2015-2016 Influenza Report

Week 14

April 3 - April 9, 2016

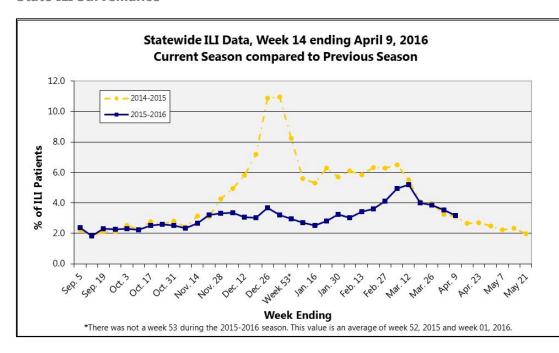
About our flu activity reporting

MSDH relies upon selected sentinel health practitioners across the state to report the percentage of total patient visits consistent with an influenza-like illness (ILI: fever of 100°F or higher AND cough and/or sore throat). Also, providers are supplied with specimen collection kits. Samples are submitted to the Mississippi Public Health Laboratory for influenza PCR testing. Reports are used to estimate the state's ILI rate and the magnitude of the state's influenza activity. Reports represent only the distribution of flu in the state, not an actual count of all flu cases statewide. *Information is provisional only and may change depending on additional reporting from sentinel providers.*

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State ILI Surveillance



During week **14** (04/03/16-04/09/16), the overall state ILI rate (**3.2%**) was **comparable** to the previous week (**3.5%**) and to this time last year (**3.1%**).

Figure 1

Total number of patients treated by sentinel providers in the last three weeks. | Table 1

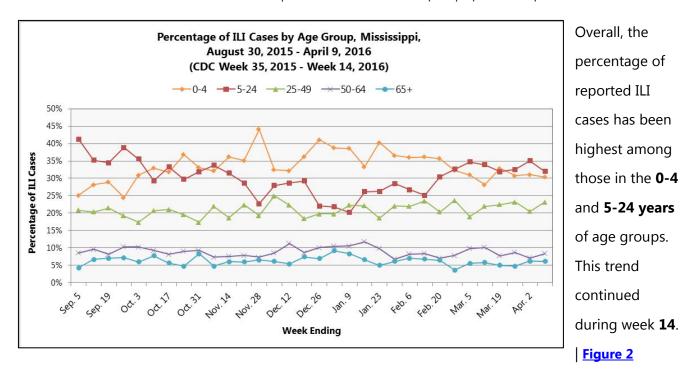
2015-2016 Influenza Season						
CDC Week	Week Ending	Number of ILI Reports	Total patients	ILI symptoms	ILI Rate (%)	
14	Apr. 09	135	19526	622	3.2%	
13	Apr. 02	149	19384	688	3.5%	
12	Mar. 26	154	20160	780	3.9%	

During week 14, two districts (3 and 6) had an increase in ILI activity, while two districts (2 and 9) had

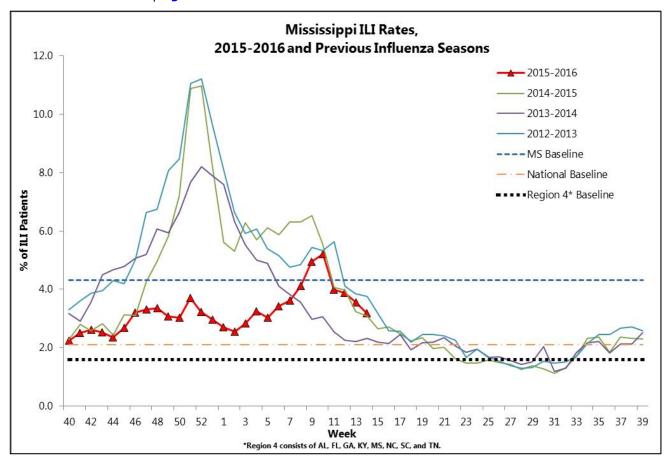
a decrease. **Five** districts (1, 4, 5, 7, and 8) remained about the same. *Information is provisional only and may change* depending on additional reporting from sentinel providers. | **Table 2**



