SD 2017/2018 Influenza Weekly Summary
Week Ending December 23 (Week 51)

South Dakota DEPARTMENT OF HEALTH

Lab Confirmed Cases	Dec 17-23	Season to Date
Type A, H1	0	0
Type A, H3	13	69
Type A, Unspecified	98	315
Type B Unspecified	10	33
B Yamagata	0	4
B Victoria	0	0
Total	121	421

Rapid Antigen Tests (45) sites reporting	Dec 17-23	Season to Date
Total Tested	702	6,294
Total Positive	122 (103A/19B)	556 (460A/96B)
% Rapid Antigen Tests Positive	17.4%	8.8%

	Dec 17-23	Season to Date
Hospitalizations	19	68
Deaths	1	2
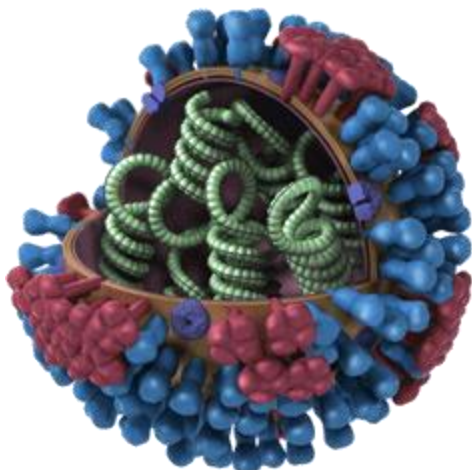
3D Influenza Virus

SD Influenza Geographic: Widespread
SD Influenza Severity :   Low

US Influenza Activity: http://www.cdc.gov/flu/weekly/fluactivitysurv.htm

International Flu Activity: http://www.cdc.gov/flu/weekly/intsurv.htm
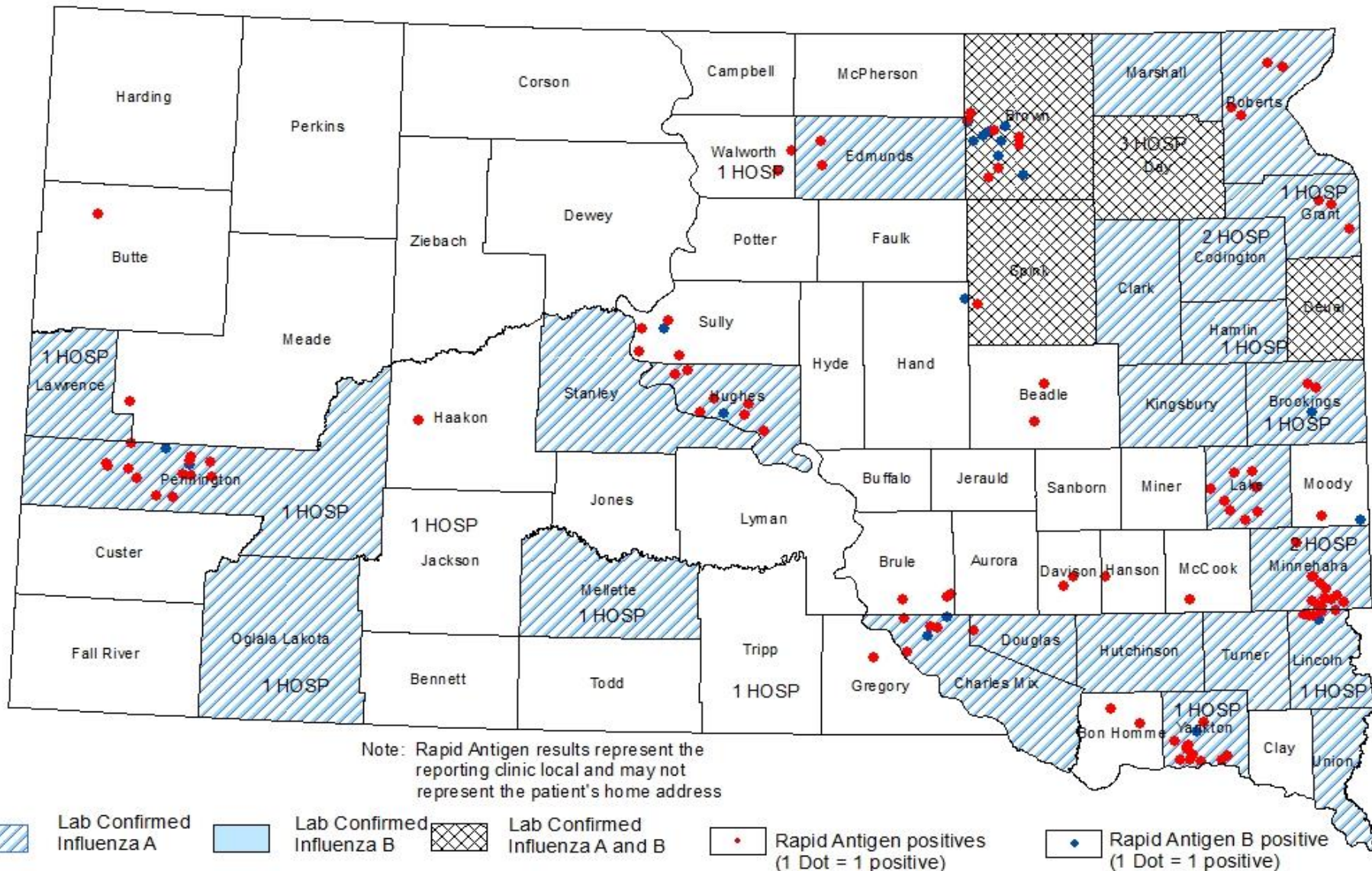
South Dakota Influenza information:
http://doh.sd.gov/diseases/infectious/flu/

