Louisiana Department of Health and Hospitals
Office of Public Health

Novel Influenza H1N1 Surveillance Report

www.infectiousdisease.dhh.louisiana.gov

From 04/18/2010 - 04/24/2010

The Influenza Surveillance Summary Report describes the results of the tracking done by the Louisiana Office of Public Health Infectious Disease Epidemiology Section (IDEpi). This report relies on data supplied by sentinel surveillance sites, including hospital emergency department (ED), laboratories and physicians' offices. Sentinel sites provide weekly data on Influenza Like Illness (ILI) and/or laboratory confirmed cases.

Taken together, ILI surveillance and laboratory surveillance provide a clear picture of the influenza activity occurring in Louisiana each week. If you have any questions about our surveillance system or would like more information, please contact Julie Hand at 504-219-4563 or julie.hand@la.gov.

ILI is defined as an illness characterized by cough and/or cold symptoms and a fever of 100˚ F or greater in the absence of a known cause. While not every case of ILI is a case of influenza, the CDC has found that trends in ILI from sentinel sites are a good proxy measure of the amount of influenza activity in an area. For this reason, all states and territories participating in the national surveillance program monitor weekly ILI ratios from their sentinel surveillance sites.

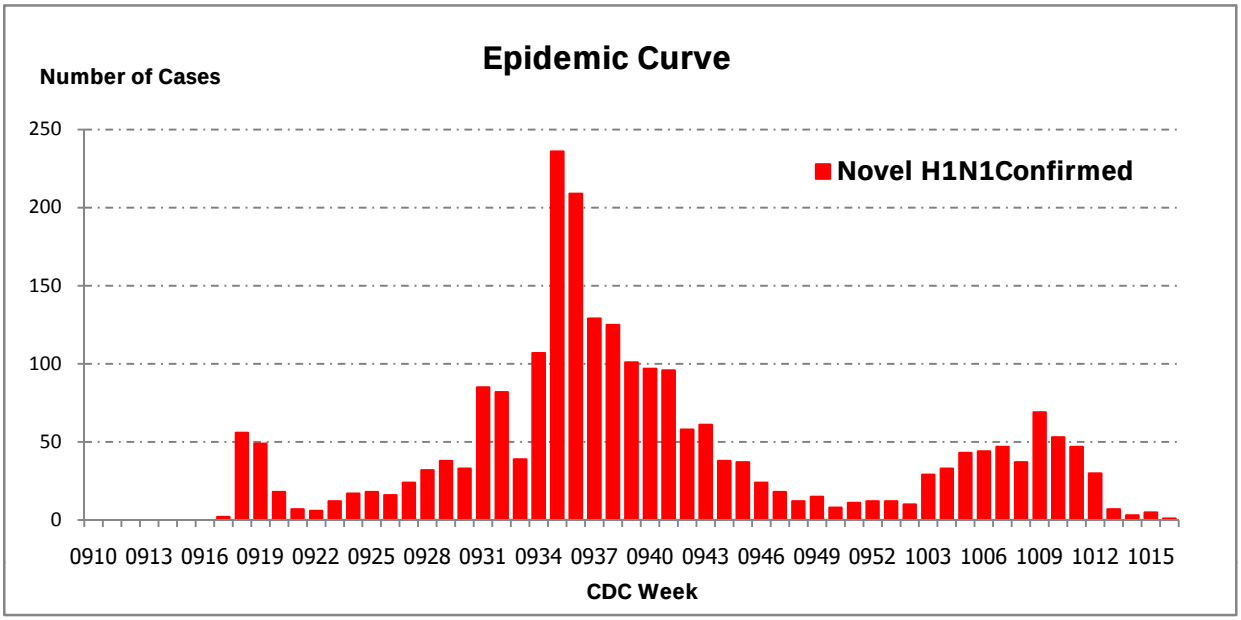
Laboratory testing: Not all sentinel sites have access to laboratory testing. However, many hospitals and physicians' offices do perform some influenza testing. Sites that test for influenza report the number of positive tests each week and the total number of tests performed each week. This information is included on page 5 of this report.

2009 H1N1 was first detected in the United States in April 2009. This virus was a unique combination of influenza virus genes never previously identified in either animals or people. The first positive sample in Louisiana was collected on April 22, 2009. By June 3, 2009 all 50 states had reported cases of 2009 H1N1. The World Health Organization (WHO) declared a pandemic on June 11, 2009, the first global flu epidemic in 41 years. Fourteen months later, on August 10, 2010 WHO declared an end to the 2009 H1N1 pandemic. Louisiana experienced two waves of activity during the pandemic: one when it was first detected (week 17) and another in the fall of 2009 (week 34). There were 2,412 confirmed cases of H1N1 in Louisiana but based on and extrapolation from CDC data, the real case count is closer to 313,000. Distribution of cases by gender is similar to the population distribution by gender. The highest proportion of outpatient and hospitalized cases occurred in the 5-24 age group. Clinical data collected on cases show that the majority (71%) of cases experienced typical influenza-like illness. There were 736 hospitalized cases and 54 deaths. The most common risk factors among cases were asthma (7%) and obesity (6%). Eighty-three of the confirmed cases were pregnant.

Epidemic Curve
Risk Factors

This graph displays the sampling basis for the description of the H1N1 cases. It does not accurately depict the epidemic since only a small fraction of cases are tested for H1N1. The most accurate description of the epidemic is a combination of the ILI surveillance (ILI page) and the proportion of novel H1N1 over all influenza strains tested (Lab page).

The total number of cases of H1N1 reported is **2,396**



Age and Gender distribution

	Gender distribution		Age distribution					
	% M	% F	0_4	5_24	25_49	50_64	65+	
Population	48%	52%	7%	30%	34%	17%	12%	100%
2009 H1N1 OutPt	47%	53%	13%	68%	14%	4%	1%	100%
2009 H1N1 Hosp	45%	55%	15%	34%	28%	17%	5%	100%

The distribution by gender is similar to the population distribution by gender.
The distribution by age group shows the highest proportion of cases in the 5-24 age group.

Clinical data

Fever	9.1%	Fever = Patients with fever only and no other symptoms
Influenza Like	71.0%	ILI = Fever + Cough /Sorethroat /Upper respiratory infection
Gastro-Intestinal	17.6%	Gastro-intestinal = Nausea, or vomiting, or diarrhea
Pneumonia /ARDS	18.2%	Pneumonia or ARDS = Acute Respiratory Distress Syndrome

