

## Quarterly Trends in Ohio Disease Incidence

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The current year's quarterly disease incidence is graphically presented to demonstrate general trends in surveillance data for selected Ohio reportable infectious diseases, including any statistically significant changes in the incidence observed. The trend graphs compare current disease incidence (i.e. observed cases) to baseline disease incidence (i.e. expected cases) by month. Baseline disease incidence was determined by calculating the average disease incidence over the past three years. Statistically significant changes in incidence are demonstrated by graphing 2 standard deviations above and below the average baseline disease incidence. A statistically significant difference in current disease incidence compared to baseline disease incidence suggests the difference is unlikely to have occurred by chance, and warrants further review by those performing investigations.

General surveillance trends are graphed at the state and regional levels. The Ohio counties included in the seven public health regions follow. The current year's data represents confirmed and probable cases of selected reportable diseases. In many instances, two trend lines can be seen graphed for the current year's quarterly incidence data: one for all cases, including those linked to a known outbreak, and one for cases not linked to a known outbreak. This was done for general comparison purposes only. It should be noted that not every graph will include a trend line for cases linked to a known outbreak as not all cases are outbreak-associated. For statistical reliability/stability purposes, only diseases for which 10 or more cases were reported over a given month are included in the statewide trends, while diseases for which 5 or more cases were reported in a given month are included in the regional trends.

All data for the current year are considered provisional and are subject to change upon further disease investigation. Disease data used in the calculation of the baseline (three year) average are finalized. All data are by month and year of illness onset. A case's reported county of residence was used to determine the region; if the county of residence was unknown, the county in which the health care provider, health care facility or local health department is located was used. The source of the data is the Ohio Disease Reporting System. Questions or comments regarding these graphs may be directed to the Ohio Department of Health Bureau of Infectious Diseases at (614) 995-5599.

### Regions:

**Central** – Crawford, Delaware, Fairfield, Fayette, Franklin, Hardin, Knox, Licking, Logan, Madison, Marion, Morrow, Pickaway, Union, Wyandot

**East Central** – Ashland, Carroll, Columbiana, Holmes, Mahoning, Medina, Portage, Richland, Stark, Summit, Trumbull, Tuscarawas, Wayne

**Northeast** – Ashtabula, Cuyahoga, Geauga, Lake, Lorain

**Northwest** – Allen, Auglaize, Defiance, Erie, Fulton, Hancock, Henry, Huron, Lucas, Mercer, Ottawa, Paulding, Putnam, Sandusky, Seneca, Van Wert, Williams, Wood

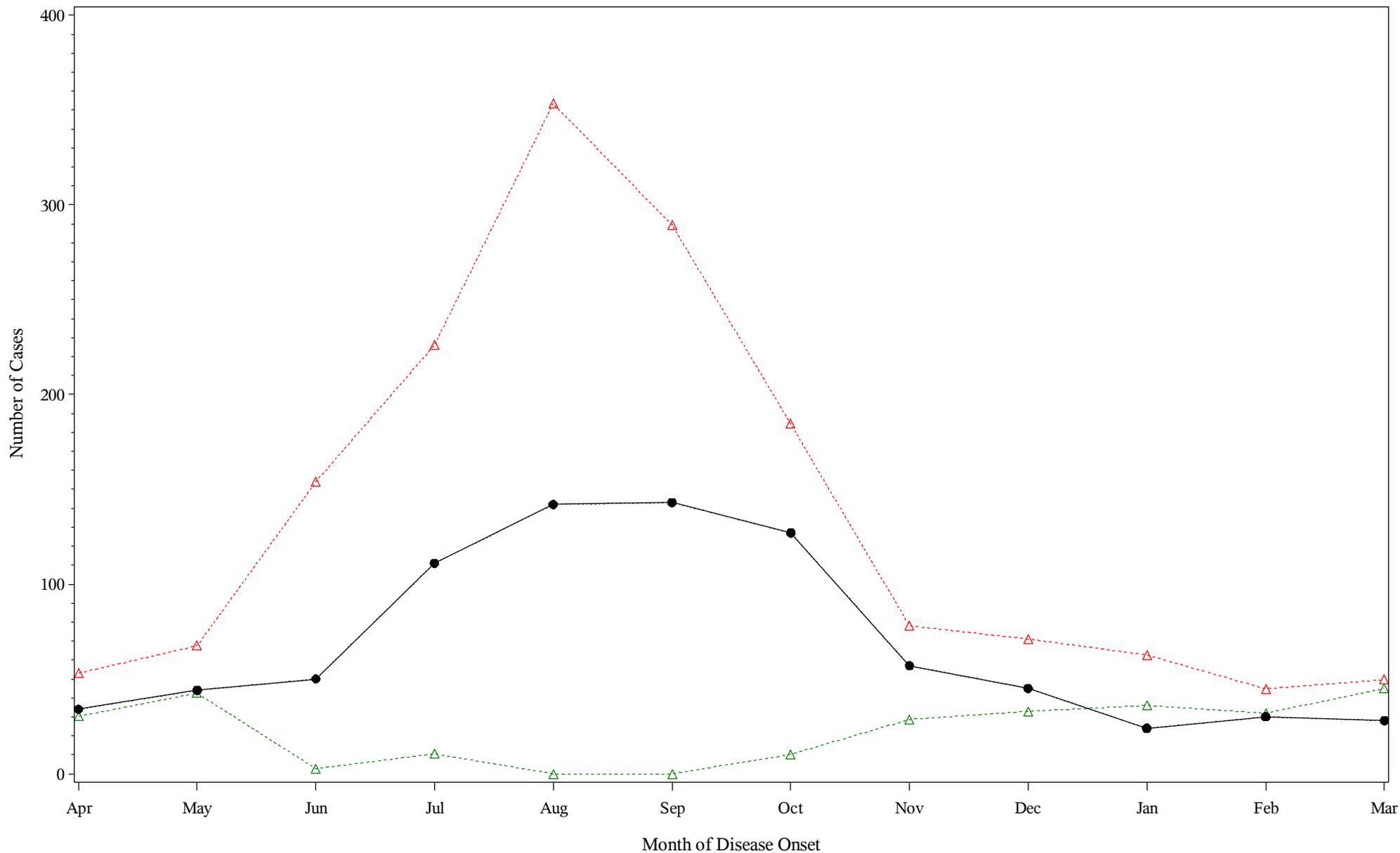
**Southeast** – Athens, Belmont, Coshocton, Gallia, Guernsey, Harrison, Hocking, Jackson, Jefferson, Lawrence, Meigs, Monroe, Morgan, Muskingum, Noble, Perry, Pike, Ross, Scioto, Vinton, Washington

**Southwest** – Adams, Brown, Butler, Clermont, Clinton, Hamilton, Highland, Warren

**West Central** – Champaign, Clark, Darke, Greene, Miami, Montgomery, Preble, Shelby

# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Aseptic Meningitis

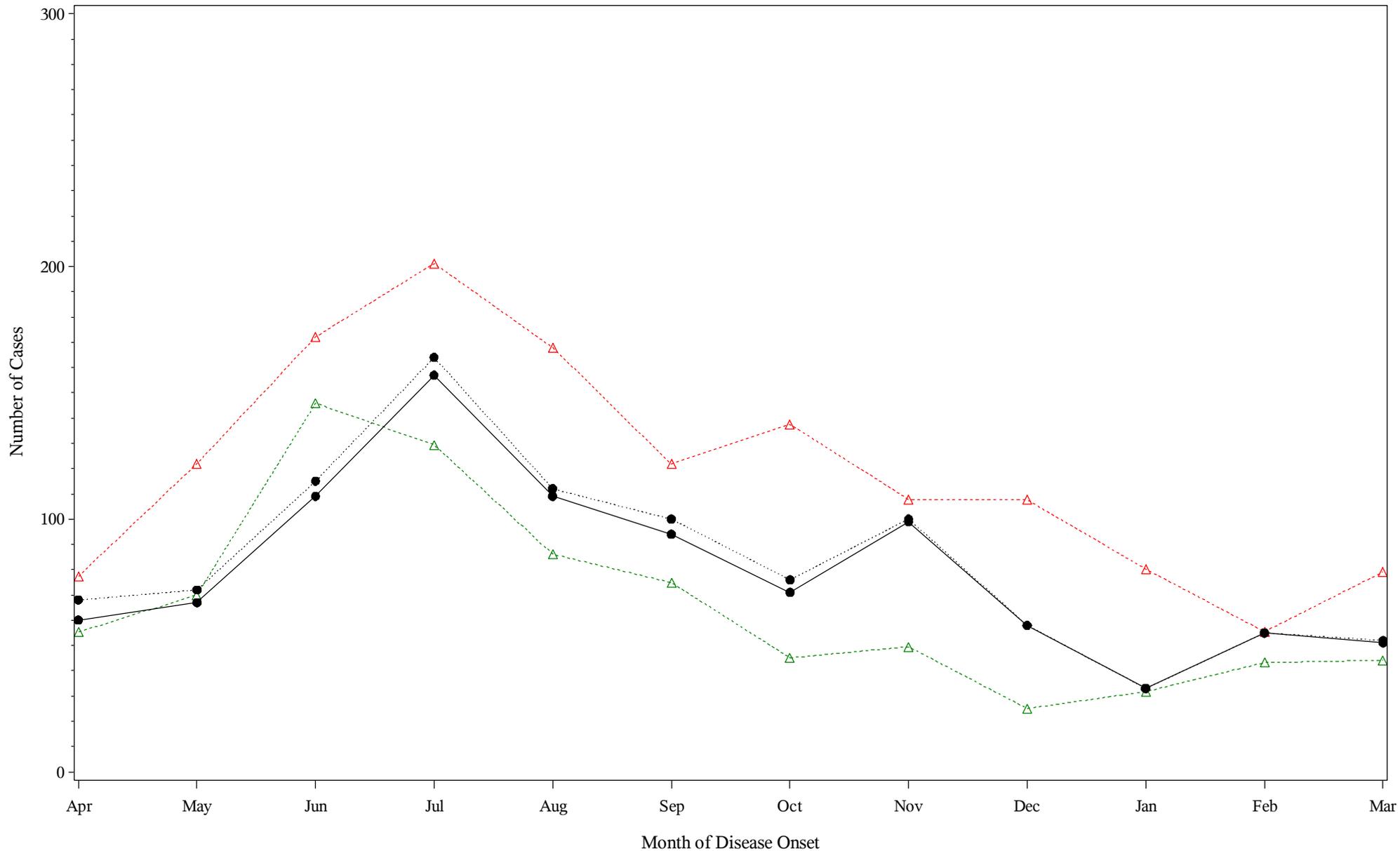


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Campylobacteriosis

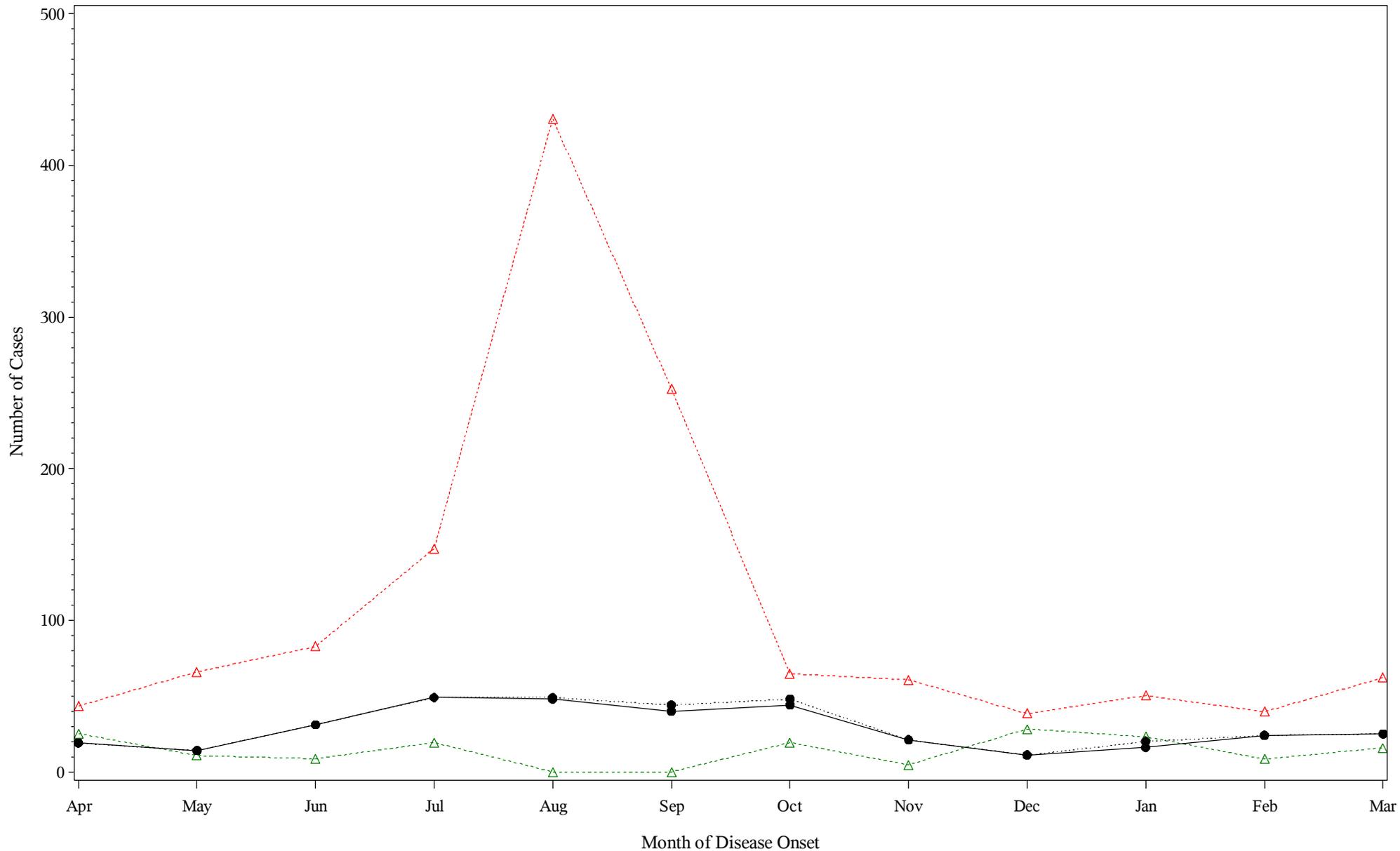


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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Cryptosporidiosis

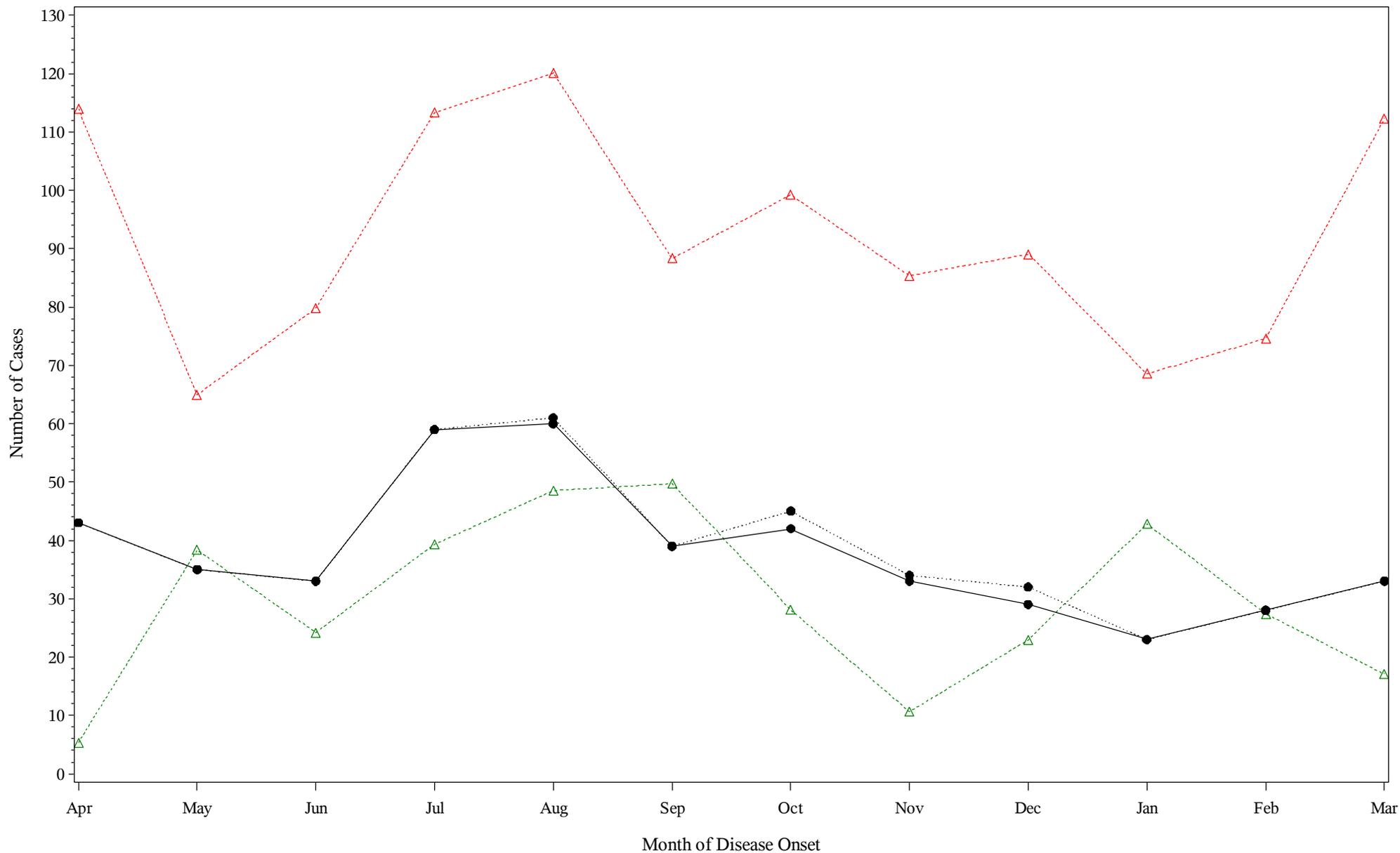


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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Giardiasis



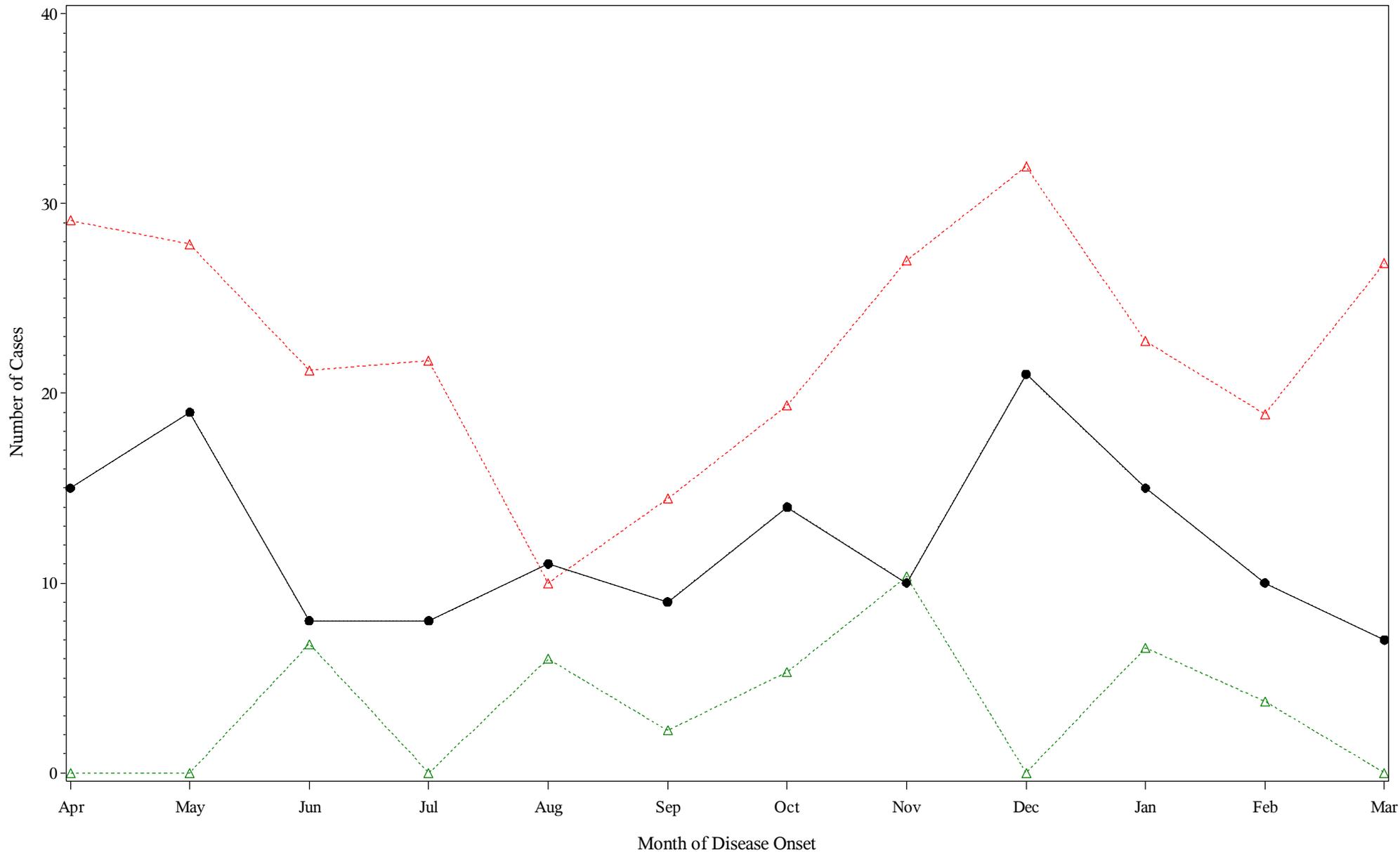
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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Haemophilus influenzae, Invasive

