DEPARTMENT OF HEALTH SERVICES
DIVISION OF PUBLIC HEALTH

Weekly Surveillance Report
For the Week Ending March 27, 2010 (week 10-12)

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 10-12	Previous Week 10-11
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 10-12	Baseline
United States	1.6%	2.3%
Wisconsin	1.1%	3.1%
Region V (WI, MN, IL, MI, OH)	0.8%	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. Antiviral resistance: (August 31 2009 –present) * State lab counts reflect tests on Wisconsin residents

ADAMANTANE RESISTANCE

Season/Lab		Influenza Subtype: Seasonal A/H1 Tested	Seasonal A/H1 Resistant	2009 A/H1N1 Tested	2009 A/H1N1 Resistant	A/H3 Tested	A/H3 Resistant
09-10	WSLH						
09-10	CDC	1	0%	1,604	99.8%	13	100.0%

OSELTAMIVIR RESISTANCE

Season/Lab		Influenza Subtype: Seasonal A/H1 Tested	Seasonal A/H1 Resistant	2009 A/H1N1 Tested	2009 A/H1N1 Resistant	A/H3 Tested	A/H3 Resistant	B Tested	B Resistant
09-10	WSLH			85	0%				
09-10	CDC	1	100%	4,289	1.2%	13	0%	23	0%

ZANAMIVIR RESISTANCE

Season/Lab		Influenza Subtype: Seasonal A/H1 Tested	Seasonal A/H1 Resistant	2009 A/H1N1 Tested	2009 A/H1N1 Resistant	A/H3 Tested	A/H3 Resistant	B Tested	B Resistant
09-10	CDC			1,617	0%				

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

	Current Week 10-09	2009-10 Season Total	Due to 2009 H1N1
United States	1	269	219
Wisconsin	0	4	4

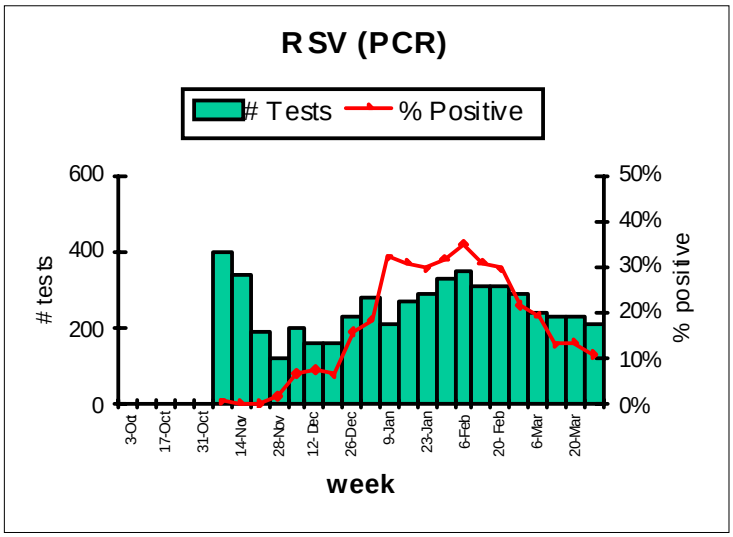
8. Pneumonia and influenza mortality (P&I), United States,

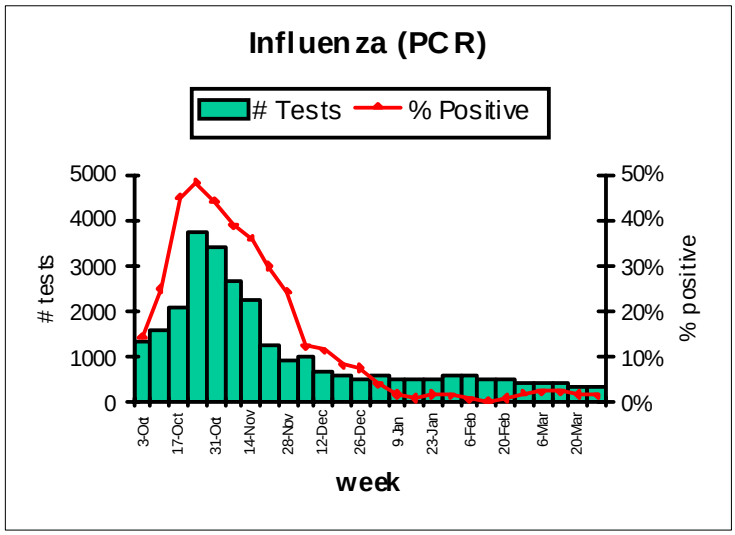
	Current Week 10-12	Previous Week 10-11
P&I %	7.9%	7.7%
National P&I threshold %	7.8%	7.8%

