



Indiana State Department of Health

WEEKLY INFLUENZA REPORT

Data as of Monday, March 29, 2010 (CDC Week 12)

The following report is meant to provide local health departments, hospital administrators, and health professionals with an in depth understanding of the burden of influenza-like illness (ILI) and pneumonia on Indiana residents to help guide clinical practice and community mitigation efforts. Data from several surveillance programs were utilized to produce this report. While the Indiana State Department of Health (ISDH) Laboratory is currently testing a representative number of samples for the 2009 H1N1 influenza virus, the majority of the ISDH surveillance efforts are unable to discern between influenza illness due to this novel strain and other circulating viruses. Caution should be taken when examining this data, understanding that it is mostly descriptive of all circulating viruses and not just 2009 H1N1.

For further information about the data presented in this report, please call the ISDH Surveillance and Investigation Division at 317-233-7125.

Key Points for Week 12, 2010

Burden of Influenza-Like Illness (ILI) in the Community

- The percentage of ILI reported by the emergency department (ED) surveillance system decreased slightly compared to the previous week (1.5% compared to 1.8%, respectively).
- The percent of patients presenting at sentinel providers with ILI decreased slightly compared to the previous week (0.6% compared to 0.8%, respectively).

Severity of Influenza-Like Illness and/or Pneumonia in the Community

- The rate of ILI and/or pneumonia-related hospitalizations per 100 inpatient beds decreased slightly (decreased by 15%) compared to the weighted moving average from the previous three weeks.
- 9% (4/46) of reporting hospitals stated that the number of ILI-related hospitalizations is currently “slightly elevated” or “elevated” compared to previous years. This is compared to 12% from the previous reporting week.
- There were no confirmed influenza-related deaths reported during Week 12, 2010.
 - There have been a total of 42 influenza-related deaths since June 1, 2009, of which 39 had confirmed 2009 H1N1.

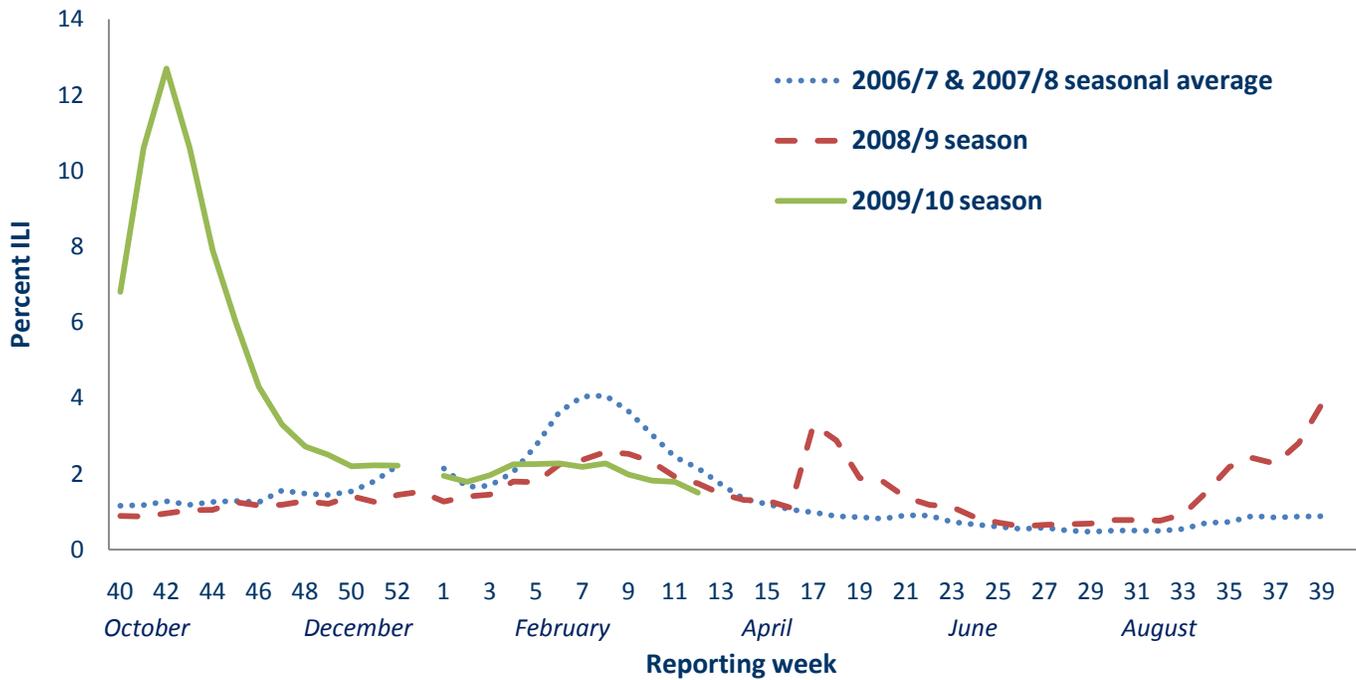
Effect of Influenza-like Illness on Populations at Risk

- ILI-related absentee rates in health care personnel remained stable compared to the weighted moving average from the previous three weeks (0.22 compared to 0.22 ILI-related absences per 100 employees, respectively).

Laboratory and Vaccination Information

- During Week 12, 2010, no specimens were submitted to the ISDH Laboratory for influenza testing.
- Since September 1, 2009, 98.4% (477/485) of specimens that were positive for influenza were 2009 H1N1.
 - 84% of the 2009 H1N1-positive specimens submitted have been collected from persons 0–24 years of age.
- Other respiratory viruses have been circulating in addition to influenza (e.g., Adenovirus, Enterovirus), but none were identified in samples submitted during Week 12, 2010.
- In Indiana, as of March 30, 2010, a total of 1,334,127 2009 H1N1 vaccinations had been given and recorded into the Children and Hoosiers Immunization Registry Program (CHIRP) database.
- According to CHIRP data, 29.23% of the estimated number of “high risk” persons in Indiana have received the 2009 H1N1 vaccine.
- Of the 320,350 children, 6 months–9 years of age, who have received the 1st dose of 2009 H1N1, 57% (182,651 children) received it >28 days ago and have not received the 2nd recommended dose.
 - A total of 106,581 children, 6 months–9 years of age, have received the recommended two doses of 2009 H1N1 (The CDC recommends that children, 6 months–9 years of age, receive two doses of 2009 H1N1 vaccine at least 28 days apart to have a high level of immunity).

Percent of patients who presented at an emergency department (ED) with a chief complaint relating to influenza-like illness — Indiana, 2009/10 & 2008/9 seasons vs. 2006/7 & 2007/8 seasonal averages.*† (EDs currently reporting = 76)
 Health District-level data is available at the end of this report.



