DEPARTMENT OF HEALTH SERVICES
DIVISION OF PUBLIC HEALTH

Weekly Surveillance Report
For the Week Ending May 15, 2010 (week 10-19)

AT A GLANCE

1. Predominant respiratory viruses in Wisconsin:
Sporadic cases of RSV, Parainfluenza and Rhinovirus and 2009/H1N1

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

	Current Week 10-19	Previous Week 10-18
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 10-19	Baseline
United States	0.8%	2.3%
Wisconsin	0.1%	3.1%
Region V (WI, MN, IL, MI, OH)	0.5%	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: High
(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. CDC

Antiviral Resistance Testing Results on Samples Collected Since September 1, 2009.

	Viruses tested (n)	Resistant Viruses, Number (%) Oseltamivir	Viruses tested (n)	Resistant Viruses, Number (%) Zanamivir	Isolates tested (n)	Resistant Viruses, Number (%) Adamantanes
Seasonal Influenza A (H1N1)	1	1 (100.0)	0	0 (0)	1	0 (0)
Influenza A (H3N2)	13	0 (0)	0	0 (0)	14	14 (100.0)
Influenza B	23	0 (0)	0	0 (0)	N/A*	N/A*
2009 Influenza A (H1N1)	4,733	54†‡ (1.1)	1,819	0 (0)	1,830	1,826 (99.8)

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

	Current Week 10-19	2009-10 Season Total	Due to 2009 H1N1
United States	0	273	222
Wisconsin	0	4	4

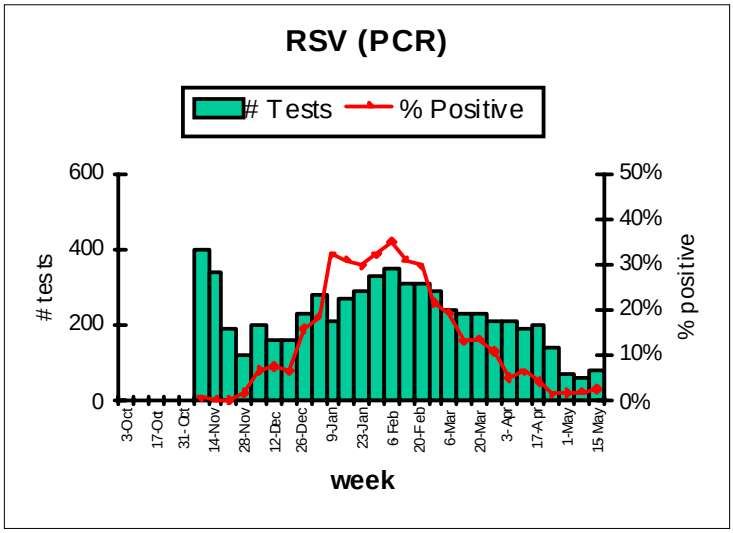
8. Pneumonia and influenza mortality (P&I), United States,

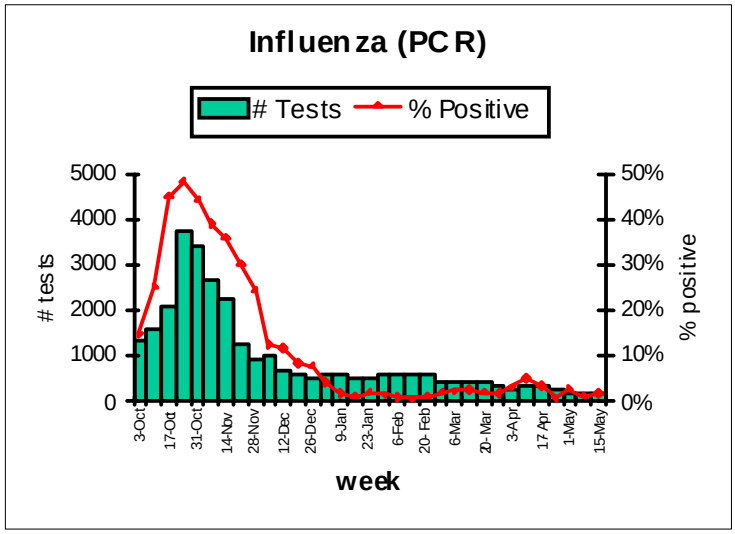
	Current Week 10-19	Previous Week 10-18
P&I %	7.1%	6.8%
National P&I threshold %	7.3%	7.4%

WISCONSIN LABORATORY SURVEILLANCE
For Influenza and other Respiratory Viruses (week 10-19)