*Cases may be counted in more than 1 category

Hospitalization

H1N1	LA	USA*
Number	736	265,000
rate/100K /year	16.7	90.1

Death

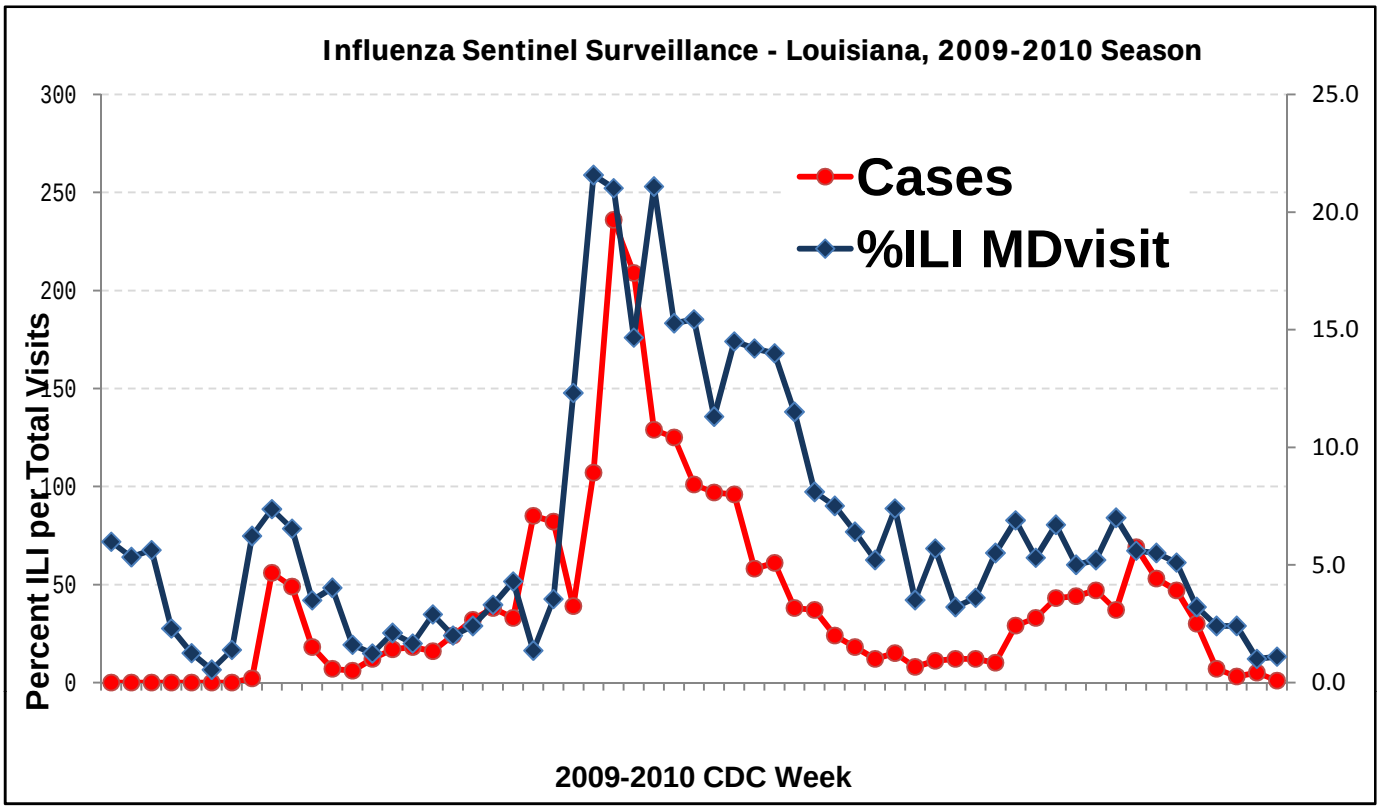
H1N1	LA	USA*
Number	53	12,000
per 100 Hosp	7.2	4.5

*CDC has developed a method to provide an estimate of the number of hospitalizations and deaths based on data collected through the Emerging Infections Program (EIP). These numbers will be updated every three to four weeks.

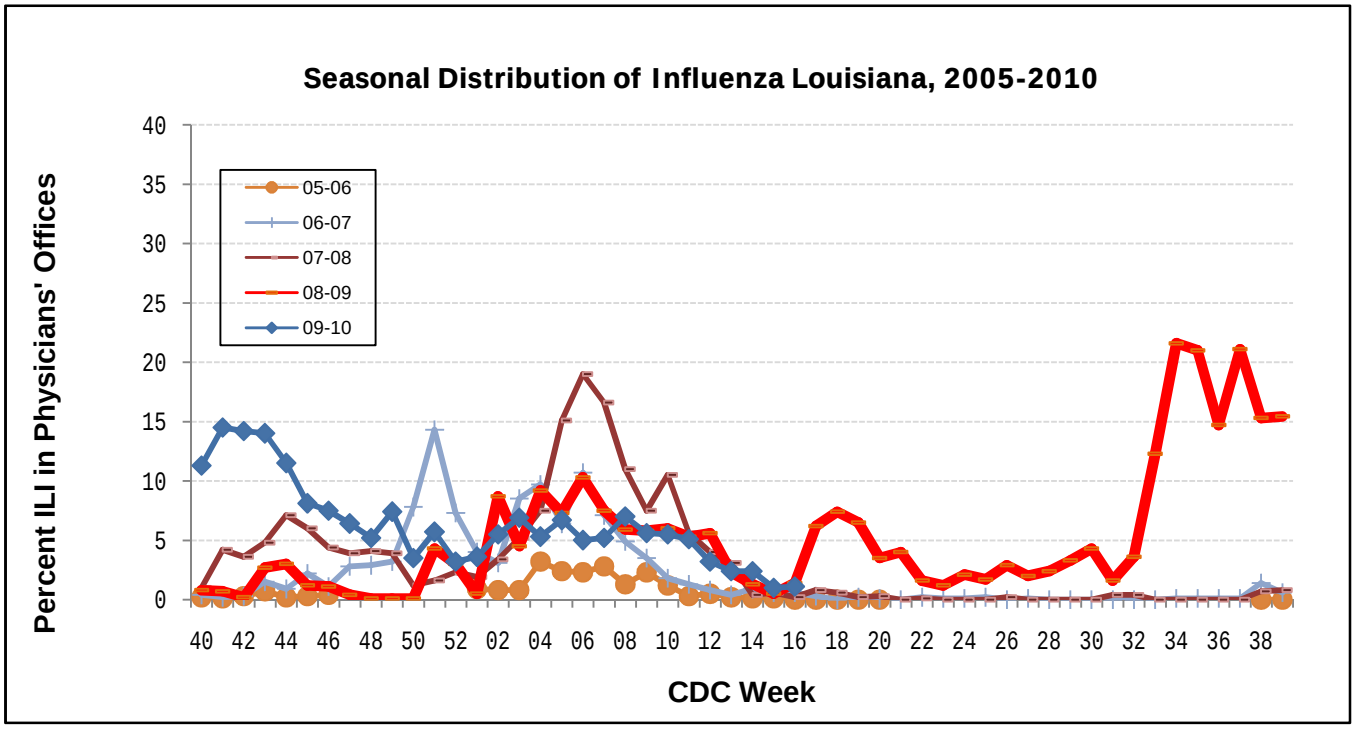
Risk Factors	OP	Hosp
Aspirin LT	0.0%	0.0%
Asthma	8.9%	12.0%
Cancer	0.9%	3.4%
Chr Cardiac	1.2%	5.5%
Chr Endocrino	0.2%	0.1%
Chr Liver	0.0%	0.2%
Chr Metabolic	0.0%	0.1%
Chr Neuro	0.7%	1.6%
Chr Pulmonary	0.6%	8.7%
Chr Renal	0.4%	3.7%
Congenital	0.9%	2.6%
Diabetes	0.5%	6.2%
HIV	0.2%	1.1%
Obesity	5.7%	12.6%
Pregnant	0.7%	9.2%
Sickle Cell	0.1%	1.2%
Steroid	0.0%	0.9%
Transplant	0.2%	1.5%
Total	21.4%	70.8%

ILI Surveillance

This graph shows the percentage of visits for ILI over the total number of visits for sentinel physicians' offices and emergency departments. This is the best approach to estimate the magnitude of influenza transmission. ILI counts do include some viral infections other than influenza, but experience over the last 50 years has shown that this approach is a reliable method to estimate influenza transmission. It does not show which strain of influenza virus is responsible. The page on lab surveillance does show the proportion of specimens attributable to each virus strain.