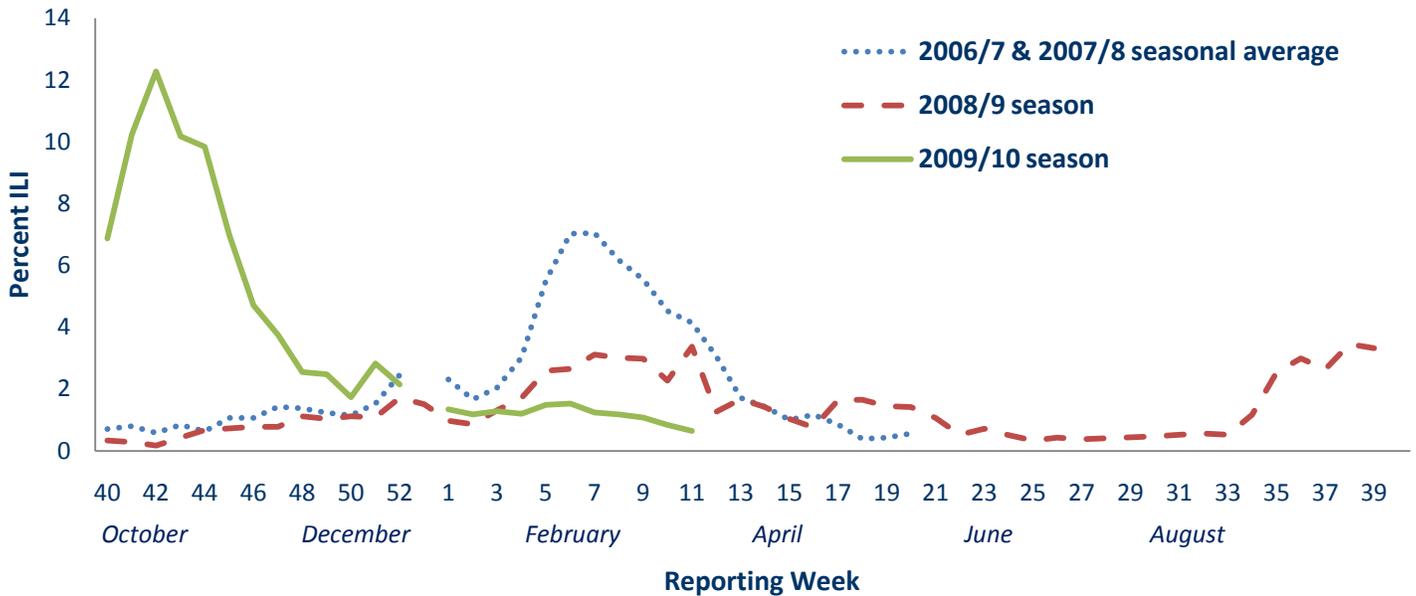
*Data obtained from the ISDH Public Health Emergency Surveillance System (PHESS). The 2008/9 season had a “Week 53” which the 2006/7, 2007/8, and 2009/10 seasons did not have, explaining the break in the lines.

† PHESS data is very timely, so the data reported is for the most current week.

Key Findings

- The percentage of ILI reported by the emergency department (ED) surveillance system decreased slightly compared to the previous week (1.5% compared to 1.8%, respectively).

Percent of patients who presented at sentinel provider clinics with symptoms relating to influenza-like illness — Indiana, 2009/10 & 2008/9 seasons vs. 2006/7 & 2007/8 seasonal averages.*† (Number of sentinel provider clinics who reported this week = 25)



*Data obtained from the ISDH Sentinel Influenza Surveillance System. No data is available for weeks 21-39 during the 2006/7 and 2007/8 seasons due to decreased reporting during traditionally non-influenza months. The 2008/9 season had a “Week 53” which the 2006/7, 2007/8, and 2009/10 seasons did not have, explaining the break in the lines.

† Sentinel data has limited timeliness, so the data reported is for the week before the most current week. This data is subject to change as sentinel sites can back-date their weekly reports.

Sentinel reported influenza-like illness (ILI) by sentinel type and reporting week — Indiana, 2009/10 season.*

Reporting Week	All Reporters (%ILI)	Universities (%ILI)	Non-Universities (%ILI)
Week 11, 2010	0.6	0.5	0.7
Week 10, 2010	0.8	0.5	1.0
Week 9, 2010	1.1	0.5	1.4

*Data obtained from the ISDH Sentinel Influenza Surveillance System. This data is subject to change as sentinel sites can back-date their weekly reports.

Sentinel reported influenza-like illness (ILI) by age category for the most current week reported — Indiana, 2009/10 season.*†

Age category (yrs)	Total number with ILI	Percent with ILI
0-4	10	26.3
5-24	15	39.5
25-49	10	26.3
50-64	2	5.3
65+	1	2.6
Total	38	100.0

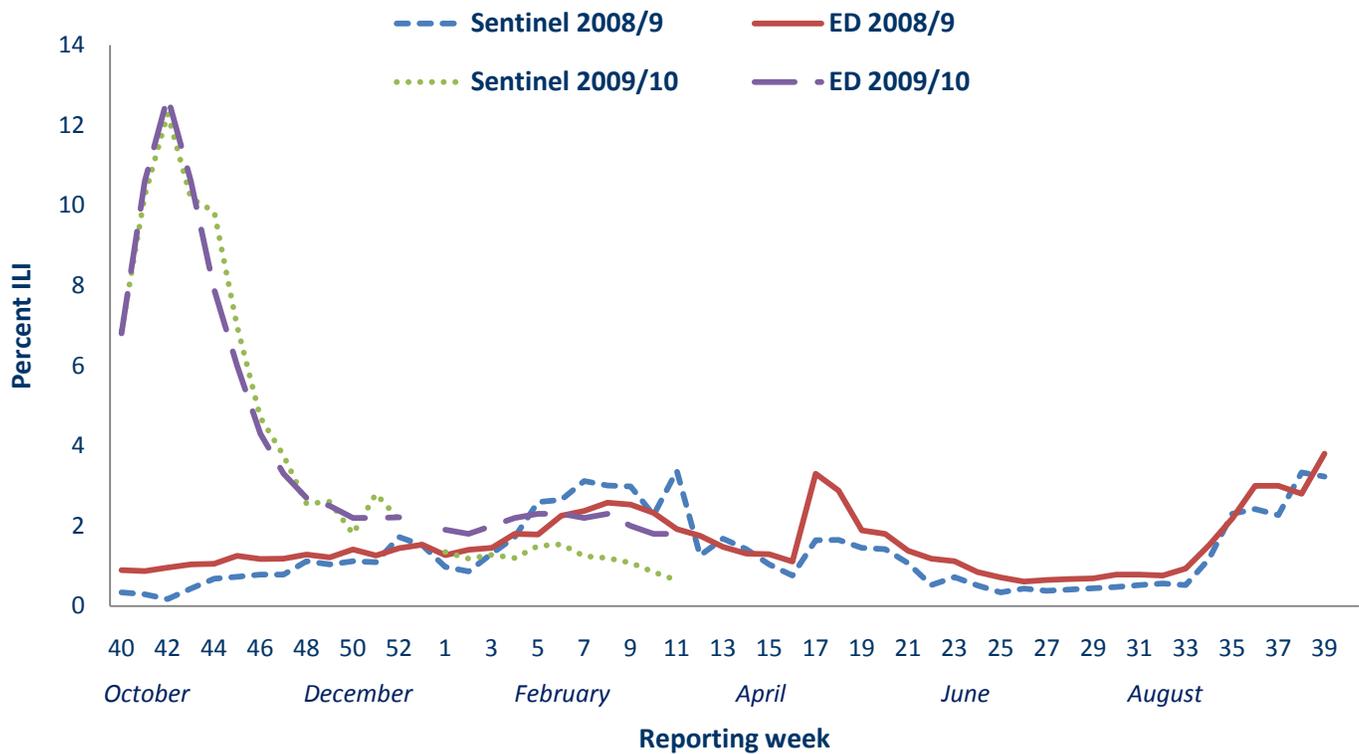
**Data obtained from the ISDH Sentinel Influenza Surveillance System.*