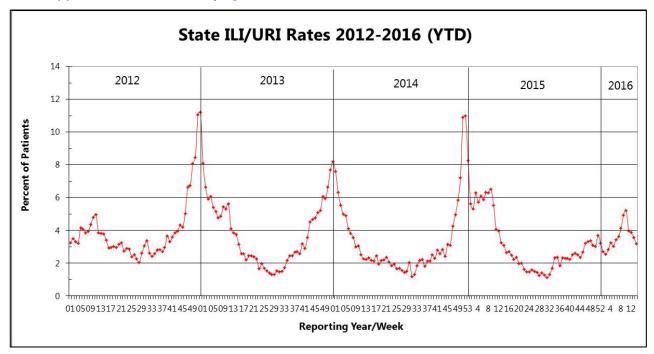
MSDH District ILI Rates (%) 2015-2016					
District	Week 13	Week 14			
State	3.5	3.2			
I	4.7	4.3			
II	5.5	2.6			
III	4.8	5.6			
IV	3.4	3.4			
V	2.2	2.6			
VI	3.9	5.3			
VII	3.2	2.9			
VIII	3.5	3.1			
IX	4.1	3.0			



The 2015-16 state ILI rate was **above** the national and Region 4 baselines, but was **below** the state baseline, for week **14**. | Figure 3



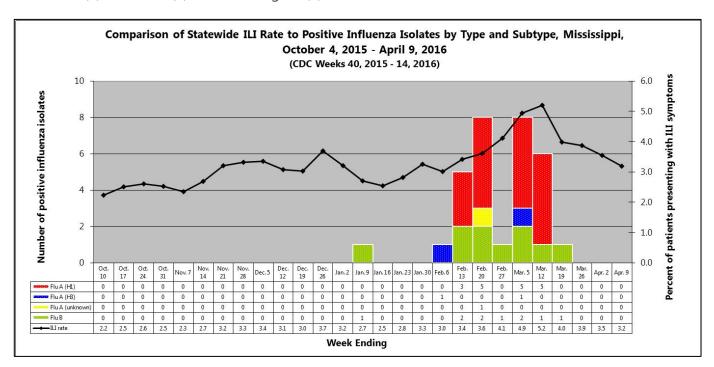
Mississippi ILI Rates 2012-2016 | Figure 4



Flu Testing Reports

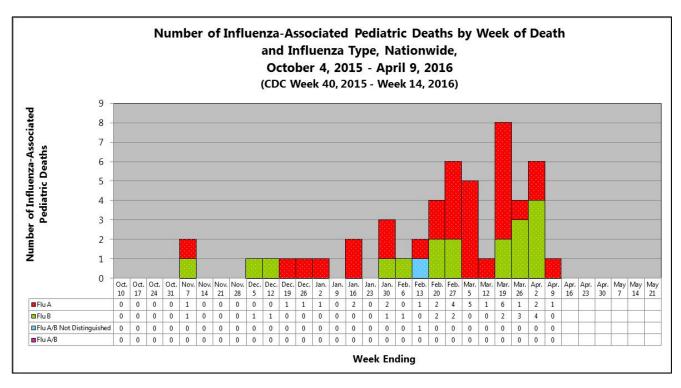
From week **40** (week ending October 10th) through week **14** (week ending April 9th), 31 positive influenza samples were identified by MSDH. Eighteen (58%) samples were identified as influenza A (H1), two (6%) as influenza A (H3), one as influenza A (unknown) (3%), and ten (32%) were identified as influenza B. | Figure 5

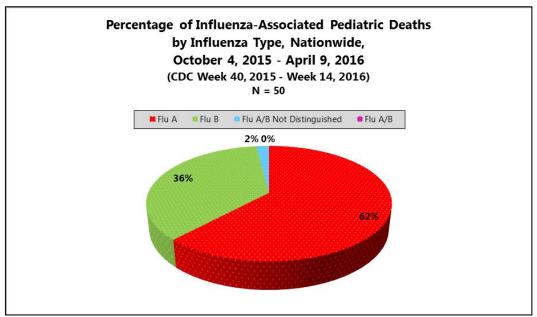
The influenza cases were identified from the following counties: Chickasaw (1), Covington (1), Forrest (1), Humphreys (3), Jones (2), Lafayette (7), Lawrence (1), Leake (2), Lee (1), Marshall (5), Monroe (2), Oktibbeha (1), Pontotoc (3), and Washington (1).