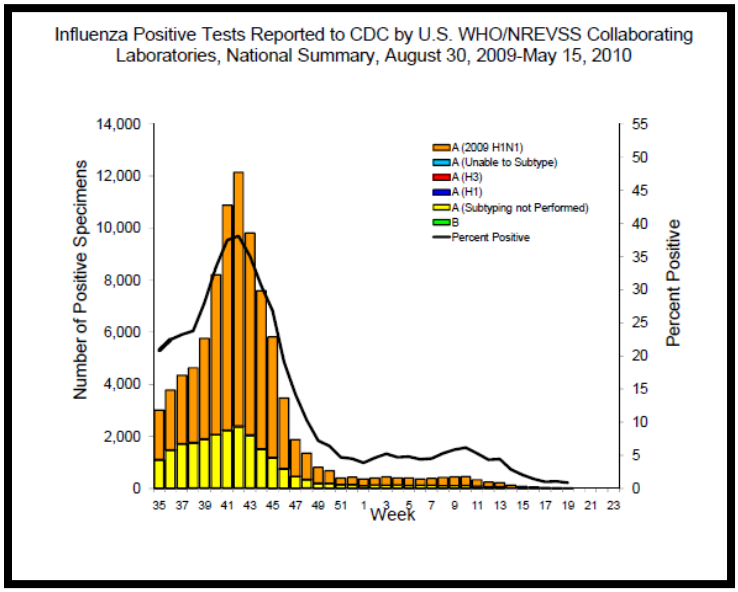
VIRUS CULTURE Based on 45 tests		RAPID TESTS			SELECT PCR TESTS	
Test Type	% Positive	Virus	# Tests	% Positive	Test Type	Positive/ total number
Total % Positive	8.8%					
Influenza (Tot.)	0.0%	Influenza (Tot)	89	0.0%	Influenza A & B	2/124
Influenza A	0.0%				Influenza A	0/0
Influenza B	0.0%	Influenza A		0.0%	# A/H1	0
					2009 A/H1	0
hMPV	0.0%	Influenza B		0.0%	# A/H3	0
					# A/not subtyped	2
		Influenza Unk.*		0.0%	# B	0
RSV	0.0%	RSV	52	8.0.%	RSV	2/83
Adenovirus	0.0%	Adenovirus	10	0.0%	Adenovirus	1/25
Parainfluenza	4.4%				Parainfluenza	9/72
					Corona OC43	0/22
Rhinovirus	4.4%	*Influenza unknown (Unk) are positive influenza test results that cannot be distinguished between Type A and B			Corona NL63	1/22
					Corona HUK1	0/22
Enterovirus	0.0%				Corona 229 E	0/22
					Rhinovirus/entero	4/25
hMPV	0.0%				hMPV	0/25

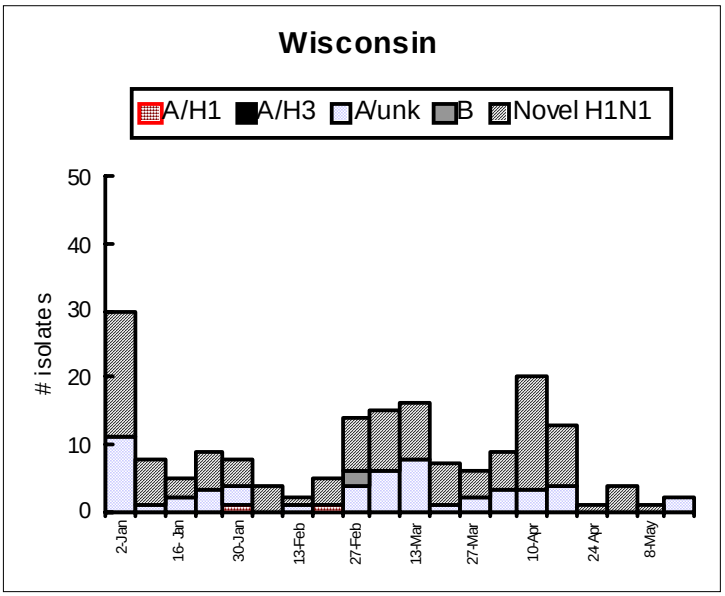
WISCONSIN TREND. RSV AND INFLUENZA PCR POSITIVE TESTS