**Sentinel data has limited timeliness, so the data reported is for the week before the most current week. This data is subject to change as sentinel sites can back-date their weekly reports.*

Key Findings

- The percent of patients presenting at sentinel providers with ILI decreased slightly compared to the previous week (0.6% compared to 0.8%, respectively).

Emergency department versus sentinel provider clinic data regarding the percent of patients presenting with influenza-like illness — Indiana, 2008/9 and 2009/10 influenza seasons.*



*Data obtained from the ISDH Sentinel Influenza Surveillance System and the ISDH Public Health Emergency Surveillance System (PHESS). The 2008/9 season had a “Week 53” which the 2006/7, 2007/8, and 2009/10 seasons did not have, explaining the break in the lines.

† Sentinel data has limited timeliness, so the data reported is for the week before the most current week. This data is subject to change as sentinel sites can back-date their weekly reports.

Reporting Week	ED Surveillance (%ILI)	Sentinel Surveillance (%ILI)
Week 11, 2010	1.8	0.6
Week 10, 2010	1.8	0.8
Week 9, 2010	2.0	1.1

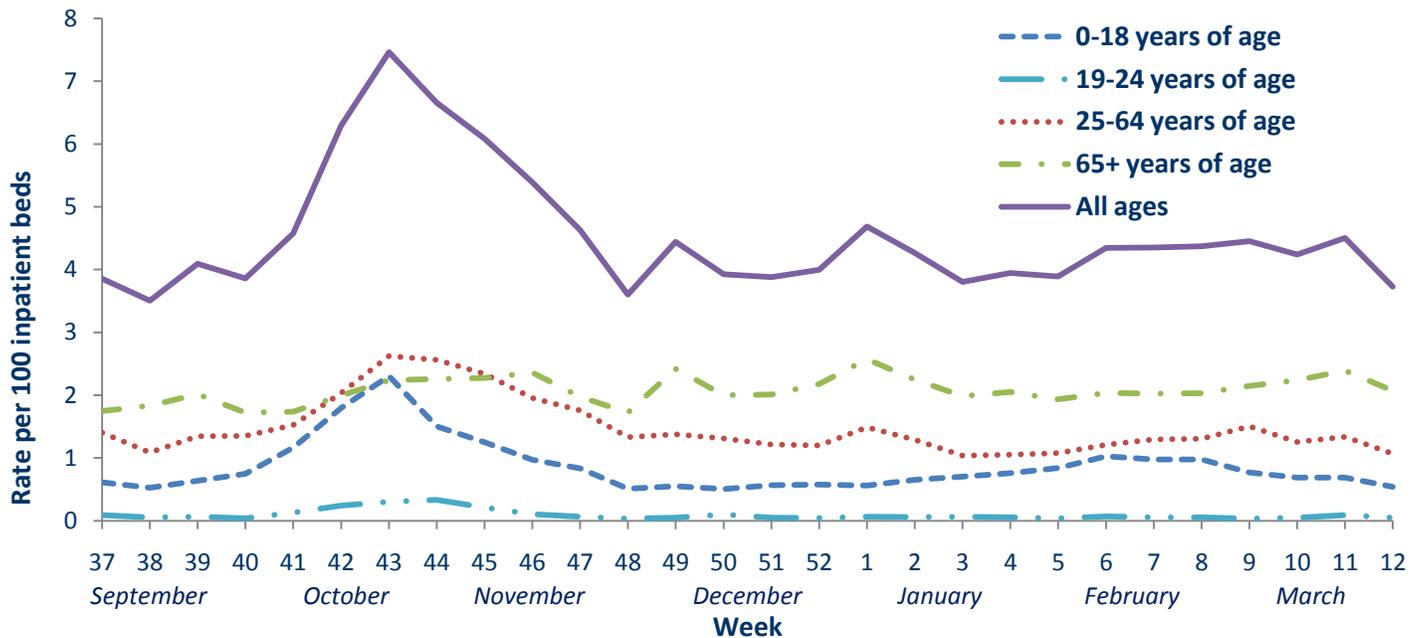
Key Findings

- During Week 11, 2010, the percentage of patients presenting with ILI reported by EDs and sentinel clinics remained stable and decreased slightly, respectively, compared to the previous week.
 - Overall, the sentinel and emergency department ILI data continue to follow common trends.

Number of newly hospitalized patients with influenza-like illness and/or pneumonia syndrome, by age category — Indiana, 2009/10 influenza season. Health District-level data is available at the end of this report.*

	This week's numbers [56 hospitals (12,177 beds) reporting]			2010 total		Total since September 9, 2009	
	Age category (yrs)	Total number	Rate per 100 inpatient beds †	Total number	Rate per 100 inpatient beds †	Total number	Rate per 100 inpatient beds †
Number of persons hospitalized with influenza and/or pneumonia syndrome	0-4	53	0.44	1,123	0.64	2,589	0.58
	5-18	13	0.11	237	0.14	1,368	0.31
	19-24	6	0.05	101	0.06	434	0.10
	25-49	40	0.33	837	0.48	2,895	0.65
	50-64	90	0.74	1,343	0.77	3,777	0.85
	65+	252	2.07	3,749	2.14	9,219	2.07
	Unknown	0	0.00	9	0.01	74	0.02
	Total	454	3.73	7,399	4.22	20,356	4.58

Rate of new influenza-like illness and/or pneumonia syndrome hospitalizations per 100 available inpatient beds, by reporting week and age category — Indiana, 2009/10 influenza season.* † (Some age categories were grouped to improve the ability to decipher the figure)