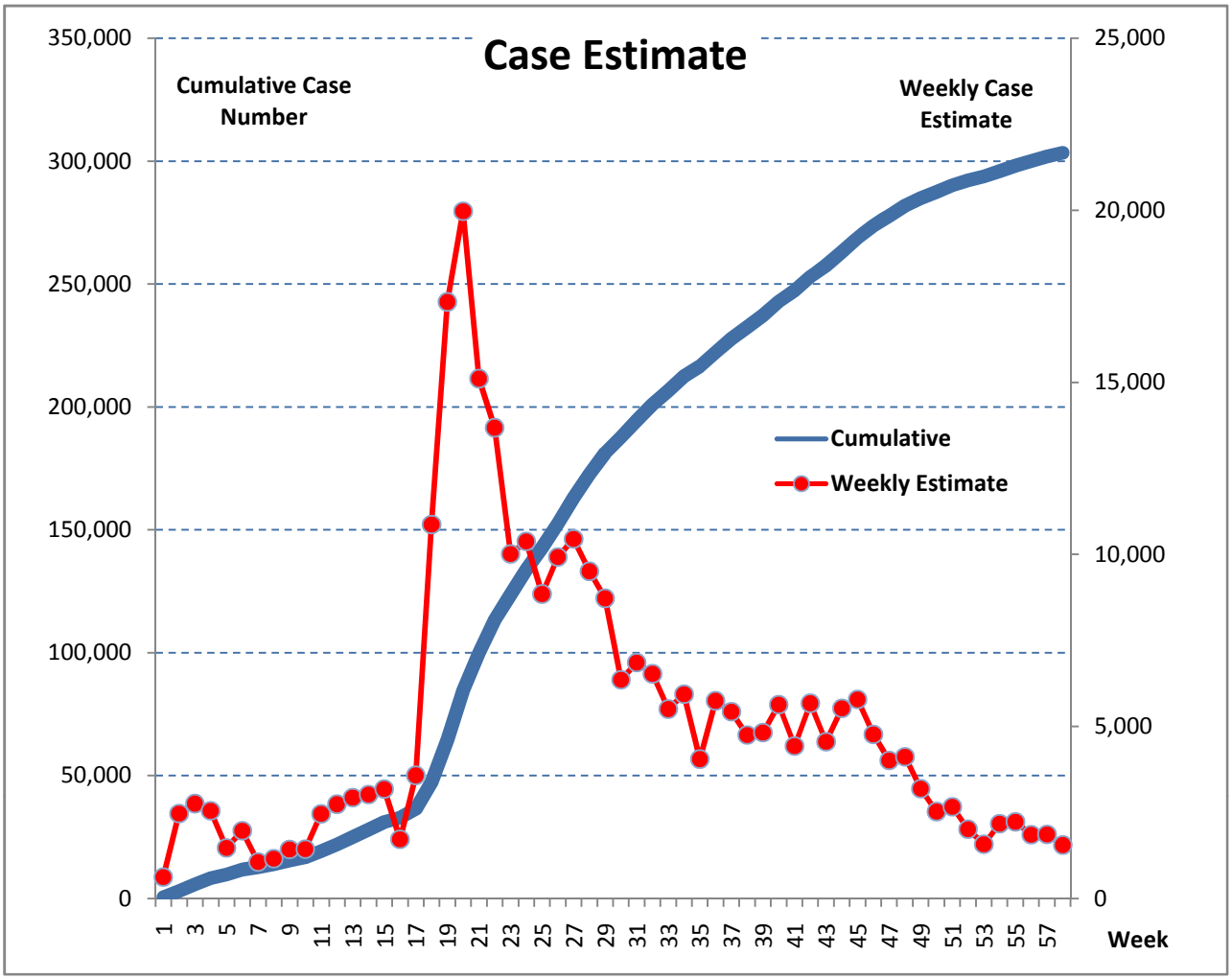


This graph shows the data on ILI surveillance among sentinel physicians' over the past 5 seasons to enable comparisons with previous years and better estimate the amplitude of this season's influenza transmission.



