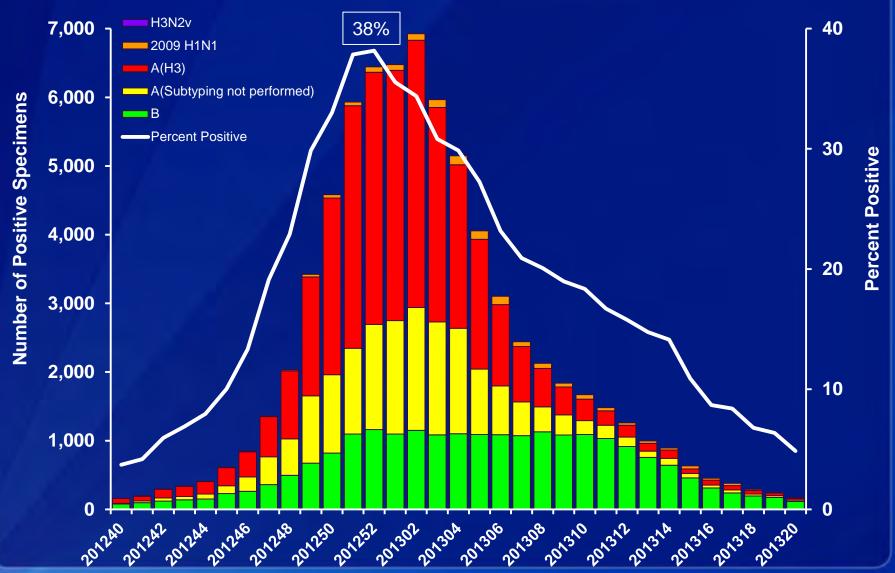
## Influenza Activity Update

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Epidemiology and Prevention Branch
Influenza Division



# VIROLOGIC SURVEILLANCE

## Influenza Positive Tests Reported to CDC by U.S. WHO/NREVSS Collaborating Laboratories, National Summary 2012-2013



### Antigenic Characterization October 1, 2012 – May 18, 2013

### Influenza A

- 2009 H1N1
  - 249/252 (98.8%) characterized A/California/7/2009-like, the H1N1 component of the 2012-13 N. Hemisphere vaccine
- H3N2
  - 1319/1324 (99.6%) characterized as A/Victoria/361/2011-like the H3N2 component of the 2012-13 N. Hemisphere vaccine

### Influenza B

- Yamagata lineage
  - 581/879 (66.3%) are from the Yamagata lineage and characterized as B/Wisconsin/1/2010-like the influenza B component of the 2012-13 N. Hemisphere vaccine
- Victoria lineage
  - 295/879 (33.7%) tested have been from the Victoria lineage of viruses

### Antiviral Resistance October 1, 2012 – May 18, 2013

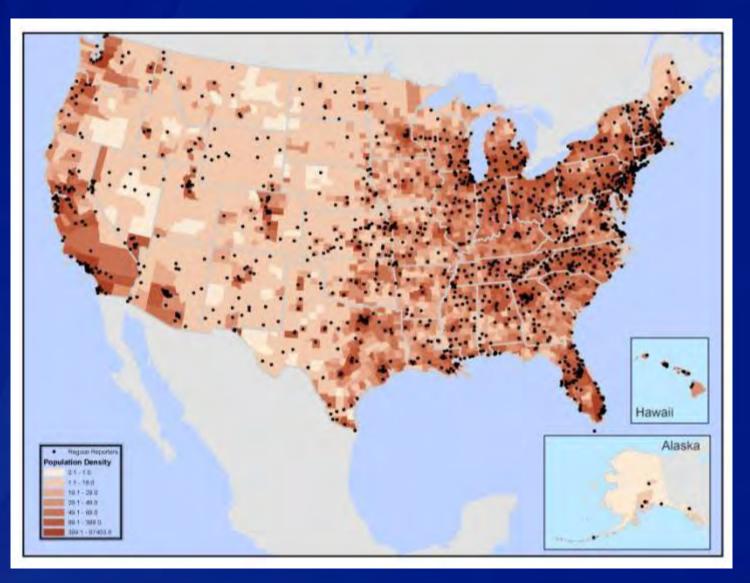
Neuraminidase Inhibitor Resistance Testing Results Samples Collected Since October 1, 2012