2017-2018 Influenza Season Lab Confirmed Influenza cases*,
% Rapid Antigen Positive, & % School Absenteeism SD
* Confirmed by Culture, PCR, or DFA
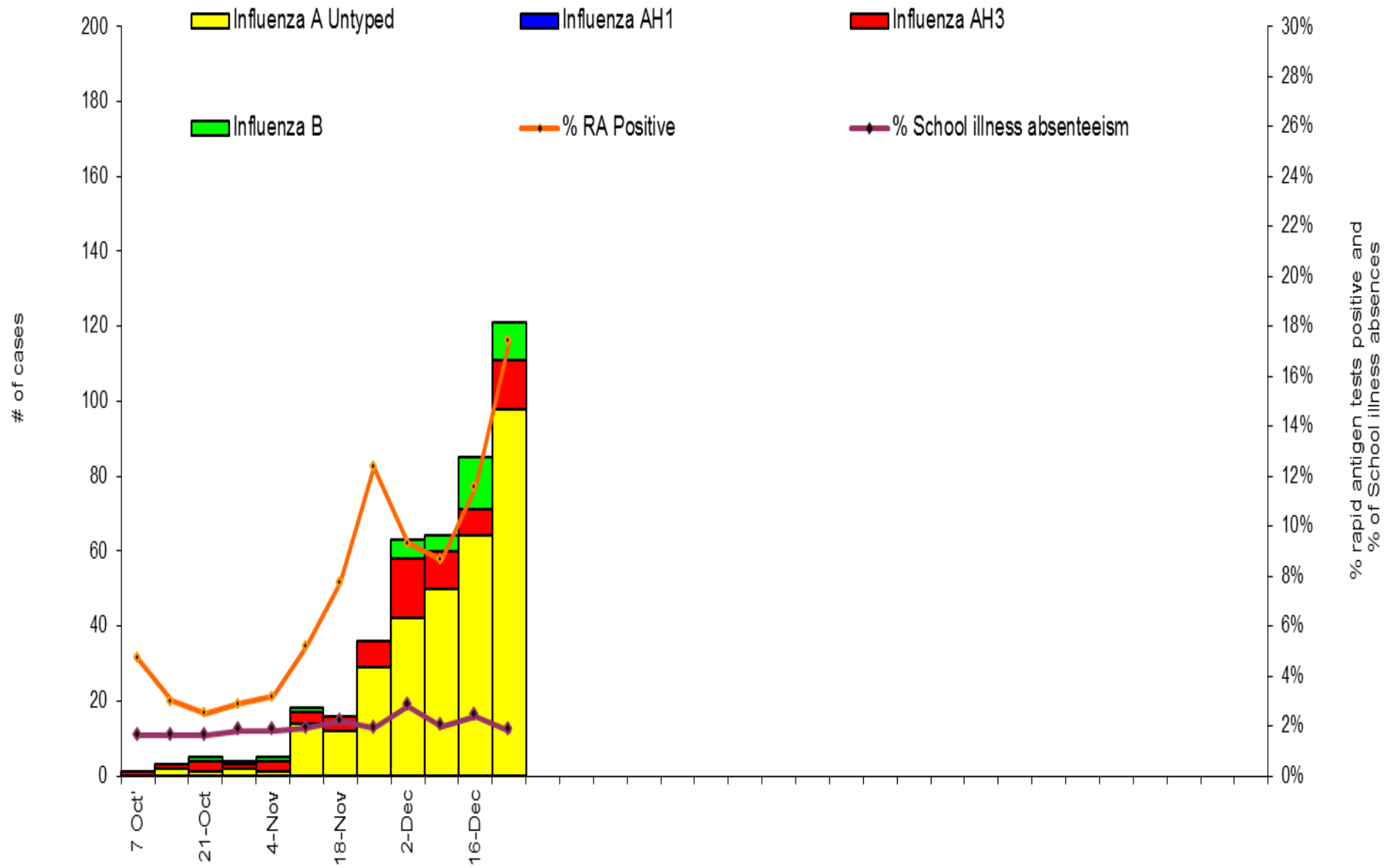
SD 2017/18 Influenza Weekly Summary
Week Ending December 23, 2017 (Provisional Data)