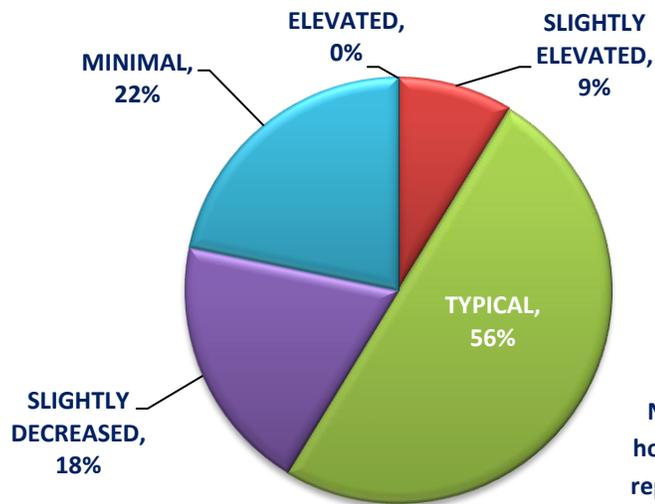
*Data obtained from the ISDH Pneumonia and Influenza Hospitalization Surveillance Program. This data was collected and reported by infection preventionists and other staff from hospitals throughout Indiana. It reflects cases who presented with symptoms or had ICD-9/10 codes relating to influenza-like illness and/or pneumonia.

†The number of inpatient beds is the total number of available inpatient beds currently available at the reporting hospitals and include the following bed classifications: intensive care unit, medical and surgical, medical and surgical negative pressure isolation, pediatrics, pediatric intensive care unit, emergency department, emergency department negative pressure isolation, and skilled beds.

Key Findings

- The rate of ILI and/or pneumonia-related hospitalizations per 100 inpatient beds decreased slightly (decreased by 15%) compared to the weighted moving average from the previous three weeks.
 - A weighted moving average (utilizing the previous three weeks' data) is used as the baseline to determine if significant increases/decreases are occurring in ILI and pneumonia -related hospitalization rates.
- Reported cases of pneumonia syndrome are inclusive of all pneumonias, not just influenza-associated pneumonias (e.g., Klebsiella, MRSA).
- The hospitalization data were reported from either admitting or discharge diagnosis depending on each hospital's ability to report their data.

Extent of the burden of influenza-like illness-related hospitalizations per hospital reports — Indiana, Current Reporting Week, 2009/10 influenza season.*



**N = 46
hospitals
reporting**

ELEVATED = Highly elevated number of ILI-related hospitalizations compared to previous years (more than double)
SLIGHTLY ELEVATED = Slight increase in the number of ILI-related hospitalizations compared to previous years
TYPICAL = Roughly the same number of ILI-related hospitalizations compared to previous years
SLIGHTLY DECREASED = Decreased number of ILI-related hospitalizations compared to previous years
MINIMAL = No/minimal ILI-related hospitalizations compared to previous years

**Data obtained from the ISDH Pneumonia and Influenza Hospitalization Surveillance Program. This data was collected and reported by infection preventionists and other staff from hospitals throughout Indiana. It reflects each hospital's perception of the burden of influenza-like illness*

Key Findings

- 9% (4/46) of reporting hospitals stated that the number of ILI-related hospitalizations is currently “slightly elevated” or “elevated” compared to previous years. This is compared to 12% from the previous reporting week.

Number of new deaths associated with influenza-like illness and/or pneumonia syndrome, by age category — Indiana, 2009/10 influenza season. Health District-level data is available at the end of this report.*

	This week's numbers [56 hospitals (12,177 beds) reporting]		2010 totals	Numbers since September 9, 2009
	Age category (yrs)	Total number	Total number	Total number
Number of deaths associated with influenza and/or pneumonia syndrome	0-4	0	0	2
	5-18	0	1	6
	19-24	0	0	4
	25-49	0	9	41
	50-64	0	25	71
	65+	8	138	319
	Unknown	0	2	6
	Total	8	175	449

**Data obtained from the ISDH Pneumonia and Influenza Hospitalization Surveillance Program. This data was collected and reported by infection preventionists and other staff from hospitals throughout Indiana. It reflects case patients who presented with symptoms or had ICD-9/10 codes relating to influenza-like illness and/or pneumonia.*

Key Findings

- The 8 reported Indiana deaths were from ILI and/or pneumonia syndrome. These are not confirmed 2009 H1N1 deaths or influenza-associated pneumonias.
- Influenza associated deaths are reportable to the health department within 72 hours of knowledge of death under the communicable disease rule.

Number of new deaths associated with laboratory confirmed influenza, by age category – Indiana, June 2009-present*

	This week's numbers		2010 totals	Numbers since June 1, 2009
	Age category (yrs)	Number of influenza deaths (# with confirmed 2009 H1N1)	Number of influenza deaths (# with confirmed 2009 H1N1)	Number of influenza deaths (# with confirmed 2009 H1N1)
Number of deaths associated with influenza and/or pneumonia syndrome	0-4	0(0)	0(0)	3(3)
	5-18	0(0)	0(0)	4(3)
	19-24	0(0)	0(0)	4(4)
	25-49	0(0)	2(1)	20(19)
	50-64	0(0)	1(1)	6(6)
	65+	0(0)	1(1)	4(3)
	Unknown	0(0)	0(0)	1(1)
	Total	0(0)	4(3)	42(39)

**Data obtained from the ISDH Laboratory and via the Indiana mandatory influenza-related death reporting rule. The case must be a confirmed influenza case to be counted.*

Key Findings:

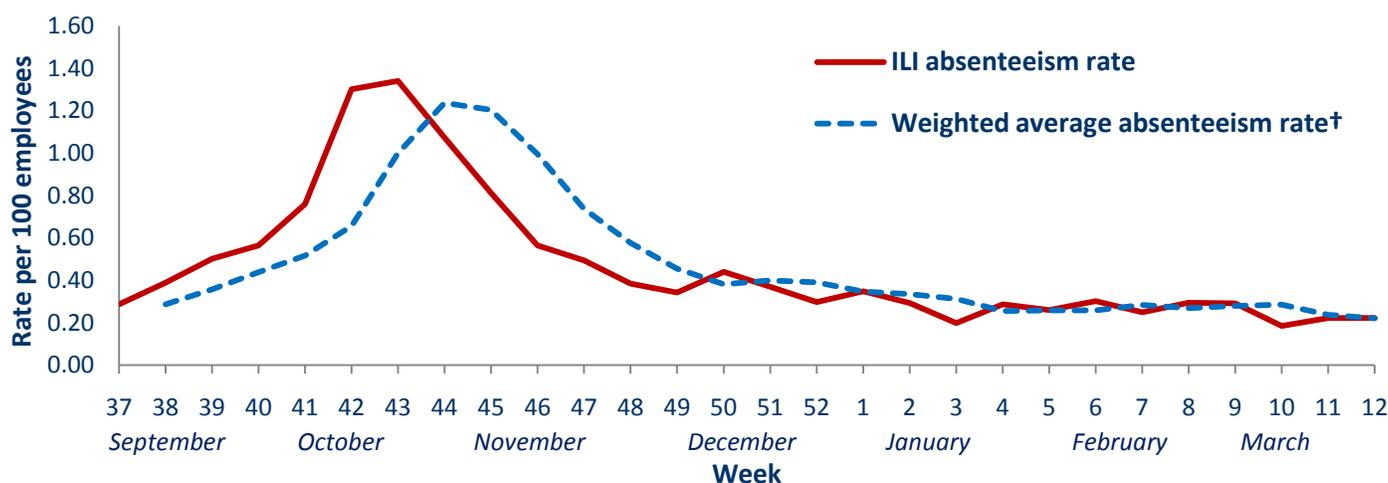
- There were no confirmed influenza-related deaths reported during Week 12, 2010.
 - There have been a total of 42 influenza-related deaths since June 1, 2009, of which 39 had confirmed 2009 H1N1.