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





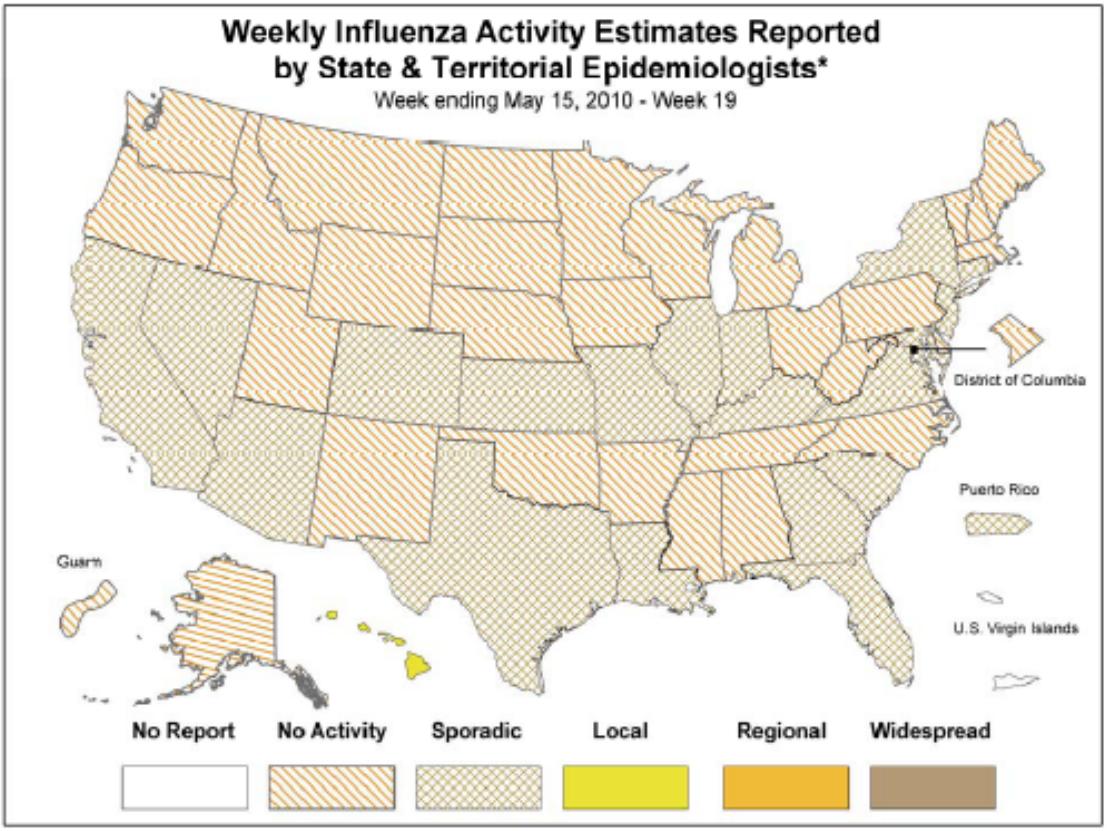
NATIONAL SUMMARY
(Wisconsin is in Region 5)

Current week 10-19

National and Regional Summary of Select Surveillance Components

	Data for current week			Data cumulative since August 30, 2009 (Week 35)*						
HHS Surveillance Regions**	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	0.9%	0 of 54	34	70	66,848	287	22,612	355	273
Region 1	Normal	2.1%	0 of 6	4	5	3,419	14	503	12	6
Region 2	Normal	0.5%	0 of 4	8	7	1,824	0	2,409	14	19
Region 3	Normal	0.3%	0 of 6	3	13	10,724	48	1,453	18	15
Region 4	Normal	2.1%	0 of 8	0	8	9,901	94	4,744	94	52
Region 5	Normal	0.7%	0 of 6	8	25	9,518	46	1,584	22	36
Region 6	Normal	0.8%	0 of 5	2	3	5,210	19	5,570	100	73
Region 7	Normal	0.7%	0 of 4	3	2	3,306	3	849	9	8
Region 8	Normal	1.0%	0 of 6	4	2	9,889	0	3,948	56	16
Region 9	Normal	1.3%	0 of 5	0	4	8,364	49	1,204	24	38
Region 10	Normal	0.0%	0 of 4	2	1	4,693	14	348	6	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.