Harding

Perkins

Corson

Campbell

McPherson

Marshall

Roberts

Butte

Walworth

1 HOSP

Edmunds

Brown

3 HOSP
Day

1 HOSP
Grant

Ziebach

Dewey

Potter

Faulk

Spink

Codington
2 HOSP

Clark

Deuel

Meade

Sully

Hyde

Hand

Beadle

Kingsbury

Hamlin
1 HOSP

Brookings
1 HOSP

Lawrence
1 HOSP

Stanley

Hughes

Haakon

Pennington
1 HOSP

Jones

1 HOSP
Jackson

Lyman

Buffalo

Jerauld

Sanborn

Miner

Lake

Moody

Custer

Mellette
1 HOSP

Brule

Aurora

Davison

Hanson

McCook

Minnehaha
2 HOSP

Fall River

Oglala Lakota
1 HOSP

Bennett

Todd

Tripp
1 HOSP

Gregory

Charles Mix

Douglas

Hutchinson

Turner

Lincoln
1 HOSP

Bon Homme

1 HOSP
Yankton

Clay

Union

Note: Rapid Antigen results represent the reporting clinic local and may not represent the patient's home address

Lab Confirmed Influenza A

Lab Confirmed Influenza B

Lab Confirmed Influenza A and B

Rapid Antigen positives (1 Dot = 1 positive)

Rapid Antigen B positive (1 Dot = 1 positive)

Age distribution of influenza-associated deaths and hospitalizations, and confirmed* cases, South Dakota (cumulative to-date for 2017-2018 season).

Age Group	Deaths (%)	Hospitalized (%)	Confirmed* cases (%)
0-4 yrs.	0	2 (3%)	42 (10%)
5-18 yrs.	0	2 (3%)	93 (22%)
19-49 yrs.	0	6 (9%)	102 (24%)
50-64 yrs.	0	8 (12%)	63 (15%)
>64 yrs.	2 (100%)	50 (74%)	121 (29%)
TOTAL	2	68	421

*Confirmed by PCR, culture or DFA

Influenza related hospitalizations and deaths
South Dakota, 2017-2018 Influenza Season
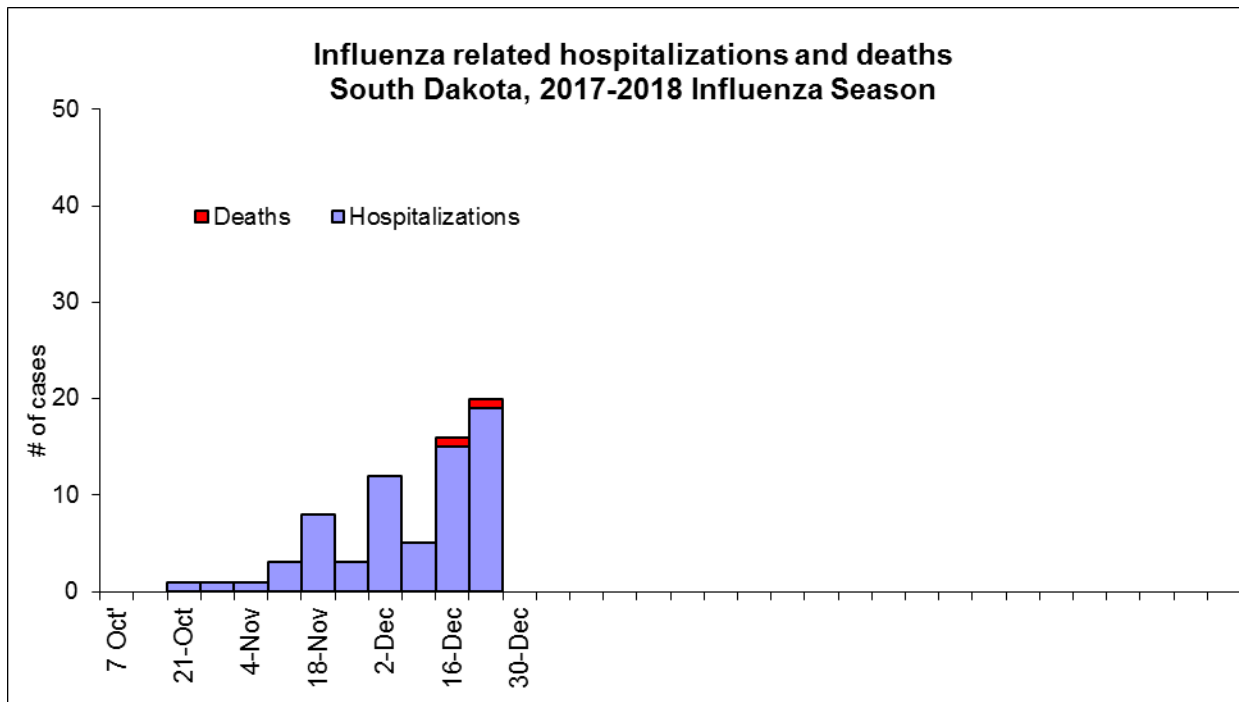
SD K-12 School Absenteeism due to illness