Number of health care personnel who missed work due to influenza-like illness — Indiana, 2009/10 influenza season. Health District-level data is available at the end of this report.*

	This week's numbers (42 hospitals reporting)	2010 average	Weekly average since September 9, 2009
Total with ILI	89	126	261
Total # of employees	40,019	47,611	51,954
Rate per 100 employees	0.22	0.26	0.50

**Data obtained from the ISDH Pneumonia and Influenza Hospitalization Surveillance Program. This data was collected and reported by infection preventionists and other staff from hospitals throughout Indiana. It reflects the number of health care personnel who reported missing work due to influenza-like illness in a given week.*

Rate of health care professional ILI-related absenteeism – Indiana, 2009/10 influenza season*



**Data obtained from the ISDH Pneumonia and Influenza Hospitalization Surveillance Program.*

† The “weighted average absenteeism rate” is a weighted moving average that utilizes data from the previous three reporting weeks. It is used as a threshold to determine if the current week’s rate is higher or lower than what is expected based on previous weeks’ data. There is no comparison data for Week 37.

Number of health care personnel who missed work due to any illness — Indiana, 2009/10 influenza season. Preparedness District-level data is available at the end of this report. (This data was reported only if a hospital was unable to report influenza-like illness-related absences.)*

	This week's numbers (4 hospitals reporting)	2010 average	Weekly average since September 9, 2009
Total with any illness	153	211	197
Total # of employees	5,241	9,266	8,782
Rate per 100 employees	2.92	2.28	2.24

**Data obtained from the ISDH Pneumonia and Influenza Hospitalization Surveillance Program. This data was collected and reported by infection preventionists and other staff from hospitals throughout Indiana. It reflects the number of health care personnel who reported missing work due to any illness in a given week.*

Key Findings:

- ILI-related absentee rates in health care personnel remained stable compared to the weighted moving average from the previous three weeks.
 - 0.22 compared to 0.22 ILI-related absences per 100 employees, respectively.

ISDH Laboratory data regarding circulating influenza viruses — Indiana, 2009/10 influenza season.*

PCR Result	This week's total		2010 total		Total since September 1, 2009	
	Number	Percent of specimens received	Number	Percent of specimens received	Number	Percent of specimens received
Pandemic 2009 A/H1N1 virus	0	0%	15	20%	477	48%
Influenza A/H3 seasonal virus	0	0%	0	0%	6	<1%
Influenza A/H1 seasonal virus	0	0%	0	0%	0	0%
Influenza B seasonal virus	0	0%	1	1%	2	<1%
Influenza negative	0	0%	56	76%	473	47%
Inconclusive	0	0%	1	1%	13	1%
Unsatisfactory specimen†	0	0%	1	1%	32	3%
Total	0	0%	74	100%	1003	100%

*Data obtained from the ISDH Laboratory via specimens submitted from the ISDH Sentinel Influenza Surveillance System.

†Unsatisfactory specimens include specimens that leaked in transit, were too long in transit, or were inappropriately labeled.

2009 H1N1-positive samples by age group — Indiana, 2009/10 influenza season.*

	Age category (yrs)	This week's numbers		2010 totals		Since September 1, 2009	
		Total number	Percent by age group	Total number	Percent by age group	Total number	Percent by age group
2009 H1N1-positive specimens	0-4	0	0%	0	0%	38	8%
	5-18	0	0%	1	7%	135	28%
	19-24	0	0%	11	73%	229	48%
	25-49	0	0%	1	7%	51	11%
	50-64	0	0%	2	13%	17	4%
	65+	0	0%	0	0%	3	<1%
	Unknown	0	0%	0	0%	4	<1%
	Total	0	0%	15	100%	477	100%

*Data obtained from the ISDH Laboratory via specimens submitted from the ISDH Sentinel Influenza Surveillance System.

OTHER CIRCULATING VIRUSES RECENTLY IDENTIFIED BY THE ISDH LABORATORY:

Other Respiratory Viruses	This Week	2010 Total	Total Since Sept. 1
Adenovirus	0	3	3
Coxsackie B Virus	0	0	24
Echovirus	0	0	3
Enterovirus NOS	0	5	44
Influenza B Virus	0	0	1
Parainfluenza 1 Virus	0	1	5
Parainfluenza 2 Virus	0	0	7
Parainfluenza 3 Virus	0	0	1
Rhinovirus	0	0	12
Total	0	9	100

Key Findings:

- During Week 12, 2010, no specimens were submitted to the ISDH Laboratory for influenza testing.
- Since September 1, 2009, 98.4% (477/485) of specimens that were positive for influenza were 2009 H1N1.
 - 84% of the 2009 H1N1-positive specimens submitted have been collected from persons 0–24 years of age.
- Other respiratory viruses have been circulating in addition to influenza (e.g., Adenovirus, Enterovirus), but none were identified in samples submitted during Week 12, 2010.

