



DEPARTMENT OF HEALTH SERVICES
DIVISION OF PUBLIC HEALTH

Weekly Surveillance Report
For the Week Ending February 6, 2010 (week 10-05)



AT A GLANCE

1. Predominant respiratory viruses in Wisconsin:
RSV, Human metapneumovirus, and Rhinovirus with sporadic 2009/H1N1

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

	Current Week 10-05	Previous Week 10-04
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 10-05	Baseline
United States	2.1%	2.3%
Wisconsin	0.8%	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	Tested	Resistant
09-10	WSLH								
09-10	CDC	1	0%	1191	99.7%	11	100.0%		

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			66	0%				
09-10	CDC	1	100%	3475	1.4%	11	0%	7	0%

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			1160	0%				

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

	Current Week 10-05	2009-10 Season Total	Due to 2009 H1N1
United States	3	260	214
Wisconsin	0	4	4

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

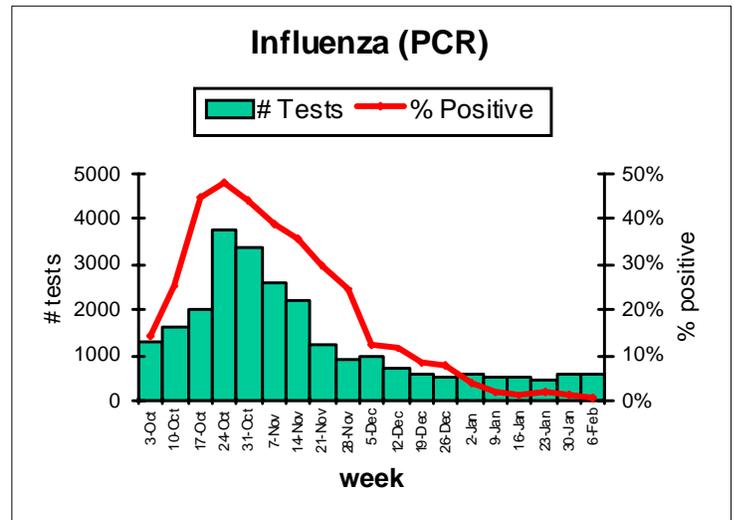
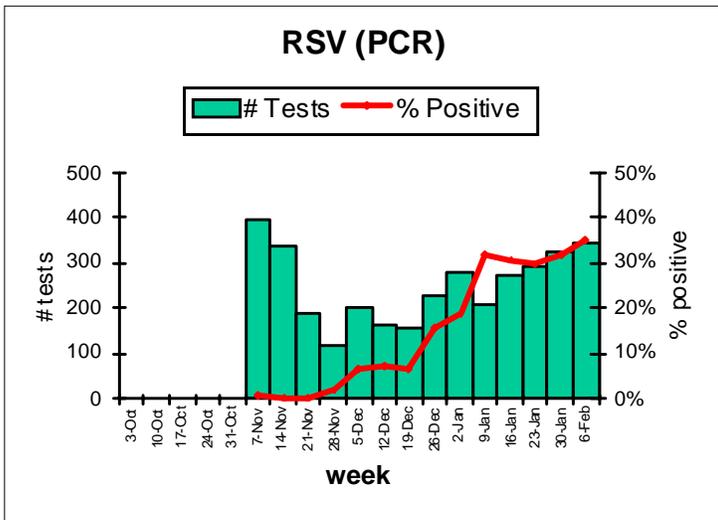
	Current Week 10-05	Previous Week 10-04
P&I %	7.3%	8.1%
National P&I threshold %	7.8%	7.3%