WISCONSIN LABORATORY SURVEILLANCE
For Influenza and other Respiratory Viruses (week 10-12)

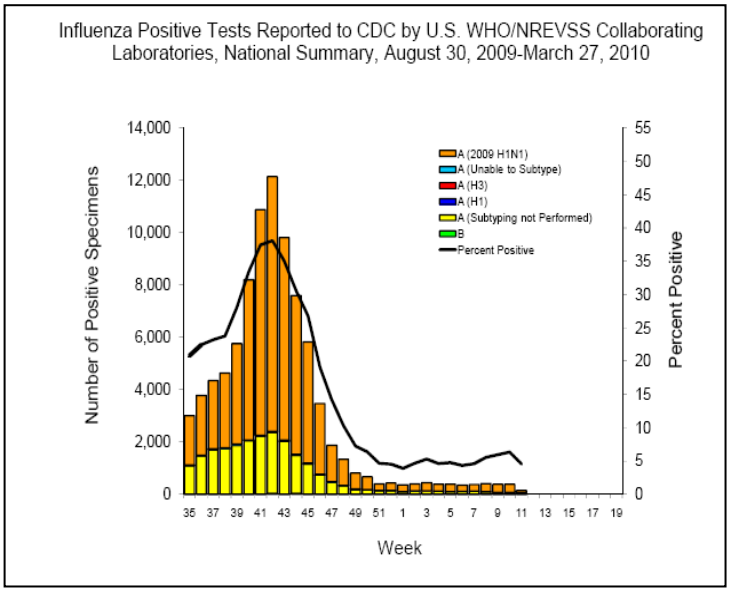
VIRUS CULTURE Based on 69 tests		RAPID TESTS			SELECT PCR TESTS	
Test Type	% Positive	Virus	# Tests	% Positive	Test Type	Positive/ total number
Total % Positive	7.2%					
Influenza (Tot.)	1.4%	Influenza (Tot)	300	1.0%	Influenza A & B	5/318
Influenza A	1.4%				Influenza A	0/1
Influenza B	0.0%	Influenza A		1.0%	# A/H1	0
					2009 A/H1	4
hMPV	0.0%	Influenza B		0.0%	# A/H3	0
					# A/not subtyped	1
		Influenza Unk.*		0.0%	# B	0
RSV	2.9%	RSV	225	16.4%	RSV	22/205
Adenovirus	2.9%	Adenovirus	11	0.0%	Adenovirus	3/115
Parainfluenza	0.0%				Parainfluenza	5/168
					Corona OC43	0/111
Rhinovirus	0.0%	*Influenza unknown (Unk) are positive influenza test results that cannot be distinguished between Type A and B			Corona NL63	1/111
					Corona HUK1	1/111
Enterovirus	0.0%				Rhinovirus	11/114
hMPV	0.0%				hMPV	15/115

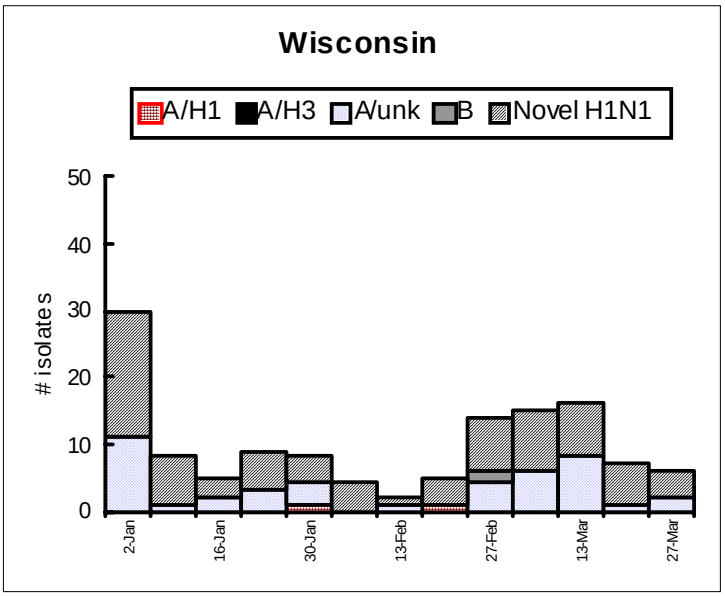
WISCONSIN TREND. RSV AND INFLUENZA PCR POSITIVE TESTS