	Oseltamivir		Zanamivir	
	Virus Samples tested (n)	Resistant Viruses, Number (%)	Virus Samples tested (n)	Resistant Viruses, Number (%)
Influenza A (H3N2)	2,123	2 (0.1)	2,123	1 (0.05)
Influenza B	961	0 (0.0)	961	0 (0.0)
2009 H1N1	542	2 (0.4)	258	0 (0.0)

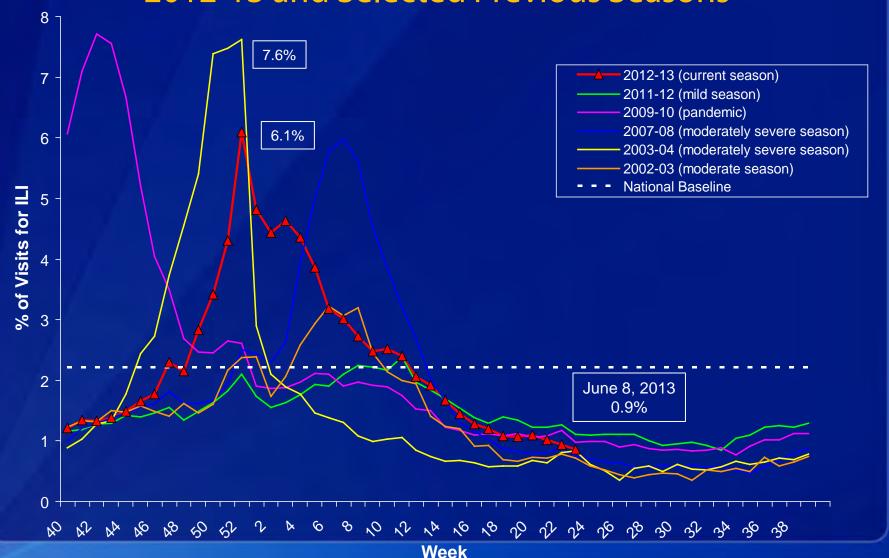
High levels of resistance to the adamantanes (amantadine and rimantadine) persist among pH1N1 and influenza A (H3N2) viruses currently circulating globally.

# ILI SYNDROMIC SURVEILLANCE

### ILI NET COVERAGE

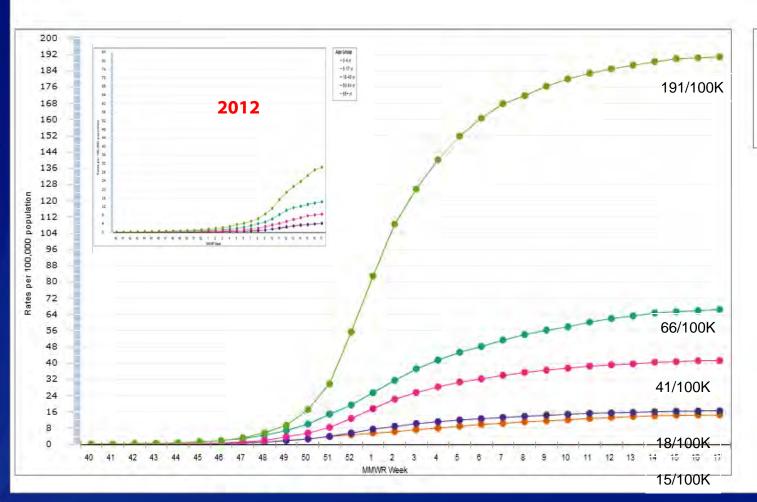


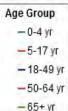
### Percentage of Visits for Influenza-like Illness Influenza-like Illness Surveillance Network (ILINet), 2012-13 and Selected Previous Seasons