National and Mississippi Pediatric Mortality Surveillance

Nationally, **ten** influenza-associated pediatric deaths were reported to CDC during week **14**. Two deaths were associated with an influenza A (H1N1)pdm09 virus and occurred during weeks 11 and 13 (weeks ending March 19th and April 2nd) and one death was associated with an influenza A (H3) virus and occurred during week 13. One death was associated with an influenza A virus for which no subtyping was performed and occurred during week 14 (week ending April 9th). Six deaths were associated with an influenza B virus and occurred during weeks 12 and 13 (weeks ending March 26th and April 2nd). **Fifty** influenza-associated pediatric deaths have been reported during the 2015-2016 season. | **Figure 6**





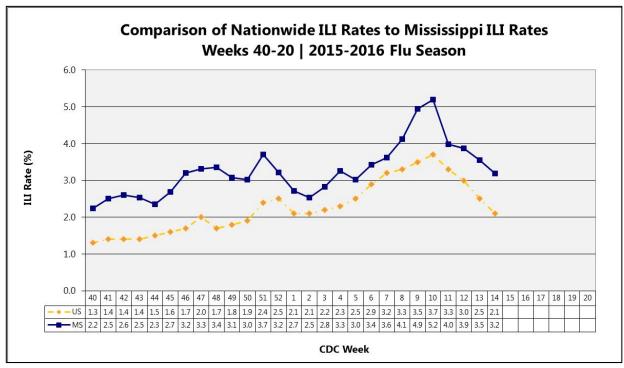
Of the **50** influenza-associated pediatric deaths reported nationally during the 2015-2016 season, 31 (62%) have been attributed to influenza A viruses, 18 (36%) to influenza B viruses, and one (2%) to an influenza A/B virus. | Figure 7

Mississippi has had

2015- 2016 Influenza Season | Week 14 Influenza Report | Apr. 03 – Apr. 09, 2016 **one** influenza-associated pediatric death reported during this influenza season. For additional information on influenza-associated pediatric deaths, please refer to the <u>CDC's FluView</u>.

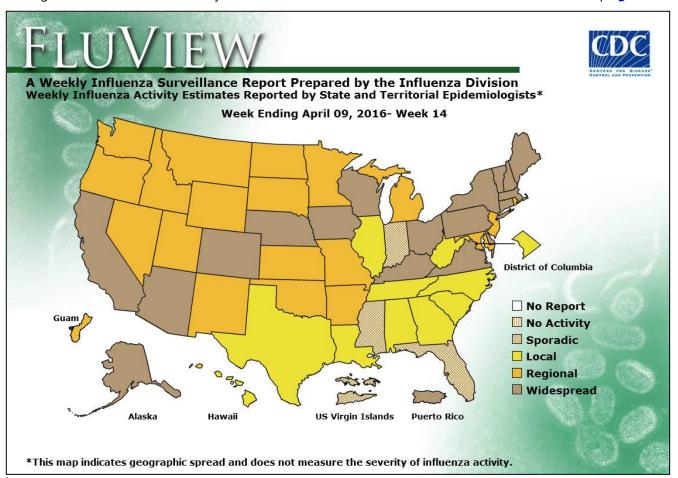
National ILI Surveillance

For week **14**, the MS ILI rate (3.2%) was **above** the national ILI rate (2.1%). | Figure 8



US ILI rates from the Centers for Disease Control and Prevention: http://www.cdc.gov/flu/weekly/.

During week 14, influenza activity decreased, but remained elevated in the United States. | Figure 9



¹For up-to-date information on flu activity nationwide, please refer to the CDC's website: http://www.cdc.gov/flu/weekly/fluactivitysurv.htm.

Mississippi reported "Sporadic" for the influenza activity during week 14. | Table 3

Level of Flu Activity	Definition
No Activity	Overall clinical activity remains low and there are no lab confirmed cases.
Sporadic	Isolated cases of lab confirmed influenza in the state; ILI activity is not increased <u>OR</u> A lab-confirmed outbreak in a single institution in the state; ILI activity is not increased.
Local	Increased ILI within a single region AND recent (within the past 3 weeks) laboratory evidence of influenza in that region. ILI activity in other regions is not increased <u>OR</u> two of more institutional outbreaks (ILI or lab confirmed) within a single region AND recent (within the past 3 weeks) lab confirmed influenza in that region. Other regions do not have increased ILI and virus activity is no greater than sporadic in those regions
Regional	Increased ILI in at least 2 regions but fewer than half of the regions AND recent (within the past 3 weeks) lab confirmed influenza in the affected regions <u>OR</u> Institutional outbreaks (ILI or lab confirmed) in at least 2 regions but fewer than half of the regions AND recent lab confirmed influenza in the affected regions.
Widespread	Increased ILI and/or institutional outbreaks (ILI or lab confirmed) in at least half of the regions AND recent (within the past 3 weeks) lab confirmed influenza in the state.