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



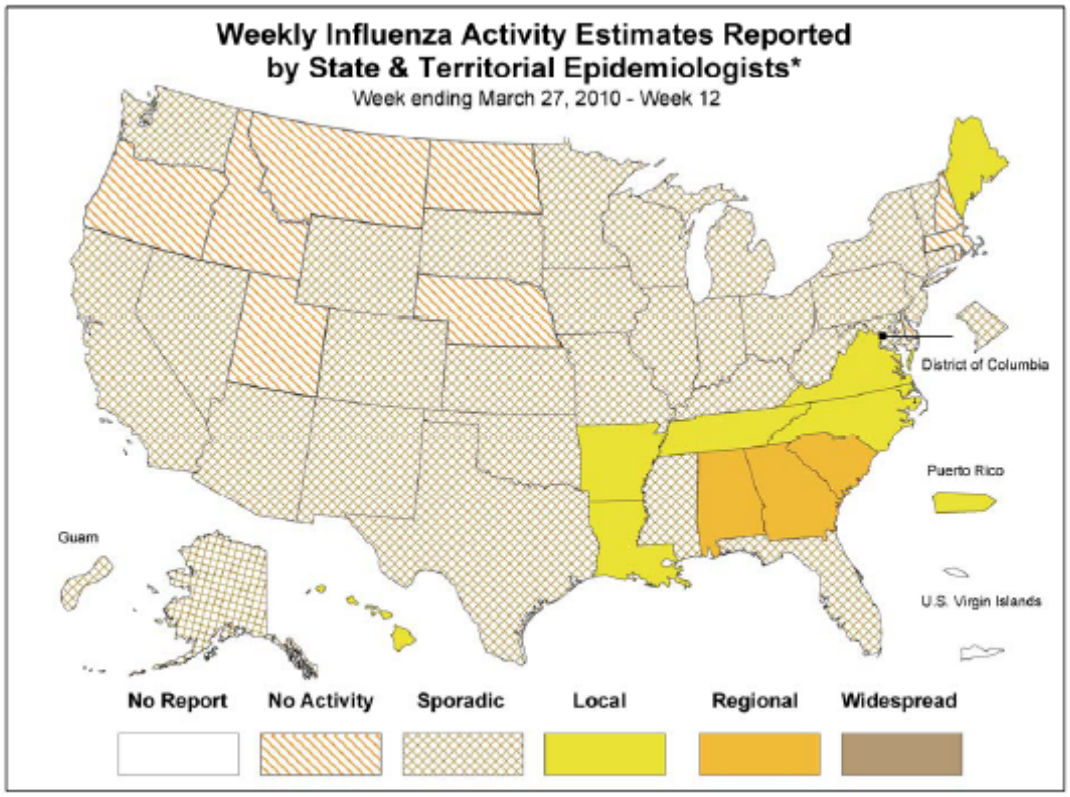


NATIONAL SUMMARY
(Wisconsin is in Region 5)
Current week 10-12

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	3.5%	3 of 54	35	65	66,589	289	22,320	287	269
Region 1	Normal	0.6%	0 of 6	4	4	3,402	14	503	11	6
Region 2	Normal	1.0%	0 of 4	8	6	1,797	0	2,394	12	19
Region 3	Normal	2.1%	0 of 6	3	11	10,697	48	1,453	18	14
Region 4	Normal	13.8%	3 of 8	1	8	9,950	95	4,645	87	51
Region 5	Normal	2.6%	0 of 6	8	25	9,479	47	1,577	19	36
Region 6	Normal	6.0%	0 of 5	2	3	5,137	19	5,372	54	71
Region 7	Normal	6.2%	0 of 4	3	1	3,261	3	849	9	8
Region 8	Normal	1.4%	0 of 6	4	2	9,851	0	3,936	56	16
Region 9	Elevated	0.9%	0 of 5	0	4	8,335	49	1,244	18	38
Region 10	Normal	0.5%	0 of 4	2	1	4,680	14	347	3	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.