Enter the BLUE and see the RED for estimated number of cases

Date	Week	MD Visits	MD ILI %	Hosp Visits	Hosp ILI %	%Both	ILI Number of Visits	H1N1 Weekly Estimate	La Pop Inf Total	Hosp Wk	Hosp Cumul	Death Week	Death Cumul	% Death /Hosp /Week	% Death /Hosp Cumul	Lab Submit	Lab H1N1	% Lab H1N1
Apr 19	0916	3,097	1.4	7,932	1.2	1.2	2,081	624	624	0	0	0	0			8	2	25.0
Apr 26	0917	6,205	6.2	8,899	3.9	4.8	8,228	2,468	3,093	1	1	0	0	0.0	0.0	913	56	6.1
May 03	0918	7,124	7.4	9,242	3.9	5.4	9,192	2,758	5,850	1	2	0	0	0.0	0.0	1476	49	3.3
May 10	0919	6,256	6.5	7,331	3.7	5.0	8,496	2,549	8,399	0	2	0	0		0.0	396	18	4.5
May 17	0920	6,575	3.5	8,177	2.4	2.9	4,898	1,469	9,868	0	2	0	0		0.0	70	7	10.0
May 24	0921	5,625	4.0	7,984	2.1	2.9	4,921	1,968	11,837	0	2	0	0		0.0	17	6	35.3
May 31	0922	5,412	1.6	7,681	1.5	1.6	2,648	1,059	12,896	0	2	0	0		0.0	23	12	52.2
Jun 07	0923	5,679	1.2	7,874	1.5	1.4	2,321	1,160	14,056	0	2	0	0		0.0	34	17	50.0
Jun 14	0924	6,001	2.1	8,457	1.4	1.7	2,845	1,423	15,479	1	3	0	0		0.0	33	18	54.5
Jun 21	0925	5,445	1.7	6,871	1.2	1.4	2,388	1,433	16,912	2	5	0	0	0.0	0.0	21	16	76.2
Jun 28	0926	5,884	2.9	8,666	1.5	2.1	3,512	2,459	19,371	2	7	0	0	0.0	0.0	29	24	82.8
Jul 05	0927	5,441	2	8,334	2.5	2.3	3,914	2,740	22,111	6	13	0	0	0.0	0.0	46	32	69.6
Jul 12	0928	5,016	2.4	8,976	2.5	2.5	4,189	2,932	25,043	7	20	0	0	0.0	0.0	56	38	67.9
Jul 19	0929	3,671	3.3	8,255	2.2	2.5	4,316	3,021	28,064	2	22	0	0	0.0	0.0	72	33	45.8
Jul 26	0930	5,351	4.3	8,133	1.6	2.7	4,541	3,179	31,243	16	38	0	0	0.0	0.0	123	85	69.1
Aug 02	0931	4,302	1.35	7,435	1.5	1.4	2,457	1,720	32,962	9	47	0	0	0.0	0.0	127	82	64.6
Aug 09	0932	5,518	3.55	8,914	2.67	3.0	5,111	3,578	36,540	11	58	1	1	9.1	1.7	87	39	44.8
Aug 16	0933	7,252	12.31	9,375	4.65	8.0	13,585	10,868	47,408	18	76	0	1	0.0	1.3	161	107	66.5
Aug 23	0934	7,621	21.57	11,808	7.05	12.7	21,667	17,334	64,742	31	107	2	3	6.5	2.8	335	236	70.4
Aug 30	0935	9,221	21.02	11,874	9.76	14.7	24,959	19,967	84,709	36	143	2	5	5.6	3.5	257	209	81.3
Sep 06	0936	5,936	14.67	13,087	9.49	11.1	18,881	15,105	99,814	64	207	3	8	4.7	3.9	201	129	64.2
Sep 13	0937	7,680	21.08	15,620	9.64	13.4	22,798	13,679	113,493	58	265	1	9	1.7	3.4	211	125	59.2
Sep 20	0938	7,020	15.27	11,992	6.62	9.8	16,684	10,010	123,503	44	309	3	12	6.8	3.9	218	101	46.3
Sep 27	0939	6,574	15.44	10,379	6.84	10.2	17,297	10,378	133,881	38	347	4	16	10.5	4.6	222	97	43.7
Oct 04	0940	6,272	11.3	14,033	7.5	8.7	14,745	8,847	142,729	35	382	5	21	14.3	5.5	209	96	45.9
Oct 10	0941	7,402	14.5	10,955	6.5	9.7	16,534	9,920	152,649	21	403	3	24	14.3	6.0	175	58	33.1
Oct 24	0942	5,454	14.2	11,118	8.3	10.2	17,411	10,447	163,096	30	433	1	25	3.3	5.8	226	61	27.0
Oct 31	0943	6,728	14	13,563	7	9.3	15,846	9,507	172,603	15	448	6	31	40.0	6.9	166	38	22.9
Nov 7	0944	6,983	11.5	13,257	7	8.6	14,539	8,724	181,327	16	464	3	34	18.8	7.3	171	37	21.6
Nov 14	0945	6,773	8.1	13,663	5.3	6.2	10,588	6,353	187,679	17	481	3	37	17.6	7.7	122	24	19.7
Nov 21	0946	4,848	7.5	11,818	6.4	6.7	11,424	6,854	194,534	9	490	2	39	22.2	8.0	85	18	21.2
Nov 28	0947	4,985	6.4	9,618	6.4	6.4	10,880	6,528	201,062	10	500	0	39	0.0	7.8	92	12	13.0
Dec 5	0948	5,767	5.2	11,010	5.5	5.4	9,175	5,505	206,566	7	507	1	40	14.3	7.9	98	15	15.3
Dec 12	0949	4,774	7.4	10,524	5.1	5.8	9,890	5,934	212,500	4	511	0	40	0.0	7.8	76	8	10.5
Dec 19	0950	5,372	3.5	11,084	4.2	4.0	6,752	4,051	216,551	9	520	0	40	0.0	7.7	78	11	14.1
Dec 26	0951	3,519	5.7	7,864	5.6	5.6	9,573	5,744	222,295	7	527	1	41	14.3	7.8	68	12	17.6
Jan 2	0952	4,262	3.2	10,281	6.2	5.3	9,045	5,427	227,722	7	534	1	42	14.3	7.9	68	12	17.6
Jan 9	1001	4,350	3.6	13,295	5	4.7	7,913	4,748	232,470	3	537	0	42	0.0	7.8	81	11	13.6
Jan 16	1002	4,346	5.5	14,808	4.5	4.7	8,036	4,821	237,292	12	549	1	43	8.3	7.8	94	29	30.9
Jan 23	1003	5,874	6.9	13,070	4.9	5.5	9,384	5,631	242,922	11	560	1	44	9.1	7.9	91	33	36.3
Jan 30	1004	5,033	5.3	10,867	3.9	4.3	7,383	4,430	247,352	11	571	0	44	0.0	7.7	105	43	41.0
Feb 6	1005	5,793	6.7	9,979	4.9	5.6	9,454	5,672	253,024	19	590	0	44	0.0	7.5	103	44	42.7
Feb 13	1006	5,530	5	11,296	4.2	4.5	7,587	4,552	257,577	22	612	1	45	4.5	7.4	118	47	39.8
Feb 20	1007	5,630	5.2	14,574	5.5	5.4	9,208	5,525	263,101	18	630	3	48	16.7	7.6	117	37	31.6
Feb 27	1008	6,758	7	15,772	5.1	5.7	9,639	5,783	268,885	40	670	0	48	0.0	7.2	153	69	45.1
Mar 6	1009	4,366	5.6	14,868	4.4	4.7	7,943	4,766	273,651	25	695	4	52	16.0	7.5	135	53	39.3
Mar 13	1010	6,092	5.5	15,163	3.3	3.9	6,682	4,009	277,660	15	710	1	53	6.7	7.5	110	47	42.7
Mar 20	1011	5,409	5.1	13,079	3.6	4.0	6,866	4,120	281,779	18	728	0	53	0.0	7.3	78	30	38.5
Mar 27	1012	5,217	3.2	14,143	3.1	3.1	5,316	3,189	284,969	5	733	0	53	0.0	7.2	49	7	14.3
Apr 3	1013	4,467	2.4	14,136	2.5	2.5	4,209	2,526	287,494	1	734	0	53	0.0	7.2	35	4	11.4
Apr 10	1014	4,861	2.4	11,229	2.7	2.6	4,436	2,662	290,156	1	735	0	53	0.0	7.2	37	5	13.5
Apr 17	1015	4,954	1	14,643	2.3	2.0	3,351	2,011	292,167	0	735	0	53		7.2	23	1	4.3
Apr 24	1016	3,258	1.1	9,661	1.7	1.5	2,633	1,580	293,746	1	736	0	53	0.0	7.2	28	7	25.0
May 1	1017	5,176	1.1	14,633	2.5	2.1	3,628	2,177	295,923	0	736	1	54		7.3	24	1	4.2
May 8	1018	3,201	1	11,945	2.5	2.2	3,711	2,227	298,150	0	736	0	54		7.3	4	0	0.0
May 15	1019	4,838	1.1	12,142	2.1	1.8	3,086	1,851	300,001	0	736	0	54		7.3	11	0	0.0
May 22	1020	3,701	0.9	12,482	2.1	1.8	3,103	1,862	301,863	0	736	0	54		7.3	7	0	0.0
May 29	1021	3,610	0.8	14,840	1.7	1.5	2,591	1,554	303,418	0	736	0	54		7.3	10	0	0.0


Case Estimate
Cumulative Case Number
Weekly Case Estimate
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0
25,000
20,000
15,000
10,000
5,000
0
Cumulative
Weekly Estimate
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57
Week