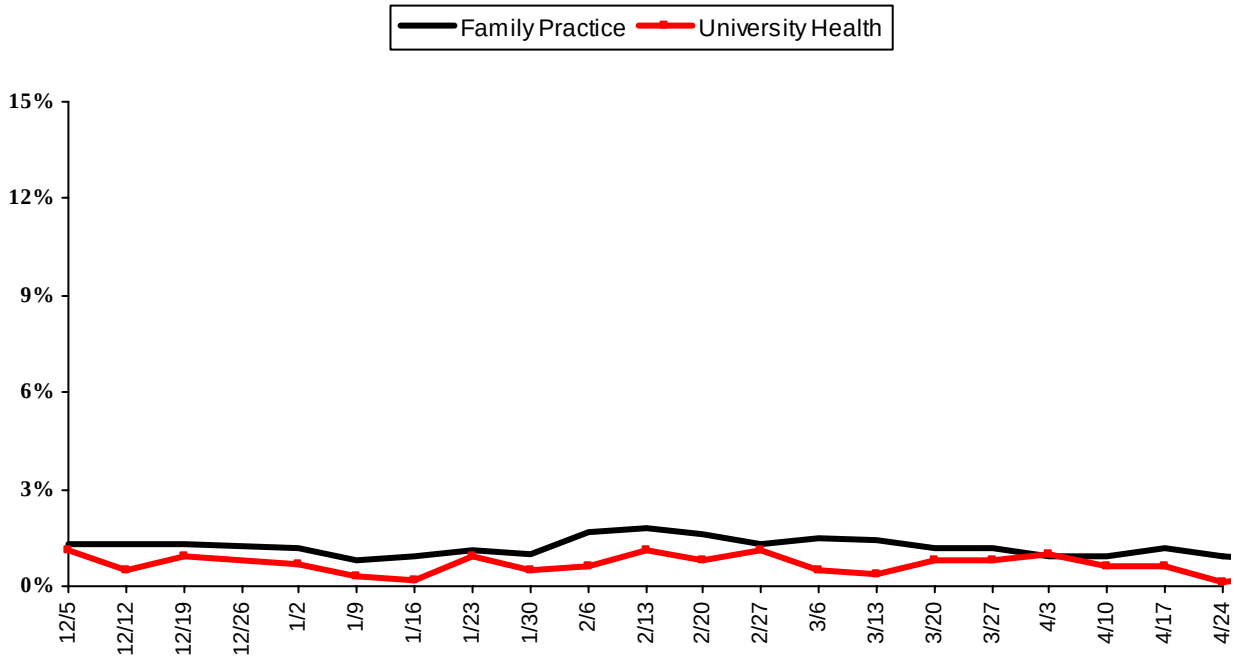


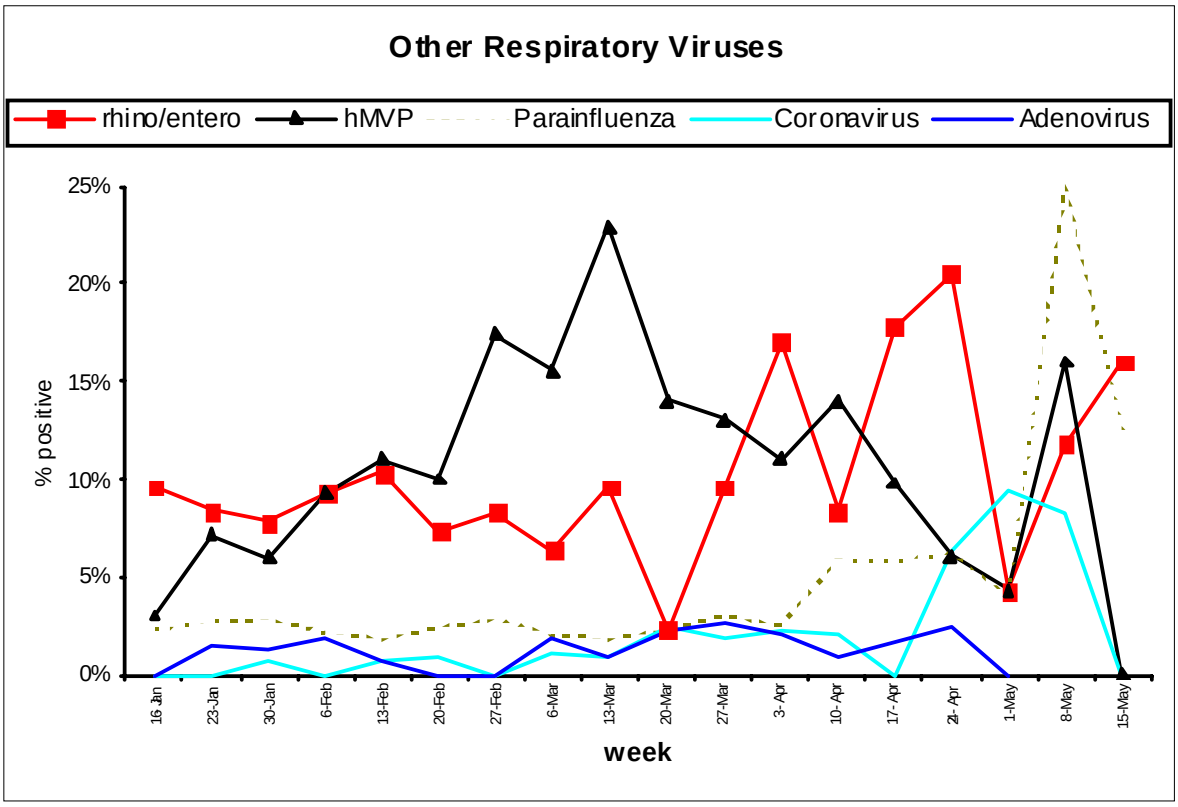
* This map indicates geographic spread & does not measure the severity of influenza activity