Region	All	W	C	NE	SE
# Schools Reporting	56	6	14	17	19
% Absent due to illness	1.8%	1.8%	2.1%	1.8%	1.6%

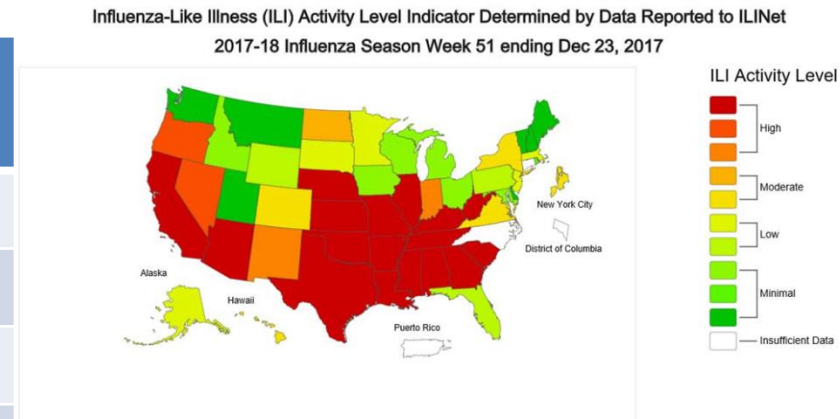5 schools had > 5% absent due to illness and the range was 0-10%
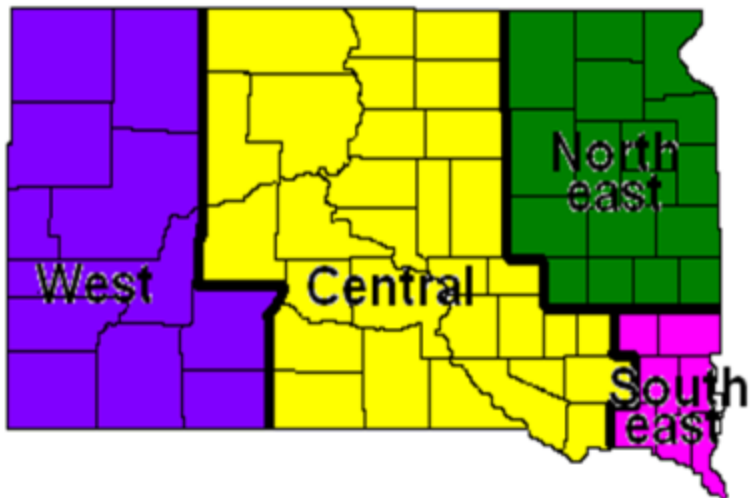
ILInet Surveillance

- ILInet: outpatient visits to providers are reported, including total number of patient visits and number of patients with Influenza Like Illness (ILI).
  - ILI defined as fever ≥ 100°F, PLUS cough and/or sore throat (Regional baseline 1.4%)
- SD ILInet providers: Aberdeen (2); Beresford; Brandon; Brookings (2); Canton; Chamberlain; Custer; Ipswich; Lead-Deadwood; Kennebec; Miller; Milbank; Mitchell (2); Pierre; Rapid City; Redfield; Sioux Falls (10); Spearfish; Sturgis; Vermillion; Watertown; and Winner

SD ILInet Data for past 5 Weeks

Week Ending	# ILI Patients by Age Group					Total ILI	Total Patient Visits	% ILI
	0-4	5-24	25-49	50-64	>64			
11/25	77	56	31	12	22	198	8,969	2.21%
12/2	72	97	27	16	18	230	10,762	2.14%
12/9	77	79	30	14	18	218	10,143	2.15%
12/16	84	67	78	7	13	198	9,278	2.13%
12/23	79	68	44	22	18	231	8,938	5.58%

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2017-18 Influenza Season Week 51 ending Dec 23, 2017