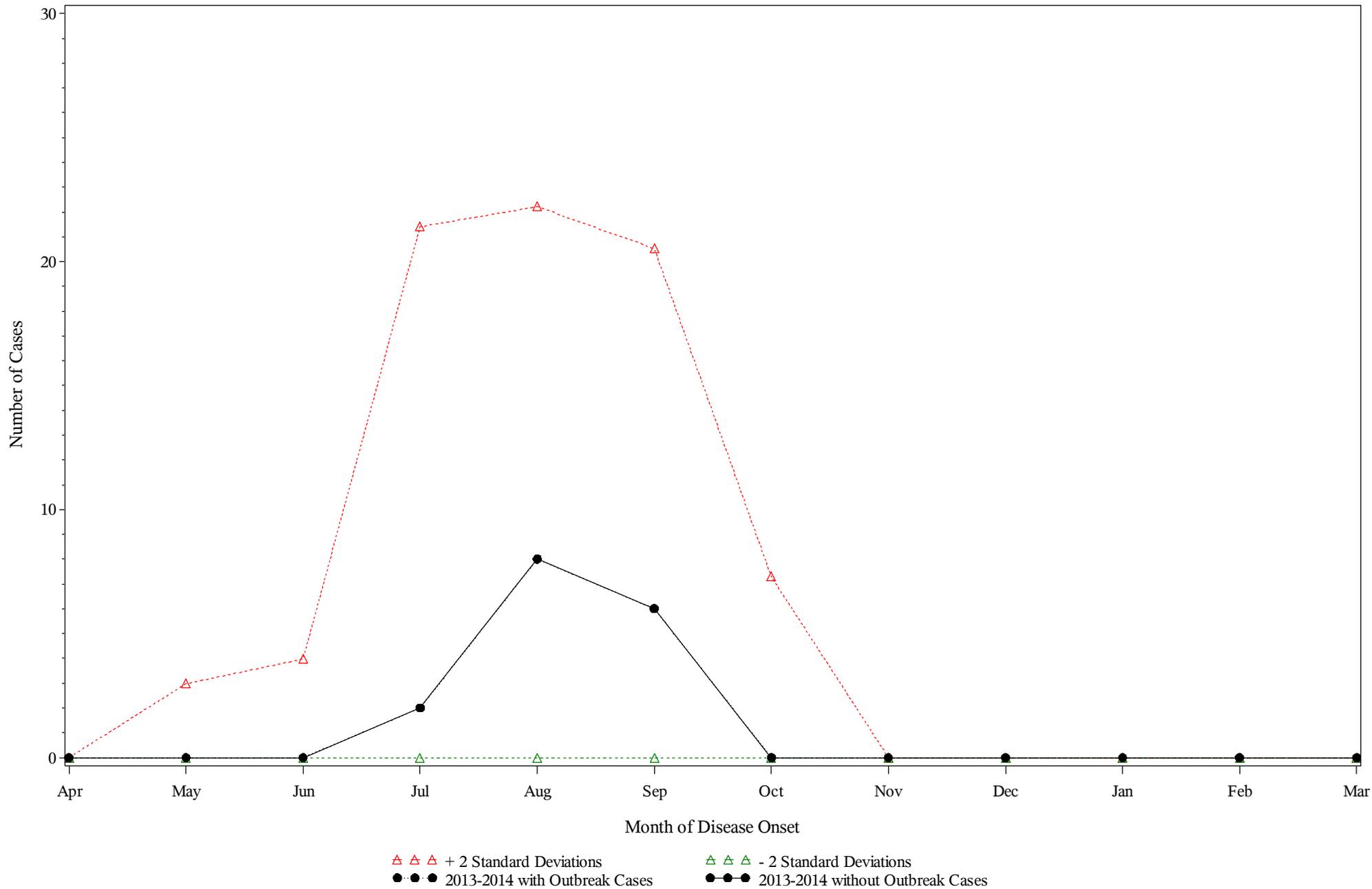


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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## LaCrosse Virus Disease

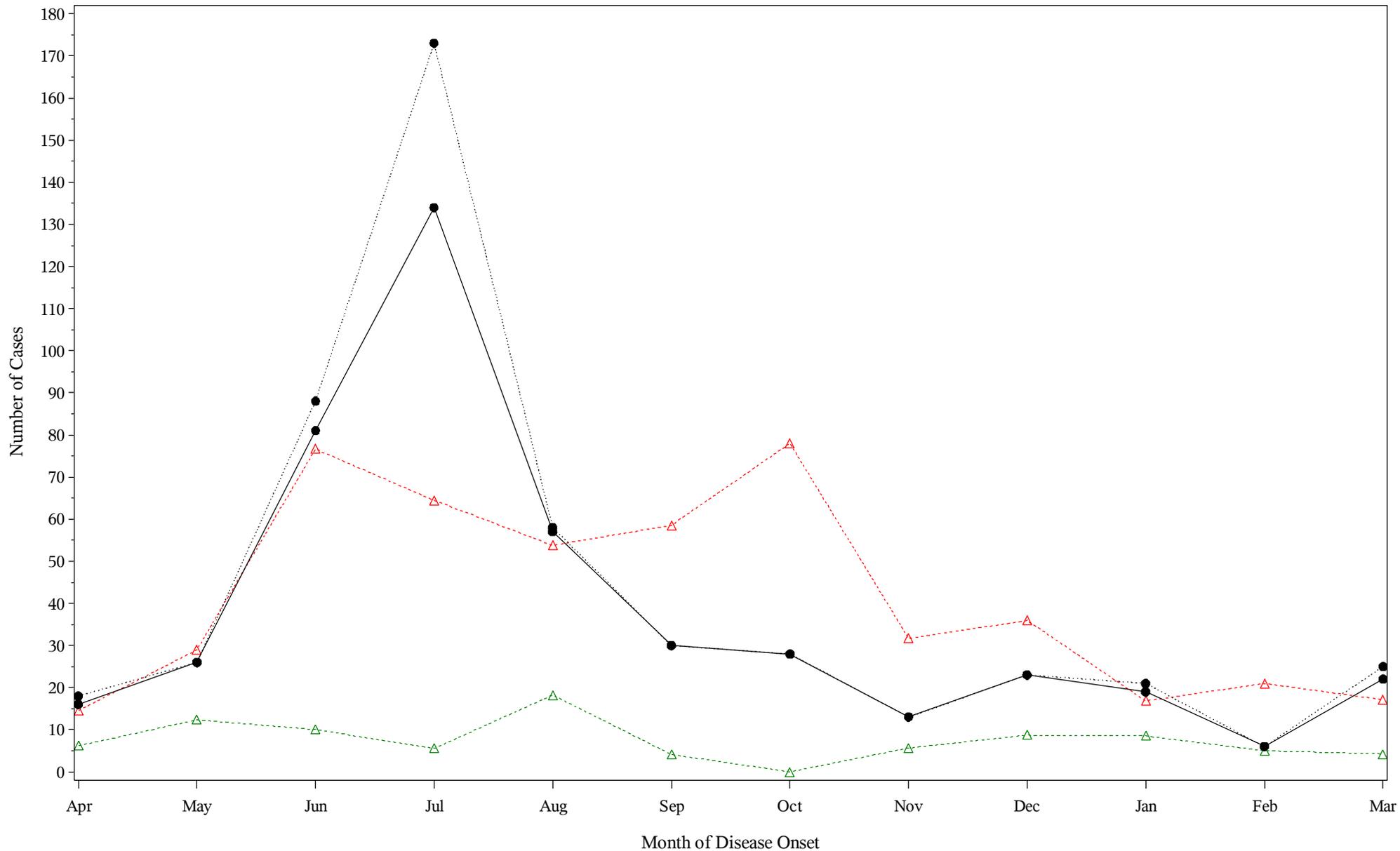


Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
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Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Legionellosis



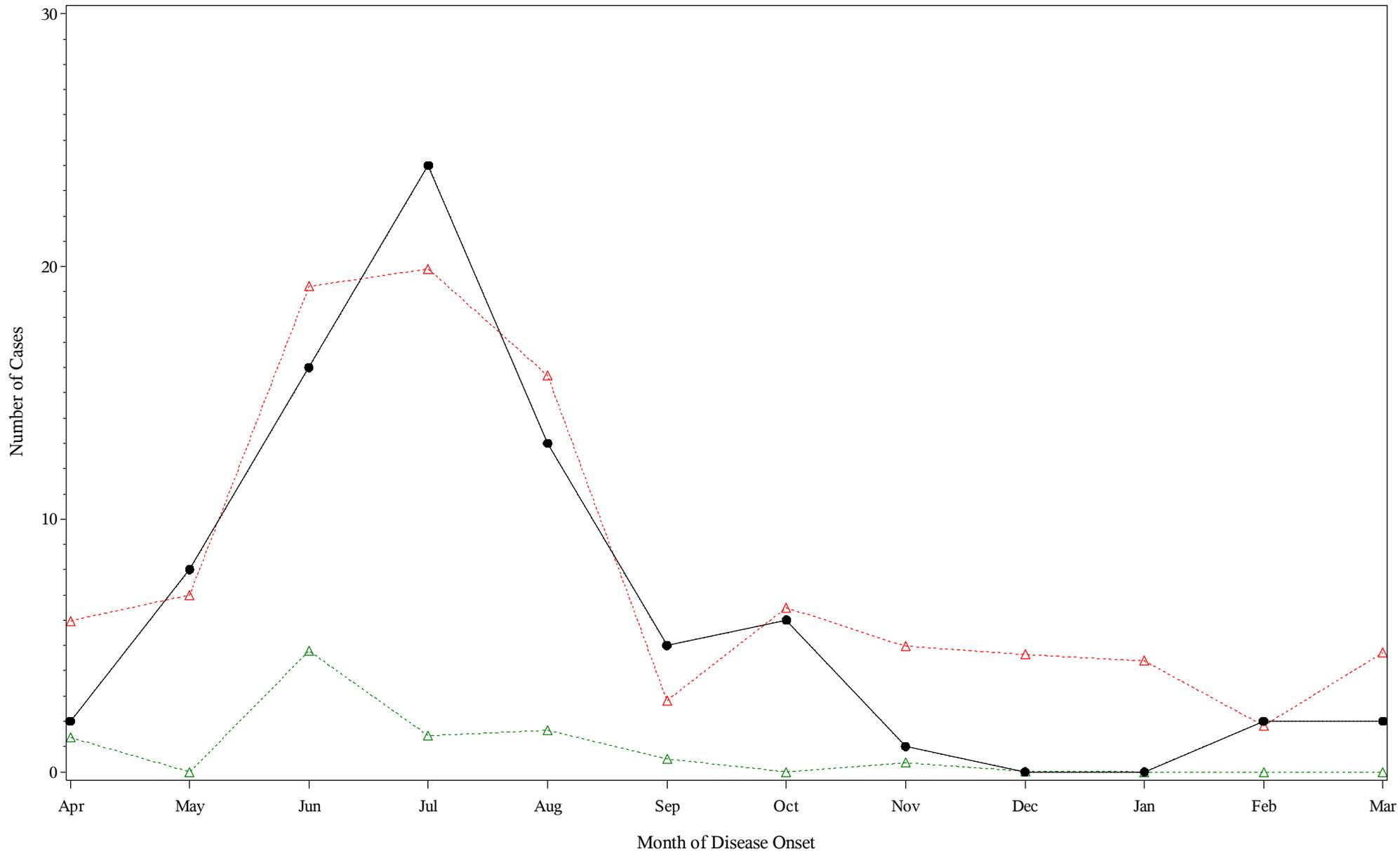
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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Lyme Disease

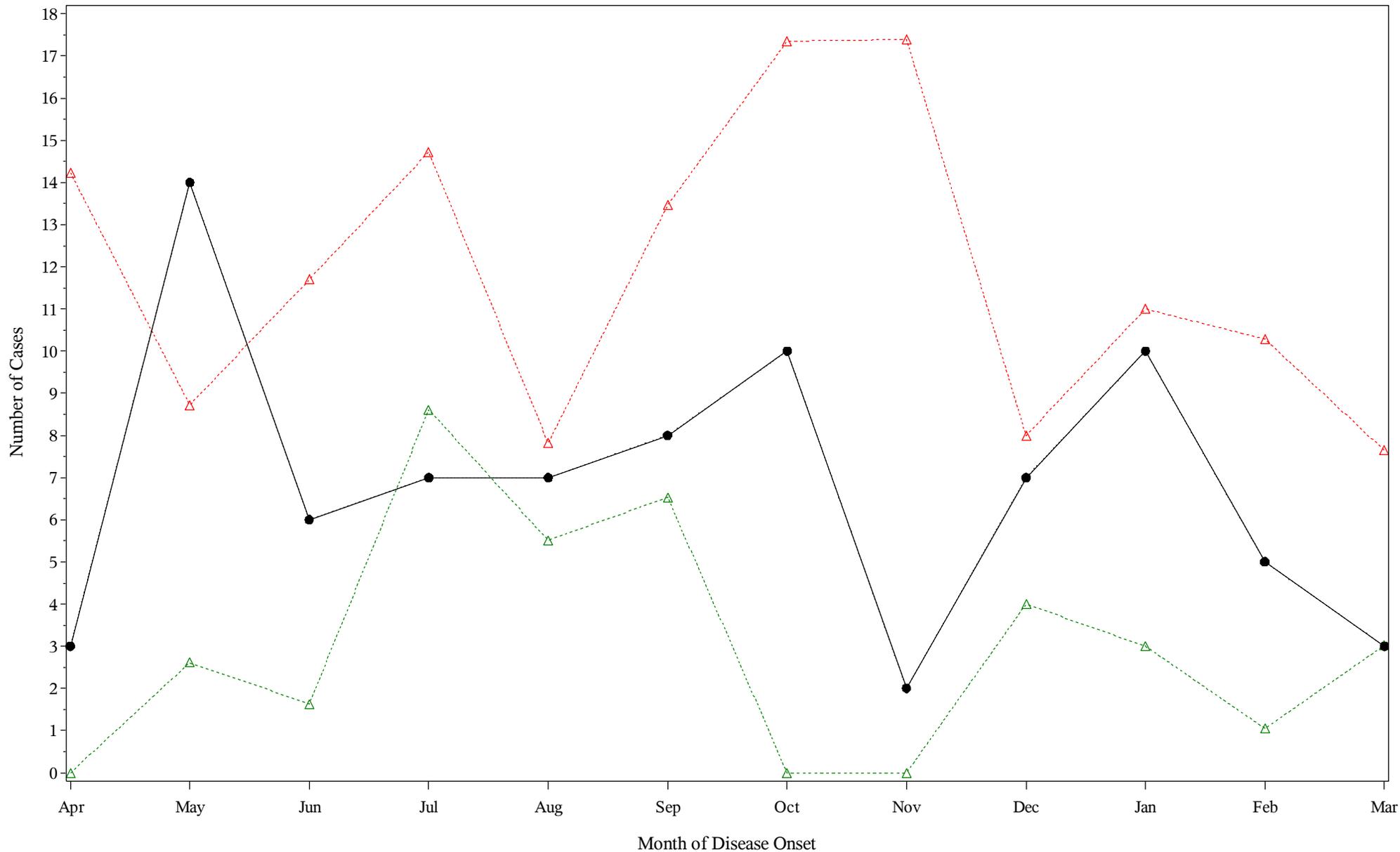


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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Bacterial Meningitis

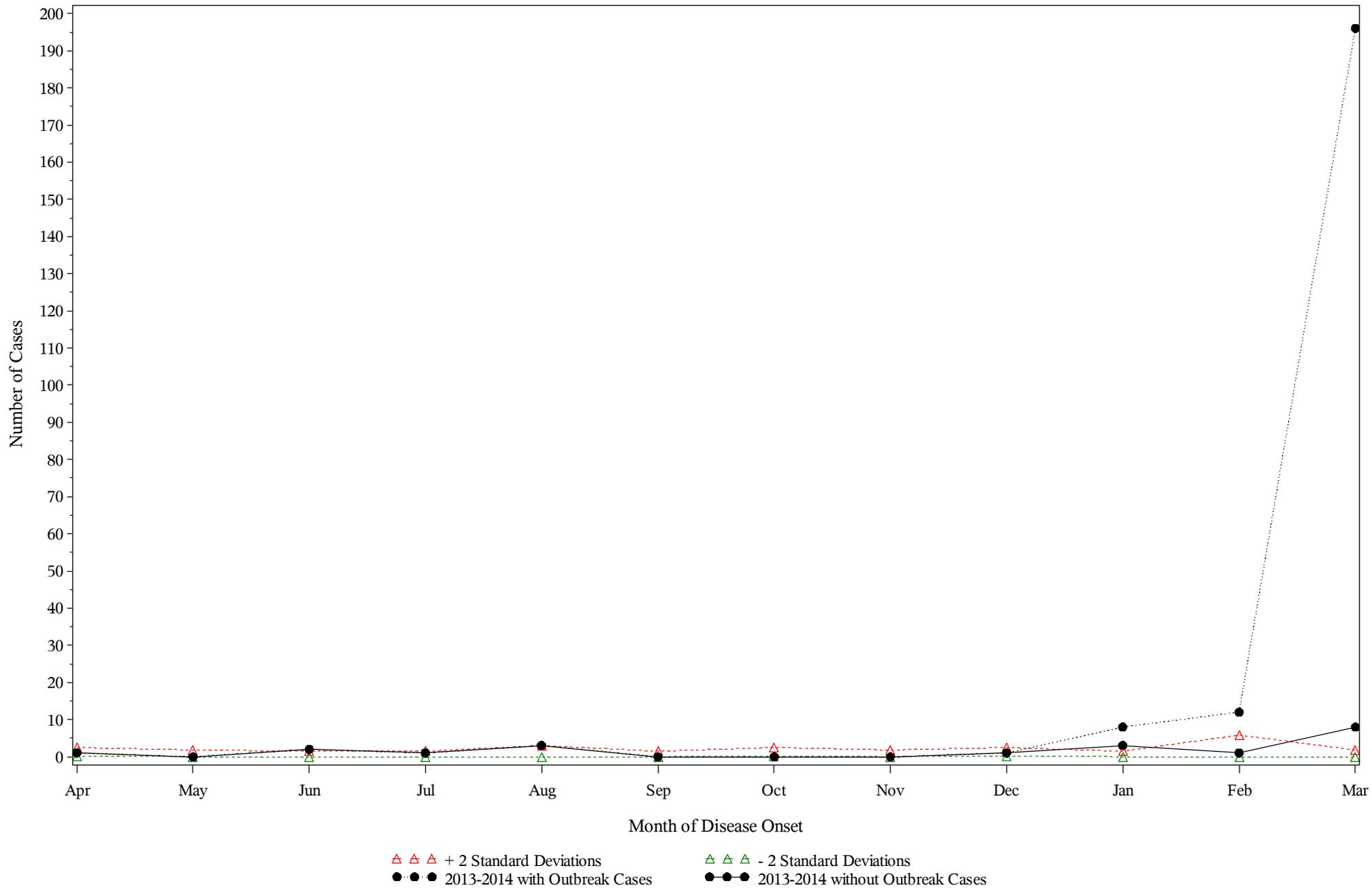


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 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Mumps



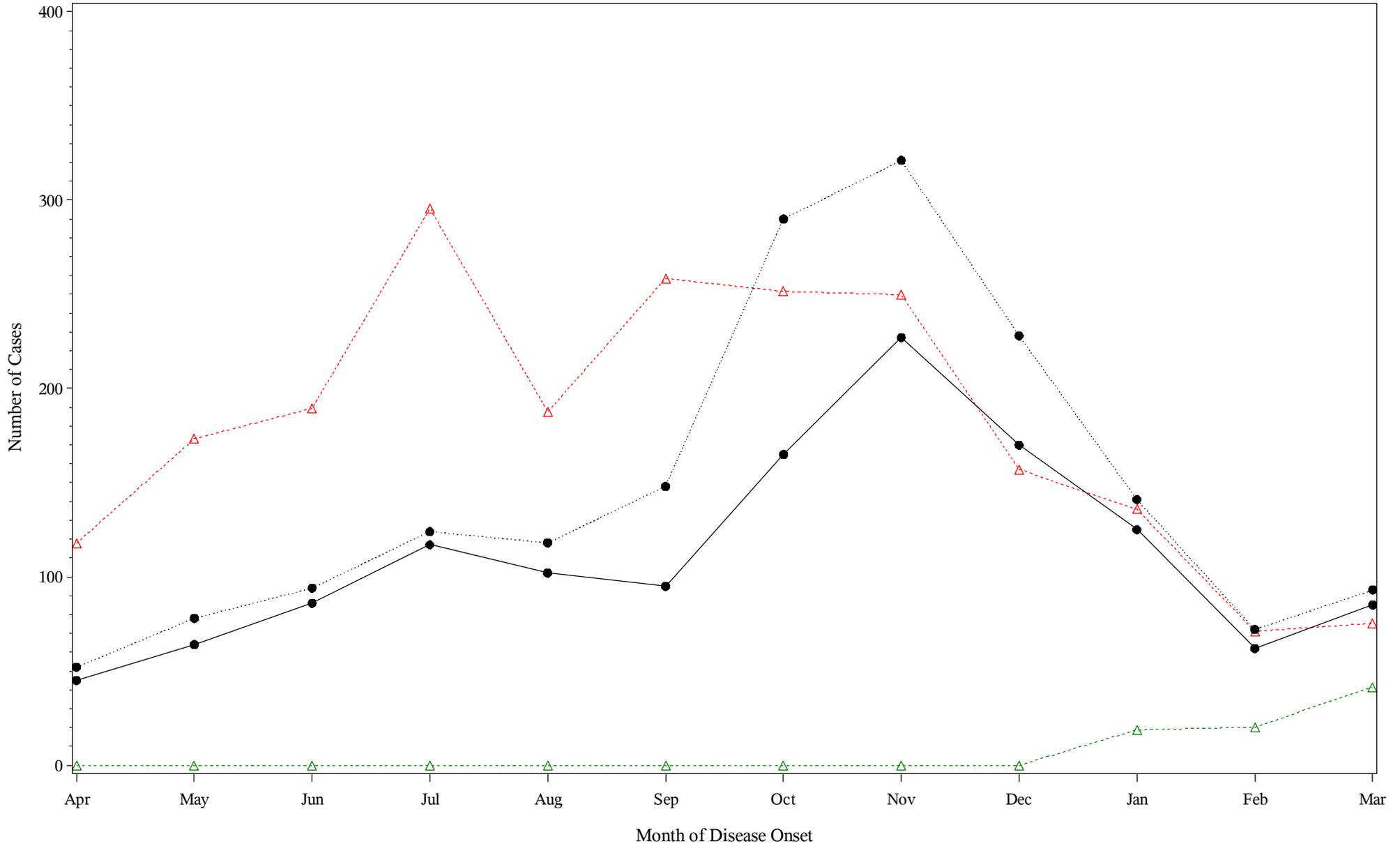
Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012

Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Pertussis



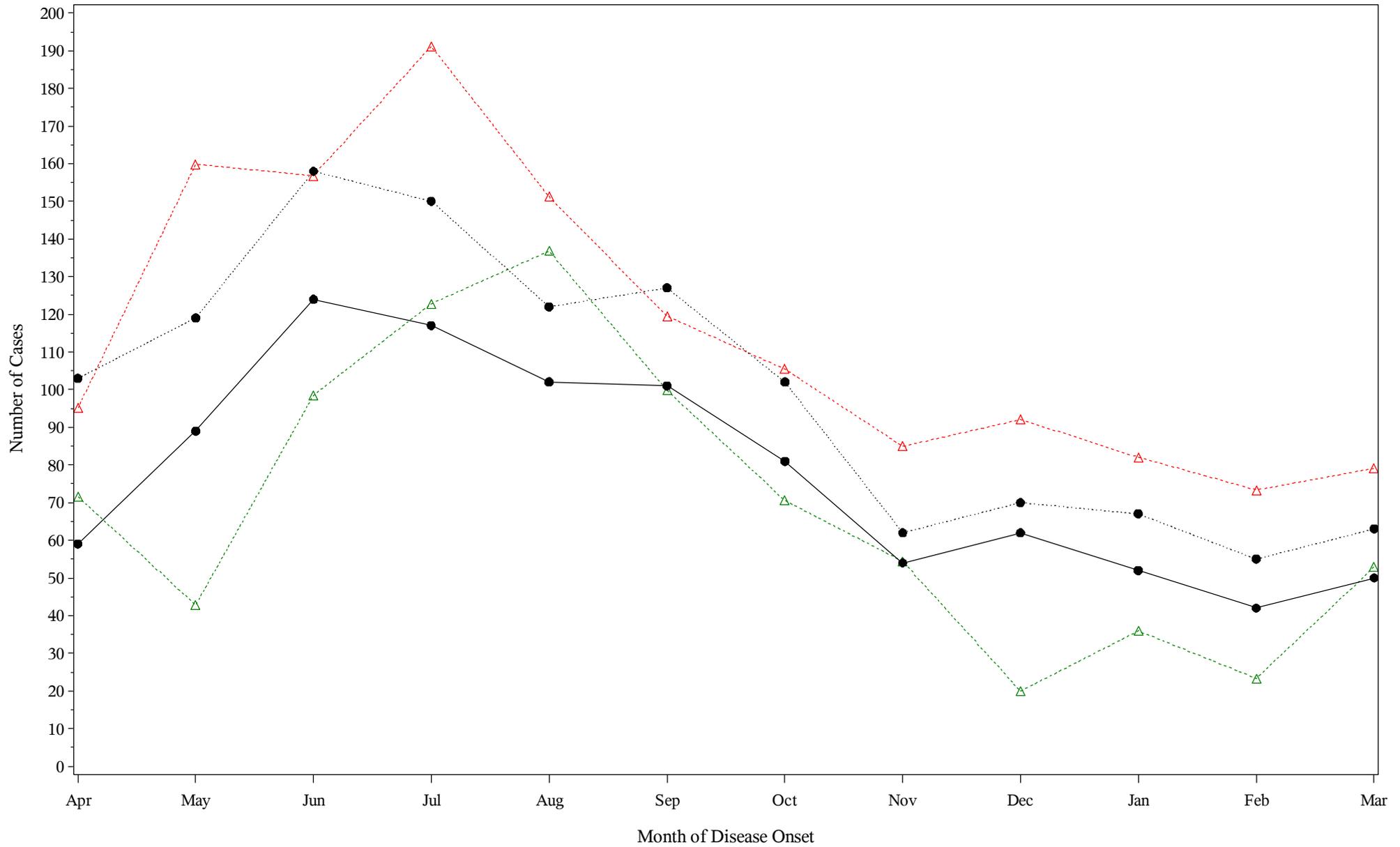
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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Salmonellosis



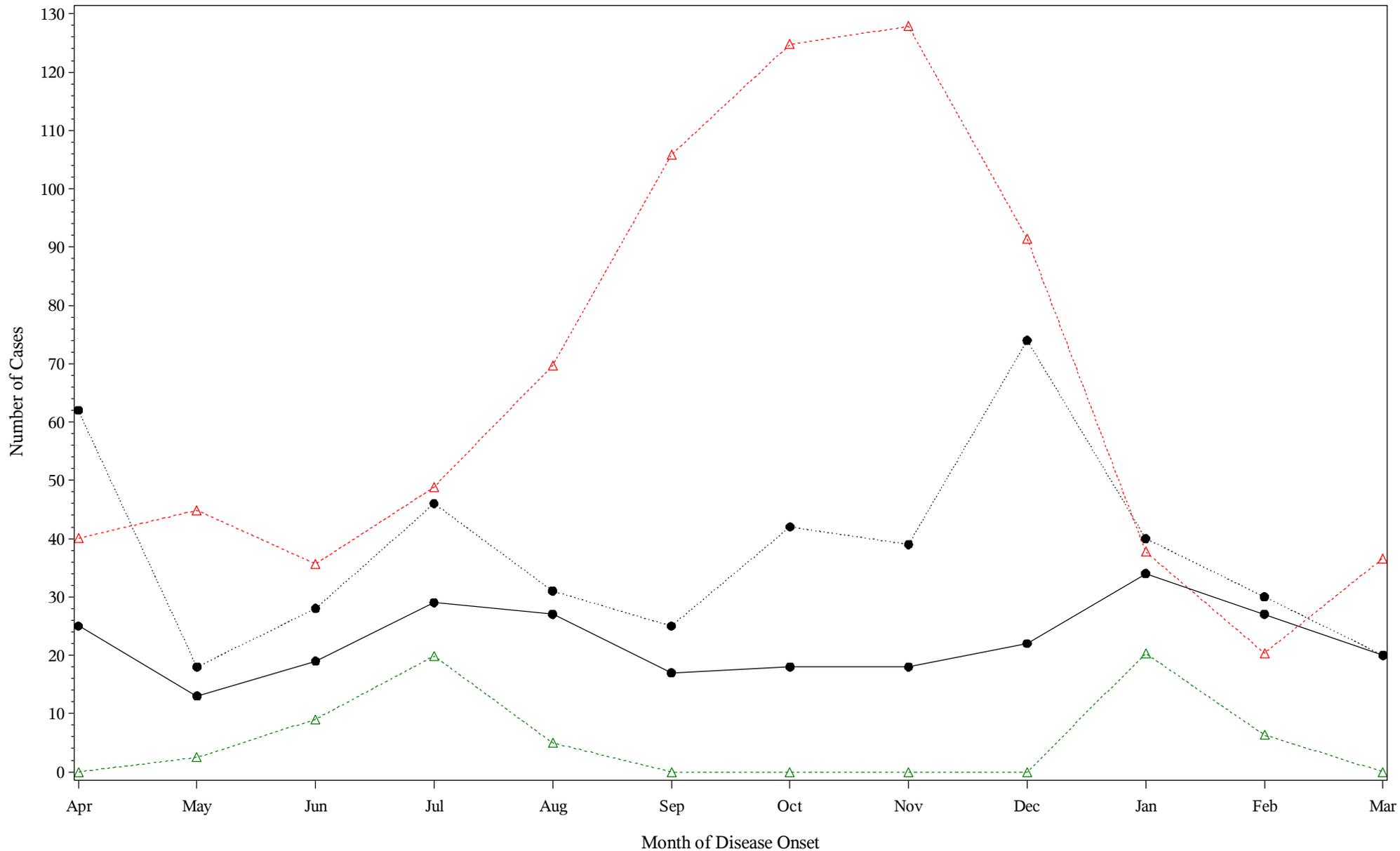
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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Shigellosis

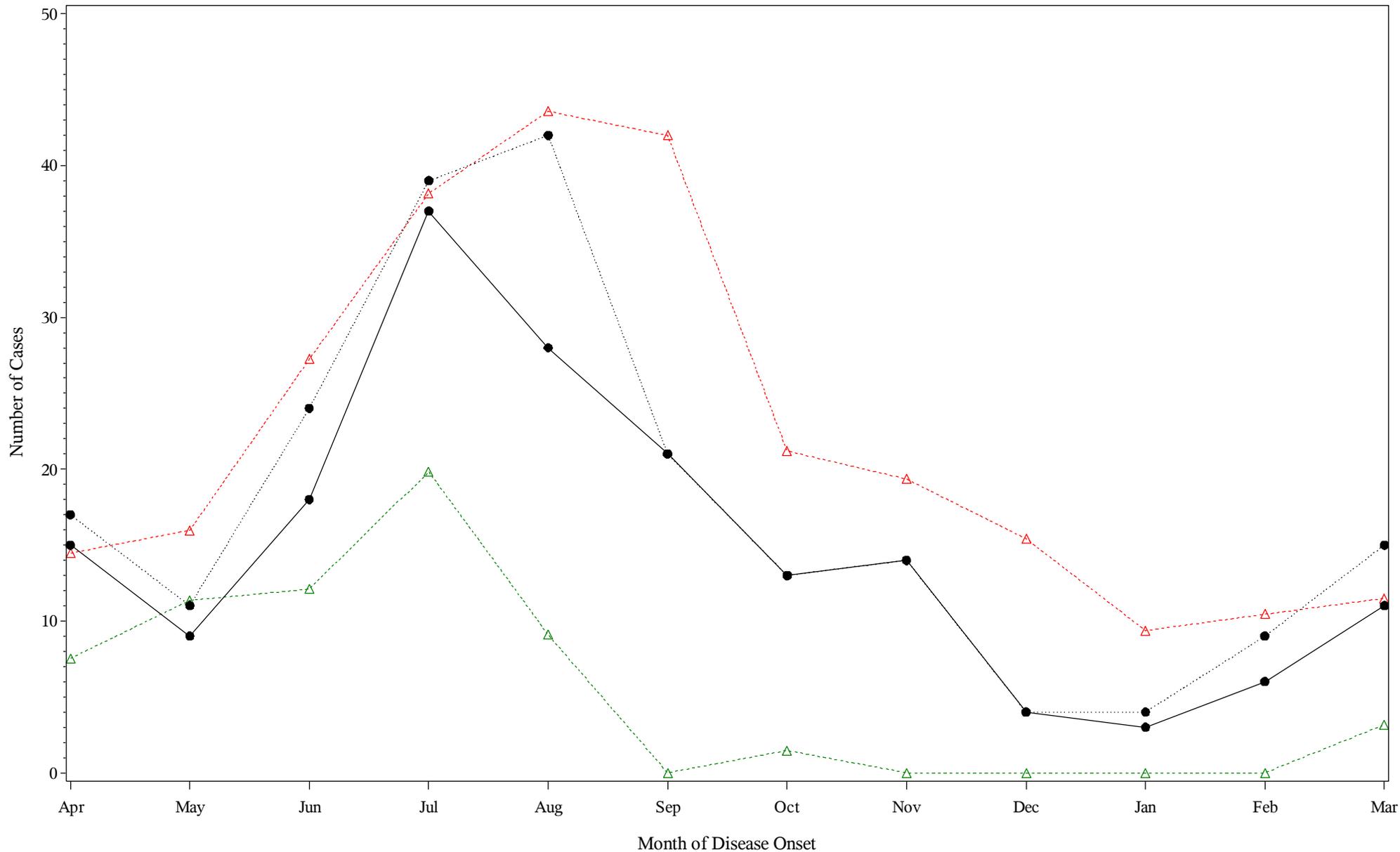


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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Shiga Toxin-Producing Escherichia coli



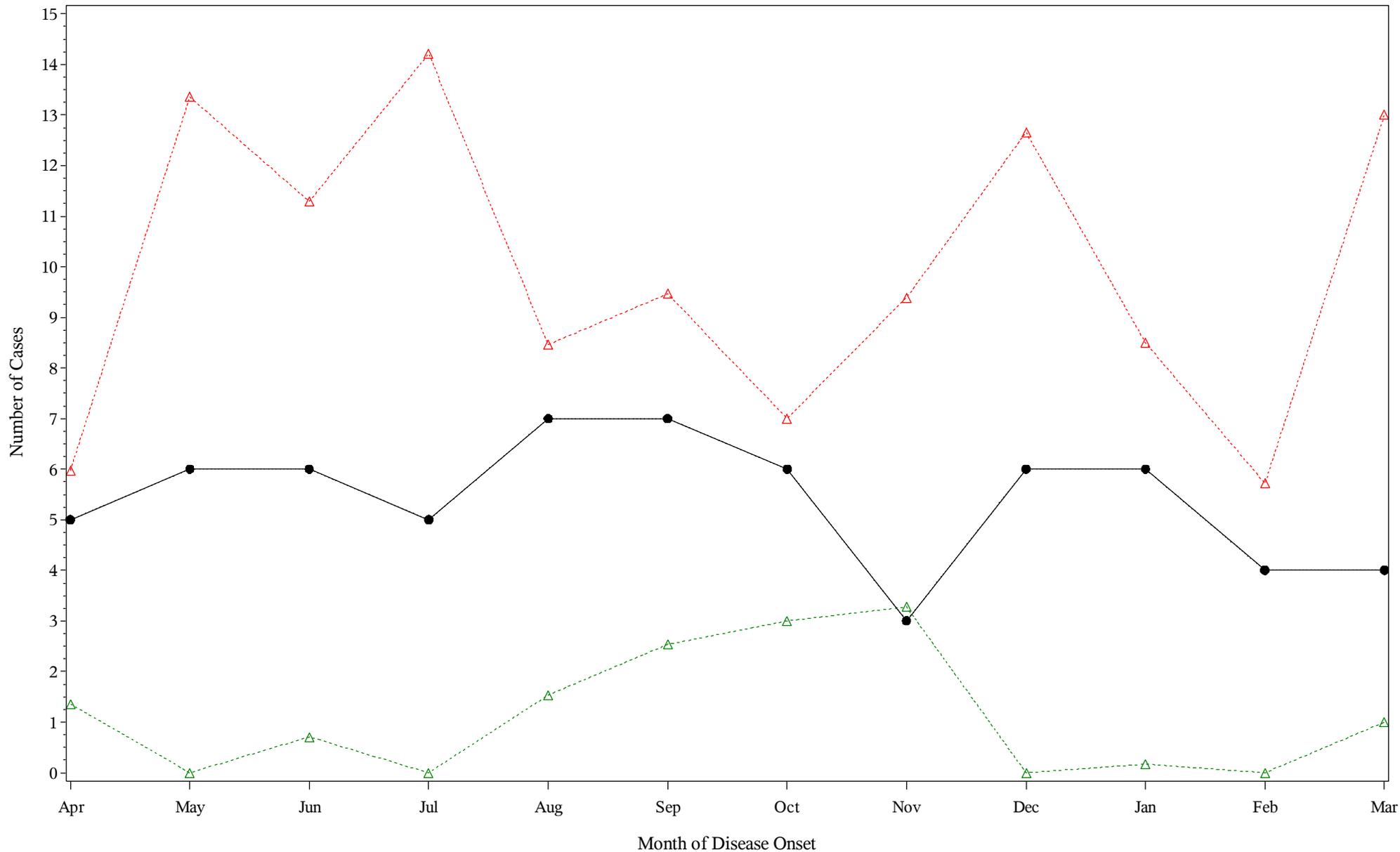
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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Streptococcal Disease, Group B, in Newborn



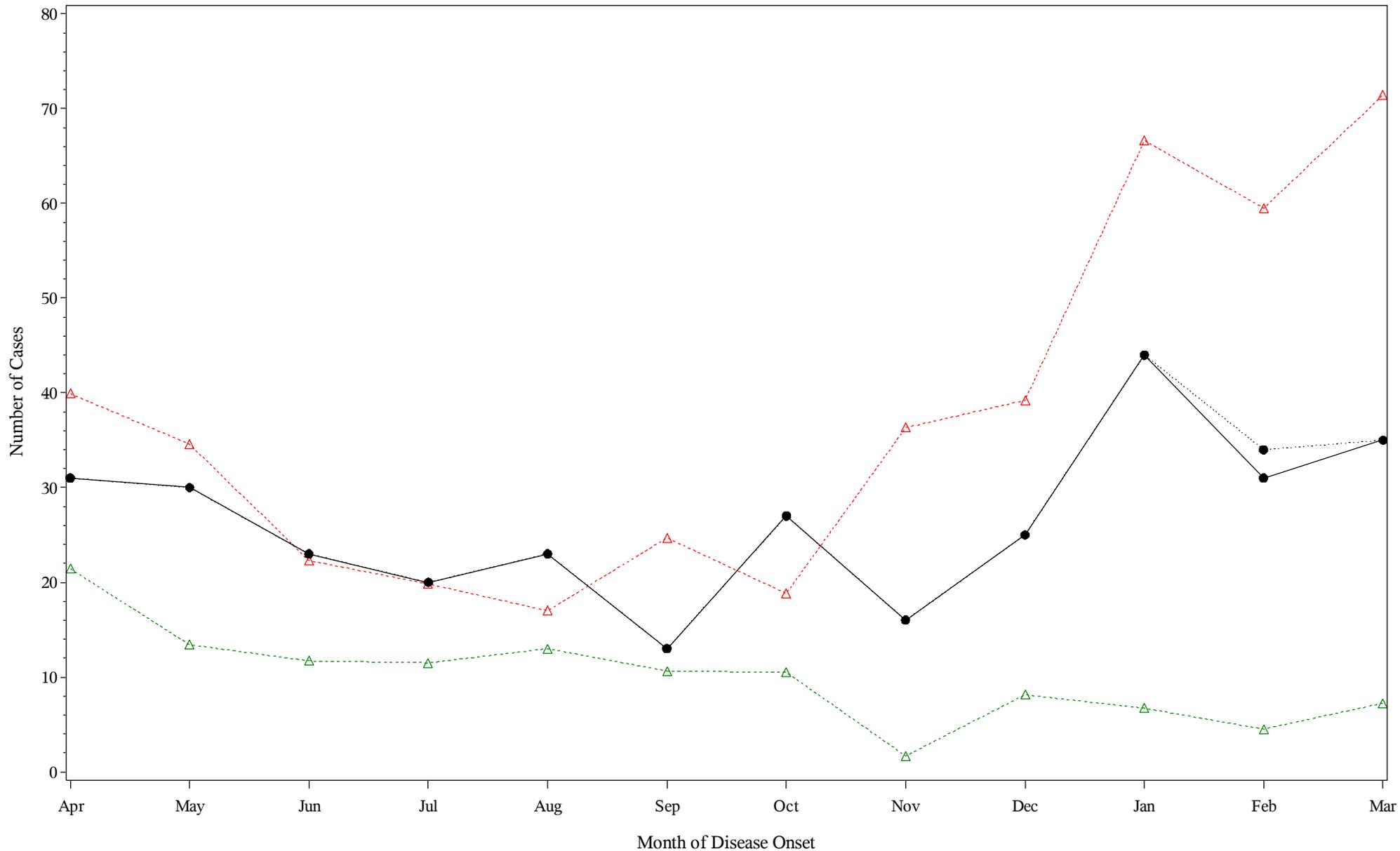
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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Streptococcal Disease, Group A, Invasive

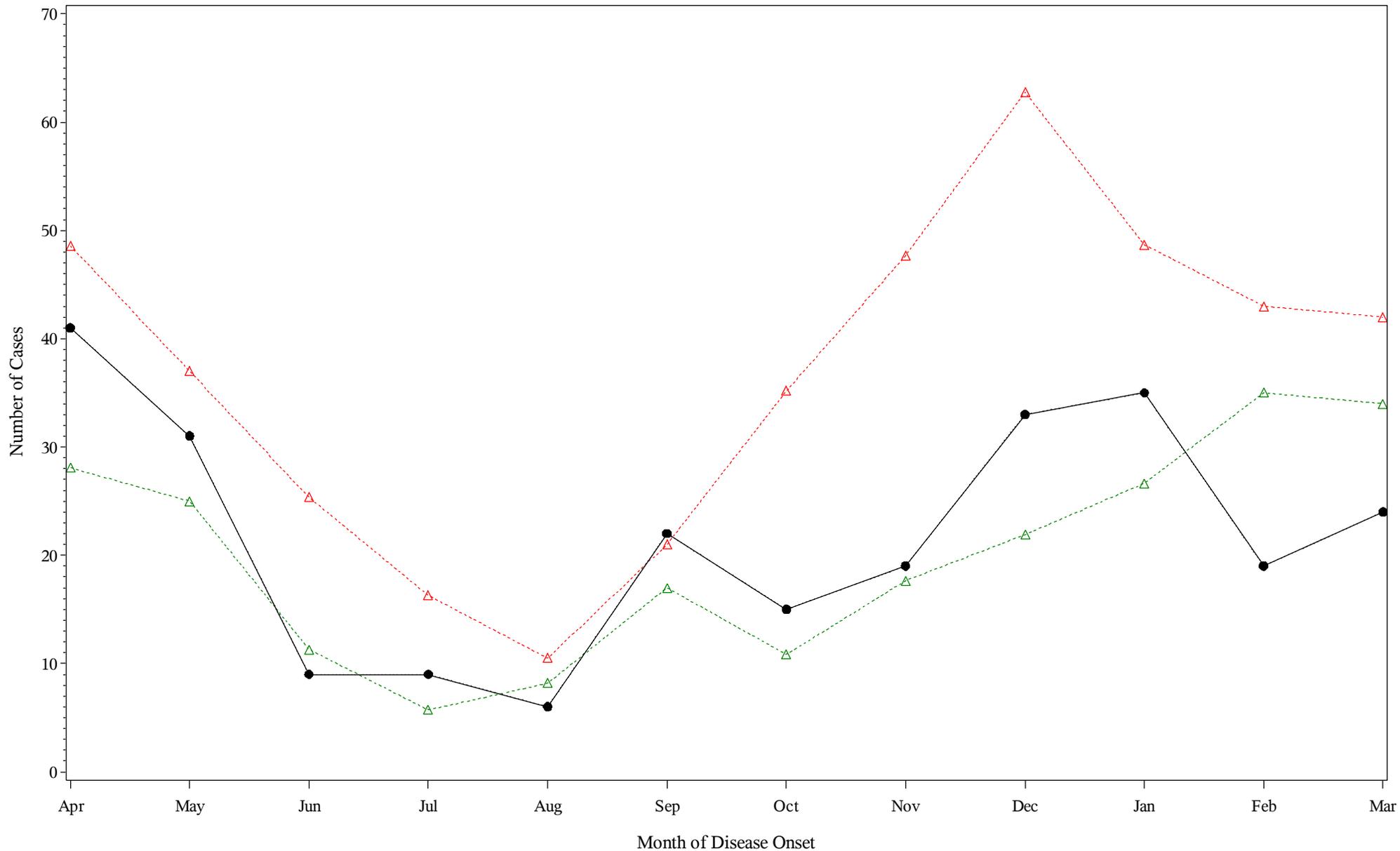


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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Streptococcus pneumoniae, Invasive, Drug Resistant/Intermediate