ILI Activity Statewide

Family Practice Clinicians and University Student Health Clinicians

December 5, 2009 to present

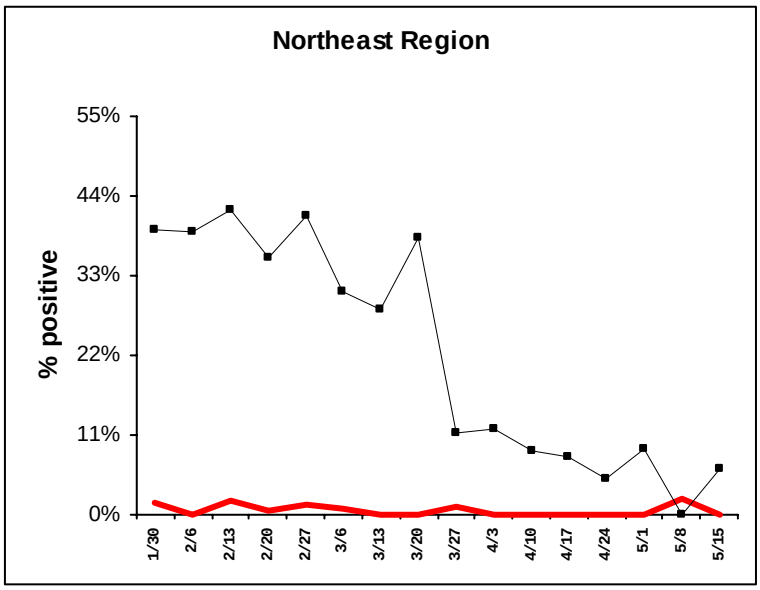


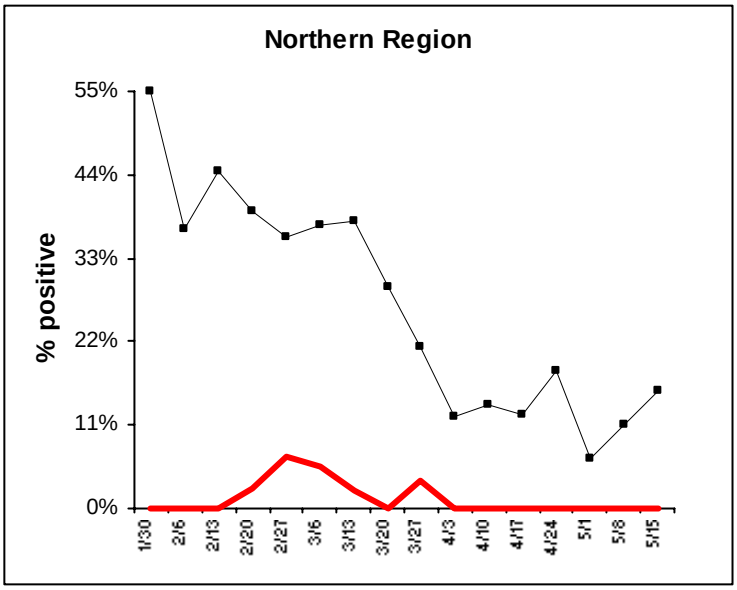


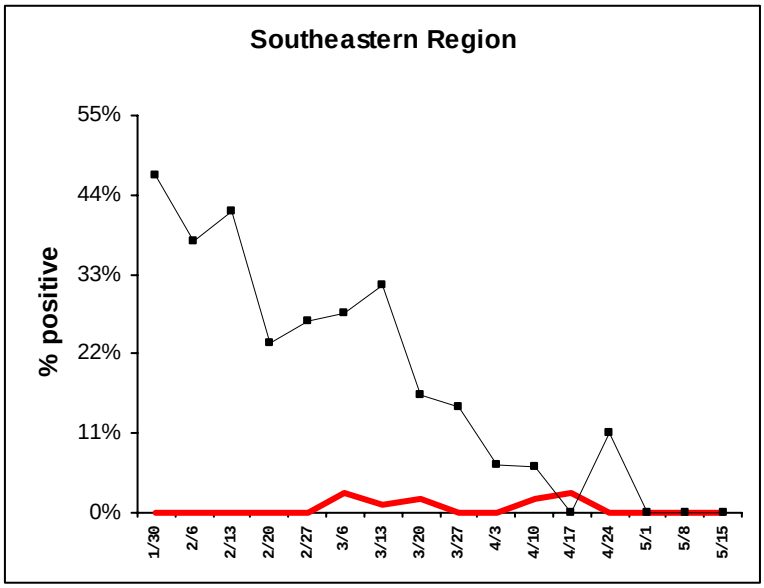
RAPID TEST SITE DATA (CHART) BY REGION

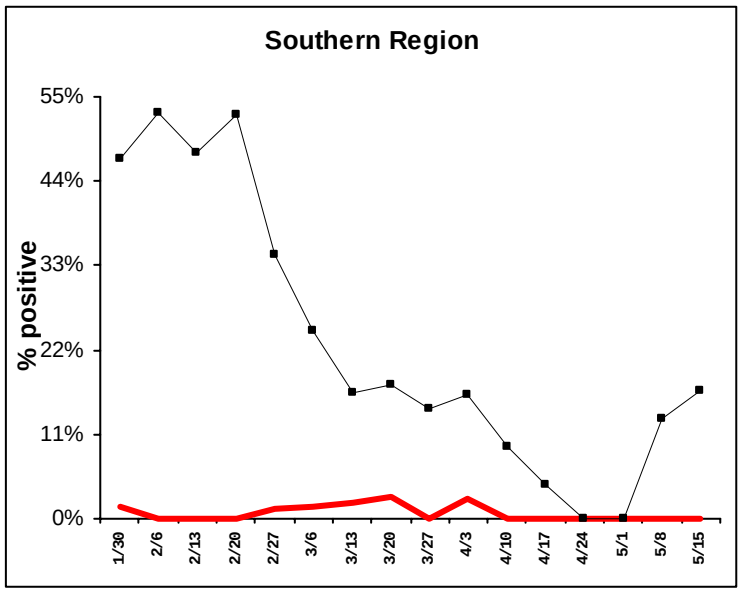
Percent Positive Rapid Tests for Influenza and RSV