WISCONSIN LABORATORY SURVEILLANCE

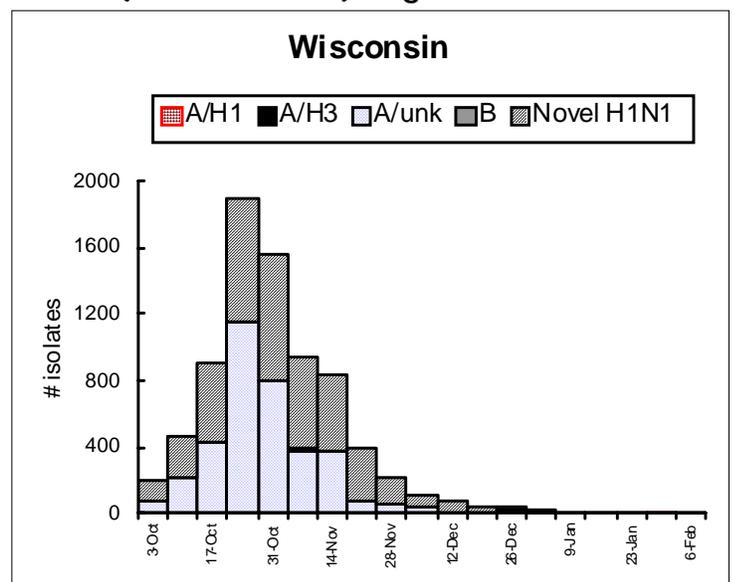
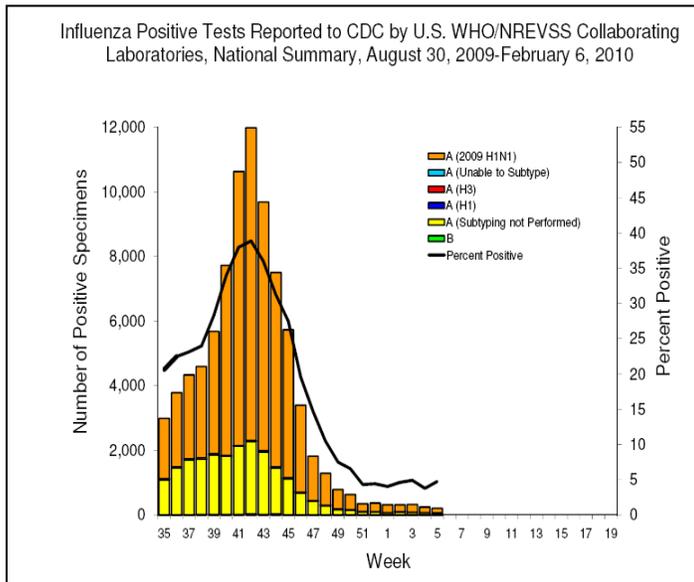
For Influenza and other Respiratory Viruses (week 10-05)

VIRUS CULTURE Based on 105 tests		RAPID TESTS			SELECT PCR TESTS	
Test Type	% Positive	Virus	# Tests	% Positive	Test Type	Positive/ total number
Total % Positive	9.5%					
Influenza (Tot.)	0.0%	Influenza (Tot)	380	0.0%	Influenza A & B	4/603
Influenza A	0.0%	Influenza A		0.0%	Influenza A	0/0
Influenza B	0.0%				# A/H1	0
					2009 A/H1	4
hMPV	0.0%	Influenza B		0.0%	# A/H3	0
					# A/not subtyped	0
		Influenza Unk.*		0.0%	# B	0
RSV	6.7%	RSV	561	46.2%	RSV	121/346
Adenovirus	0.0%	Adenovirus	16	0.0%	Adenovirus	6/193
Parainfluenza	1.9%				Parainfluenza	3/255
					Corona OC43	0/159
Rhinovirus	0.9%	*Influenza unknown (Unk) are positive influenza test results that cannot be distinguished between Type A and B			Corona NL63	0/159
					hMPV	18/193
Enterovirus	0.0%				Rhinovirus	18/193