ILI Activity Level
- High
- Moderate
- Low
- Minimal
- Insufficient Data

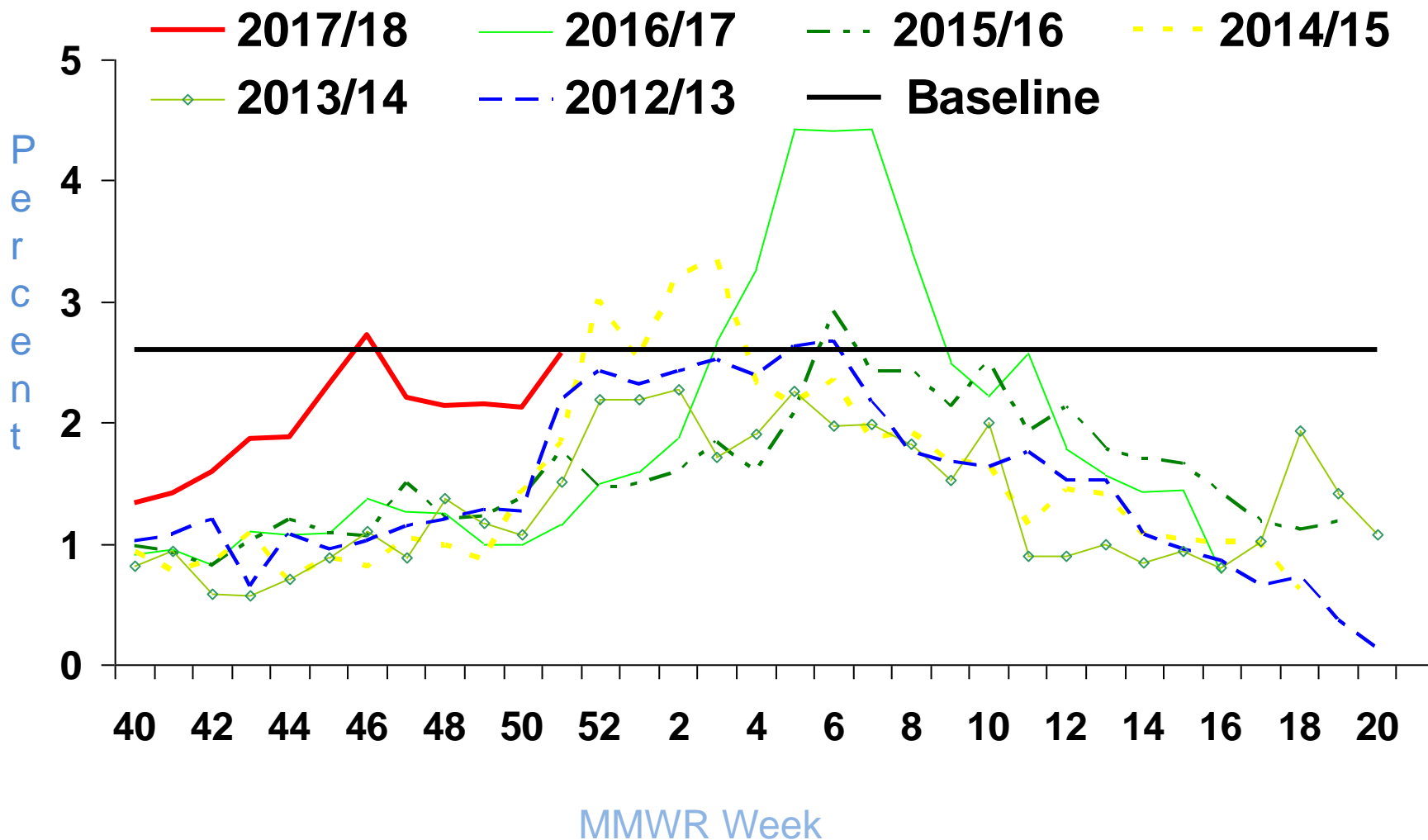# Influenza-like illness
Daily Syndromic Surveillance*