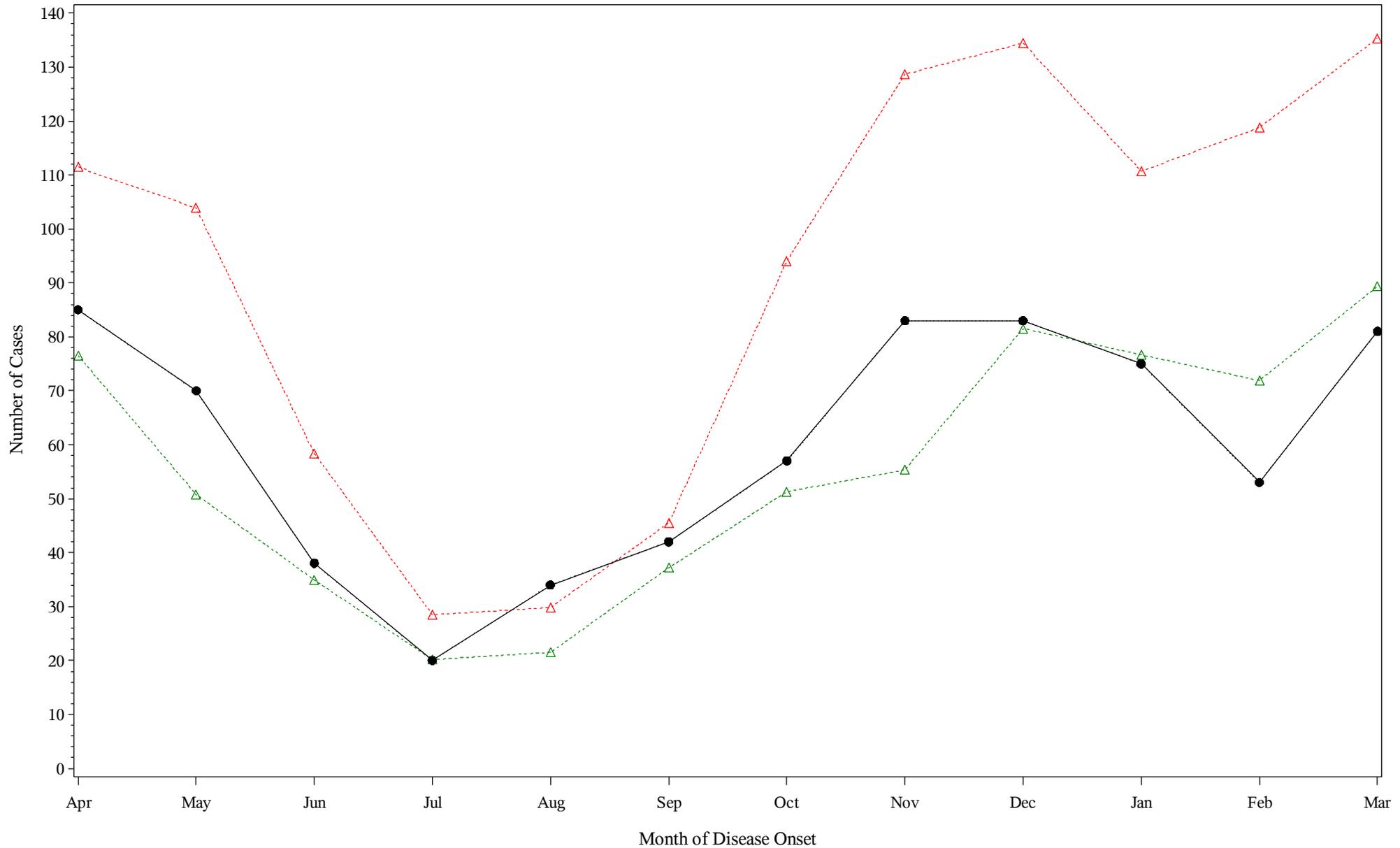


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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Streptococcus pneumoniae, Invasive, Drug Susceptible/Unknown



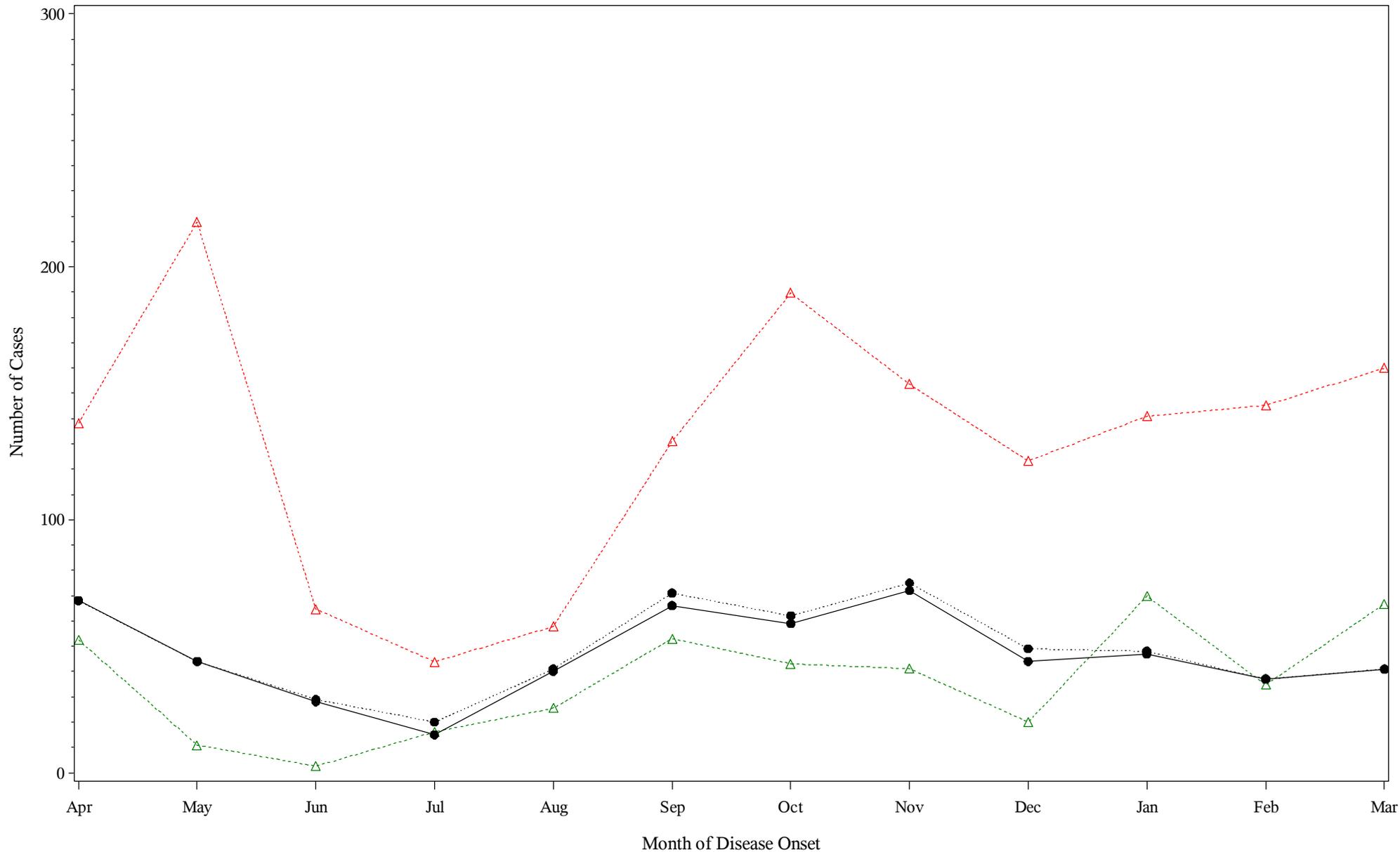
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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## Varicella

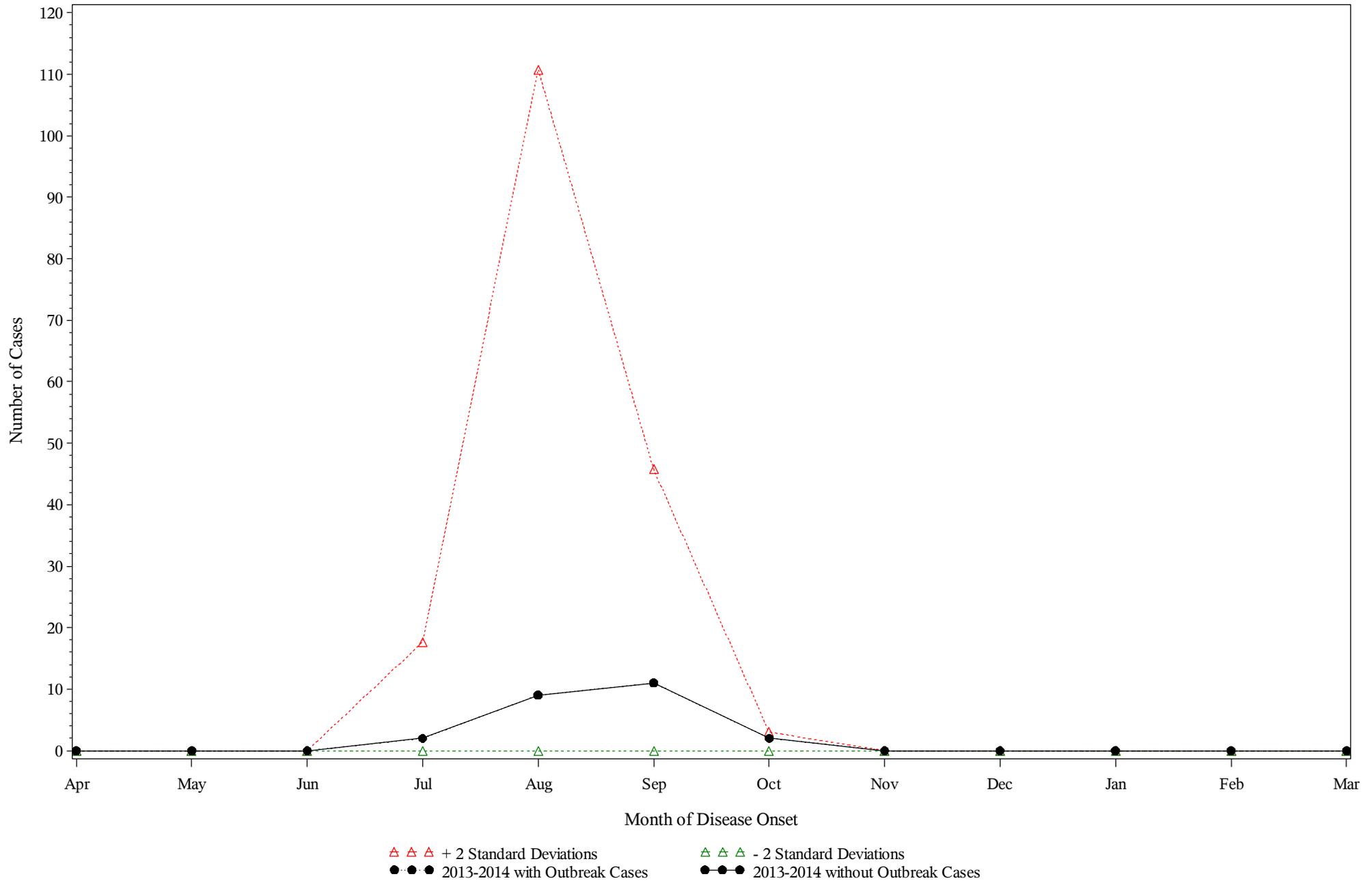


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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

## West Nile Virus Disease

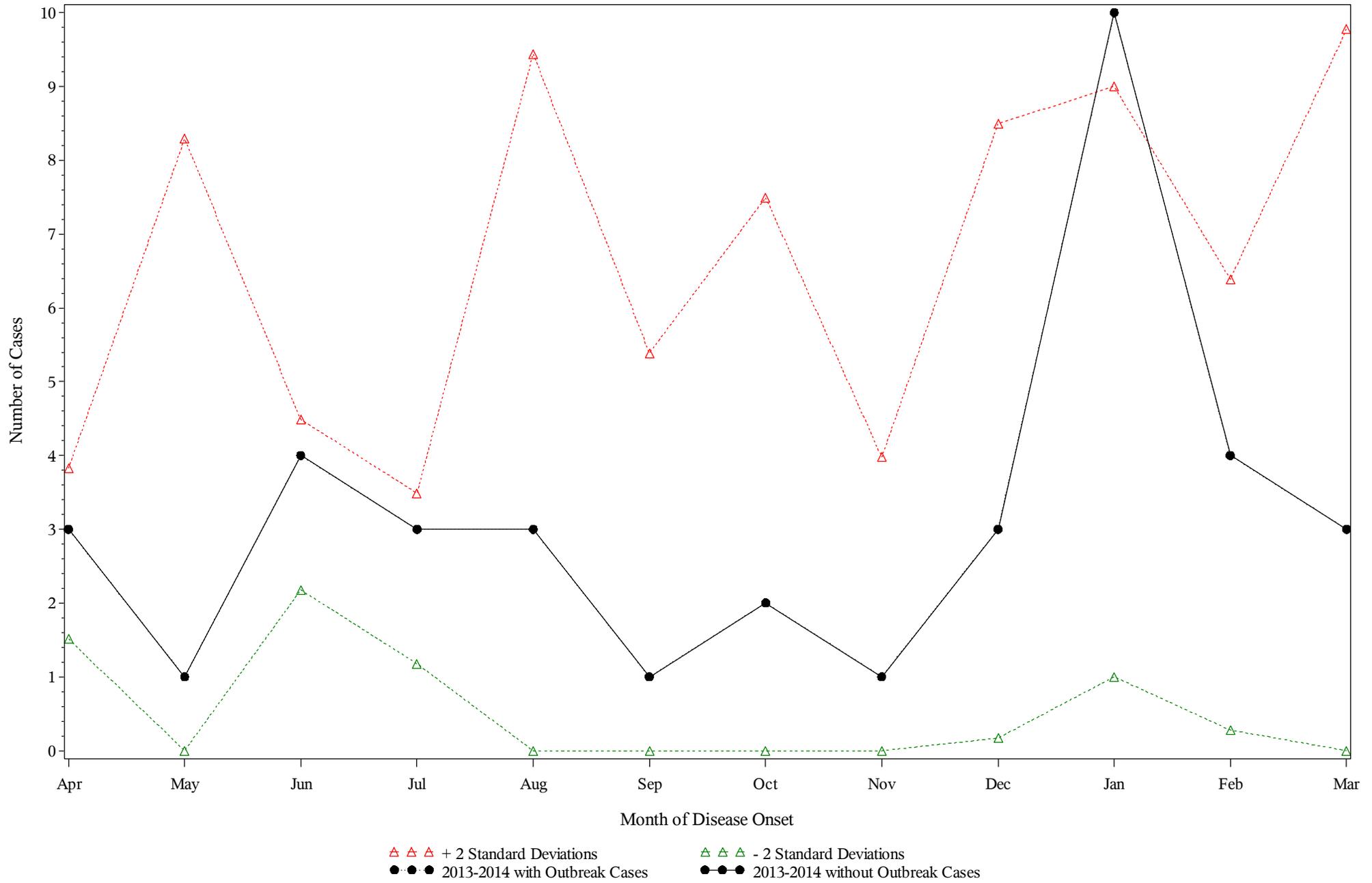


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# Quarterly Statewide Surveillance Trends by Disease, Ohio, 2013-2014

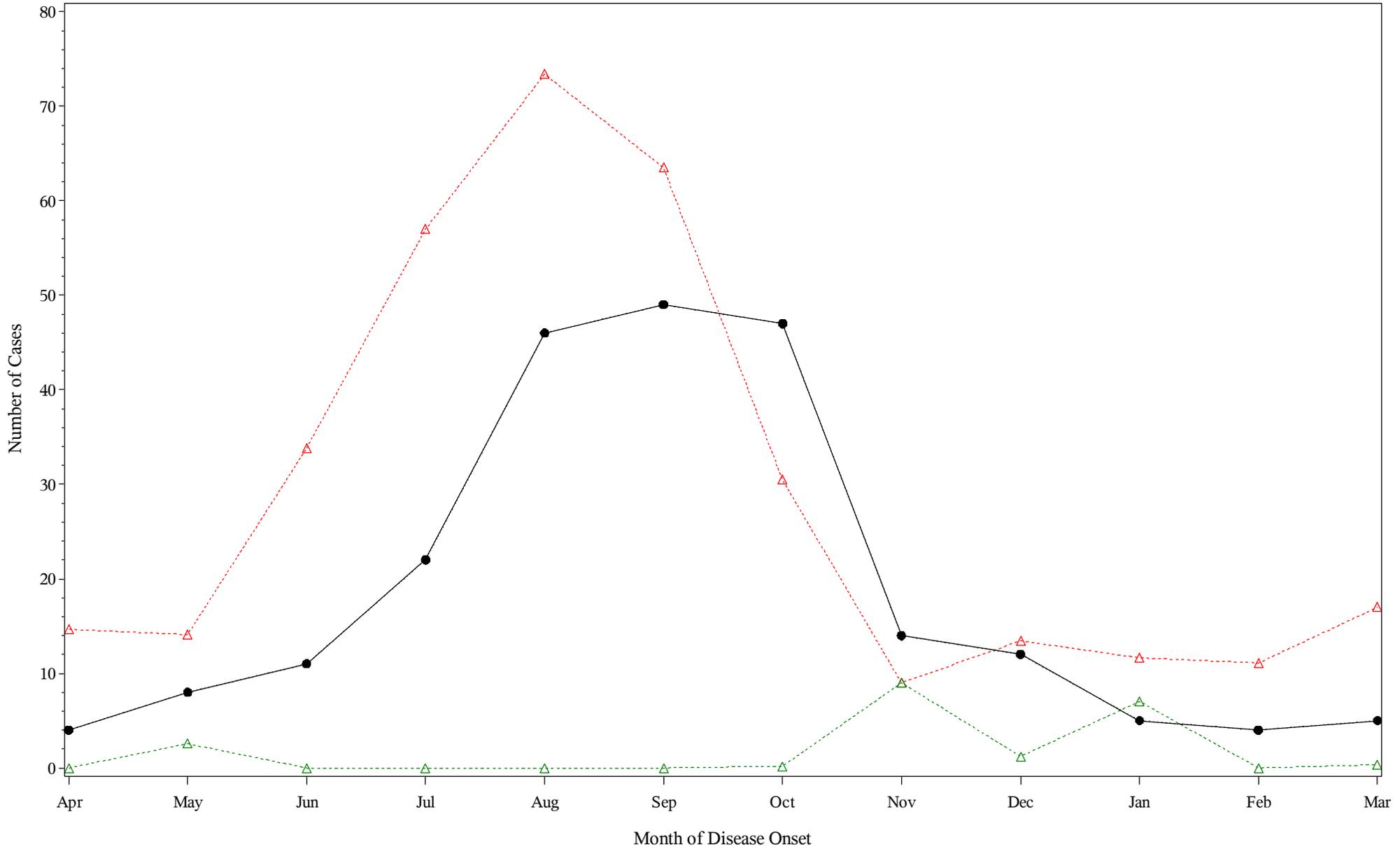
## Yersiniosis



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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Central Aseptic Meningitis



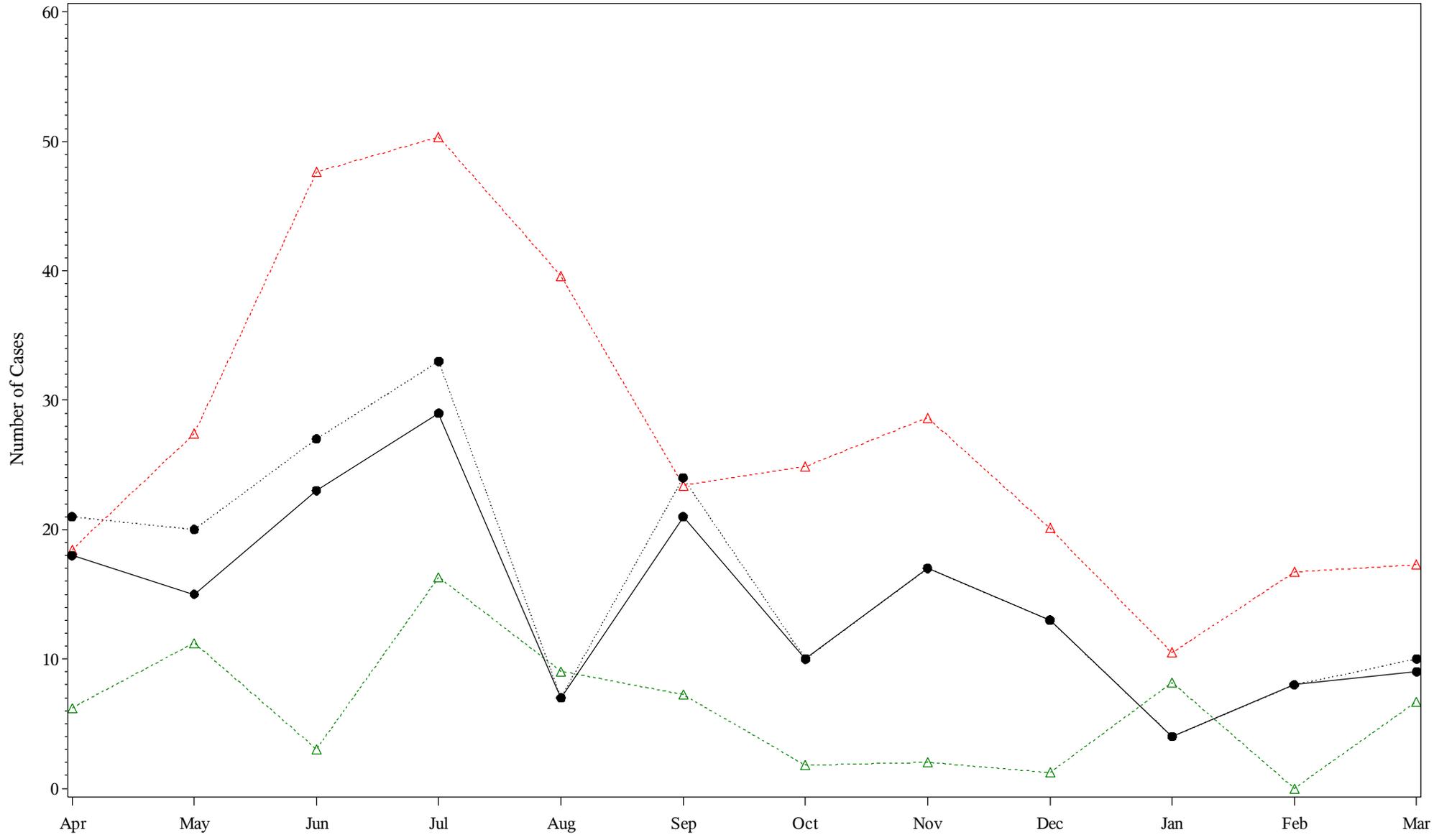
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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Central      Campylobacteriosis