Additional influenza information:

Centers for Disease Control and Prevention	http://cdc.gov/flu/
Centers for Disease Control and Prevention FluView	http://www.cdc.gov/flu/weekly/
Flu.gov	http://www.flu.gov/
MSDH Flu and Pneumonia	http://msdh.ms.gov/msdhsite/_static/14,0,199.html
World Health Organization FluNet	http://www.who.int/influenza/gisrs laboratory/flunet/en/

Appendix

Figure 1

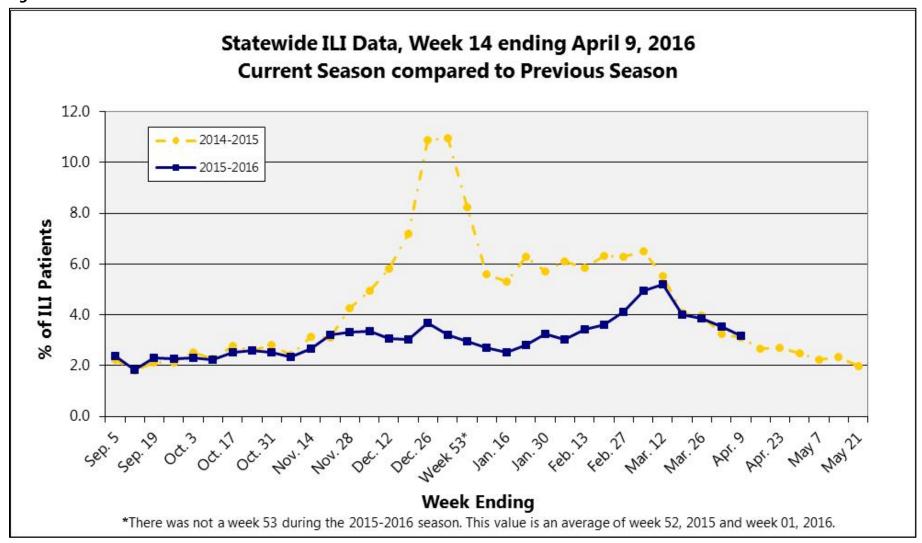


Figure 2

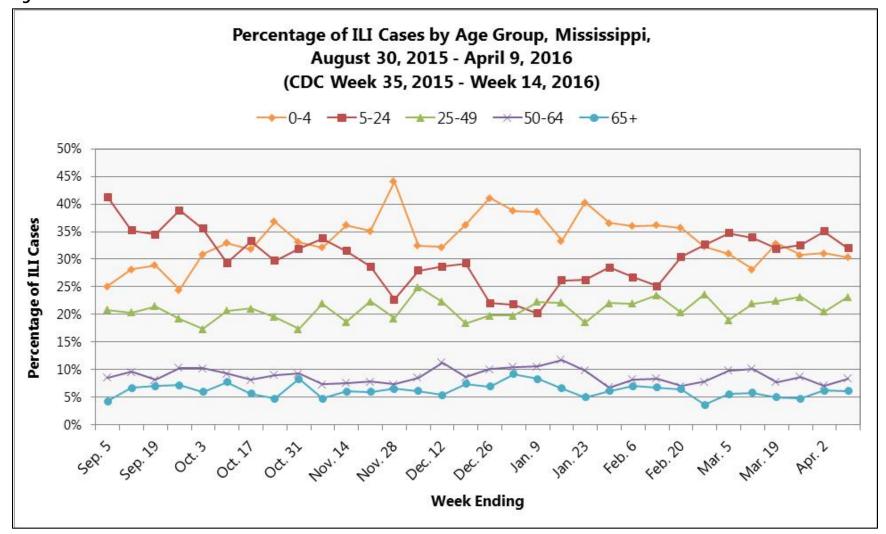


Figure 3

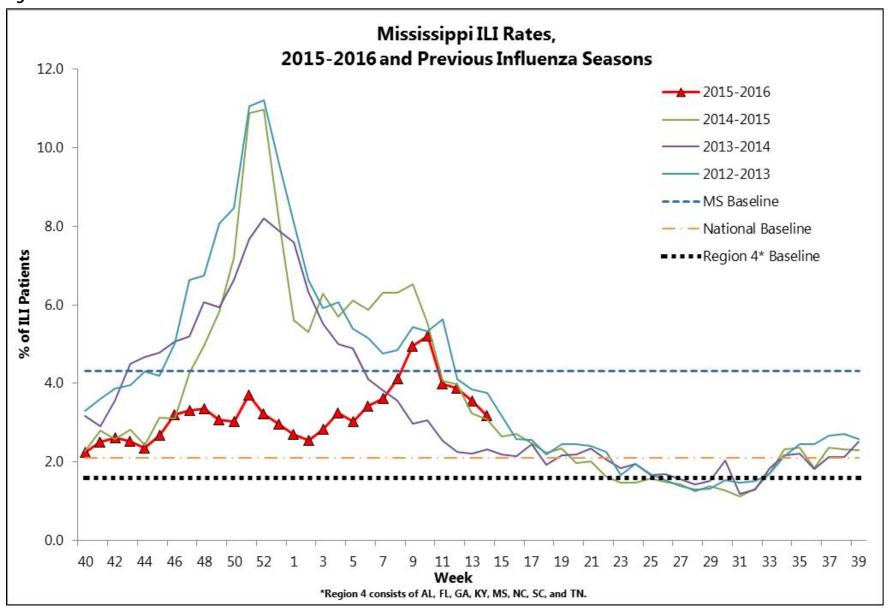