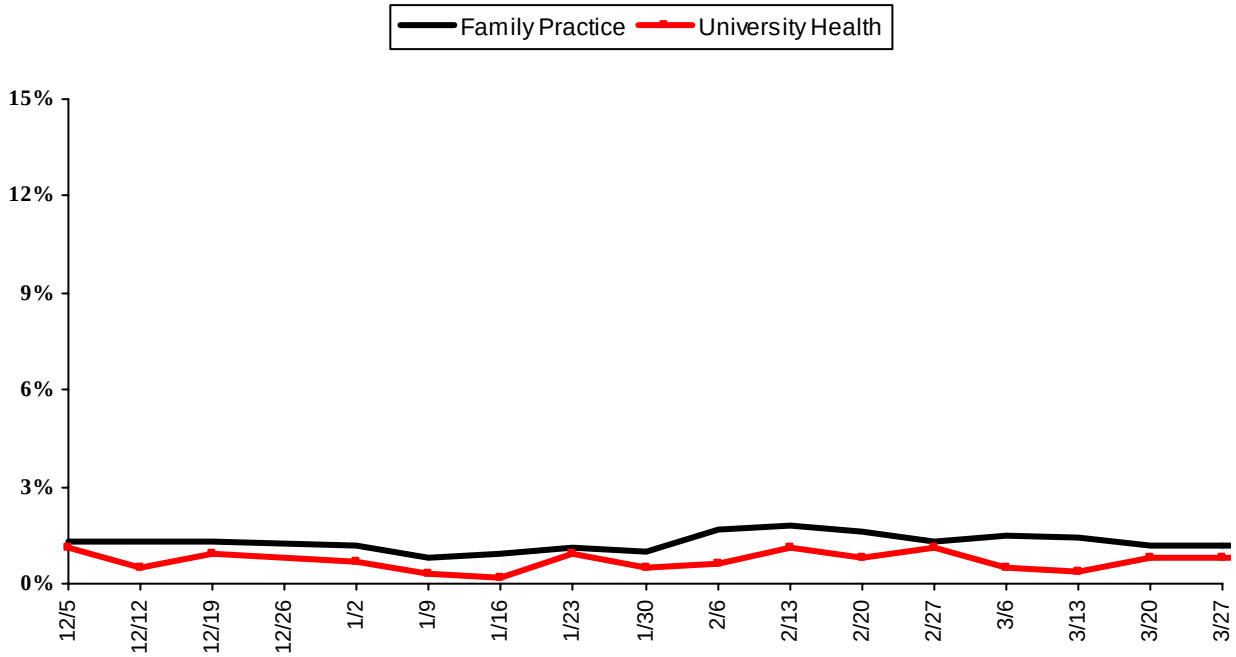


* This map indicates geographic spread & does not measure the severity of influenza activity