2009 H1N1 vaccinations administered and recorded in the Children and Hoosiers Immunization Registry Program (CHIRP) database, by county of residence — Indiana, data as of March 30, 2010*

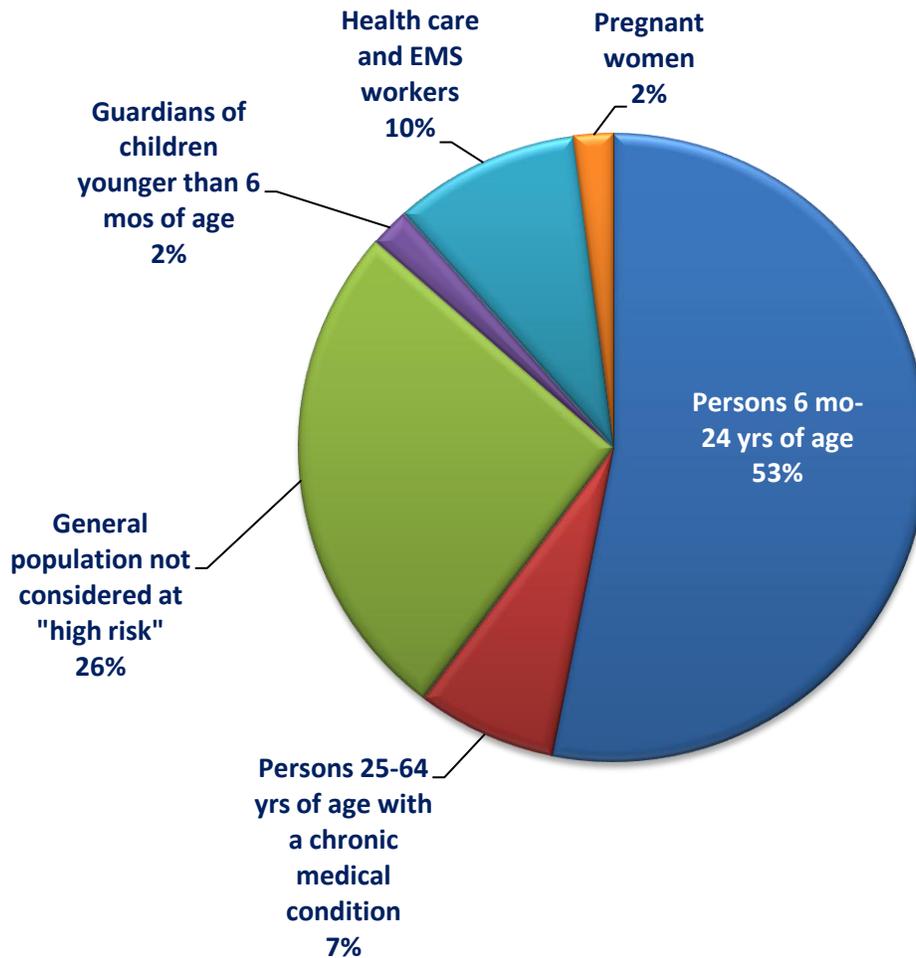
County	Persons 6 months to 24 yrs of age	Persons with chronic health conditions, 25 to 64 yrs of age	General population	Guardians of children younger than 6 months of age	Health care and EMS workers	Pregnant woman	Total vaccinated, by county of residence
Adams	4,154	408	1,215	227	809	136	6,949
Allen	31,827	3,289	18,273	3,260	7,903	1,622	66,174
Bartholomew	10,025	1,591	4,922	449	1,875	423	19,285
Benton	840	200	708	32	108	18	1,906
Blackford	1,469	313	631	94	425	53	2,985
Boone	6,975	1,135	3,827	313	1,593	304	14,147
Brown	1,752	524	987	67	366	65	3,761
Carroll	1,625	322	1,338	50	235	45	3,615
Cass	5,787	657	2,586	110	1,018	151	10,309
Clark	16,337	957	7,868	157	1,286	338	26,943
Clay	2,925	373	1,079	58	673	60	5,168
Clinton	4,184	632	2,303	143	710	124	8,096
Crawford	668	134	789	21	103	18	1,733
Daviess	3,156	348	1,307	169	585	132	5,697
De Kalb	5,586	423	3,103	92	820	191	10,215
Dearborn	7,321	863	2,658	77	780	205	11,904
Decatur	3,996	333	2,002	78	420	137	6,966
Delaware	9,923	2,630	7,096	350	3,156	541	23,696
Dubois	7,159	393	2,033	247	936	214	10,982
East Chicago	2,087	193	845	43	107	29	3,304
Elkhart	30,639	1,962	7,511	501	3,400	805	44,818
Fayette	2,783	972	1,282	184	585	93	5,899
Floyd	9,088	1,019	4,525	45	1,122	352	16,151
Fountain	2,088	253	1,068	33	194	50	3,686
Franklin	2,239	392	1,190	52	194	52	4,119
Fulton	2,736	556	727	197	421	49	4,686
Gary City HD	2,148	117	741	19	98	15	3,138
Gibson	3,529	411	3,010	166	615	154	7,885
Grant	7,849	630	4,636	169	1,436	292	15,012
Greene	3,586	632	1,406	126	812	81	6,643
Hamilton	47,235	3,026	17,107	1,586	5,751	1,806	76,511
Hancock	10,504	1,279	3,661	445	1,475	373	17,737
Harrison	5,263	380	2,839	80	620	91	9,273
Hendricks	20,098	2,370	8,956	783	3,673	912	36,792
Henry	4,936	1,163	4,030	260	1,398	162	11,949
Howard	5,913	1,251	5,102	131	1,889	326	14,612
Huntington	4,319	852	2,169	277	896	178	8,691
Jackson	3,982	695	3,647	53	806	183	9,366
Jasper	2,286	457	1,719	86	550	113	5,211
Jay	2,216	385	1,219	132	654	93	4,699
Jefferson	5,653	756	2,912	129	965	201	10,616

County	Persons 6 months to 24 yrs of age	Persons with chronic health conditions, 25 to 64 yrs of age	General population	Guardians of children younger than 6 months of age	Health care and EMS workers	Pregnant woman	Total vaccinated, by county of residence
Jennings	3,851	533	1,448	206	746	102	6,886
Johnson	10,236	2,268	7,808	496	2,317	611	23,736
Knox	3,473	1,211	2,169	129	1,303	210	8,495
Kosciusko	6,155	1,386	2,916	387	1,445	355	12,644
La Porte	13,240	1,769	5,270	247	2,124	406	23,056
Lagrange	3,600	527	1,157	67	424	107	5,882
Lake	25,393	3,750	9,534	951	5,249	678	45,555
Lawrence	3,994	754	2,949	83	1,002	176	8,958
Madison	7,161	1,953	5,525	219	2,836	496	18,190
Marion	87,571	10,362	42,692	2,745	11,815	3,543	158,728
Marshall	4,651	505	2,224	72	846	95	8,393
Martin	1,146	276	587	38	126	52	2,225
Miami	3,041	882	1,445	75	560	127	6,130
Monroe	18,130	2,745	7,920	366	3,175	634	32,970
Montgomery	3,530	768	2,637	96	767	170	7,968
Morgan	9,094	1,474	3,252	186	1,038	292	15,336
Newton	1,167	246	562	16	122	36	2,149
Noble	4,039	379	2,426	121	824	149	7,938
Ohio	961	121	633	46	196	25	1,982
Orange	2,510	572	973	98	328	74	4,555
Out of State	6,139	1,454	7,161	399	3,445	436	19,034
Owen	1,675	465	746	158	325	47	3,416
Parke	1,576	418	1,293	22	221	29	3,559
Perry	2,034	757	1,757	160	336	61	5,105
Pike	1,842	431	995	218	378	102	3,966
Porter	19,352	1,637	6,067	1,366	2,938	469	31,829
Posey	1,911	413	1,447	172	586	85	4,614
Pulaski	2,006	270	967	79	348	53	3,723
Putnam	3,191	155	2,391	48	494	70	6,349
Randolph	3,438	721	1,383	246	753	119	6,660
Ripley	6,738	627	3,146	172	1,019	208	11,910
Rush	1,715	461	841	95	486	55	3,653
Scott	3,744	602	1,475	68	334	96	6,319
Shelby	5,768	1,607	1,791	314	842	214	10,536
Spencer	2,541	480	1,470	85	349	77	5,002
St. Joseph	33,175	3,712	11,384	1,520	5,321	1,359	56,471
Starke	2,066	577	982	79	419	50	4,173
Steuben	2,170	364	3,119	74	347	66	6,140
Sullivan	2,365	111	1,412	18	489	71	4,466
Switzerland	1,256	266	1,015	45	169	43	2,794
Tippecanoe	17,219	3,090	11,644	567	4,175	841	37,536
Tipton	2,396	129	1,245	40	343	48	4,201
Union	967	381	382	169	264	29	2,192