Geographical Distribution of Influenza

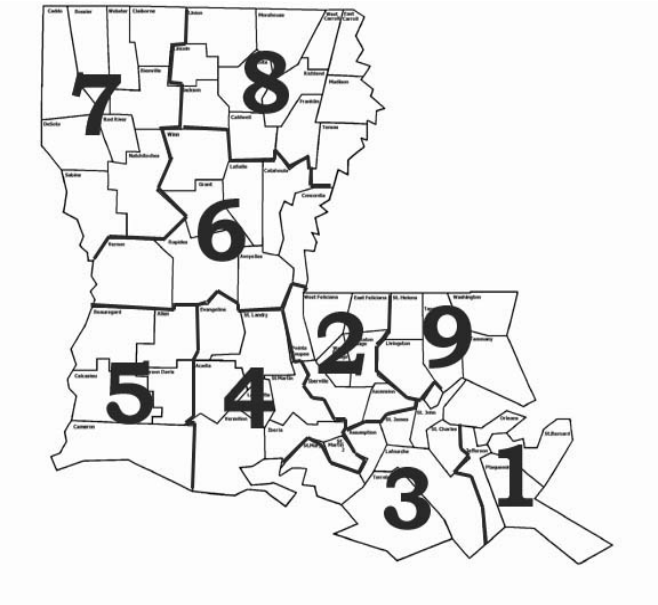
Region	Parish	H1N1*	% ILI**
Region 1	Jefferson	255	0.1
	Orleans	176	1.8
	Plaquemines	31	
	St Bernard	42	
	All Region 1	**504**	**1.0**
Region 2	Ascension	15	
	East Baton Rouge	212	4.6
	East Feliciana	3	0.0
	Iberville	10	
	Pointe Coupee	6	
	West Baton Rouge	7	
	West Feliciana	4	
	All Region 2	**257**	**4.4**
Region 3	Assumption	1	
	Lafourche	96	2.0
	St Charles	35	
	St James	6	
	St. John	15	
	St. Mary	37	0.1
	Terrebonne	32	5.5
	All Region 3	**222**	**2.8**
Region 4	Acadia	24	
	Evangeline	14	
	Iberia	45	
	Lafayette	192	0.8
	St Landry	41	
	St Martin	19	
	Vermilion	20	
	All Region 4	**355**	**0.8**
Region 5	Allen	5	1.0
	Beauregard	8	
	Calcasieu	94	2.2
	Cameron	2	
	Jefferson Davis	5	3.7
	All Region 5	**114**	**2.2**
Region 6	Avoyelles	4	0.4
	Catahoula	8	
	Concordia	4	
	Grant	6	
	LaSalle	15	5.5
	Rapides	130	4.6
	Vernon	61	
	Winn	0	
	All Region 6	**228**	**3.9**
Region 7	Bienville	7	
	Bossier	99	
	Caddo	203	1.1
	Claiborne	2	
	DeSoto	22	
	Natchitoches	10	3.4
	Red River	2	
	Sabine	53	
	Webster	17	
	All Region 7	**415**	**2.1**

Region	Parish	H1N1*	% ILI**
Region 8	Caldwell	9	
	East Carroll	1	
	Franklin	0	
	Jackson	2	
	Lincoln	8	
	Madison	1	
	Morehouse	10	0.0
	Ouachita	71	0.2
	Richland	12	
	Tensas	0	
	Union	10	2.3
	West Carroll	5	
	All Region 8	**129**	**0.4**
Region 9	Livingston	27	7.8
	St. Helena	0	1.4
	St Tammany	74	2.0
	Tangipahoa	32	8.1
	Washington	42	0.8
	All Region 9	**175**	**4.5**
Grand Total		**2399**	

Low <2%	
MedLow 2-5%	
MedHigh 5-10%	
Very High >10%	

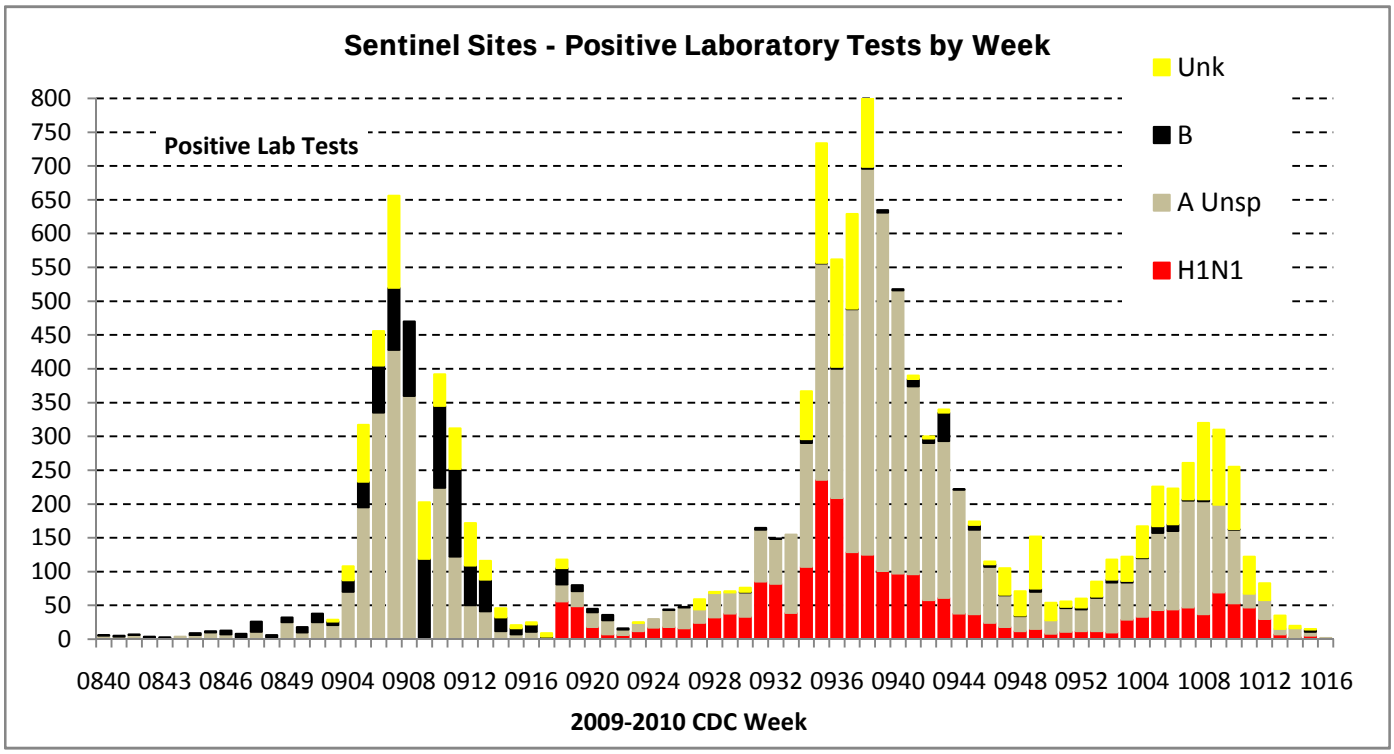
* Cumulative number from week 16 to present