## Rates of Lab-Confirmed Influenza Hospitalization FluSurvNet, October 1, 2012 – May 18, 2013

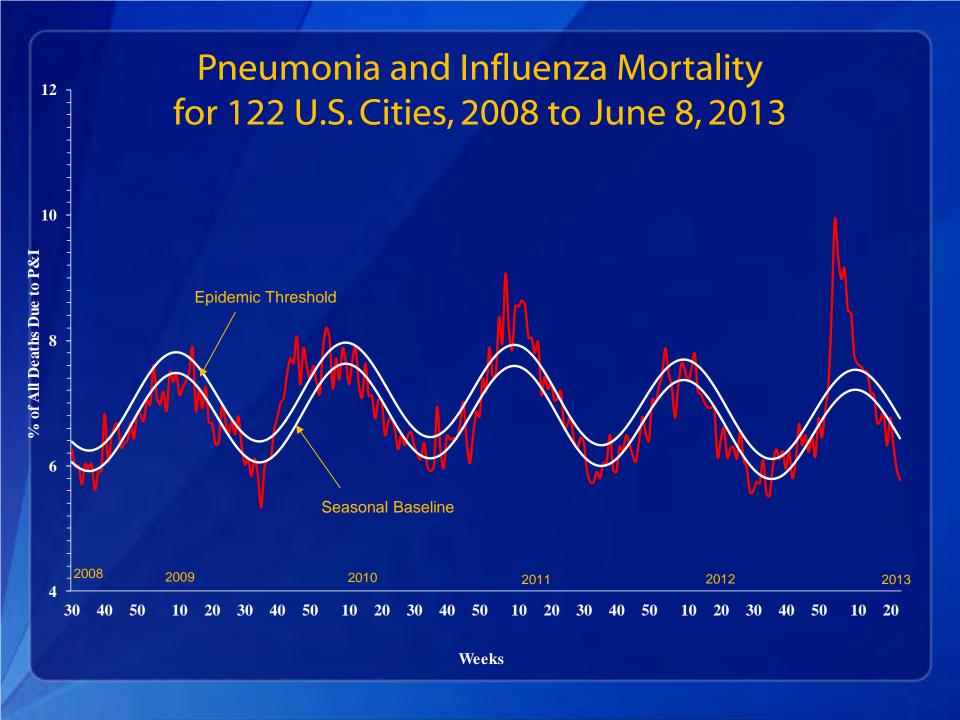


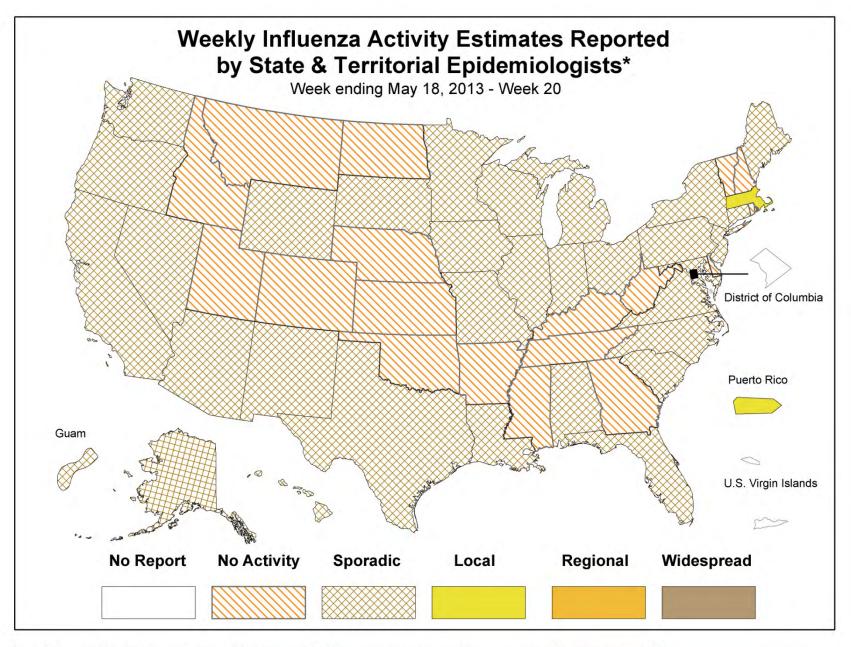


## **MORTALITY SURVEILLANCE**

## Number of Influenza-Associated Pediatric Deaths by Week of Death: 2009-10 to June 8, 2013







<sup>\*</sup> This map indicates geographic spread & does not measure the severity of influenza activity

### Influenza Activity Summary

- Influenza activity in the US during the 2012–13 season began approximately 4 weeks earlier than usual, and occurred at moderately high levels
  - Activity peaked in late December
  - Influenza A (H3N2) viruses predominated overall and until late February, after late February influenza B viruses predominated through the end of the season
- There were high rates of influenza hospitalization, especially in the elderly
- The peak percentage of outpatient visits for ILI (6.1%) was one of the highest reported since the system began in its current format in 1997
- □ The number of pediatric deaths was the highest reported since surveillance began, excluding the pandemic year

### Acknowledgements

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## Thank you

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www.cdc.gov/flu

http://www.cdc.gov/flu/weekly/fluviewinteractive.htm