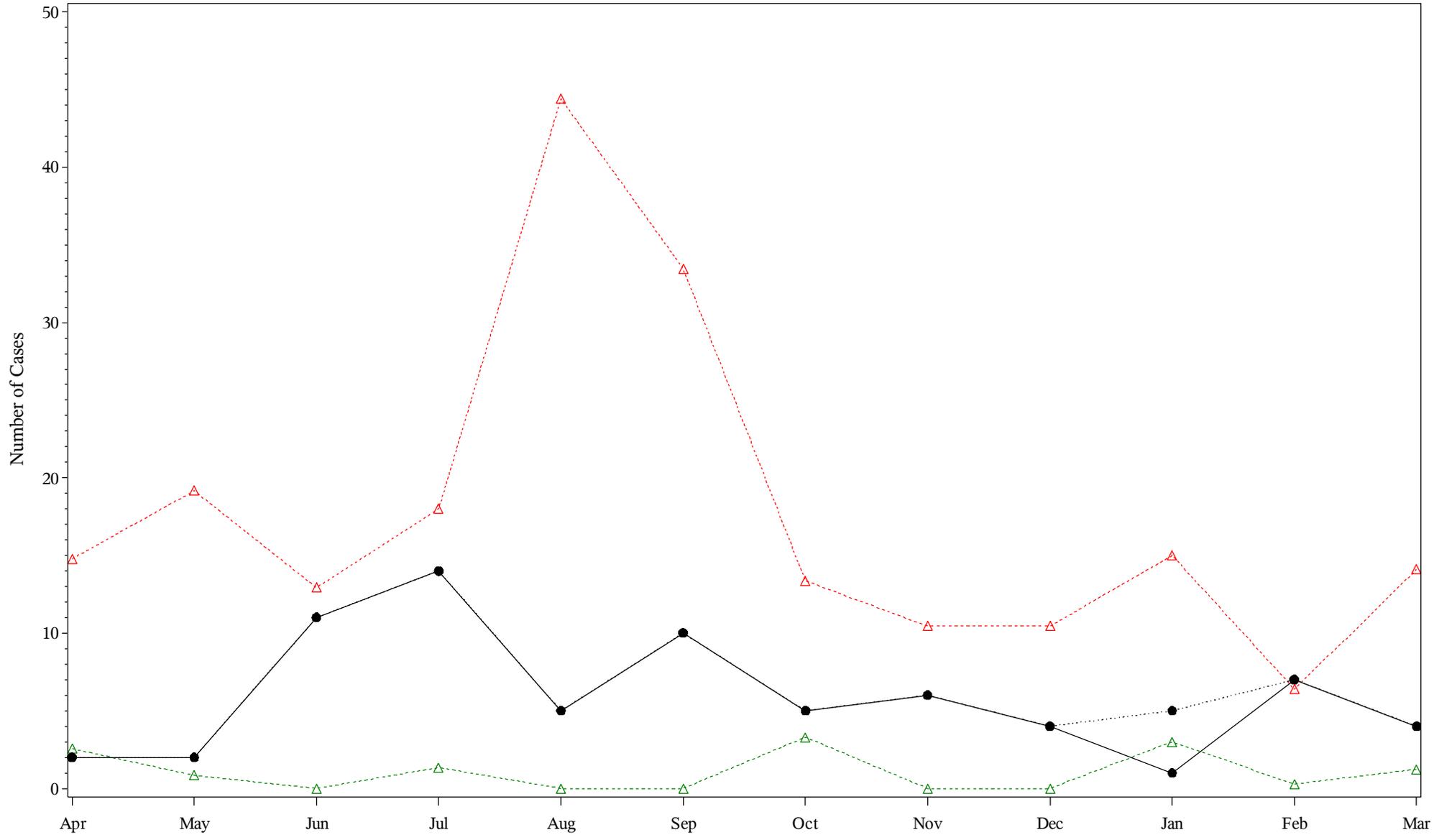


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Central      Cryptosporidiosis

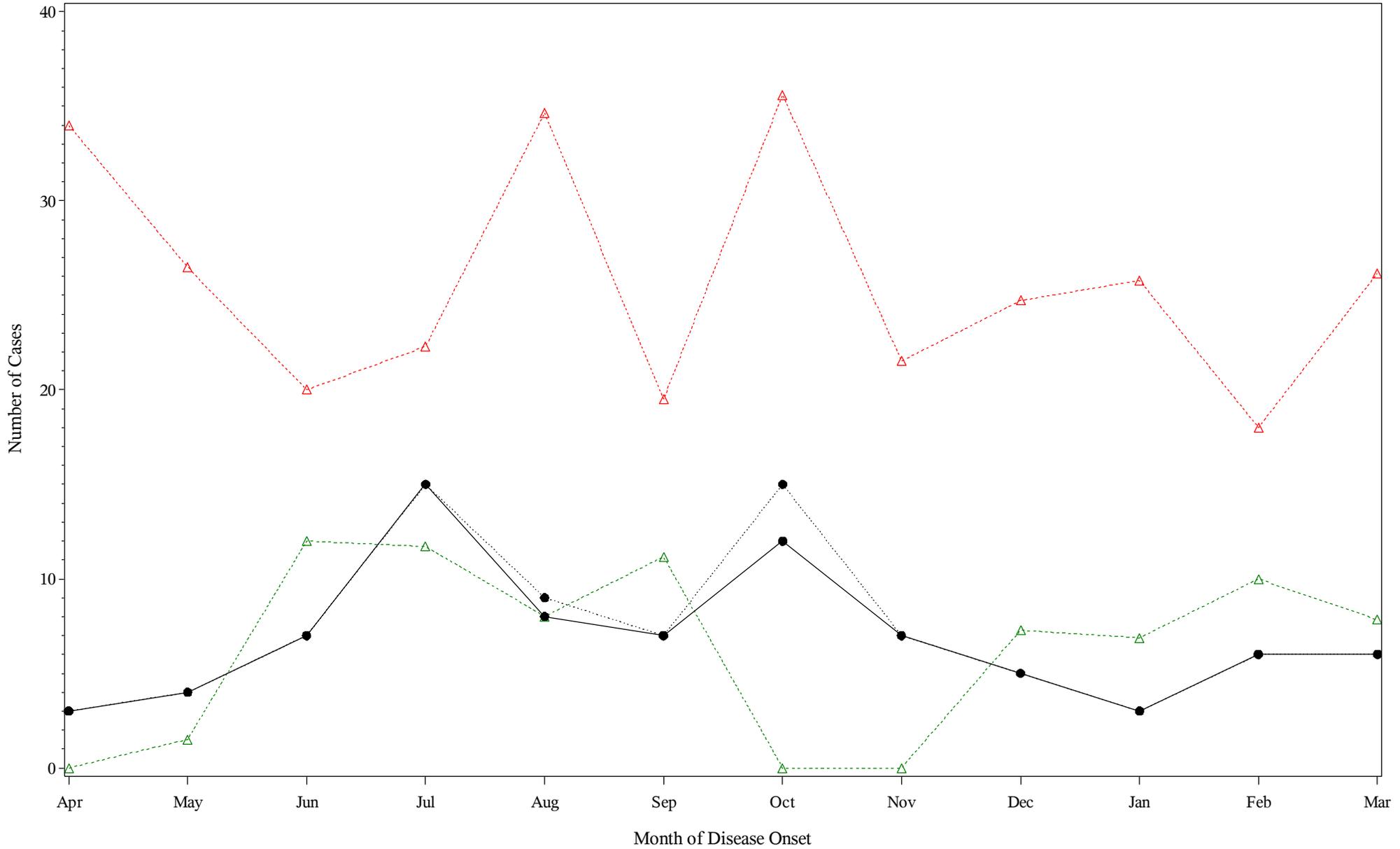


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Central      Giardiasis



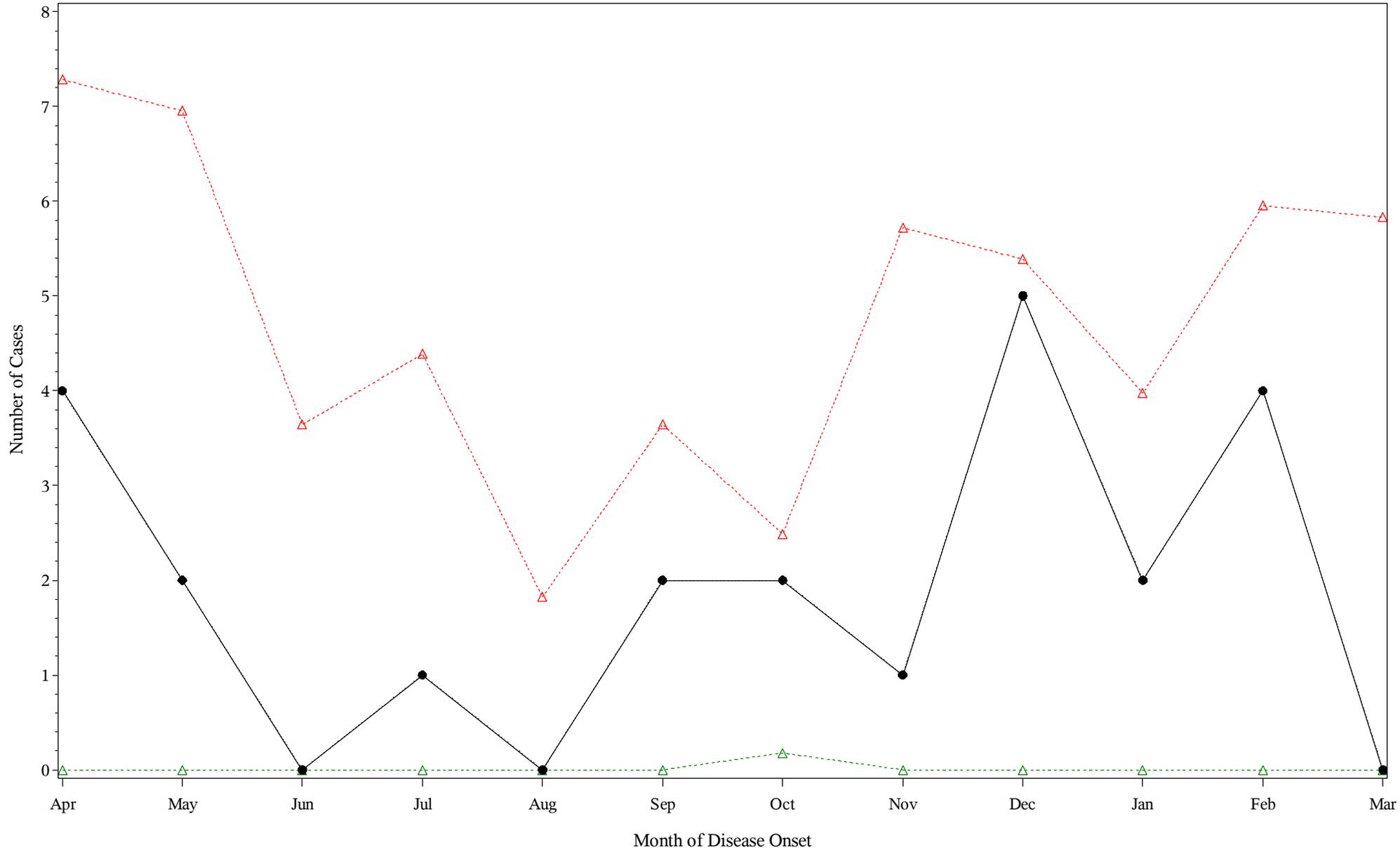
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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Central Haemophilus influenzae, Invasive

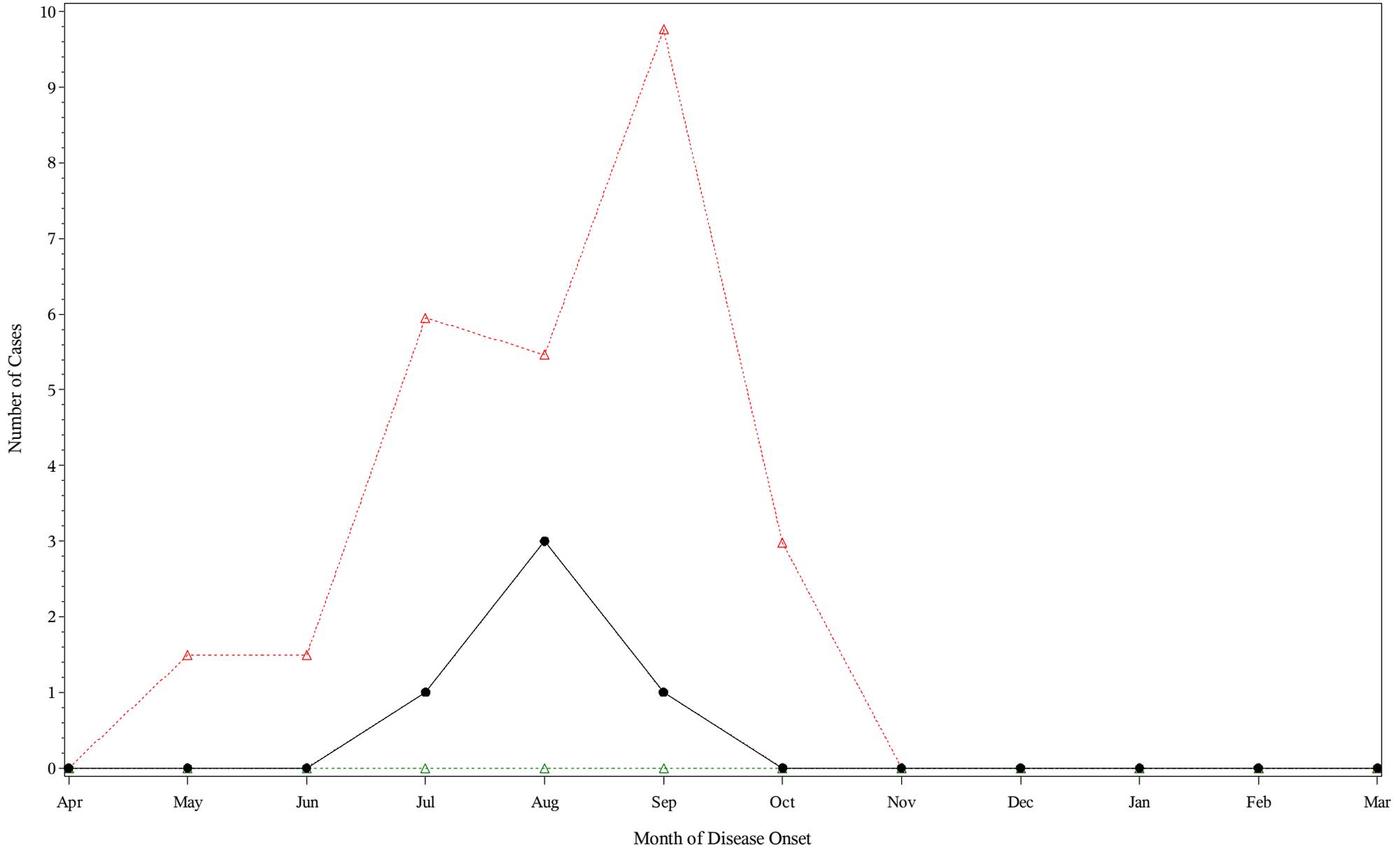


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Central LaCrosse Virus Disease



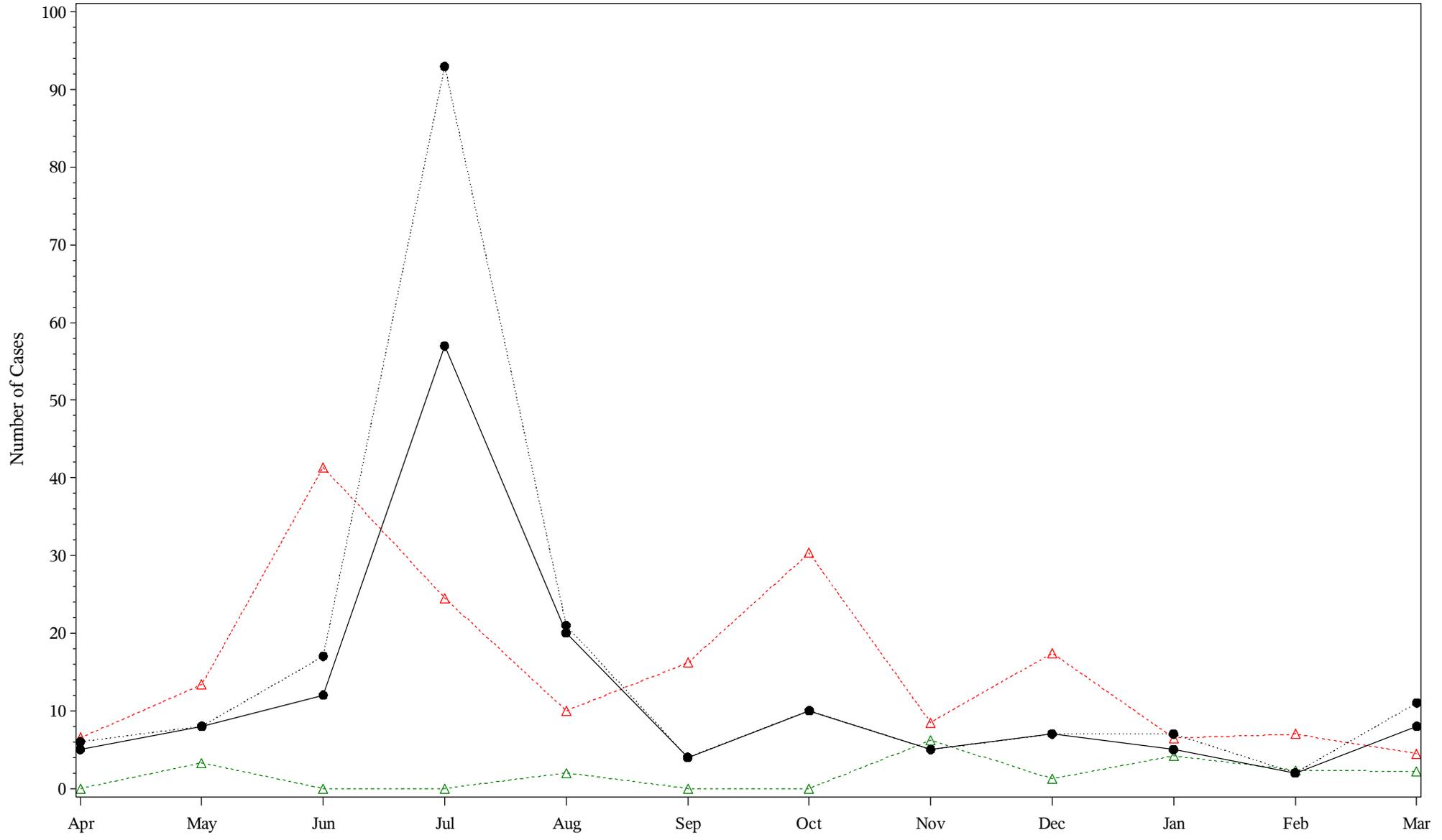
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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Central Legionellosis