** 4 week average % ILI based on sentinel surveillance data

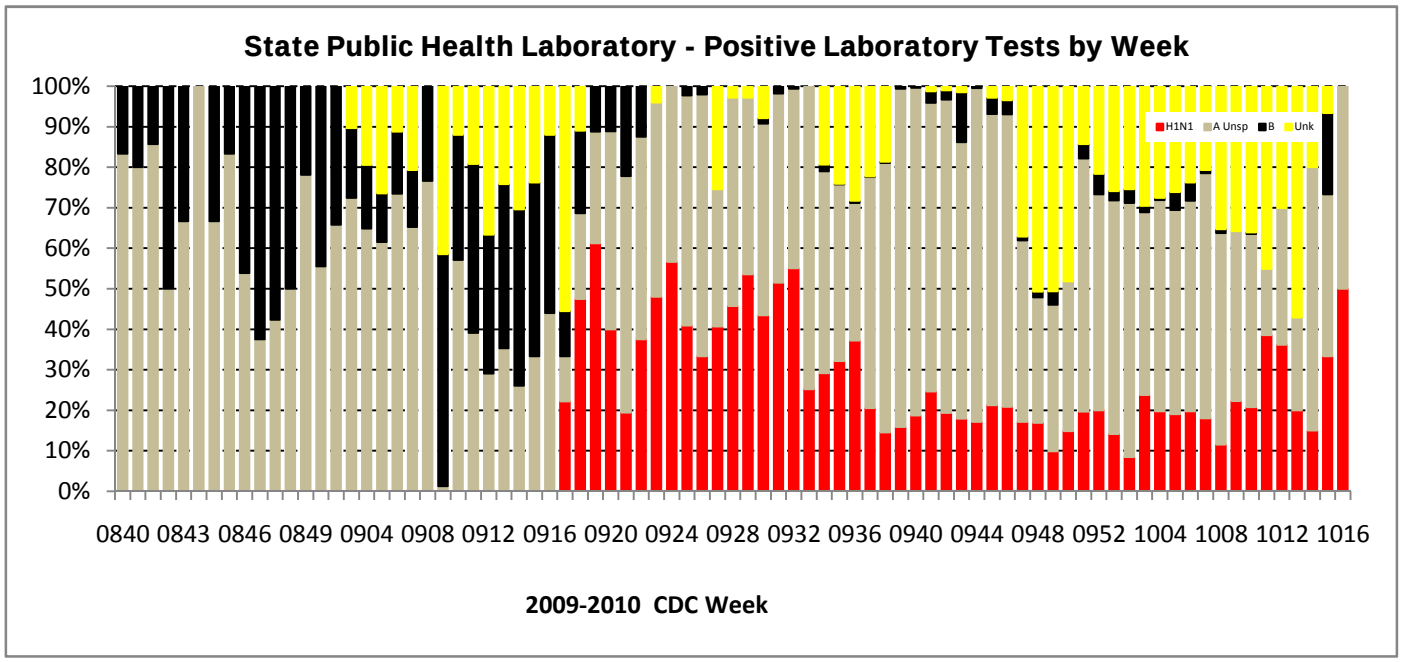


This chart displays the intensity of influenza activity throughout the state. There are differences between regions. Although not representative of the exact occurrence of H1N1 throughout the state, it appears that H1N1 is spread in all areas of the state and both in urban and rural areas.

Laboratory Surveillance



These graphs show the distribution by virus type. Sentinel site testing is based on rapid test results The State Public Health Laboratory performs PCR testing on all samples. **Influenza A and 2009 Influenza A (H1N1) may overlap.**



TRANSMISSION

Source:
Humans mostly
Respiratory tract secretions
Transmission:
--Large droplets
--Airborne: limited to few feet
--Direct contact: with nasal or throat secretion.
--Fomites: Article freshly soiled with nasal or throat secretion.
Attack rate
HH= 25%, moderate

Incubation
2-5 (1-7) days

Close contact
30 mn within 6 feet of a symptomatic

Respiratory Tract Infection 1 wk
fever, cough, sore throat, body aches, headache, chills and fatigue.

Communicability
1 day beforeSymptoms to End of Fever (+1 day)

Exclusions
--Until fever subsides (100°F) + 1 day*
--Longest of onset to end of S x + 1day*
* HCP who work with high risk patients - exclude for 7 days
-- HCP = Health Care Practitioner
--Exposed : Watch for Sx , then exclude as above
--If contact with high risk (Exp + 1 to +7)

Complication
- Viral or bacterial pneumonia
-Aggravation of chronic pulmonary, cardiac, renal, hepatic, hematologic or metabolic disorders

High risk of severe illness and complications:
- aged 6 months–4 years; or 65 and older
- residents of chronic-care facilities;
- long-term aspirin therapy
- chronic pulmonary (including asthma), cardiovascular (except hypertension), renal, hepatic, hematological or metabolic disorders (including diabetes);
- immunosuppressed (immunosuppression caused by meds or by HIV)
- any condition (cognitive dysfunction, spinal cord injuries, seizure disorders, or other neuromuscular disorders that compromise respiratory function or handling of respiratory secretions or that increase aspiration risk

DIAGNOSIS

Clinical criteria: influenza-like illness =
-fever ≥ 37.8° C [100° F] & (cough or sore throat) or
-acute respiratory illness = recent onset of at least 2 of : rhinorrhea or nasal congestion, sore throat , cough, fever
-Hospitalization for acute lower respiratory tract infection and no other cause for this infection
Test results come too late to be of use for case or contact management

Use **rapid influenza test** when it is important for treatment decisions, if not it is not so useful. Assuming sensitivity=70%, specificity=95%, the predictive value of a positive test is 5% at the beginning and end of the season and 90% at the peak. The predictive value of a negative test is 75%.

TREATMENT & PROPHYLAXIS

Oseltamivir Roche Pharmaceuticals (Tamflu®—tablet
Zanamivir GlaxoSmithKline (Relenza®—inhaled powder).

Prophylaxis - 10 days Only contacts that are at high risk of severe illness and complications.
Treatment - 5 days:
- Severe disease
- High risk of severe illness and complications.

Antivirals indicated mostly for high risk, severe disease and hospitalized individuals

PREVENTION OF TRANSMISSION - INFECTION CONTROL

Prevent emission
Respiratory hygiene
Cough etiquette
--Cover cough, sneeze
--Use tissues, dispose safely
--Wear mask
--Spatial separation 3 ft
Early triage to institute
Respiratory hygiene

Modified Droplet* & Contact Precautions

Modified Droplet = Personal respirator (N95) /instead of surgical mask

High risk of airborne transmission: Aerosol producing procedures:

--bronchoscopy	**USE AIRBORNE**
--intubation	**PRECAUTIONS**
--nebulization	Personal Resp N95
--suction	Neg pressure room
	≥ 12 air exchange

Restrict hospitalization: Hospitalization is NOT for quarantine or diagnostics. Hospitals provide care for acutely ill

DO
- Use hand sanitizers between each patient contact or wash hands if visibly soiled
- Wear gloves when touching patient and patient areas
- Wear mask when closer than 3 ft from patient
- Know what is "clean", what is "contaminated "and keep them apart

DO NOT
- Touch eyes, nose or mouth with contaminated hands (gloved or ungloved).
- Make adjustments to the PPE during patient care or removal; Careful placement of PPE before patient contact
- Touch contaminated environmental surfaces not directly related to patient care (door knobs, light switches)
- Touch pen, glasses and other personal items during patient care

Wk	MD Visits	MD ILI %	Hosp Visits	Hosp ILI %
0840	2796	0.8	14,444	1.0
0841	2618	0.6	13,443	0.8
0842	3010	0.7	14,006	0.6
0843	1769	0.2	13,911	0.7
0843	3211	2.7	15,404	1.1
0844	2213	3	15,561	1.2
0845	3531	1.2	15,568	1.3
0844	3606	1.1	14,083	1.2
0846	2364	0.4	11,727	0.6
0847	3019	0.1	13,235	1.4
0848	3015	0.1	13,448	1.4
0845	3020	0.1	12,223	2.5
0849	2729	4.3	7,226	2.8
0901	2418	2.2	13,999	1.7
0902	2,759	0.5	15,549	1.3
0903	678	8.7	20,469	2.2
0904	6,232	4.5	15,270	1.5
0905	2,979	9.2	18,728	2.3
0906	4,975	7.3	17,288	3.2
0907	4,914	10.3	10,241	5.1
0908	3,825	7.5	8,814	6.6
0909	4,501	5.9	9,080	4.2
0910	2,540	6.0	9,296	3.5
0911	3,962	5.3	8,655	2.5
0912	3,996	5.6	7,856	2.2
0913	3,680	2.3	8,142	2.5
0914	3,592	1.3	7,749	2.1
0915	3,375	0.5	7,766	1.9
0916	3,097	1.4	7,932	1.2
0917	6,205	6.2	8,899	3.9
0918	7,124	7.4	9,242	3.9
0919	6,256	6.5	7,331	3.7
0920	6,575	3.5	8,177	2.4
0921	5,625	4.0	7,984	2.1
0922	5,412	1.6	7,681	1.5
0923	5,679	1.2	7,874	1.5
0924	6,001	2.1	8,457	1.4
0925	5,445	1.7	6,871	1.2
0926	5,884	2.9	8,666	1.5
0927	5,441	2	8,334	2.5
0928	5,016	2.4	8,976	2.5
0929	3,671	3.3	8,255	2.2
0930	5,351	4.3	8,133	1.6
0931	4,302	1.35	7,435	1.5
0932	5,518	3.55	8,914	2.67
0933	7,252	12.31	9,375	4.65
0934	7,621	21.57	11,808	7.05
0935	9,221	21.02	11,874	9.76
0936	5,936	14.67	13,087	9.49
0937	7,680	21.08	15,620	9.64
0938	7,020	15.27	11,992	6.62
0939	6,574	15.44	10,379	6.84