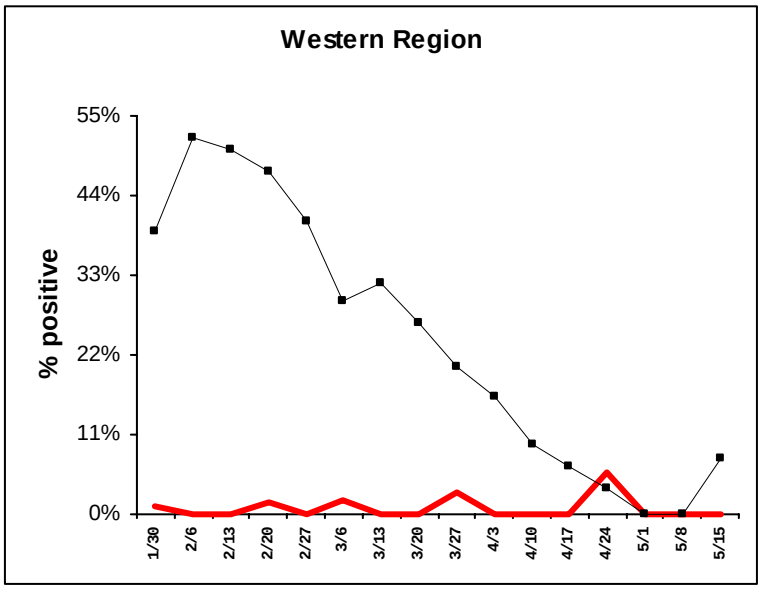
Influenza RSV

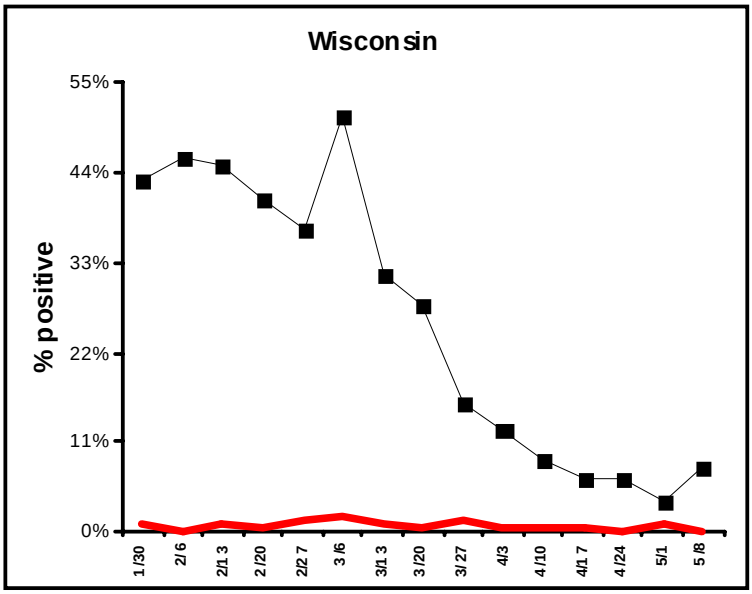




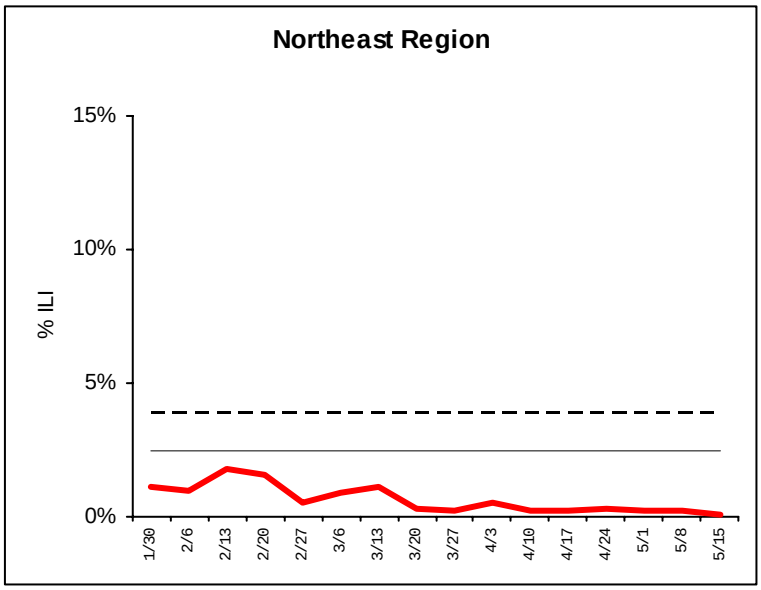
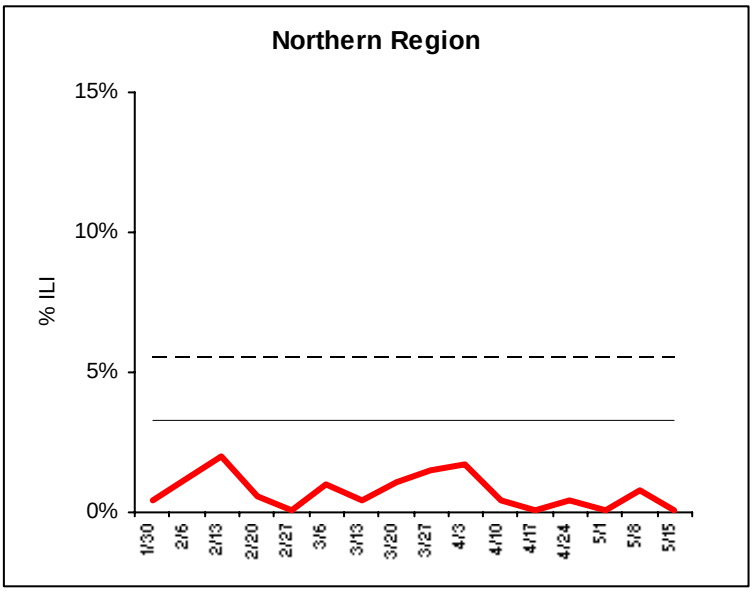