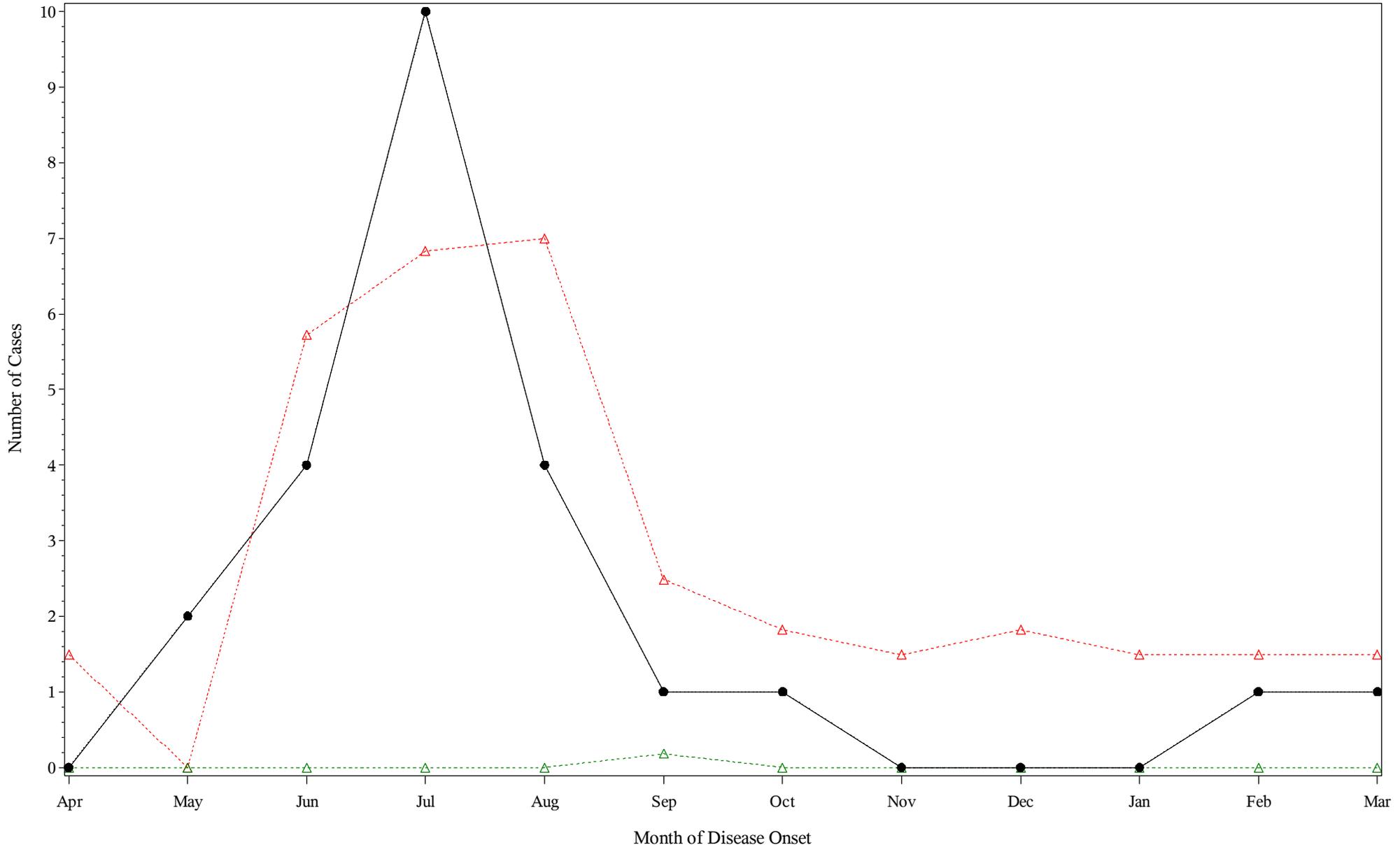


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Central Lyme Disease



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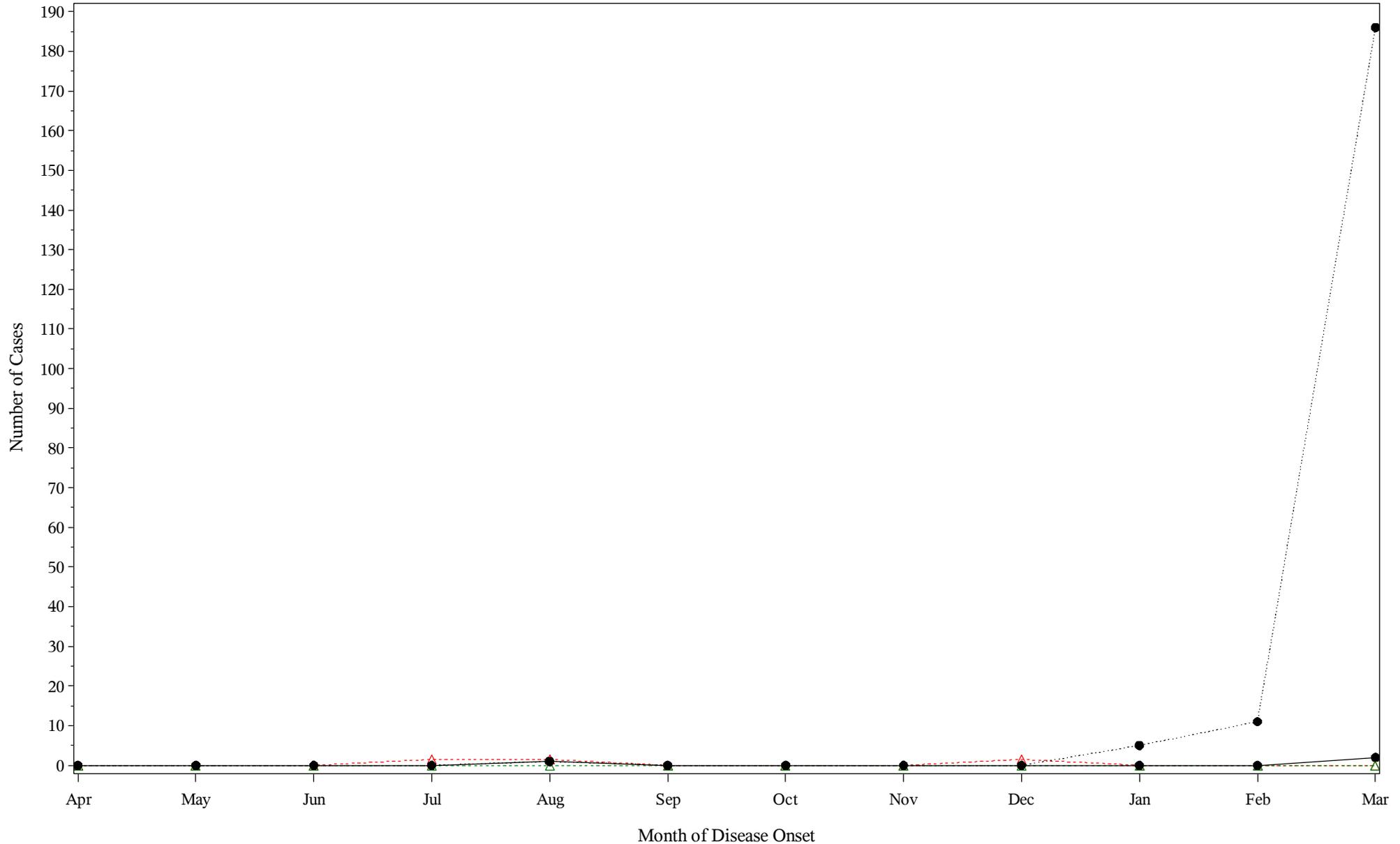
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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Central Mumps

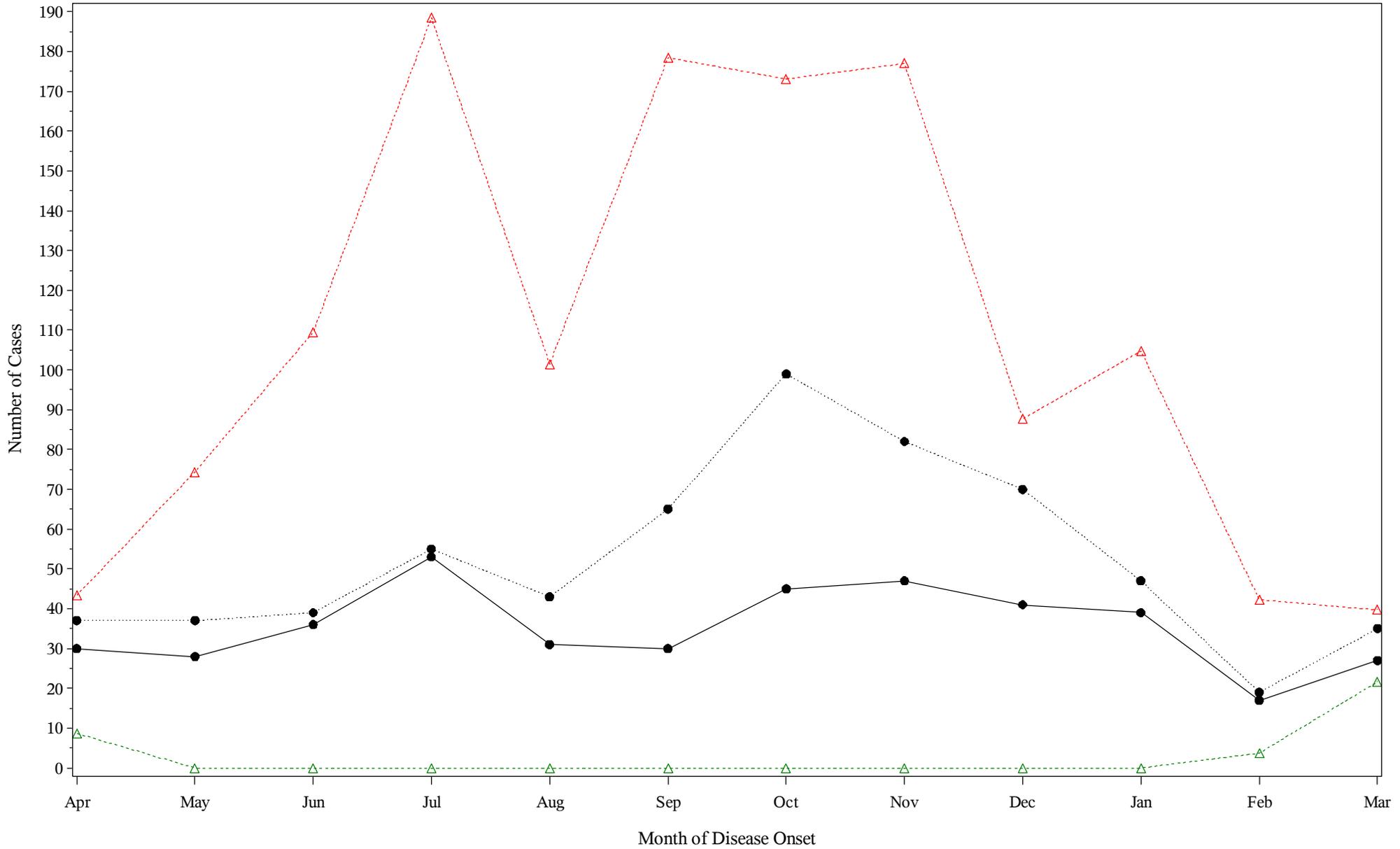


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Central Pertussis



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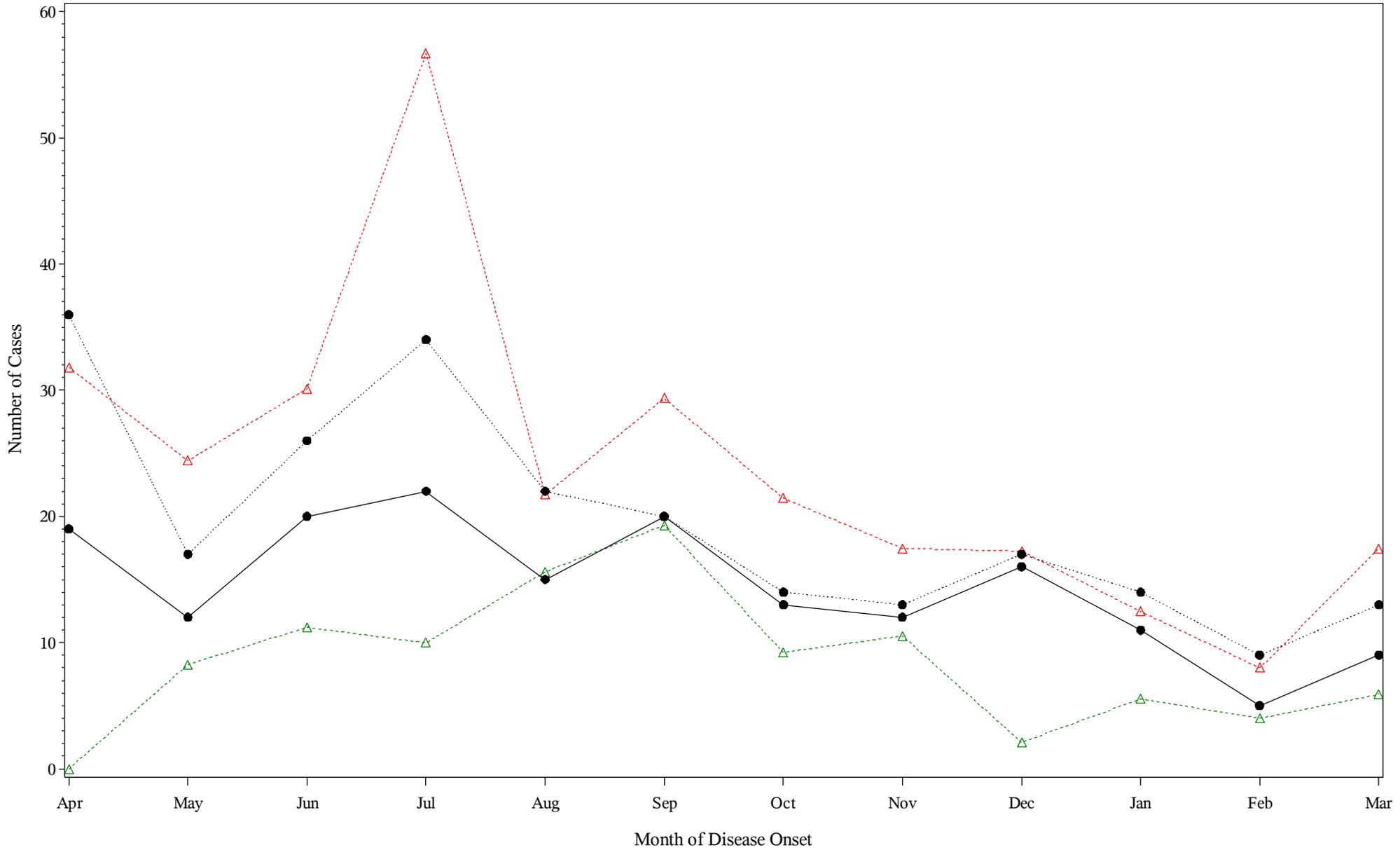
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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Central Salmonellosis



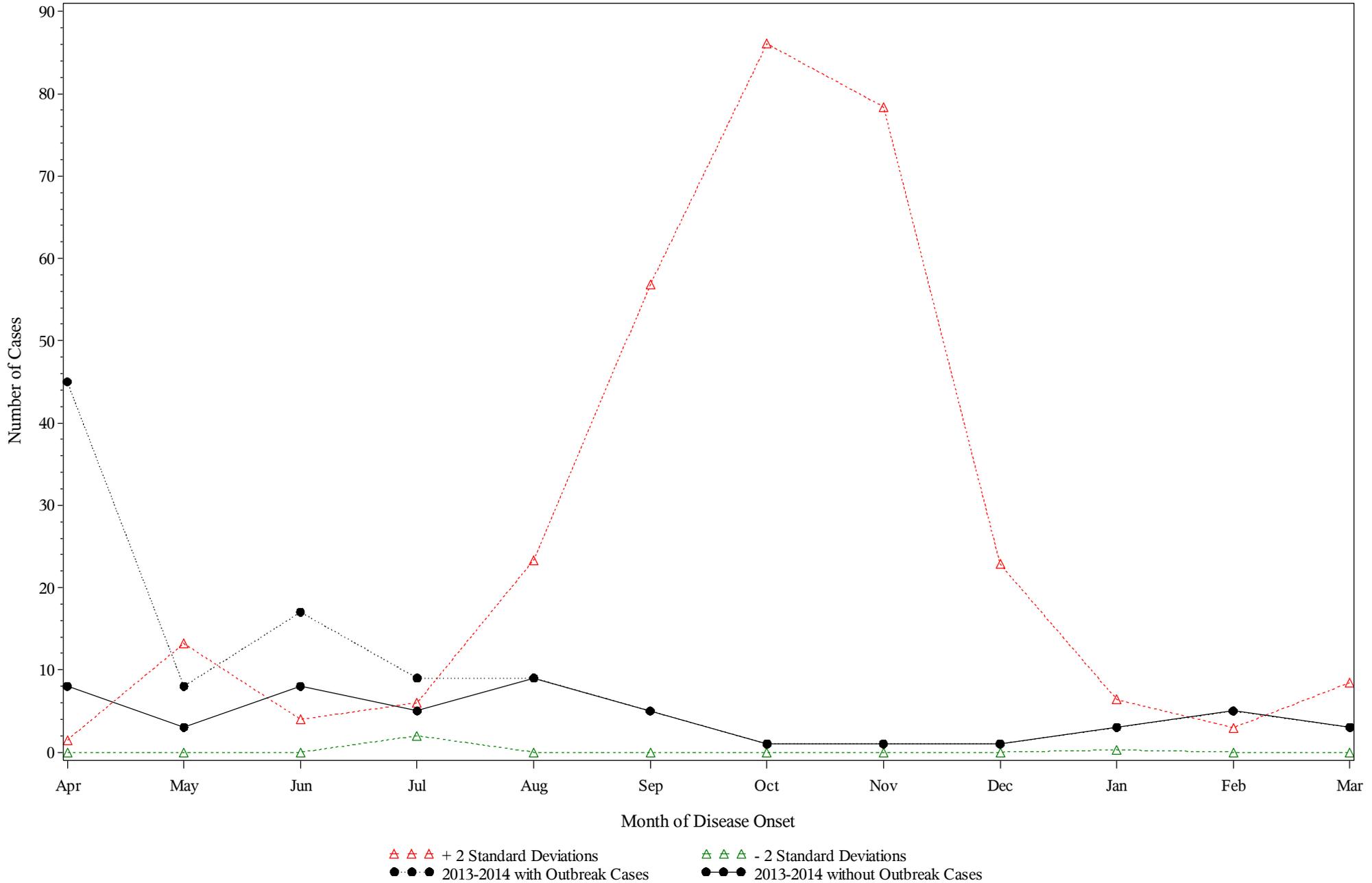
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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Central Shigellosis



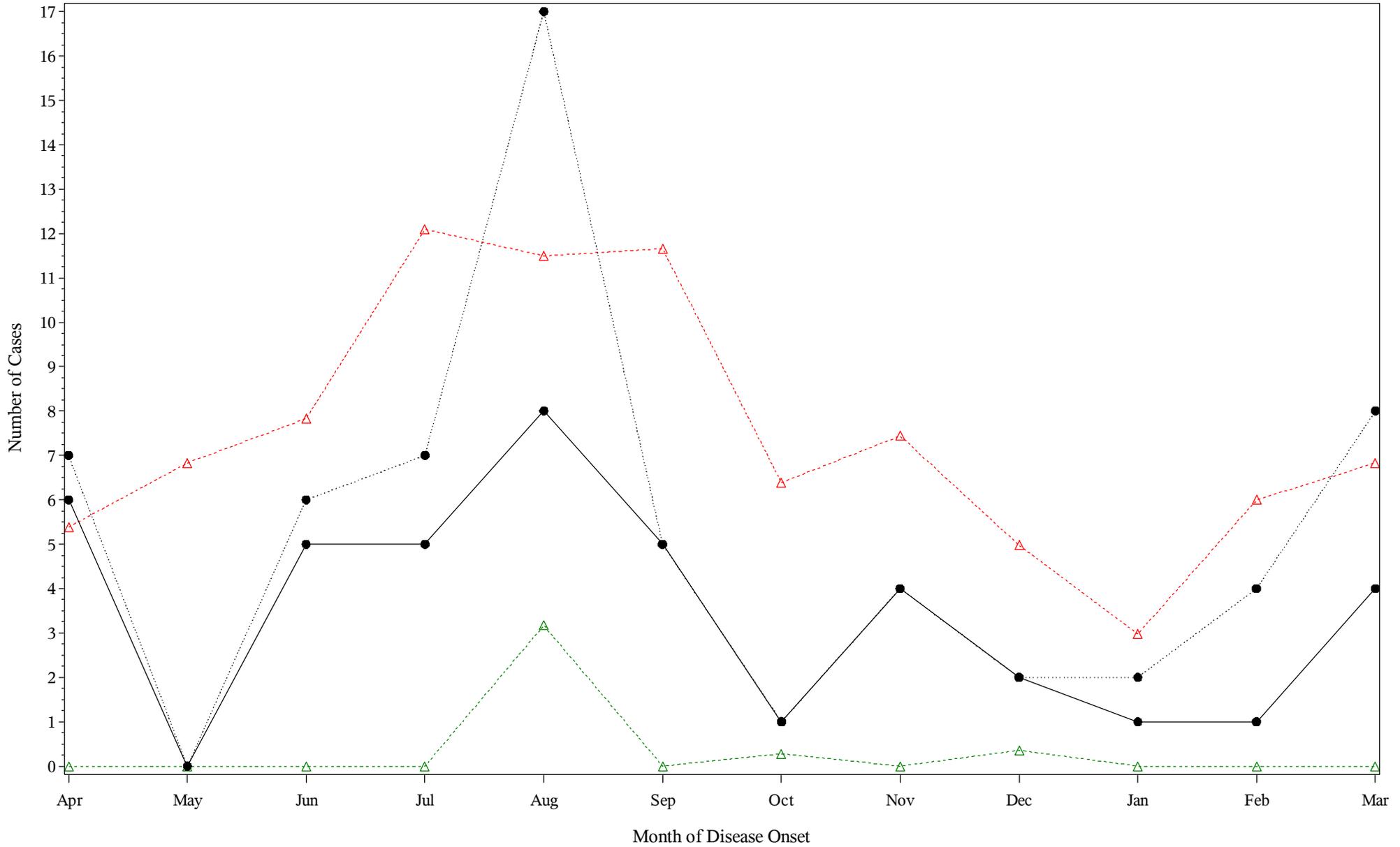
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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Central Shiga Toxin-Producing Escherichia coli