ILI Activity Statewide

Family Practice Clinicians and University Student Health Clinicians

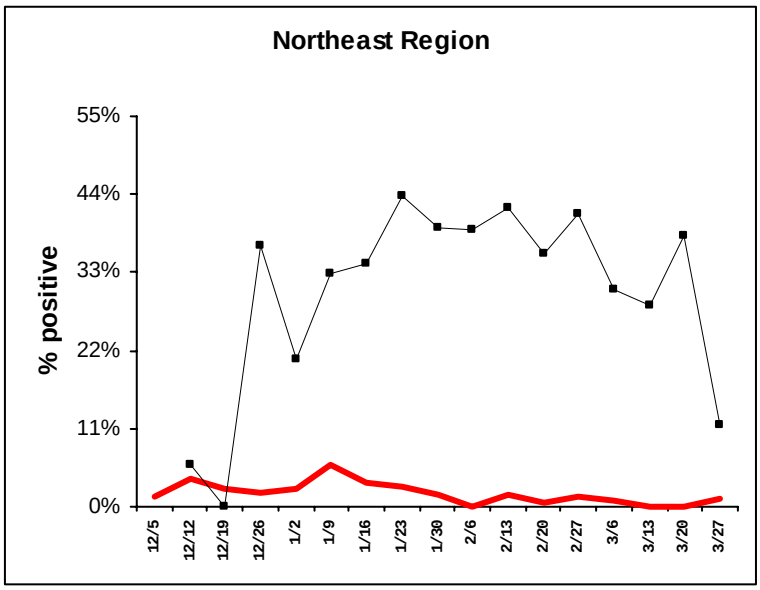
December 5, 2009 to present

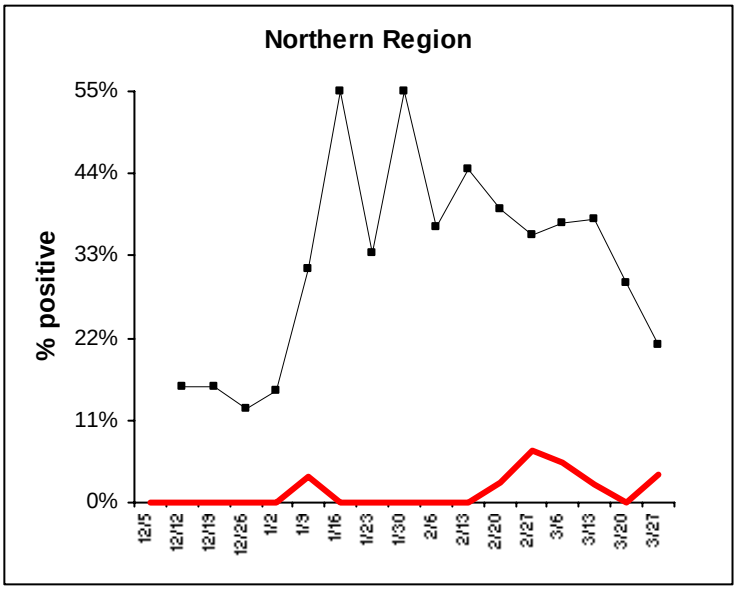


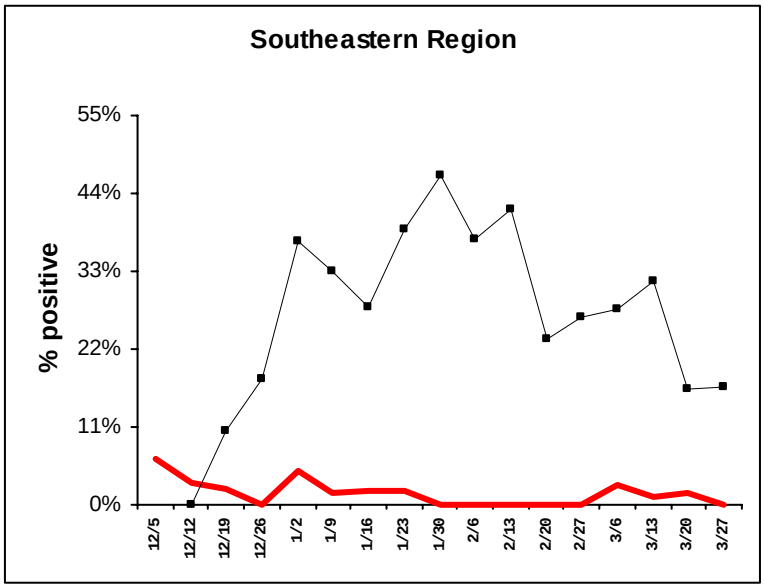
RAPID TEST SITE DATA (CHART) BY REGION

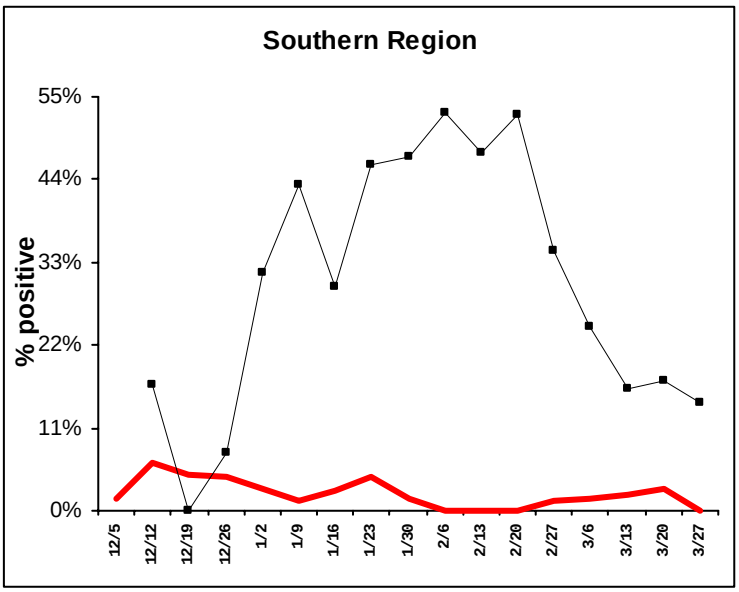
Percent Positive Rapid Tests for Influenza and RSV