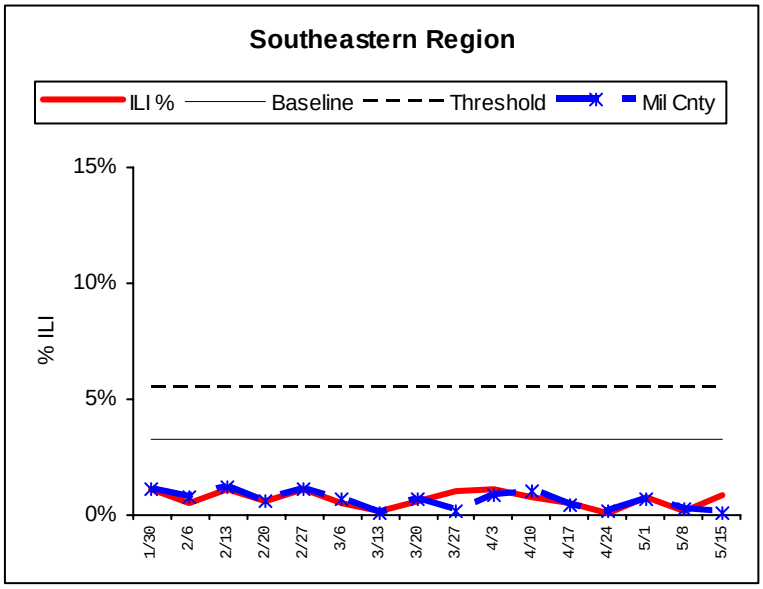
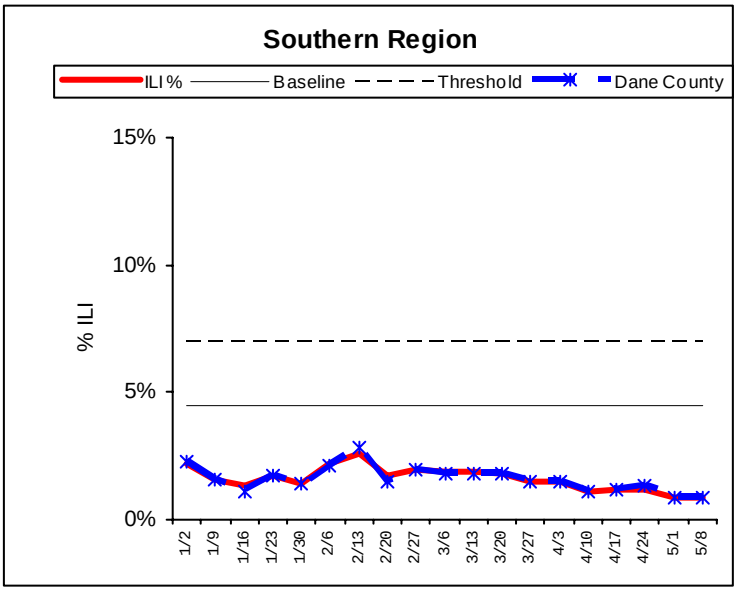
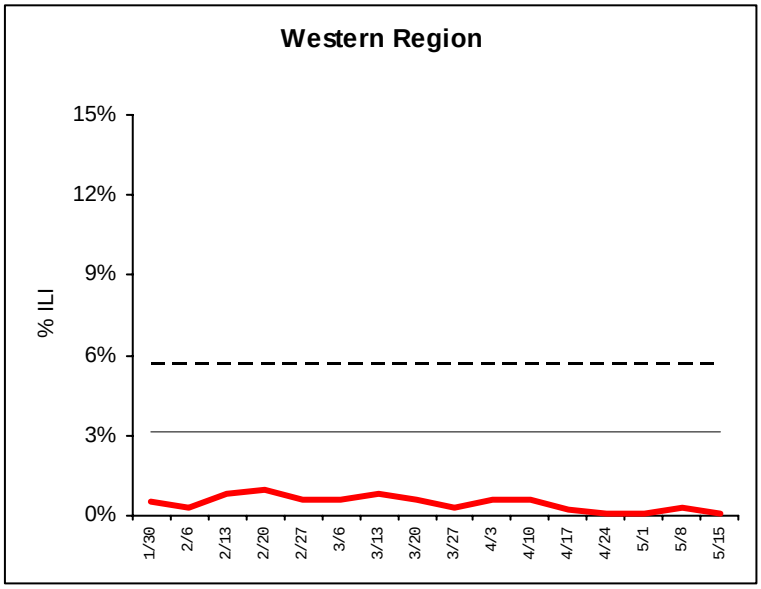