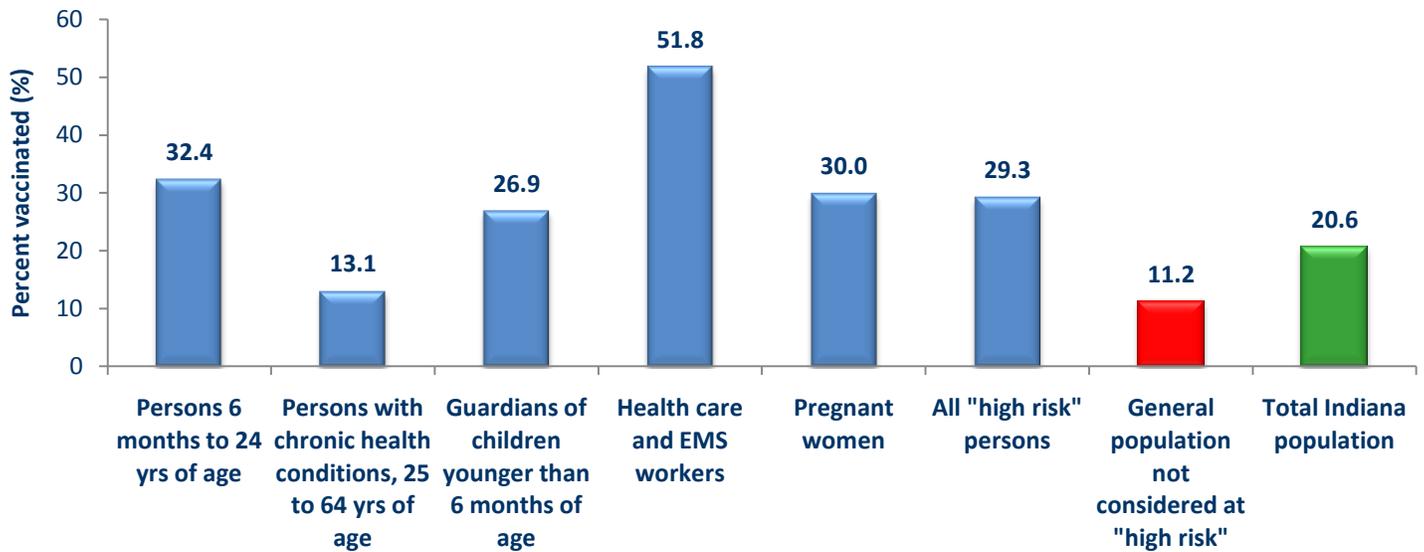
County	Persons 6 months to 24 yrs of age	Persons with chronic health conditions, 25 to 64 yrs of age	General population	Guardians of children younger than 6 months of age	Health care and EMS workers	Pregnant woman	Total vaccinated, by county of residence
Vanderburgh	15,001	2,270	13,819	731	5,039	712	37,572
Vermillion	2,031	199	778	16	237	21	3,282
Vigo	12,137	730	4,544	70	1,916	450	19,847
Wabash	3,339	570	1,972	132	654	140	6,807
Warren	861	101	557	16	229	31	1,795
Warrick	8,733	773	5,363	339	1,929	418	17,555
Washington	1,785	841	1,279	69	415	63	4,452
Wayne	9,208	1,743	4,734	394	1,680	318	18,077
Wells	3,364	424	1,187	164	706	121	5,966
White	2,496	426	1,691	129	359	149	5,250
Whitley	3,438	309	2,025	175	673	151	6,771
Grand Total	707,506	95,271	351,216	26,484	126,923	26,727	1,334,127

*While all 2009 H1N1 vaccine administrations are required to be entered into the CHIRP database, there can be a delay between the time the vaccine is given and when it is recorded. Therefore, the true number of 2009 H1N1 vaccines that have been given is larger than the amount documented in this report.

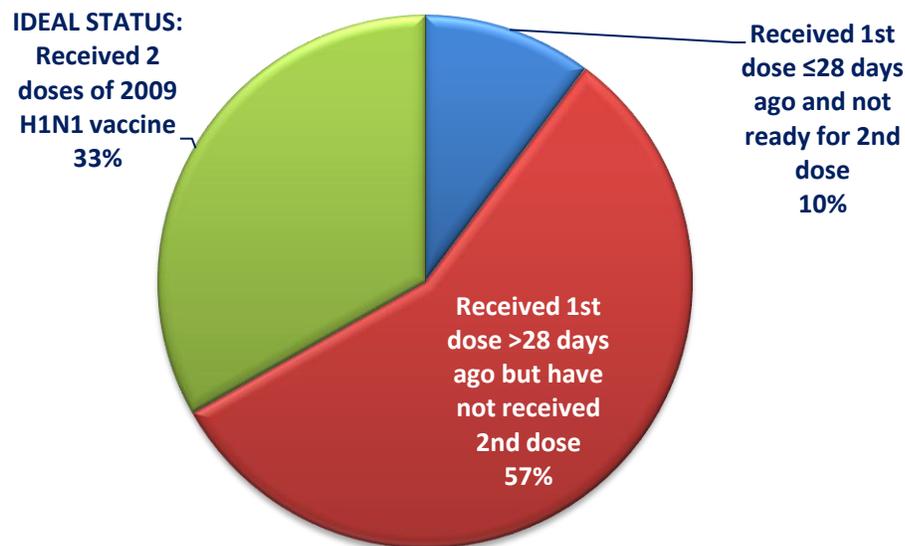
Percent of 2009 H1N1 vaccine distributed, by risk category — Indiana, data reported into CHIRP as of March 30, 2010



Percent of the estimated number of Indiana residents in each risk category who have received the 2009 H1N1 vaccine — data reported into CHIRP as of March 30, 2010 (“Out of state” vaccine recipients were removed from calculation)



Percent of children, 6 months–9 years of age, who have received the recommended two doses of 2009 H1N1 vaccine — Indiana, data reported into CHIRP as of March 30, 2010. (320,350 children under the age of 10 years have received at least one dose of 2009 H1N1 vaccine. The CDC recommends that children, 6 months–9 years of age, receive two doses of 2009 H1N1 vaccine at least 28 days apart to have a high level of immunity.)