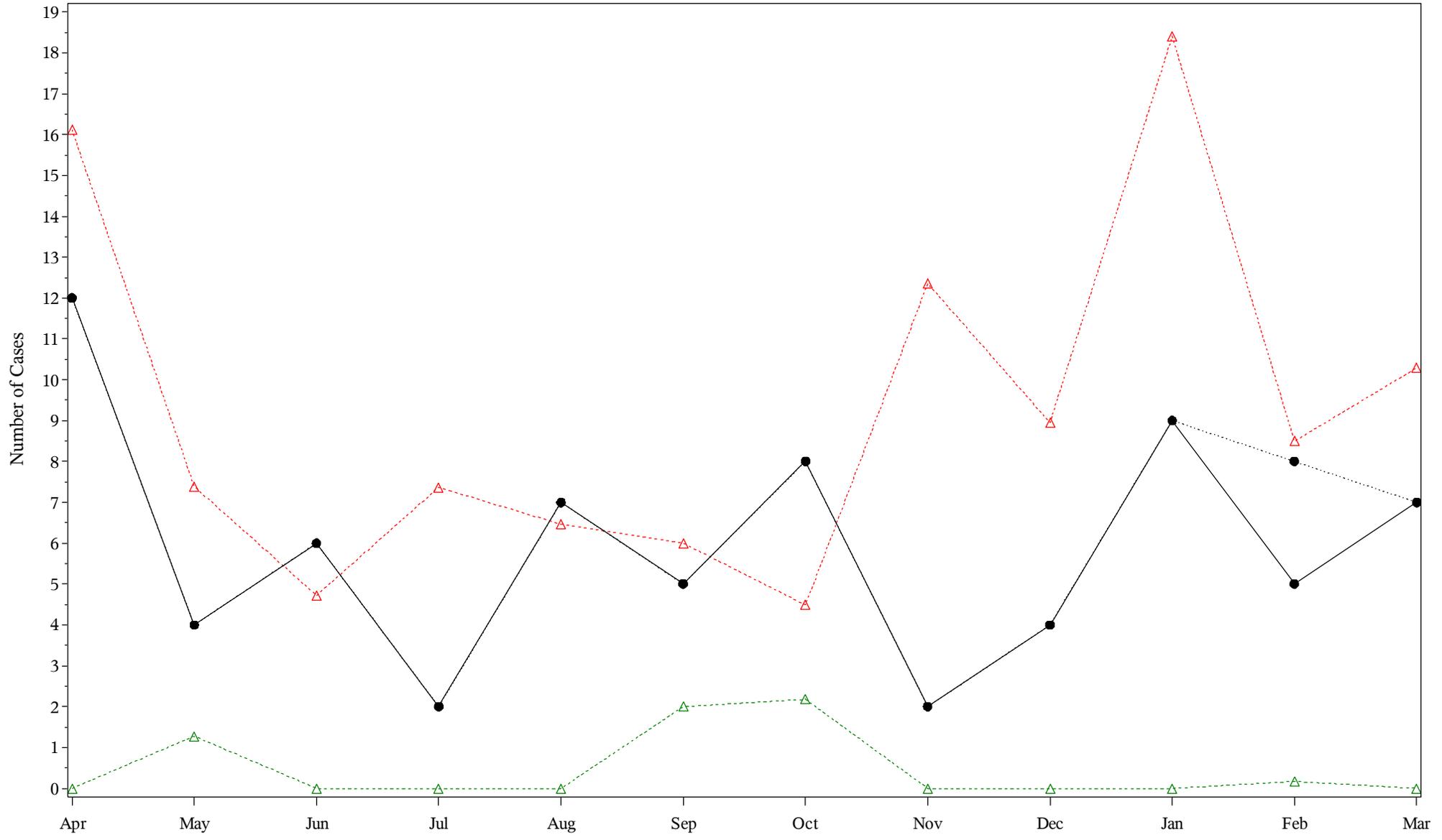
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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Central      Streptococcal Disease, Group A, Invasive

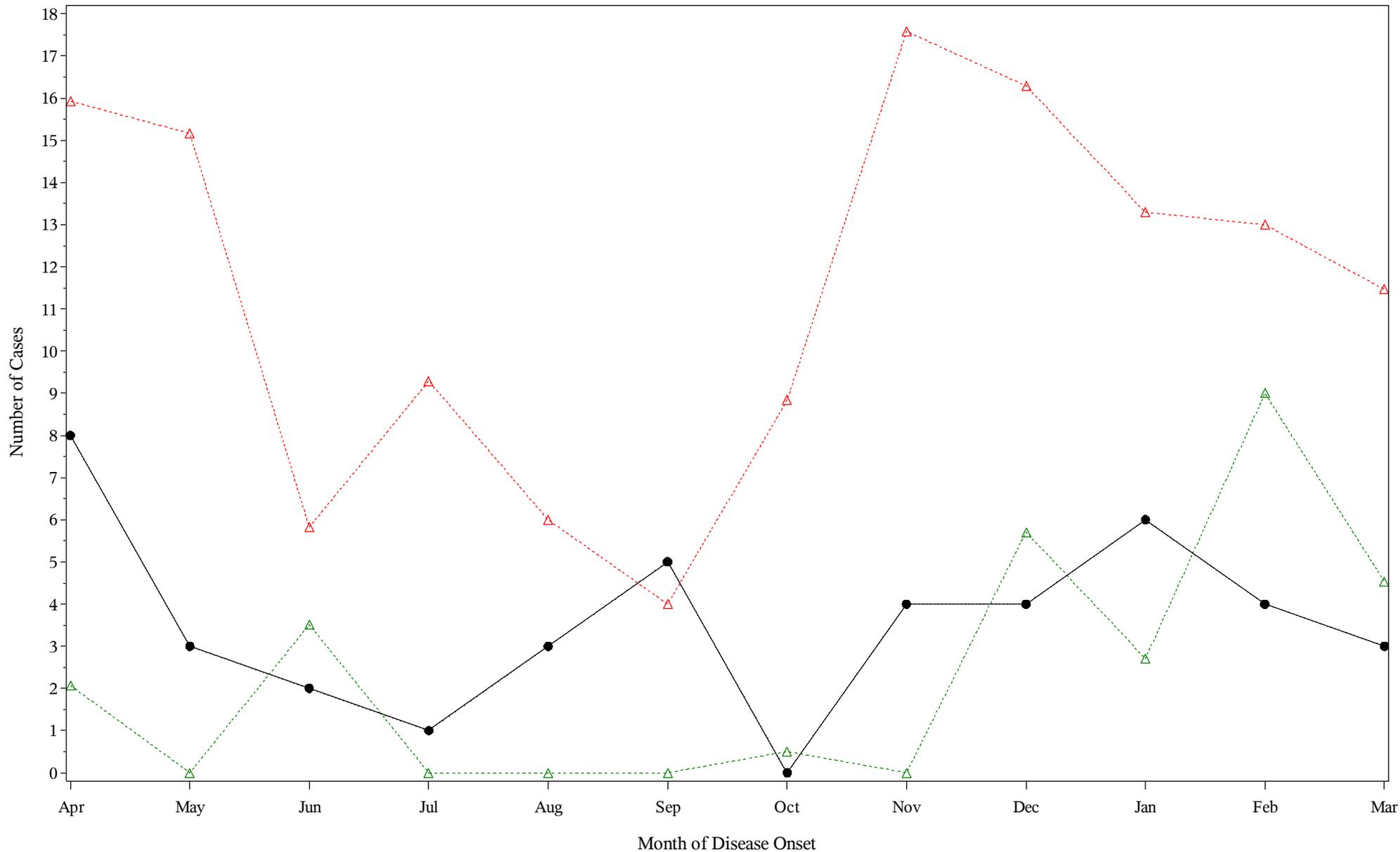


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## Central Streptococcus pneumoniae, Invasive, Drug Resistant/Intermediate



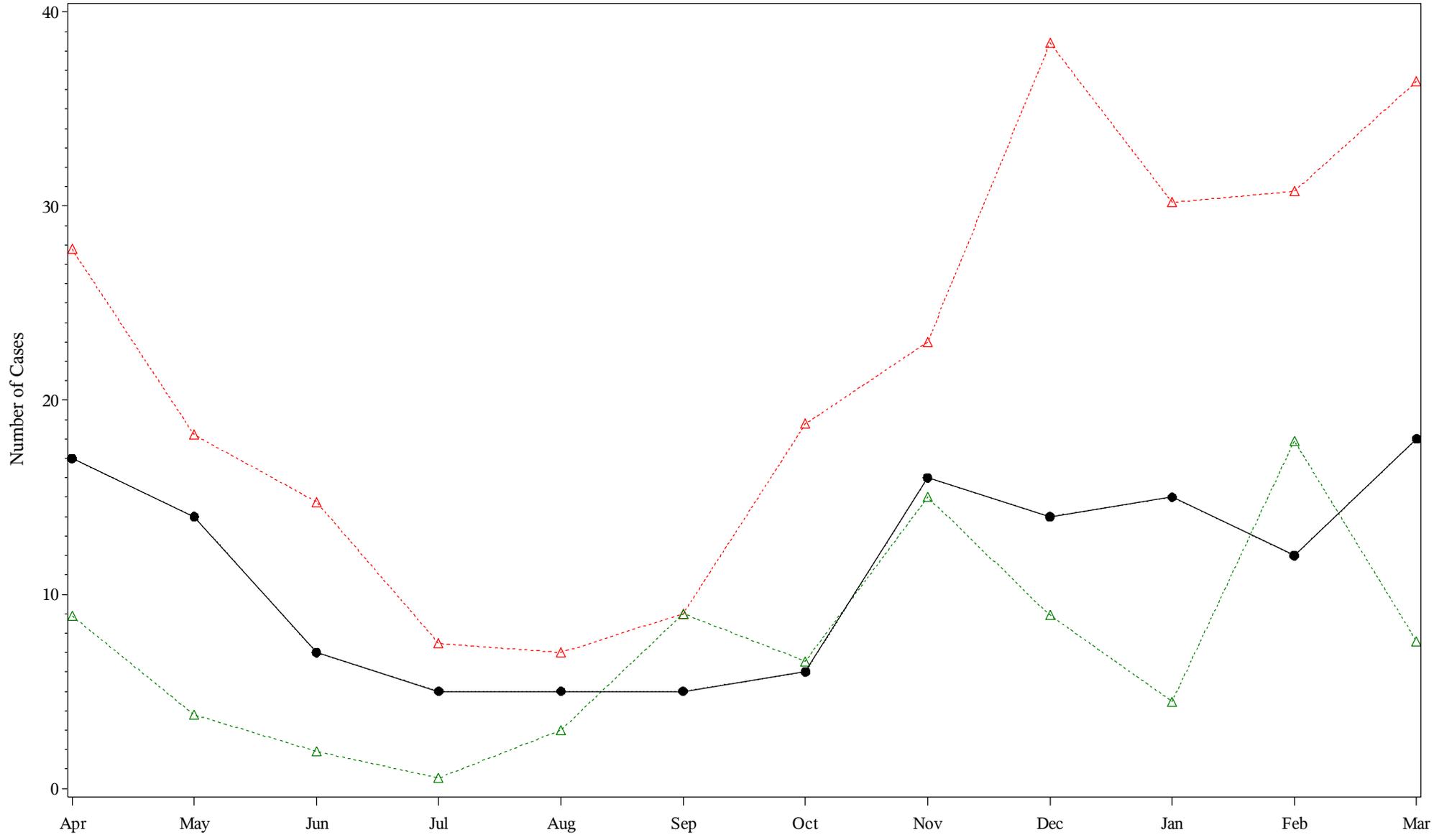
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 ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Central      Streptococcus pneumoniae, Invasive, Drug Susceptible/Unknown

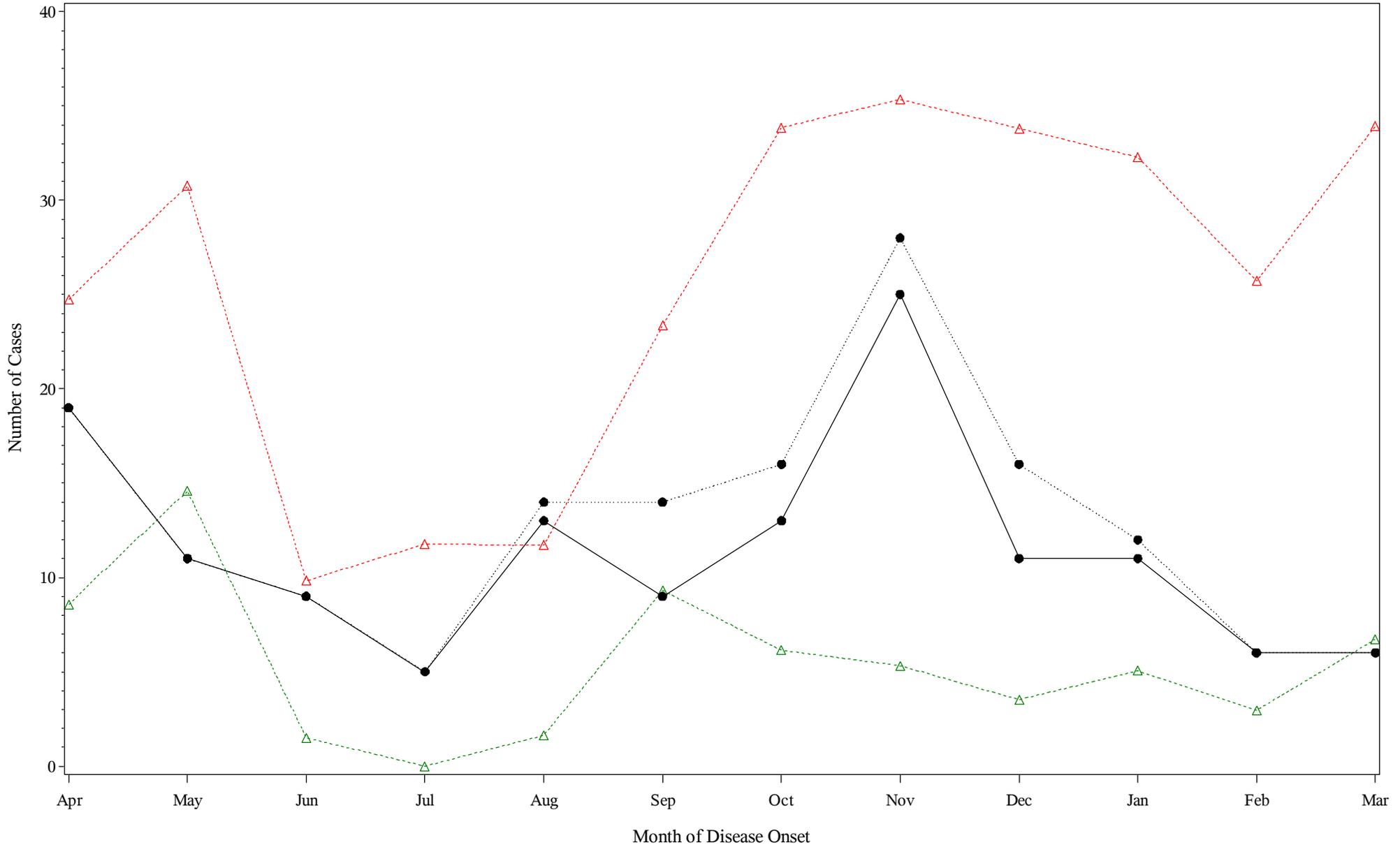


△ △ △ + 2 Standard Deviations      △ △ △ - 2 Standard Deviations  
● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Central Varicella



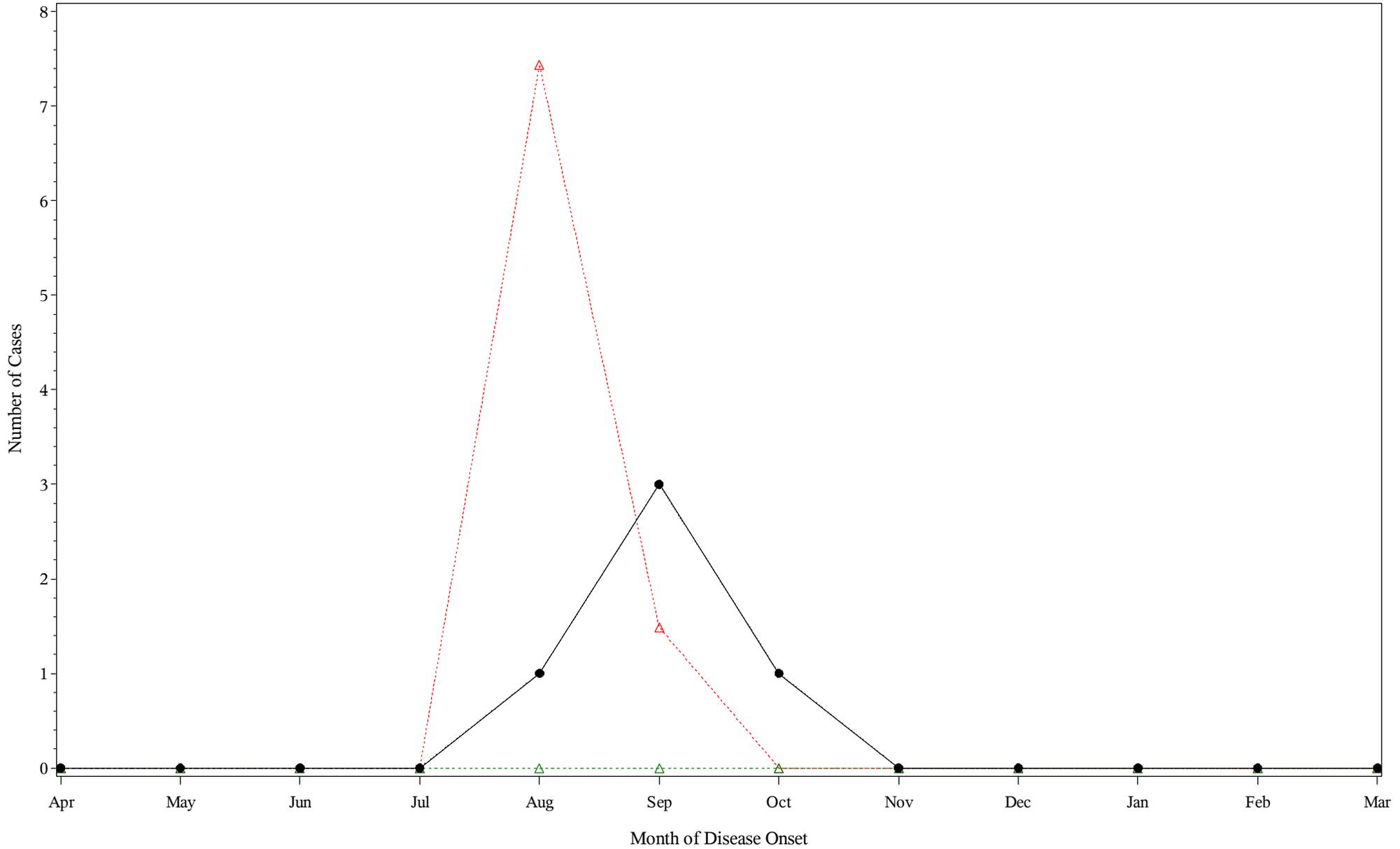
△ △ △ + 2 Standard Deviations     
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● ● ● 2013-2014 with Outbreak Cases     
 ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Central West Nile Virus Disease



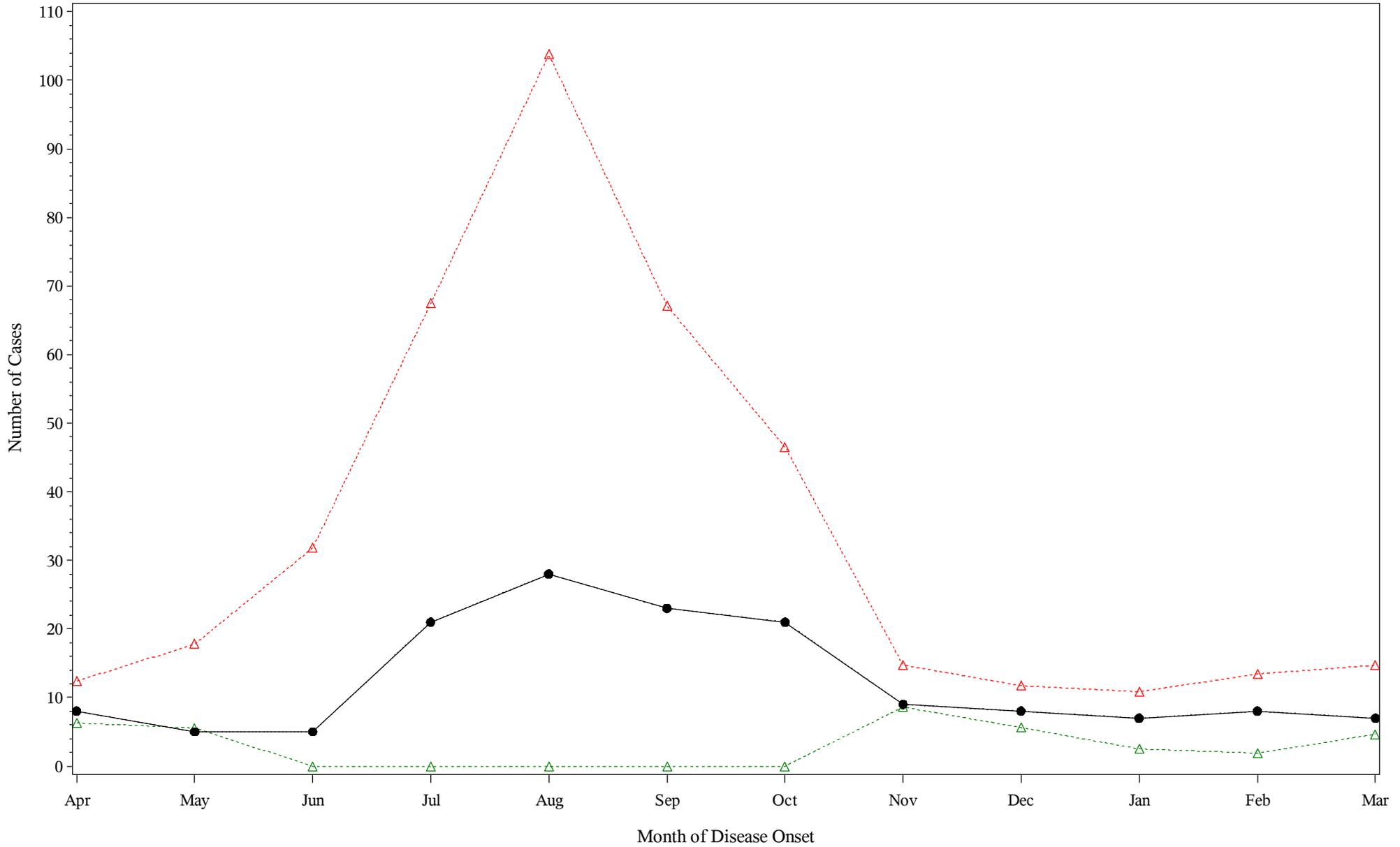
△ △ △ + 2 Standard Deviations      △ △ △ - 2 Standard Deviations  
● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