Criteria: Influenza-like illness (ILI) Fever plus cough and/or sore throat
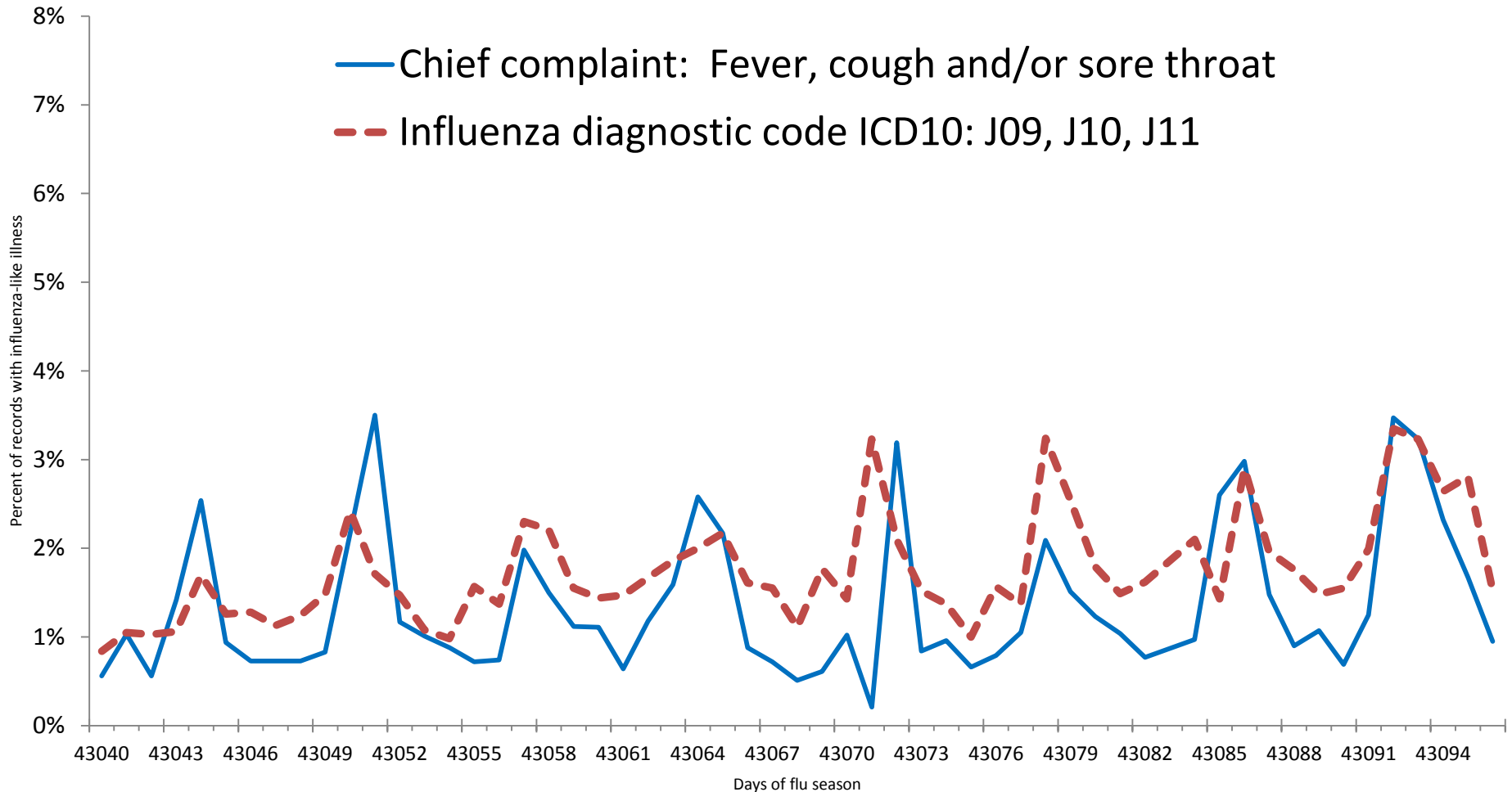
*Syndromic surveillance data is collected from 160 healthcare facilities in South Dakota