Figure 4

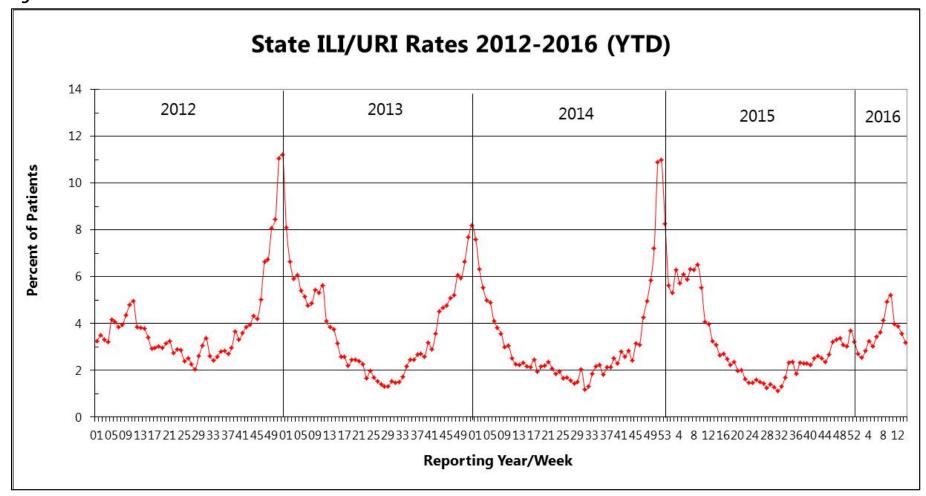


Figure 5

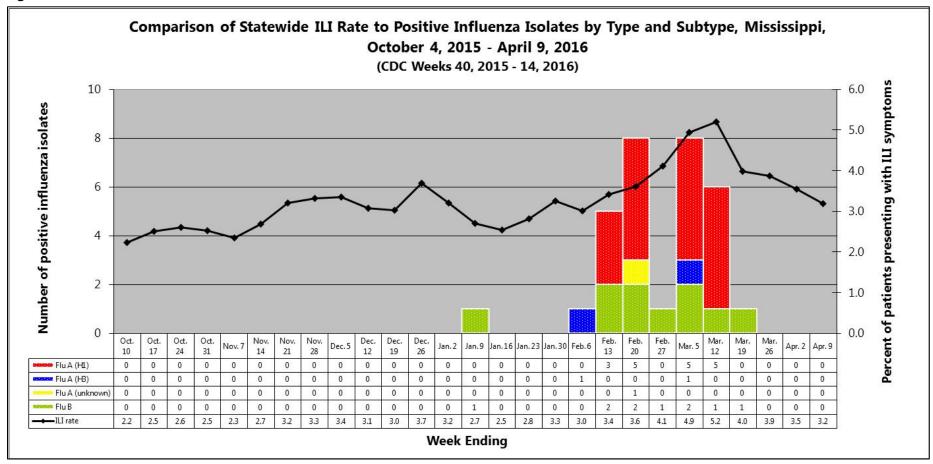


Figure 6

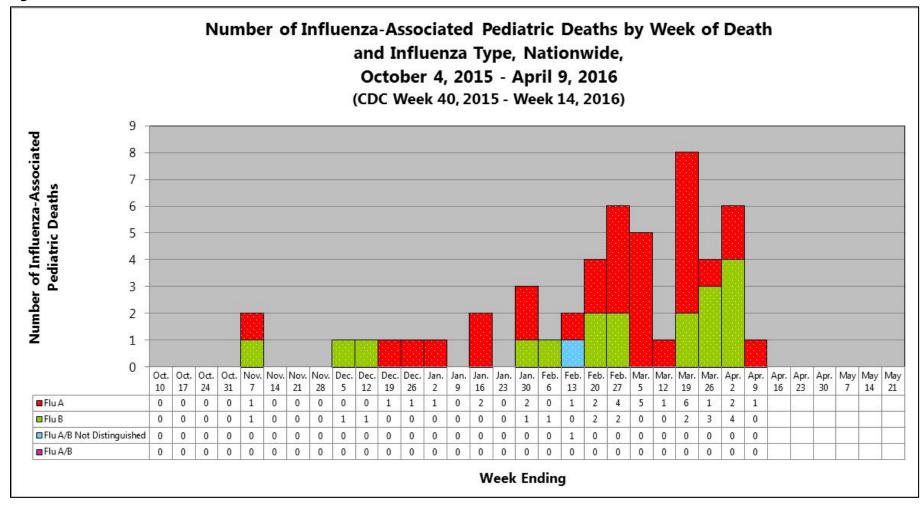


Figure 7

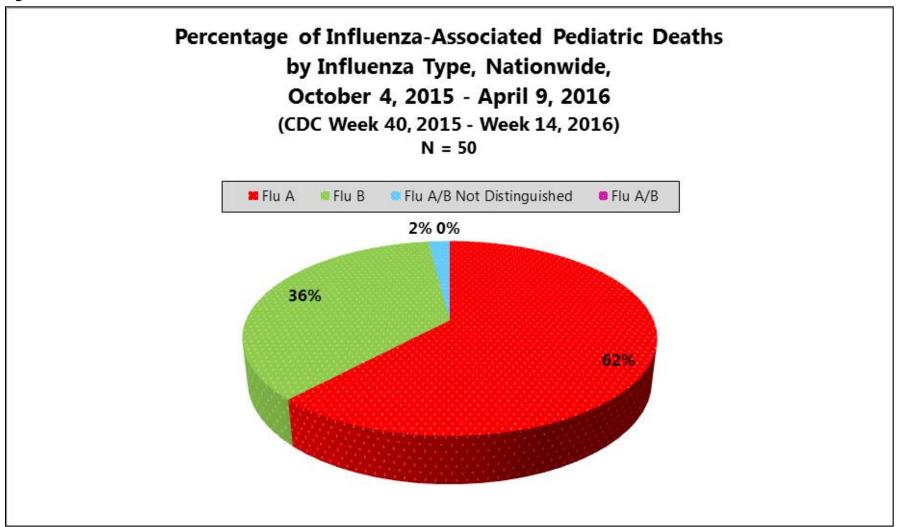


Figure 8

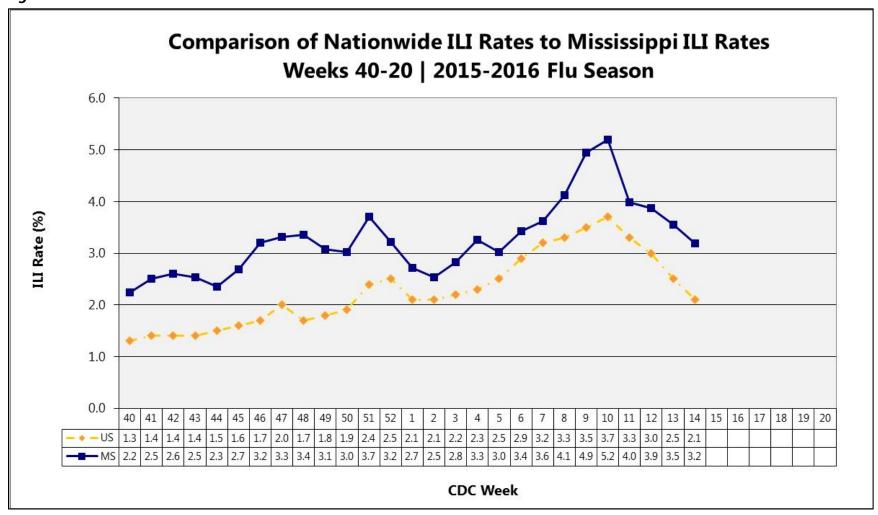


Figure 9