Sentinel Providers

Wk	H1N1	A Unsp	B	Unk
0840	0	5	1	0
0841	0	4	1	0
0842	0	6	1	0
0843	0	2	2	0
0843	0	2	1	0
0844	0	4	0	0
0845	0	6	3	0
0844	0	10	2	0
0846	0	7	6	0
0847	0	3	5	0
0848	0	11	15	0
0845	0	3	3	0
0849	0	25	7	0
0901	0	10	8	0
0902	0	25	13	0
0903	0	21	5	3
0904	0	70	17	21
0905	0	195	38	84
0906	0	335	70	51
0907	0	428	92	136
0908	0	360	110	0
0909	0	3	116	84
0910	0	224	121	47
0911	0	122	130	60
0912	0	50	59	63
0913	0	41	47	28
0914	0	12	20	14
0915	0	7	9	5
0916	0	11	11	3
0917	2	1	1	5
0918	56	25	24	13
0919	49	22	9	0
0920	18	22	5	0
0921	7	21	8	0
0922	6	8	2	0
0923	12	12	0	1
0924	17	13	0	0
0925	18	25	1	0
0926	16	31	1	0
0927	24	20	0	15
0928	32	36	0	2
0929	38	31	0	2
0930	33	36	1	6
0931	85	77	3	0
0932	82	66	1	0
0933	39	116	0	0
0934	107	183	6	71
0935	236	320	1	177
0936	209	191	3	159
0937	129	359	1	140
0938	125	571	3	160
0939	101	530	4	0

H1N1Age & Gender	
CASES	Outpt
M	537
F	597
0_4	152
5_24	782
25_49	155
50_64	48
65+	9
PERCENT	
M	47%
F	53%
0_4	13%
5_24	68%
25_49	14%
50_64	4%
65+	1%

Clinical Data	
Fever	147
ILI	1149
Ginstestinal	285
Pneumonia/ARDS	294
With Clinical data	1619
Hospitalization	Louisiana
Number H1N1	736
Number of week	51
Hosp/week	14.43
Population 100,000	45
Hosp rate 100K/Yr	16.68
HospWRiskFactors	
%HospWithRiskFactors	
Death	53
Death /100H	7.2

Transmission potential	
Cases completed	2320
Cases w contacts	893
Total HH contacts	3599
Contacts/HHwCtc	4.03023516
Symptomatic ctc	906
Avg InfCtc/Case	1.01

Risk Factors	**OP**
Aspirin LT	0
Asthma	71
Cancer	7
Chr Cardiac	10
Chr Endocrino	2
Chr Liver	0
Chr Metabolic	0
Chr Neuro	6
Chr Pulmonary	5

0940	6272	11.3	14,033	7.5
0941	7402	14.5	10,955	6.5
0942	5454	14.2	11,118	8.3
0943	6728	14	13,563	7.0
0944	6983	11.5	13,527	7.0
0945	6773	8.1	13,663	5.3
0946	4848	7.5	11,818	6.4
0947	4985	6.4	9,618	6.4
0948	5767	5.2	11,010	5.5
0949	4774	7.4	10,524	5.1
0950	5372	3.5	11,084	4.2
0951	3519	5.7	7,864	5.6
0952	4262	3.2	10,281	6.7
1001	4350	3.6	13,295	5.0
1002	4346	5.5	14,808	4.5
1003	5,874	6.9	13,070	4.9
1004	5,033	5.3	10,867	3.9
1005	5,793	6.7	9,979	4.9
1006	5,530	5.0	11,296	4.2
1007	5,630	5.2	14,574	5.5
1008	6,758	7.0	15,772	5.1
1009	4,366	5.6	14,868	4.4
1010	6,092	5.5	15,163	3.3
1011	5,409	5.1	13,079	3.6
1012	5,217	3.2	14,143	3.1
1013	4,467	2.4	14,136	2.5
1014	4,861	2.4	11,229	2.7
1015	4,954	1.0	14,643	2.3
1016	3,258	1.1	9,661	1.7
17				
18				
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39				
Tot		#REF!	#REF!	
Tot			**#REF!**	

0940	97	419	2	0
0941	96	278	11	5
0942	58	232	7	3
0943	61	232	42	5
0944	38	183	1	0
0945	37	125	7	5
0946	24	83	4	4
0947	18	47	1	39
0948	12	22	1	36
0949	15	55	5	77
0950	8	20	0	26
0951	11	35	2	8
0952	12	32	3	13
1001	12	49	2	22
1002	10	74	4	30
1003	29	55	2	36
1004	33	87	1	46
1005	43	114	10	59
1006	44	116	10	53
1007	47	158	2	54
1008	37	167	3	113
1009	69	130	0	111
1010	53	109	1	92
1011	47	20	0	55
1012	30	28	0	25
1013	7	8	0	20
1014	3	13	0	4
1015	5	6	3	1
1016	1	1	0	0

Chr Renal	3
Congenital	7
Diabetes	4
HIV	2
Obesity	46
Pregnant	6
Sickle Cell	1
Steroid	0
Transplant	2
Total	#REF!