South Dakota ILINet Weekly Surveillance Percentage, 2012/13 to 2017/18 Influenza Seasons
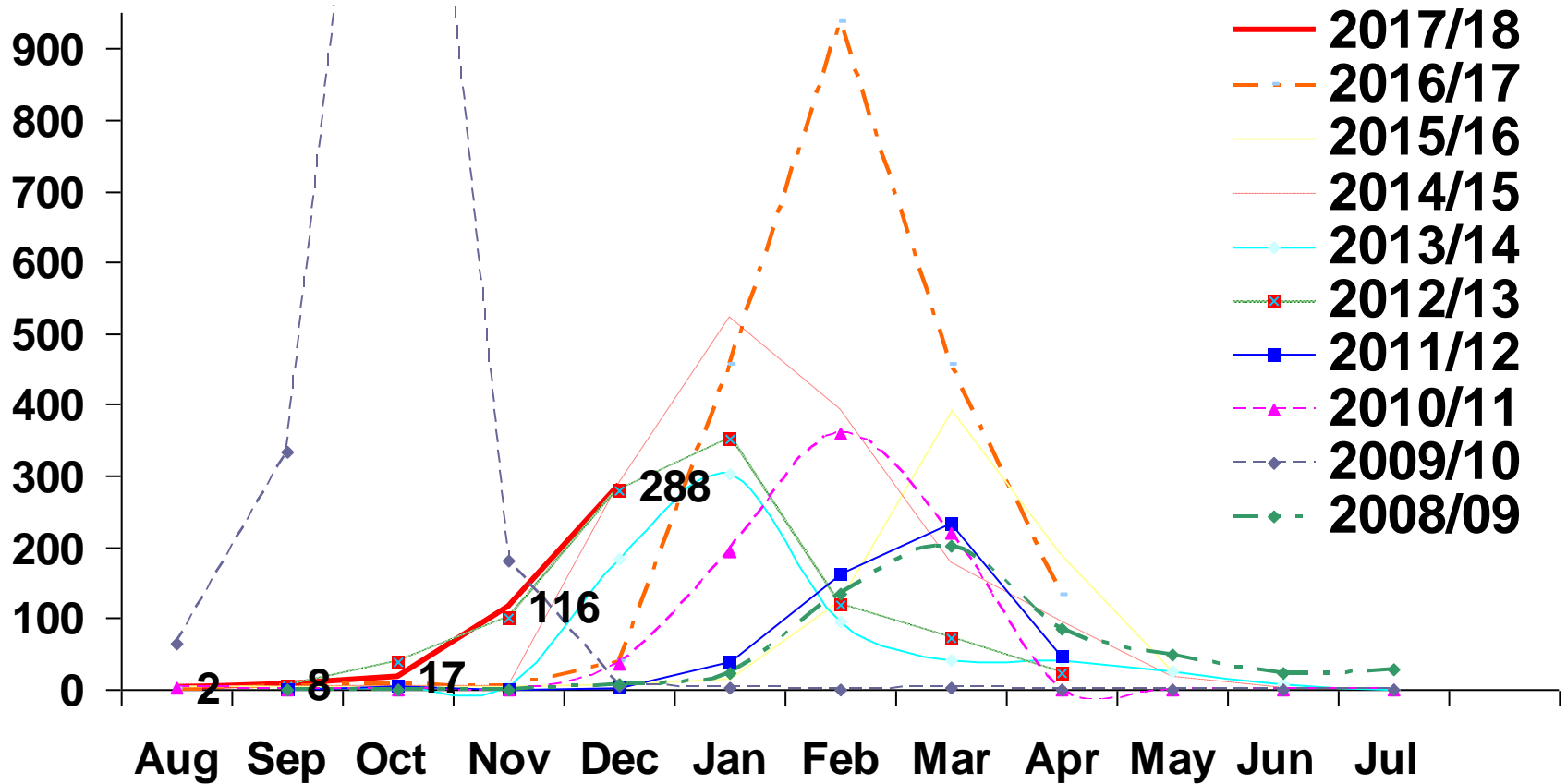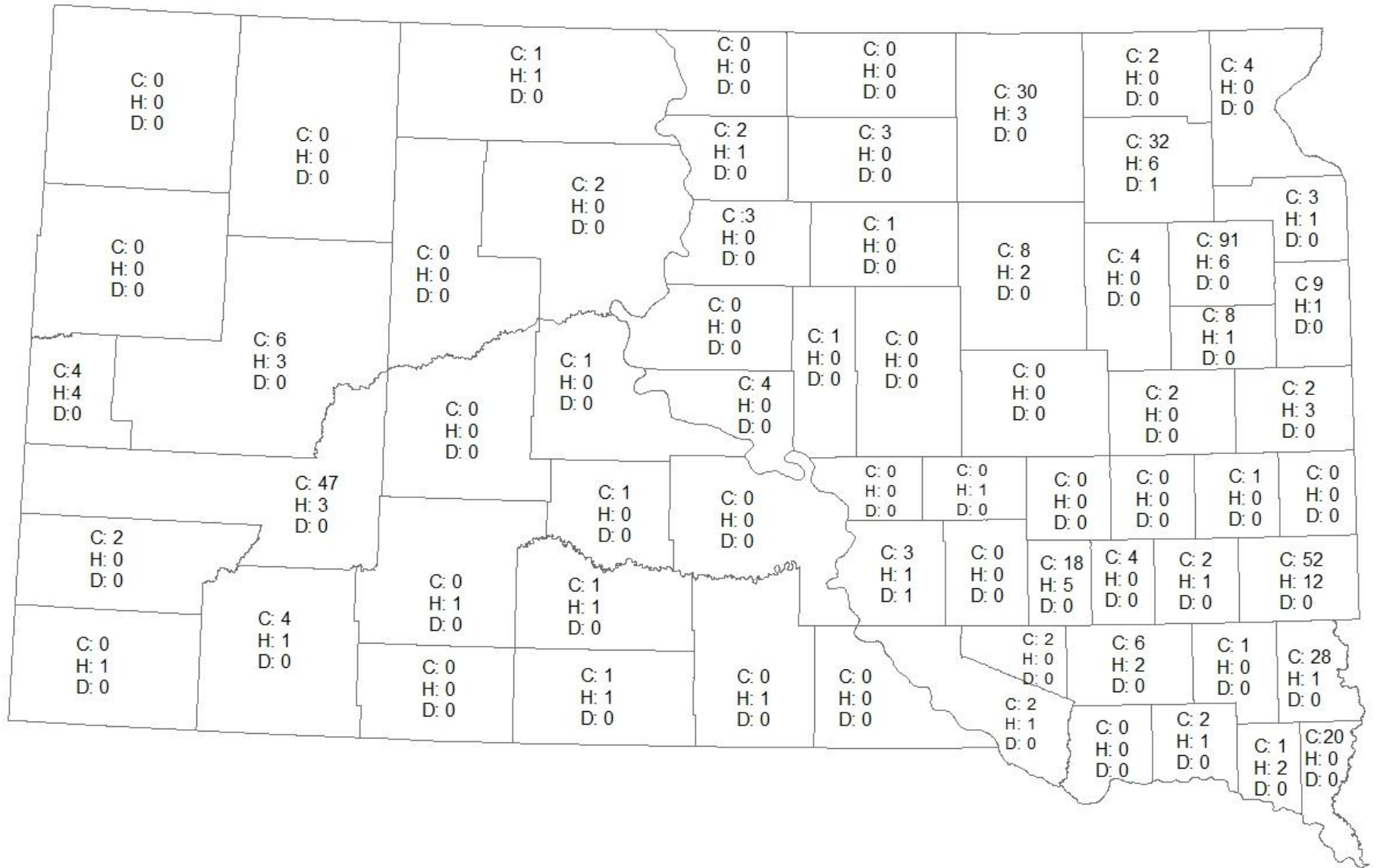
MMWR Week 51 = 2.58%   HHS Region 8 Baseline = 2.6%