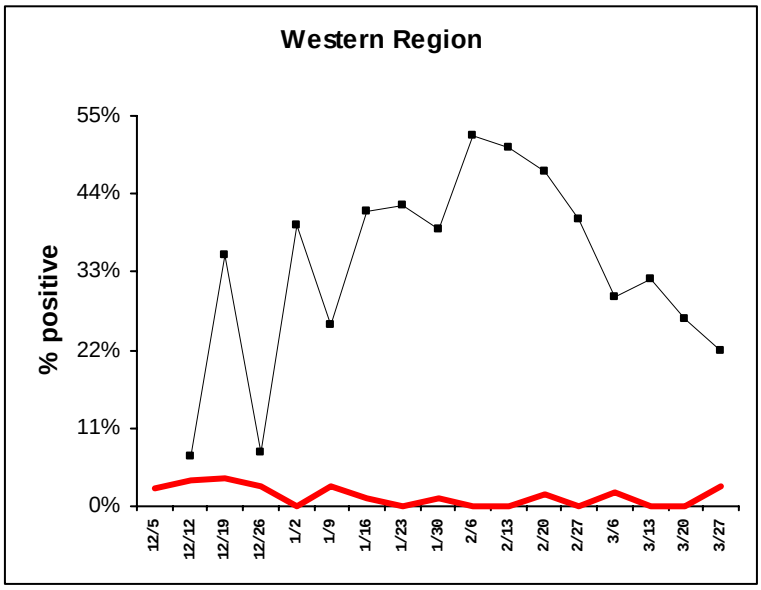
Influenza RSV

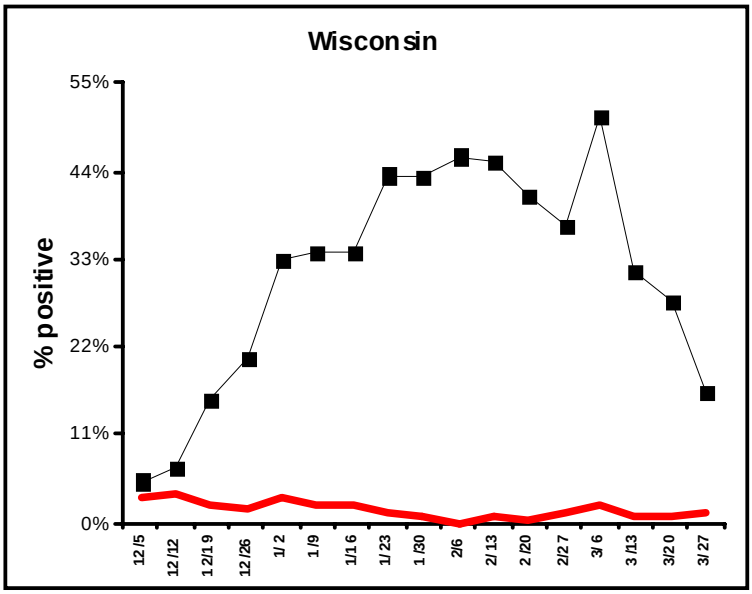






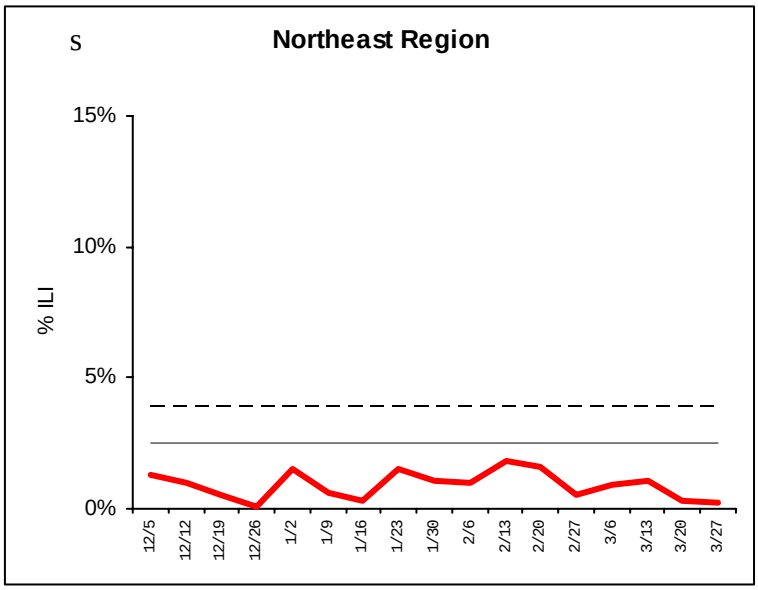
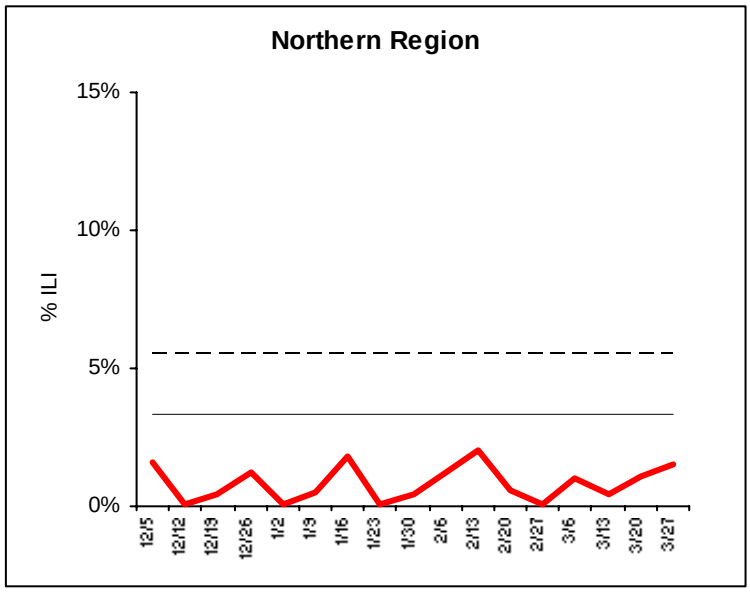