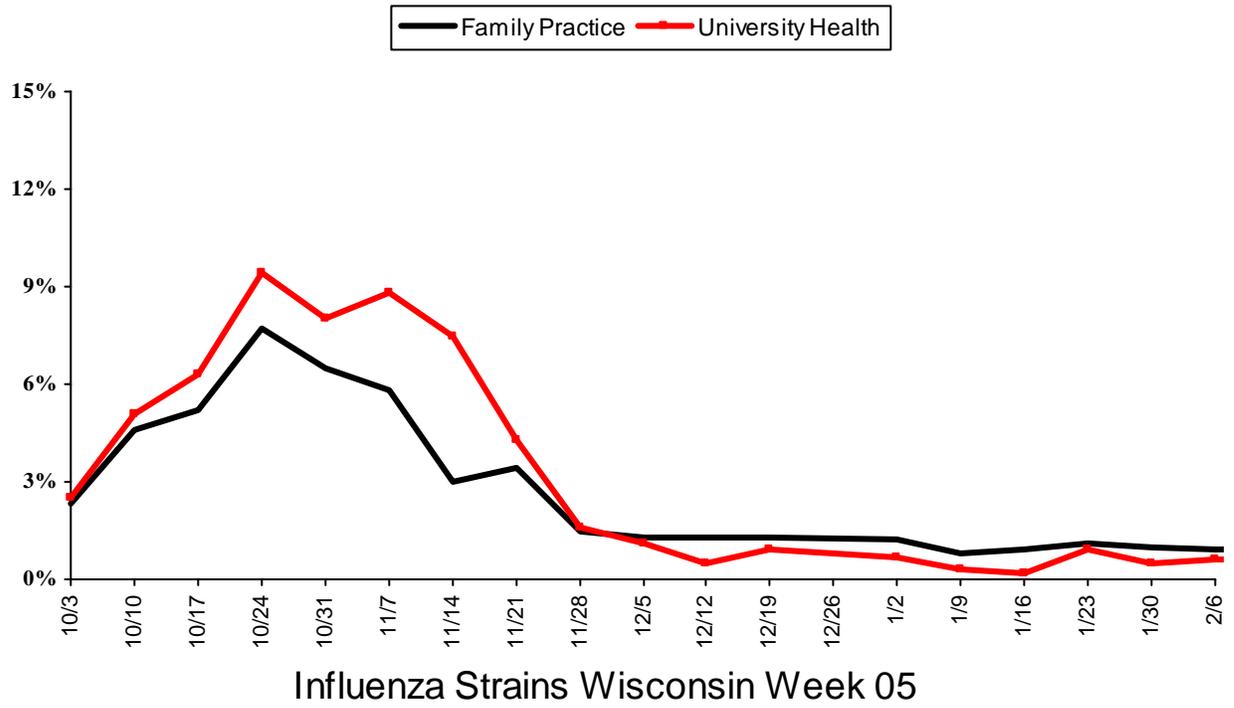
WISCONSIN TREND. RSV AND INFLUENZA PCR POSITIVE TESTS



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

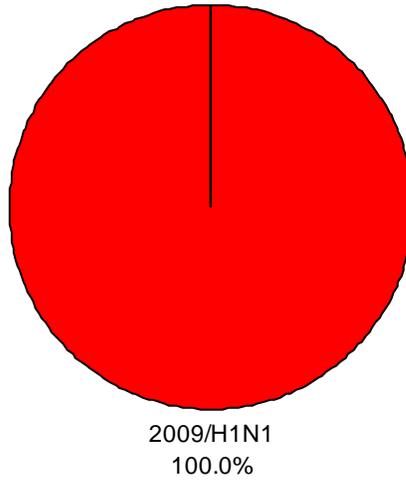


ILI Activity Statewide
 Family Practice Clinicians and University Student Health Clinicians
 August 29, 2009 to present



■ 2009/H1N1

100% Influenza A
 0.0% Influenza B
 Of those Influenza A subtyped:
 4/4 were 2009/ H1N1

