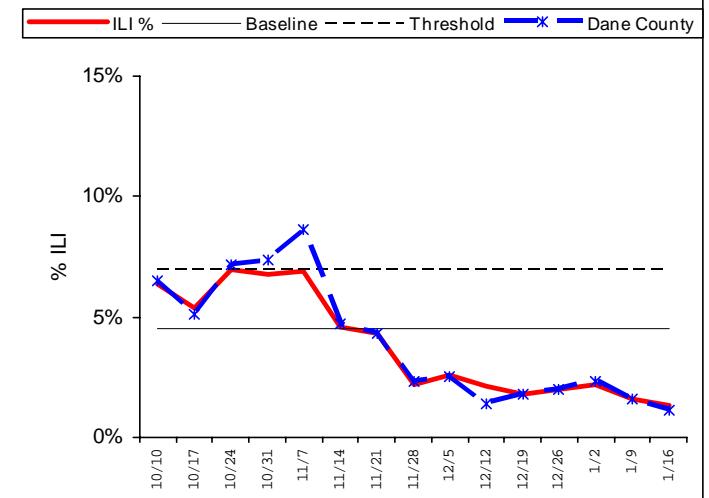
Northern Region



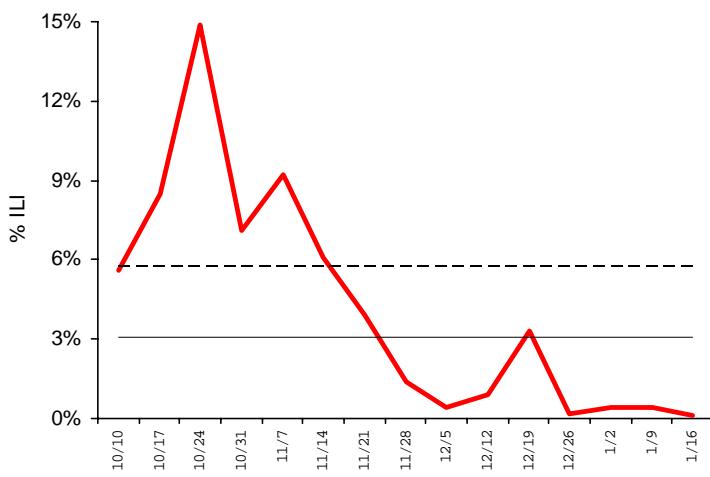
Southeastern Region



Southern Region



Western Region



Wisconsin