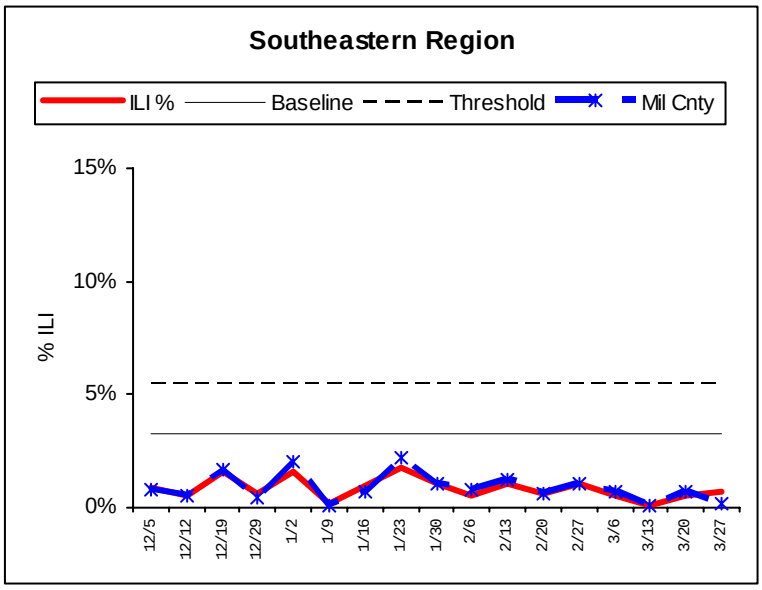
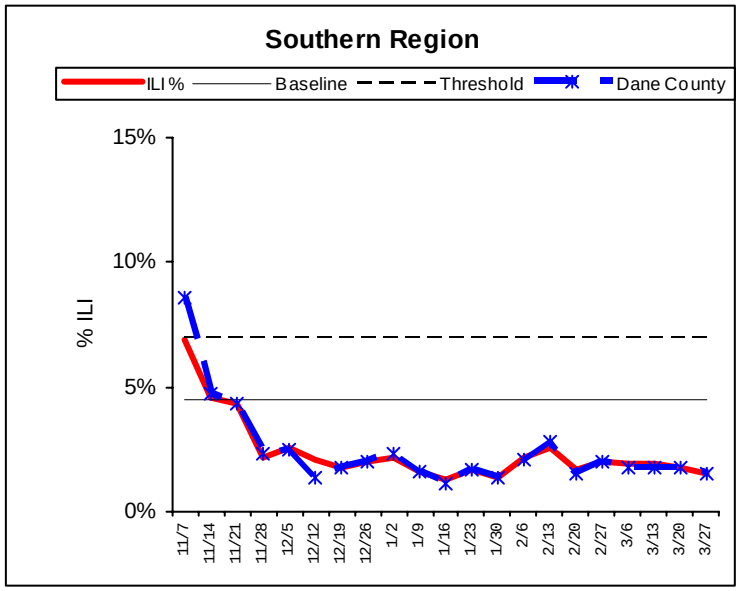
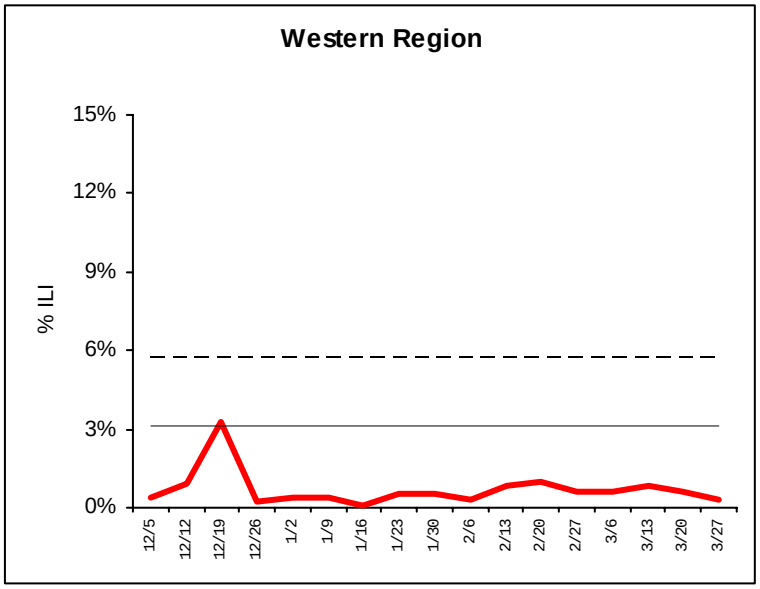
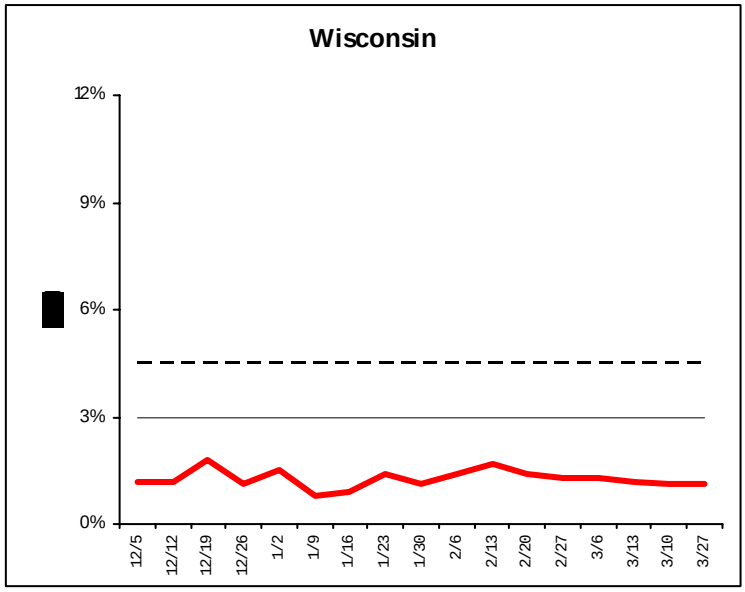






INFLUENZA-LIKE ILLNESS DATA (CHART) BY REGION

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

ILI % — Baseline % — Threshold %

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