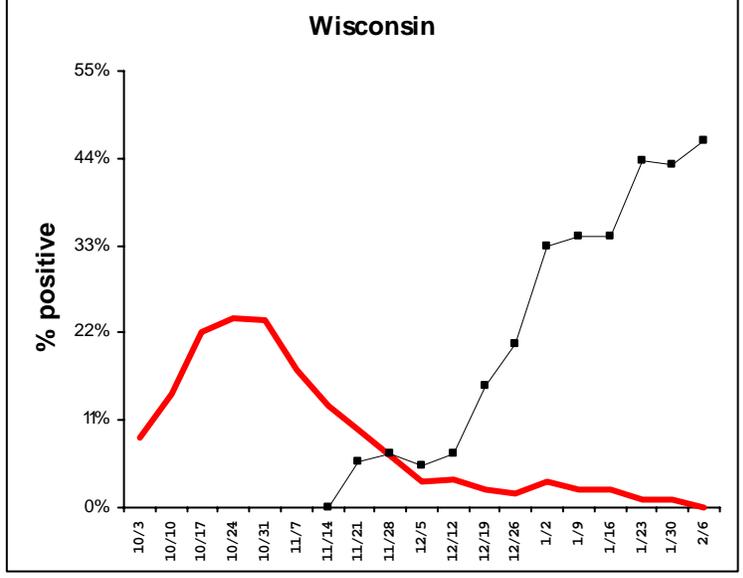
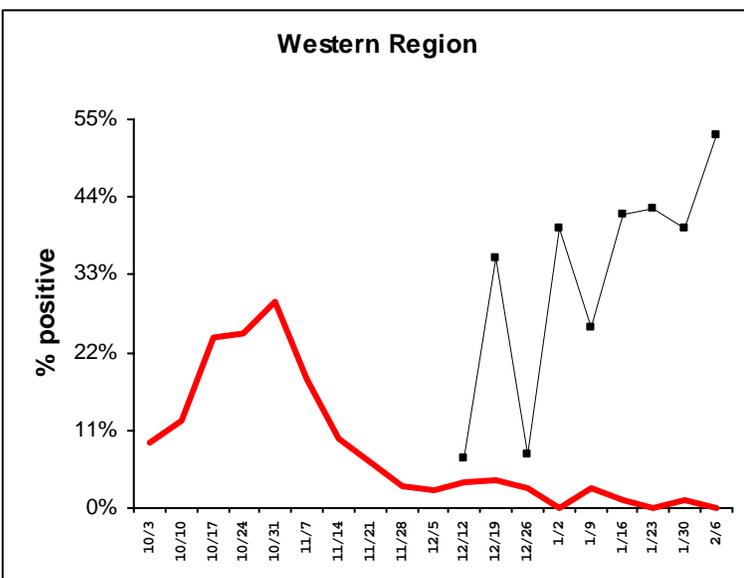
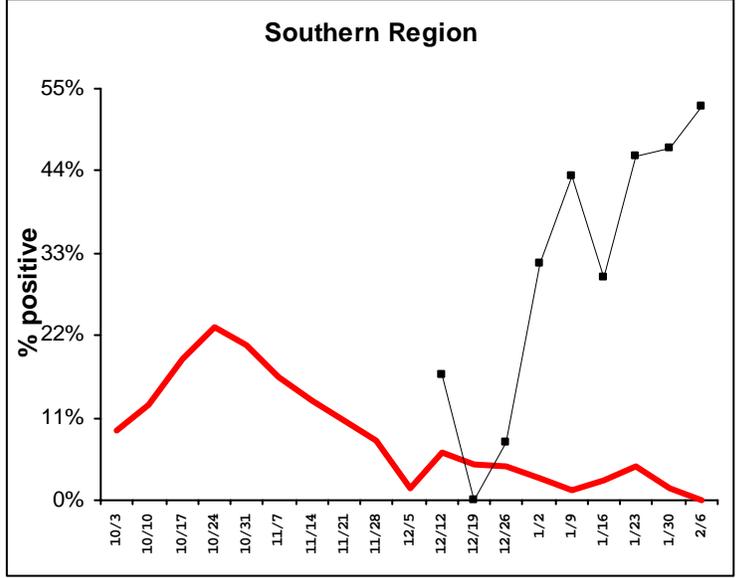
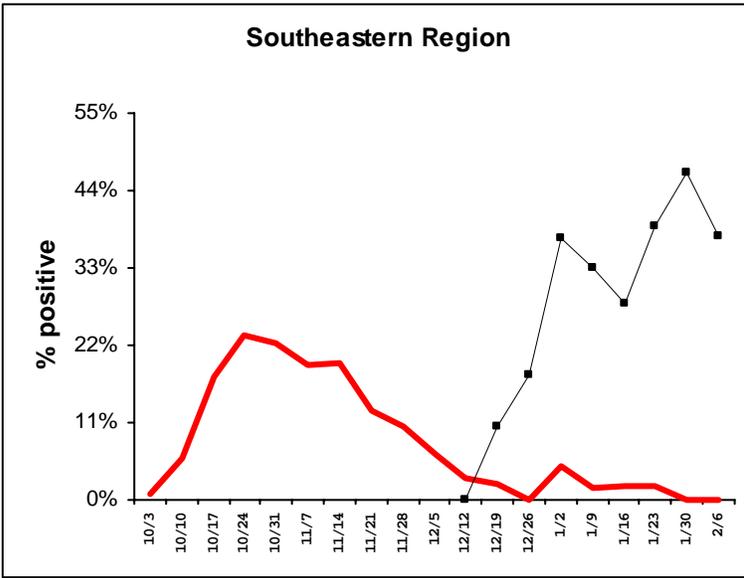
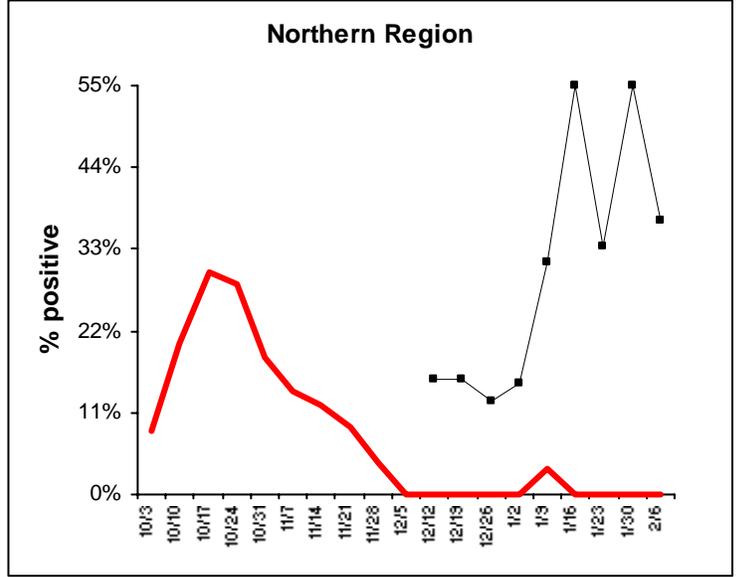
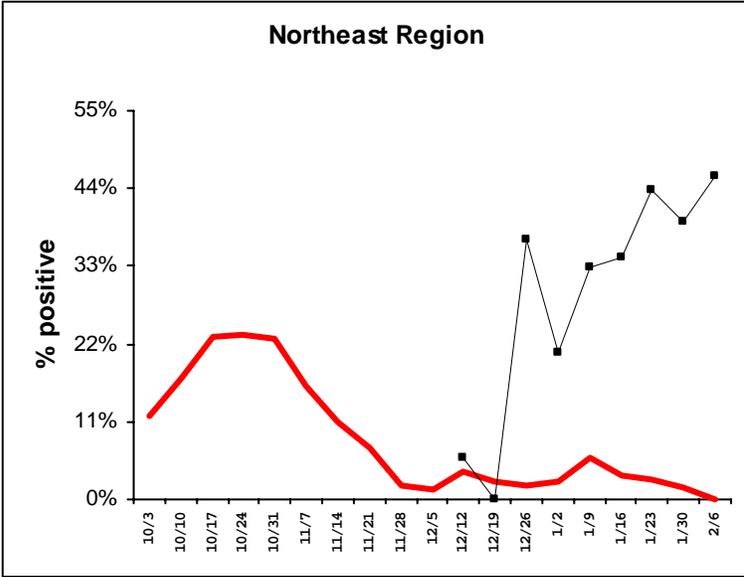


RAPID TEST SITE DATA (CHART) BY REGION

Percent Positive Rapid Tests for Influenza and RSV

— Influenza

—■— RSV



INFLUENZA-LIKE ILLNESS DATA (CHART) BY REGION

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

— ILI % — Baseline % - - - - Threshold %