Key Findings:

- In Indiana, as of March 30, 2010, a total of 1,334,127 2009 H1N1 vaccinations had been given and recorded into the Children and Hoosiers Immunization Registry Program (CHIRP) database.
- According to CHIRP data, 29.23% of the estimated number of “high risk” persons in Indiana have received the 2009 H1N1 vaccine.
- Of the 320,350 children, 6 months–9 years of age, who have received the 1st dose of 2009 H1N1, 57% (182,651 children) received it >28 days ago and have not received the 2nd recommended dose.
 - A total of 106,581 children, 6 months–9 years of age, have received the recommended two doses of 2009 H1N1 (The CDC recommends that children, 6 months–9 years of age, receive two doses of 2009 H1N1 vaccine at least 28 days apart to have a high level of immunity).

DISTRICT RATES & TRENDS

March 29, 2010

Pneumonia and Influenza Hospitalization Surveillance

Hospitalization (inpatient beds) and health care professional (HCP) rates by District, illustrated by a swatch. Each swatch quadrant represents a specific measurement. Districts with no report left blank.

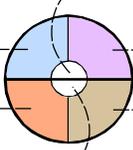
Hospitalization Rate

Rate of hospitalizations for ILI per 100 inpatient beds from reporting hospitals.

Attributable Mortality Rate

Mortality rate attributable to ILI per 100 inpatient beds from reporting hospitals.

% of inpatient beds with data available*



% of hospitals reporting HCP data

HCP Illness Rate

Rate of general illness in HCP per 100 employees. Used if ILI cannot be measured.

HCP Influenza-like Illness Rate

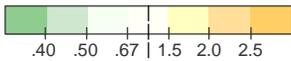
Rate of ILI in HCP per 100 employees.

X = Incomplete data

Public Health Emergency Surveillance System

Emergency department (ED) complaints of ILI by District. Each district is shaded by the current rate compared to its moving average.

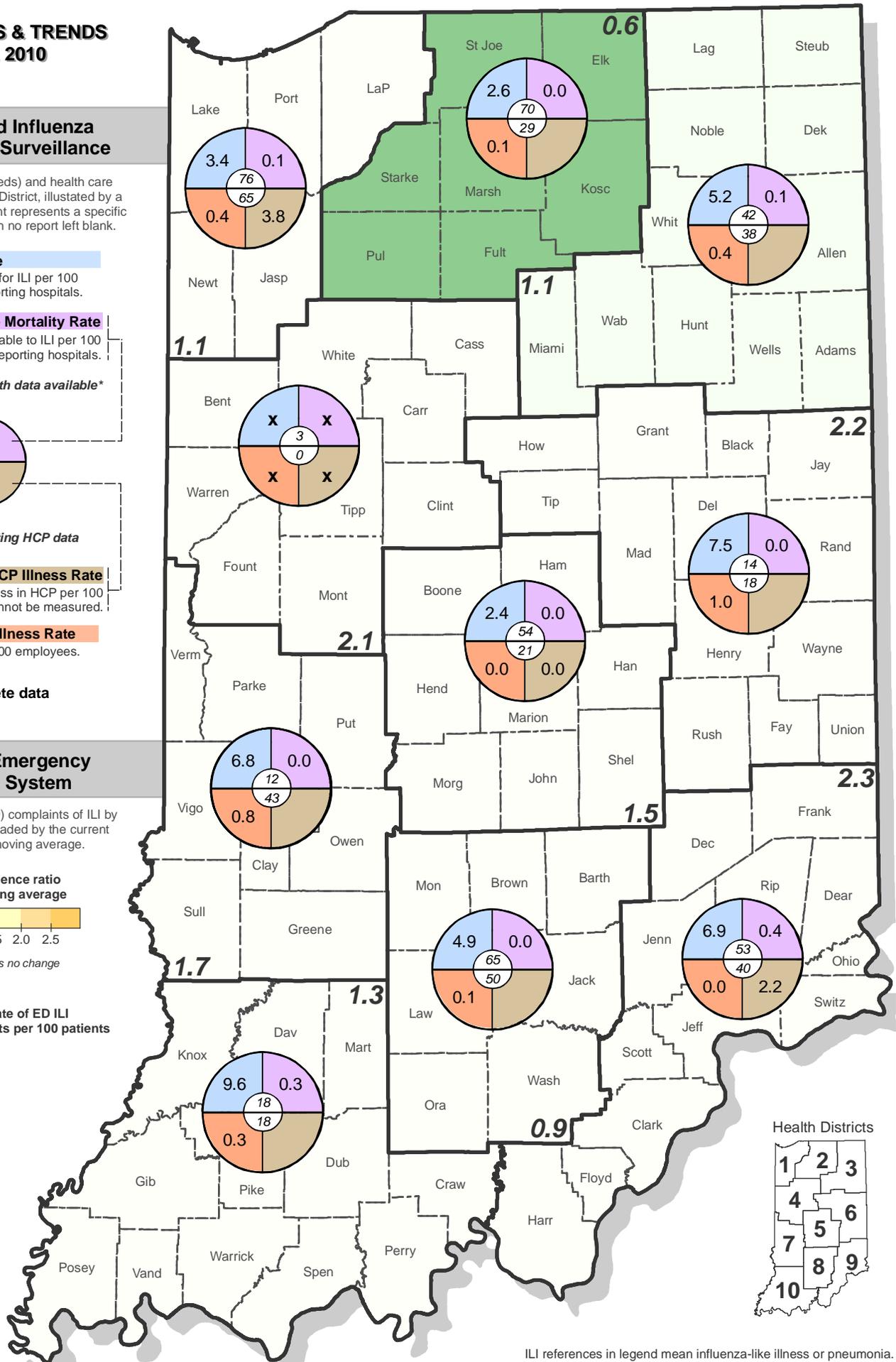
Change in prevalence ratio from 3-week moving average



A value of 1 indicates no change



District rate of ED ILI complaints per 100 patients



ILI references in legend mean influenza-like illness or pneumonia. Statistical significance not considered. *Total number of inpatient beds at reporting hospitals divided by the number of inpatient beds available, by District. Map compiled by the Epidemiology Resource Center, Indiana State Department of Health.