SD Influenza Confirmed Cases, 2008-2018
Note: 2017-18 data are provisional as of December 23, 2017

2017-2018 Influenza Season Cumulative number of Confirmed Cases, Hospitalizations, and Deaths (Provisional)

C: 0 H: 0 D: 0

C: 0 H: 0 D: 0

C: 1 H: 1 D: 0

C: 0 H: 0 D: 0

C: 0 H: 0 D: 0

C: 30 H: 3 D: 0

C: 2 H: 0 D: 0

C: 4 H: 0 D: 0

C: 0 H: 0 D: 0

C: 2 H: 0 D: 0

C: 2 H: 1 D: 0

C: 3 H: 0 D: 0

C: 32 H: 6 D: 1

C: 2 H: 0 D: 0

C: 3 H: 1 D: 0

C: 0 H: 0 D: 0

C: 3 H: 0 D: 0

C: 1 H: 0 D: 0

C: 8 H: 2 D: 0

C: 4 H: 0 D: 0

C: 91 H: 6 D: 0

C 9 H: 1 D: 0

C: 6 H: 3 D: 0

C: 4 H: 4 D: 0

C: 0 H: 0 D: 0

C: 1 H: 0 D: 0

C: 0 H: 0 D: 0

C: 1 H: 0 D: 0

C: 0 H: 0 D: 0

C: 8 H: 1 D: 0

C: 0 H: 0 D: 0

C: 4 H: 0 D: 0

C: 0 H: 0 D: 0

C: 2 H: 0 D: 0

C: 2 H: 3 D: 0

C: 47 H: 3 D: 0

C: 1 H: 0 D: 0

C: 0 H: 0 D: 0

C: 0 H: 0 D: 0

C: 0 H: 1 D: 0

C: 0 H: 0 D: 0

C: 0 H: 0 D: 0

C: 1 H: 0 D: 0

C: 0 H: 0 D: 0

C: 2 H: 0 D: 0

C: 3 H: 1 D: 1

C: 0 H: 0 D: 0

C: 18 H: 5 D: 0

C: 4 H: 0 D: 0

C: 2 H: 1 D: 0

C: 52 H: 12 D: 0

C: 4 H: 1 D: 0

C: 0 H: 1 D: 0

C: 1 H: 1 D: 0

C: 2 H: 0 D: 0

C: 6 H: 2 D: 0

C: 1 H: 0 D: 0

C: 28 H: 1 D: 0

C: 0 H: 1 D: 0

C: 0 H: 0 D: 0

C: 1 H: 1 D: 0

C: 0 H: 1 D: 0

C: 0 H: 0 D: 0

C: 2 H: 1 D: 0

C: 0 H: 0 D: 0

C: 2 H: 1 D: 0

C: 1 H: 2 D: 0

C: 20 H: 0 D: 0

A New Ounce of Prevention for You & Your Family
www.flunearyou.org

Flu Near You is a free, real-time disease tracking system that engages you, your family and your friends directly in flu prevention and gives you the knowledge to help everyone stay healthy. Flu Near You uses anonymous reporting to help promote flu prevention in your community and head off the spread of disease among your friends and loved ones.

San Francisco, CA 94118
No symptoms: 9
Any symptoms: 2
Flu symptoms: 1

How it Works

Becoming a flu fighter is simple, fast and confidential. Anyone 13 or older can go to www.flunearyou.org to sign-up.

You will get a weekly email with two questions: *Do you have any of the following 10 symptoms?* and *Have you had a flu shot?*

Flu Near You uses these reports to create a real-time map and graphs that show you the spread of flu across the country, right down to the zip code level.

The website has a lot of useful information including links to public health websites, information about the number of reports in your state, and places to get vaccinated.

This is just the first step in building a reporting system that can eventually extend beyond influenza to other communicable diseases in the U.S. and across the world.

It's an exciting prospect. But the big benefits only happen if we're all willing to join in.

Help spread the word, not the flu! www.flunearyou.org