Hosp
333
402
111
253
206
127
39
45%
55%
15%
34%
28%
17%
5%

9.1%
71.0%
17.6%
18.2%
USA
265,000
12,000
4.5

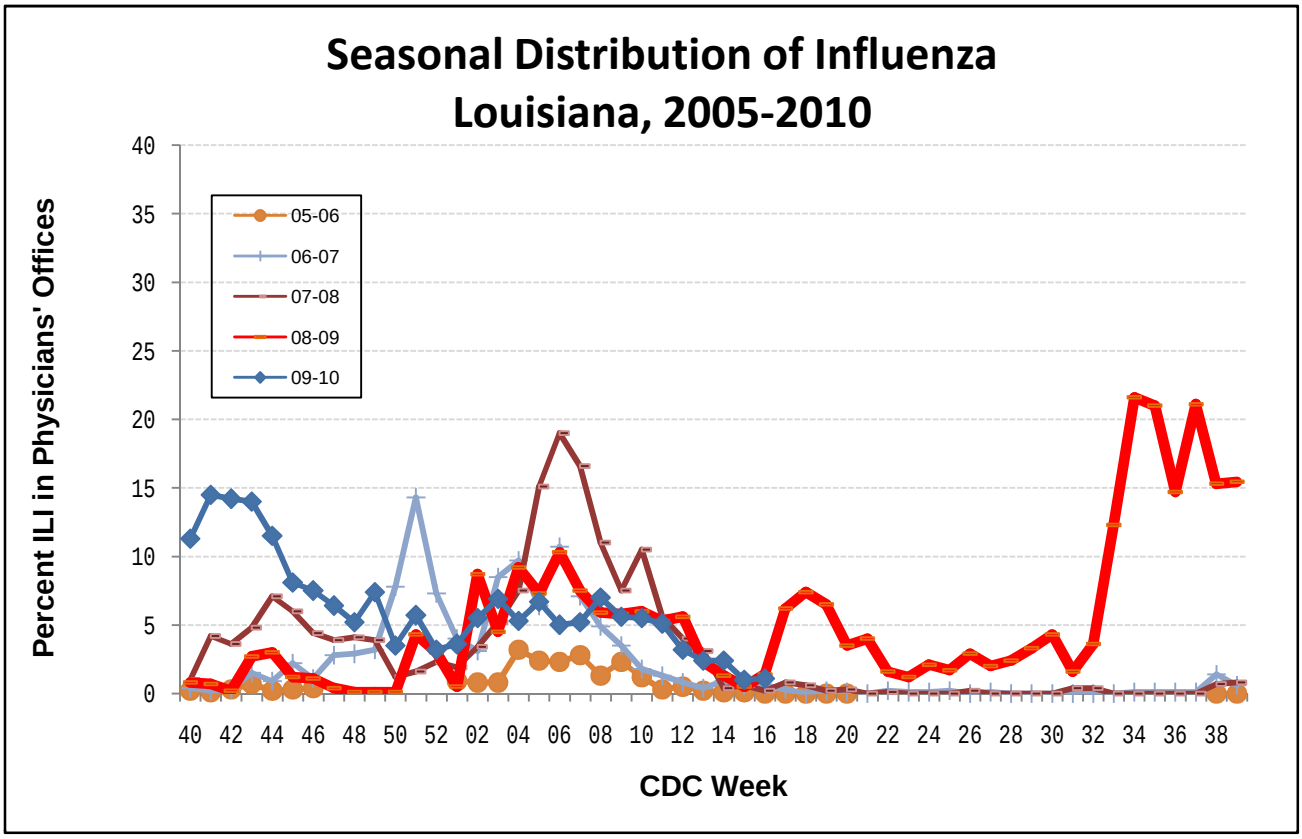
Hosp
0
96
27
44
1
2
1
13
70

30
21
50
9
101
74
10
7
12
736

Wk	Beg	End
1	01/03/09	01/10/09
2	01/11/09	01/17/09
3	01/18/09	01/24/09
4	01/25/09	01/31/09
5	02/01/09	02/07/09
6	02/08/09	02/14/09
7	02/15/09	02/21/09
8	02/22/09	02/28/09
9	03/01/09	03/07/09
10	03/08/09	03/14/09
11	03/15/09	03/21/09
12	03/22/09	03/28/09
13	03/29/09	04/04/09
14	04/05/09	04/11/09
15	04/12/09	04/18/09
16	04/19/09	04/25/09
17	04/26/09	05/02/09
18	05/03/09	05/09/09
19	05/10/09	05/16/09
20	05/17/09	05/23/09
21	05/24/09	05/30/09
22	05/31/09	06/06/09
23	06/07/09	06/13/09
24	06/14/09	06/20/09
25	06/21/09	06/27/09
26	06/28/09	07/04/09
27	07/05/09	07/11/09
28	07/12/09	07/18/09
29	07/19/09	07/25/09
30	07/26/09	08/01/09
31	08/02/09	08/08/09
32	08/09/09	08/15/09
33	08/16/09	08/22/09
34	08/23/09	08/29/09
35	08/30/09	09/05/09
36	09/06/09	09/12/09
37	09/13/09	09/19/09
38	09/20/09	09/26/09
39	09/27/09	10/03/09
40	10/04/09	10/10/09
41	10/11/09	10/17/09
42	10/18/09	10/24/09
43	10/25/09	10/31/09
44	11/01/09	11/07/09
45	11/08/09	11/14/09
46	11/15/09	11/21/09
47	11/22/09	11/28/09
48	11/29/09	12/05/09
49	12/06/09	12/12/09
50	12/13/09	12/19/09
51	12/20/09	12/26/09
52	12/27/09	01/02/10

Seasonal Distribution of Influenza 2000 to

Wk	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10
40	0	0.2	0.3	1.6		0.2	0.4	1	0.8	11.3
41	0	0.4	0.8	1.4	0.1	0.1	0.2	4.2	0.7	14.5
42	0.1	0.1	0.2	2.2	0.1	0.3	0.3	3.6	0.2	14.2
43	0	0	0.4	3.6	0.3	0.7	1.5	4.8	2.7	14
44	0.2	0.1	0.6	8.5	0.3	0.2	0.9	7.1	3	11.5
45	0.3	0	2.9	7.5	0.3	0.3	2.2	6	1.2	8.1
46	0.5	0	0.7	1.1	0.2	0.4	1.1	4.4	1.1	7.5
47	0.2	0.1	0.7	2	0.1		2.8	3.9	0.4	6.4
48	0.3	0.2	0.8	3.2	0.5		2.9	4.1	0.1	5.2
49	0.3	0.1	0.9	6.1	0		3.2	3.9	0.1	7.4
50	1	0	1	1.8	0.1		7.8	1.2	0.1	3.5
51	2.8	1	1.4	1.8	0.2		14.3	1.6	4.3	5.7
52	5.2	0	1.5	1.5	1		7.3	2.3	3	3.2
01	6.6	0.2	1.3	1.2	0.4	0.9	4	1.9	0.5	3.6
02	3.7	1.1	5.2	0.6	1.2	0.8	3.1	3.4	8.7	5.5
03	3.1	0.1	3.6	0.2	1.8	0.8	8.5	5.2	4.5	6.9
04	3.8	2	5	0	0.7	3.2	9.7	7.5	9.2	5.3
05	1.3	0.8	4.1	0	4	2.4	6.4	15.1	7.3	6.7
06	1	0.5	0.6	0	3.8	2.3	10.7	19	10.3	5
07	0.4	1	1.2		2.4	2.8	7.1	16.6	7.5	5.2
08	0.3	2.8	1.9		4.5	1.3	4.9	11	5.9	7
09	0.1	1.4	0.8		1.2	2.3	3.5	7.5	5.8	5.6
10	0	1.6	0.5		2.1	1.2	1.8	10.5	6	5.5
11	0	0.8	0.1		2.8	0.3	1.3	5.6	5.3	5.1
12	0	0.2	0.1		0.5	0.5	0.8	4	5.6	3.2
13	0	0.4	0.1		0.2	0.2	0.4	3.1	2.3	2.4
14	0	0.1	0		0.2	0.1	0.9	0.4	1.3	2.4
15	0	0	0		0.2	0.1	0.6	0.6	0.5	1
16	0	0	0		0.1	0	0.6	0.2	1.4	1.1
17	0	0	0			0	0.3	0.8	6.2	
18	0	0	0			0	0	0.6	7.4	
19	0	0	0			0	0.2	0.2	6.5	
20	0	0	0			0	0.1	0.3	3.5	
21	0	0	0				0	0	4	
22	0	0	0				0.2	0.1	1.6	
23	0	0	0				0.1	0	1.2	
24	0	0	0				0.1	0	2.1	
25	0	0	0				0.2	0	1.7	
26	0	0	0				0	0.2	2.9	
27	0	0	0				0.1	0	2	
28	0	0	0				0	0	2.4	
29	0	0	0				0	0	3.3	
30	0	0	0				0	0	4.3	
31	0	0	0				0	0.4	1.6	
32	0	0	0				0	0.4	3.6	
33	0	0	0				0	0	12.3	
34	0	0	0				0.1	0	21.6	
35	0	0	0				0.1	0	21	
36	0	0	0	0			0.1	0	14.7	
37	0	0	0	0.3			0.1	0	21.1	
38	0	0	0	0.2		0	1.4	0.7	15.3	

39	0	0	0	0.1	0	0.6	0.8	15.44

Historical Data on Influenza in Louisiana