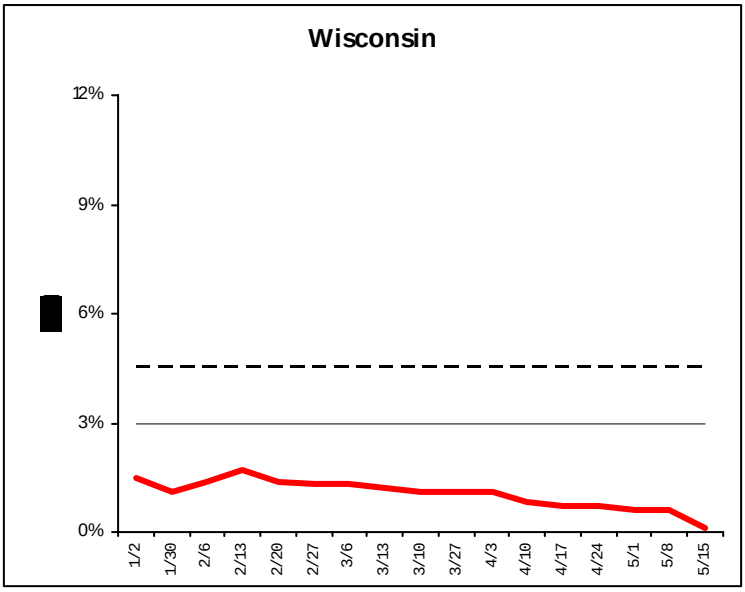








INFLUENZA-LIKE ILLNESS DATA (CHART) BY REGION

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

ILI % — Baseline % — Threshold %