East Central      Aseptic Meningitis



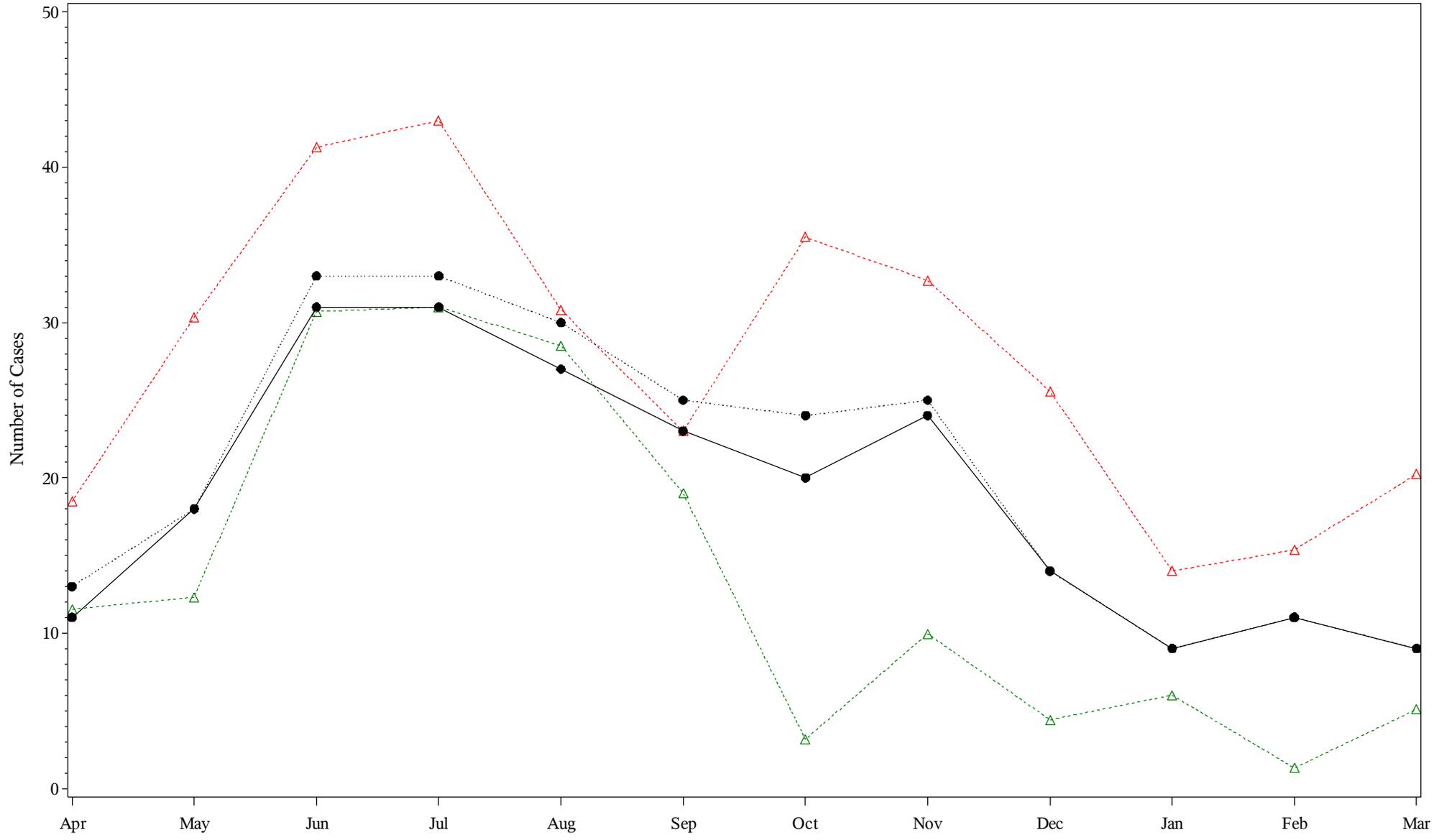
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● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## East Central      Campylobacteriosis

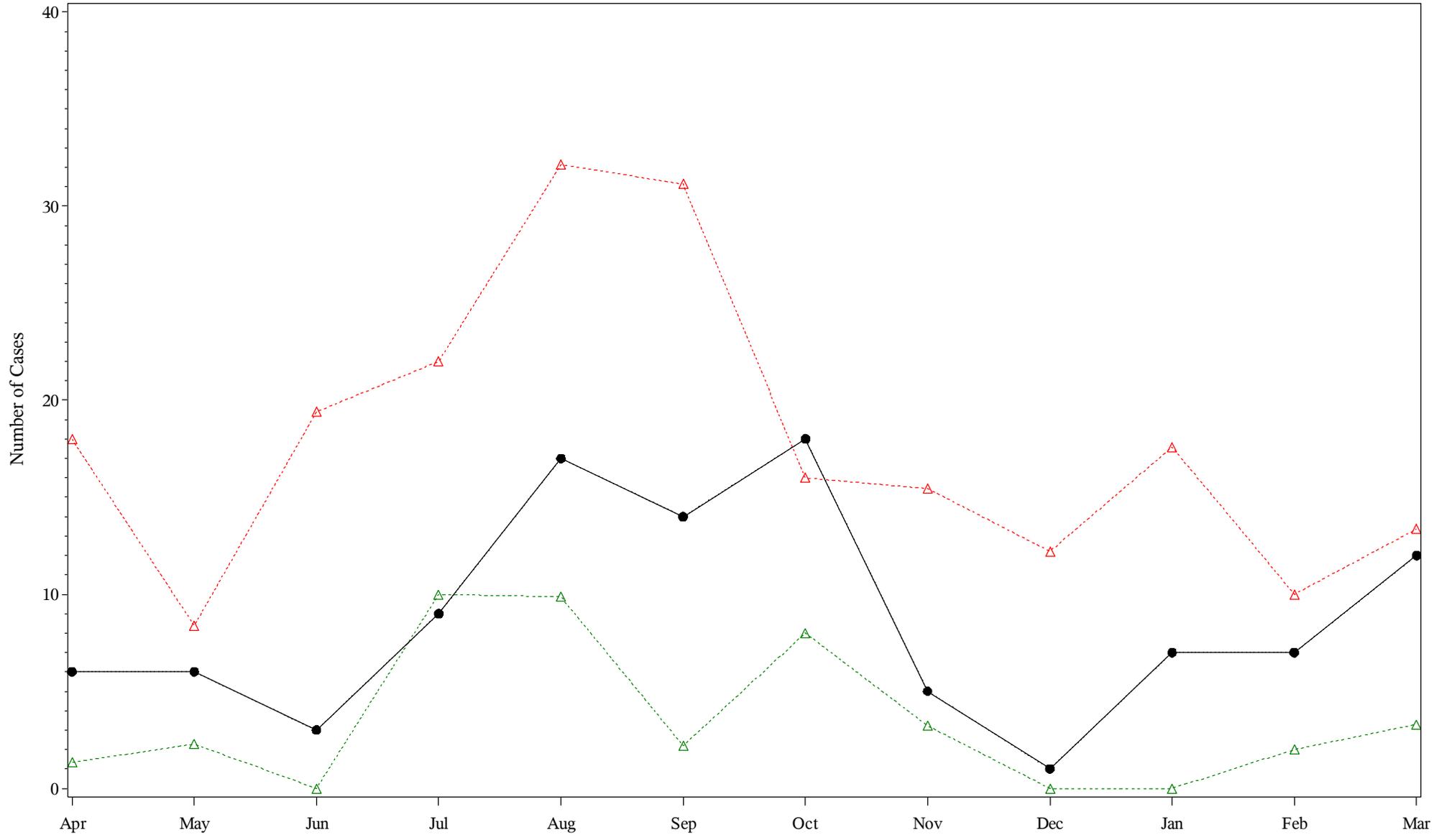


△ △ △ + 2 Standard Deviations      △ △ △ - 2 Standard Deviations  
● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## East Central      Cryptosporidiosis

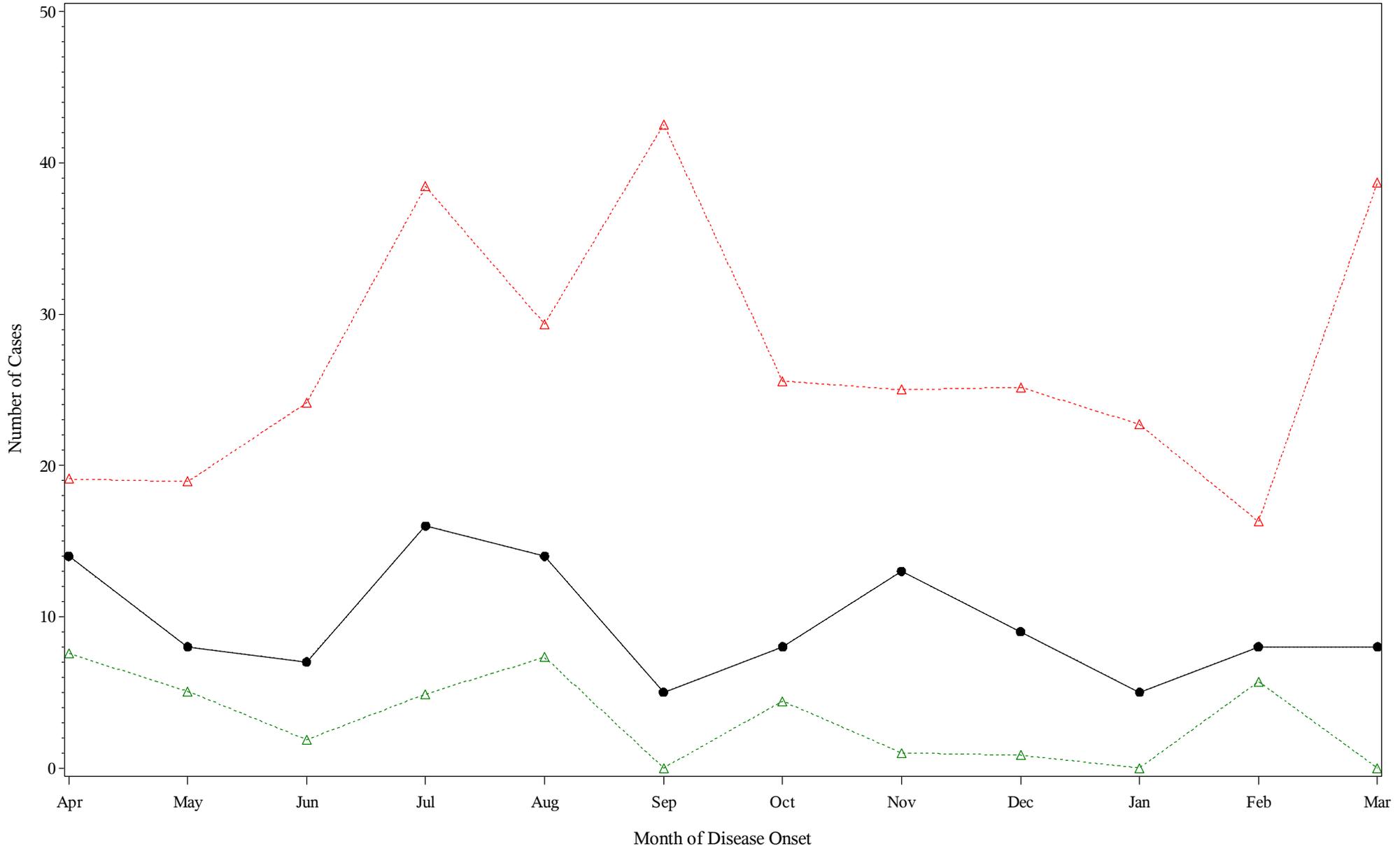


△ △ △ + 2 Standard Deviations      △ △ △ - 2 Standard Deviations  
● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## East Central      Giardiasis



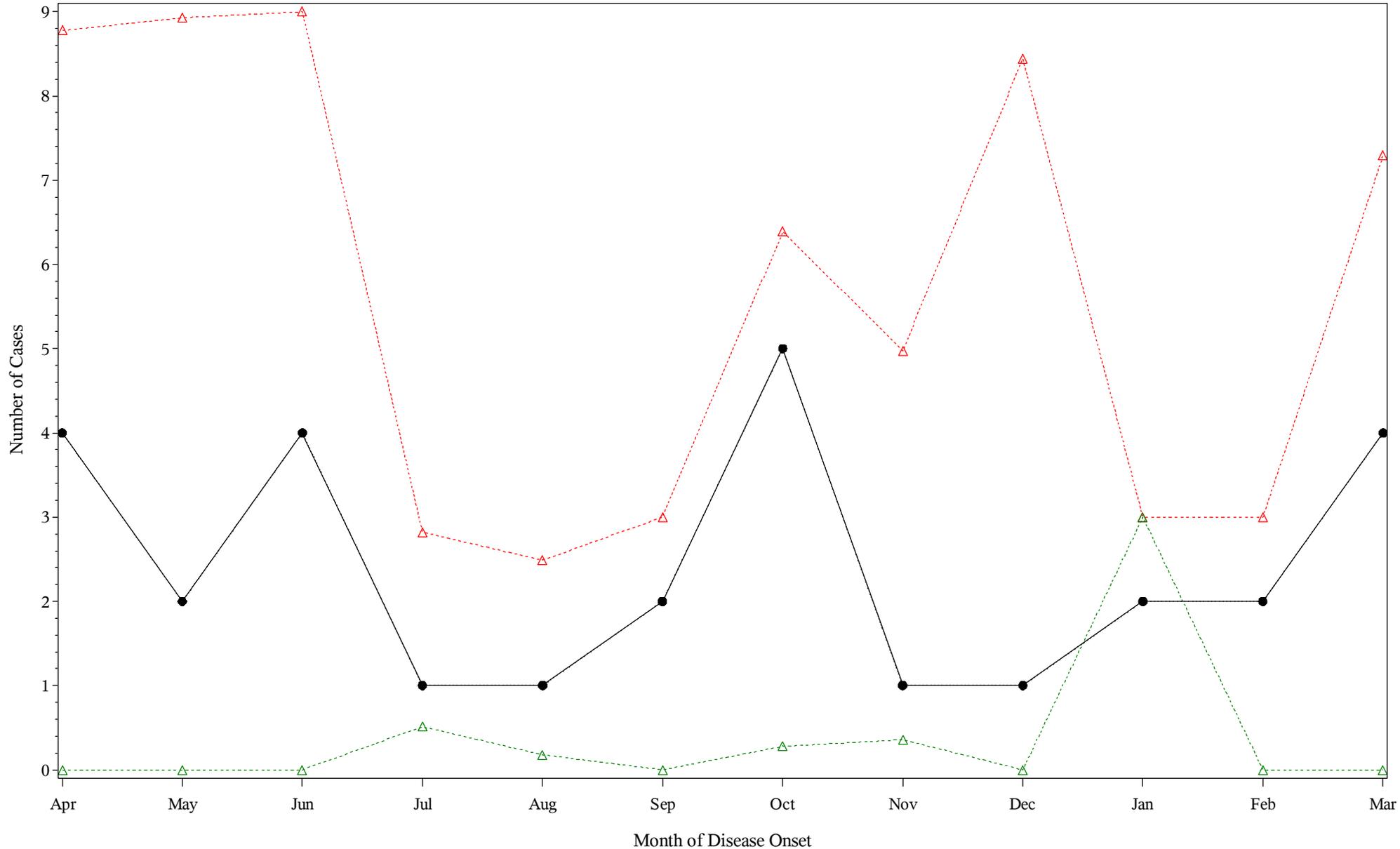
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● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## East Central      Haemophilus influenzae, Invasive

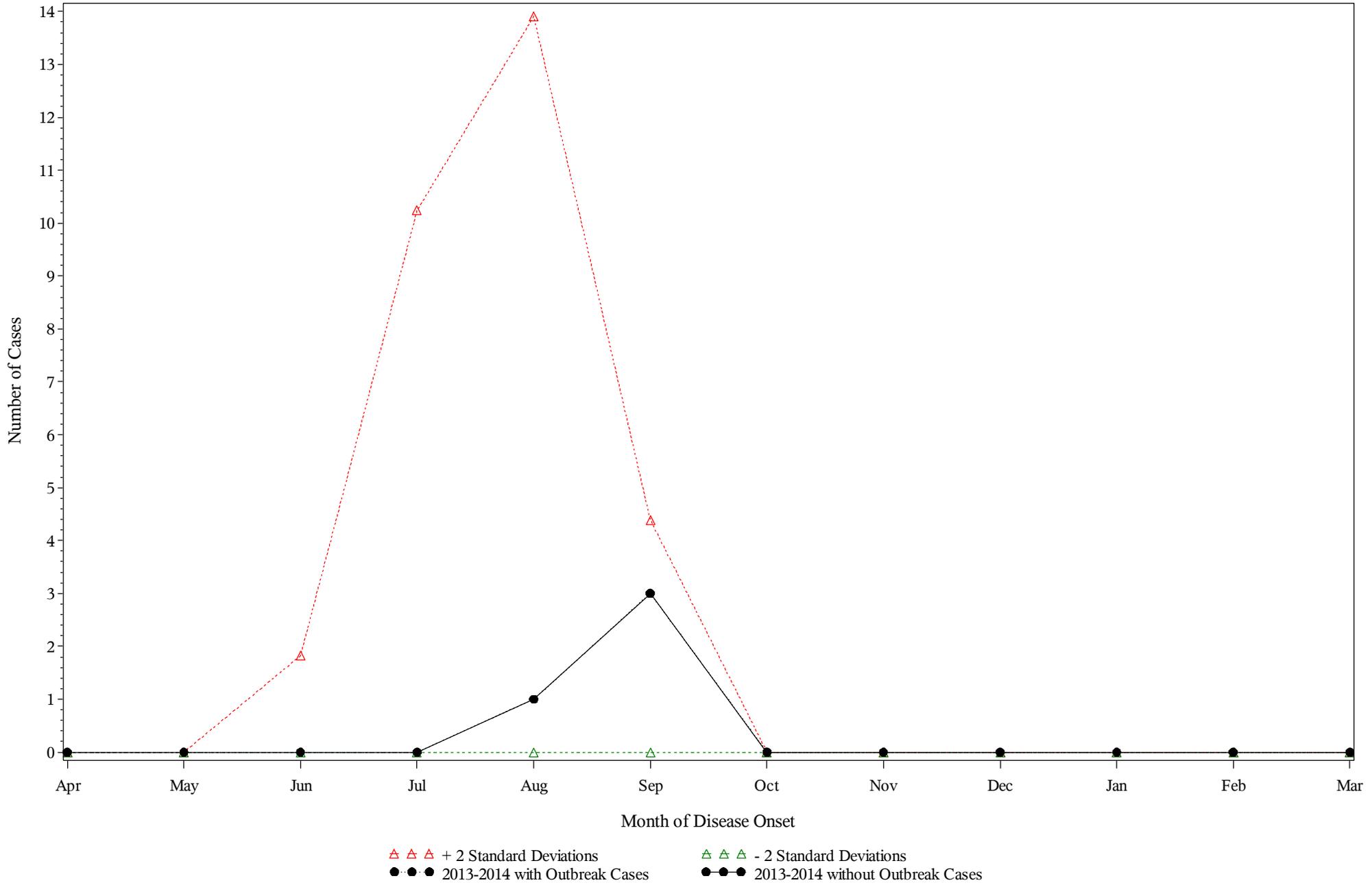


△ △ △ + 2 Standard Deviations      △ △ △ - 2 Standard Deviations  
● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

East Central LaCrosse Virus Disease



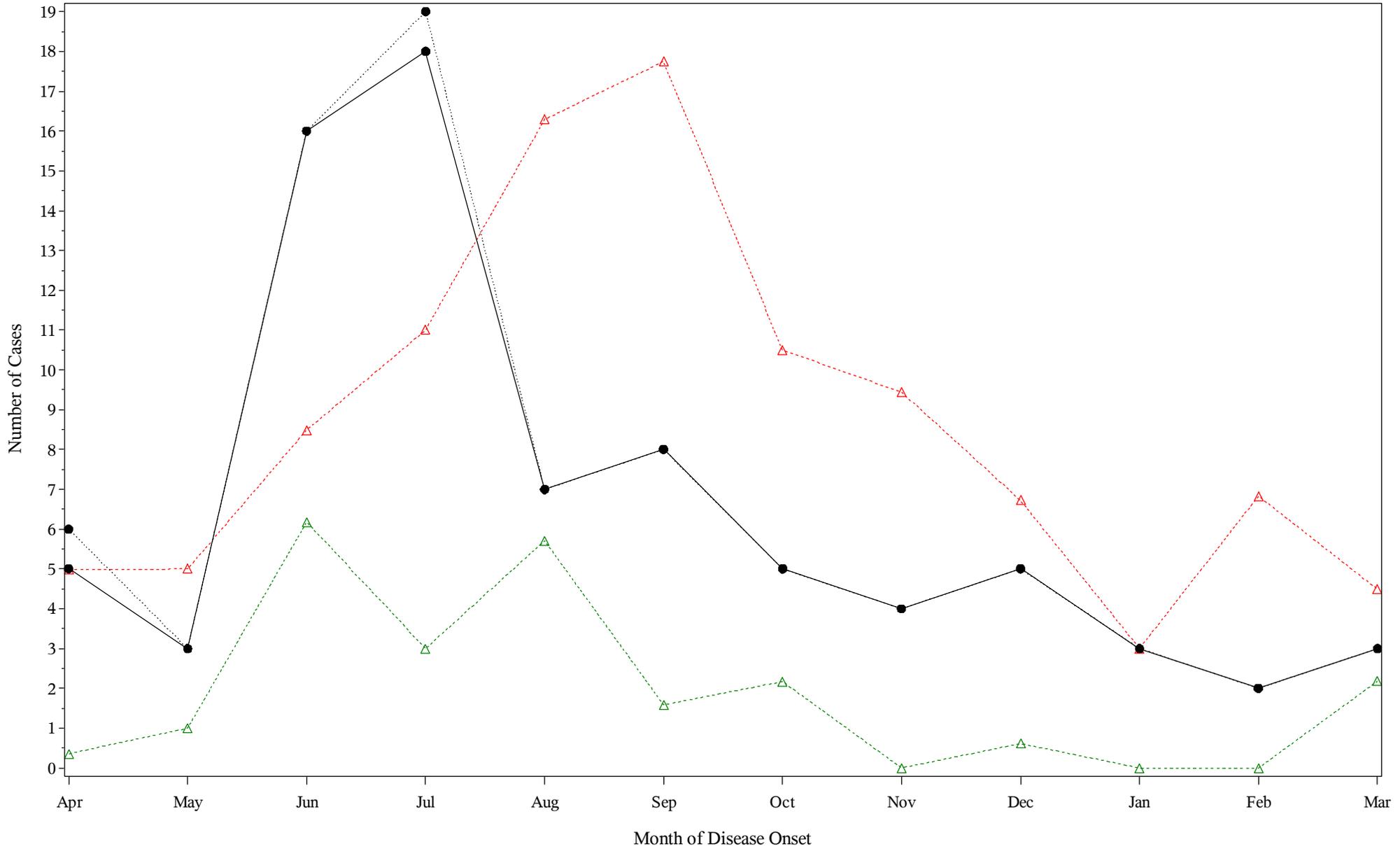
Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012

Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

East Central Legionellosis



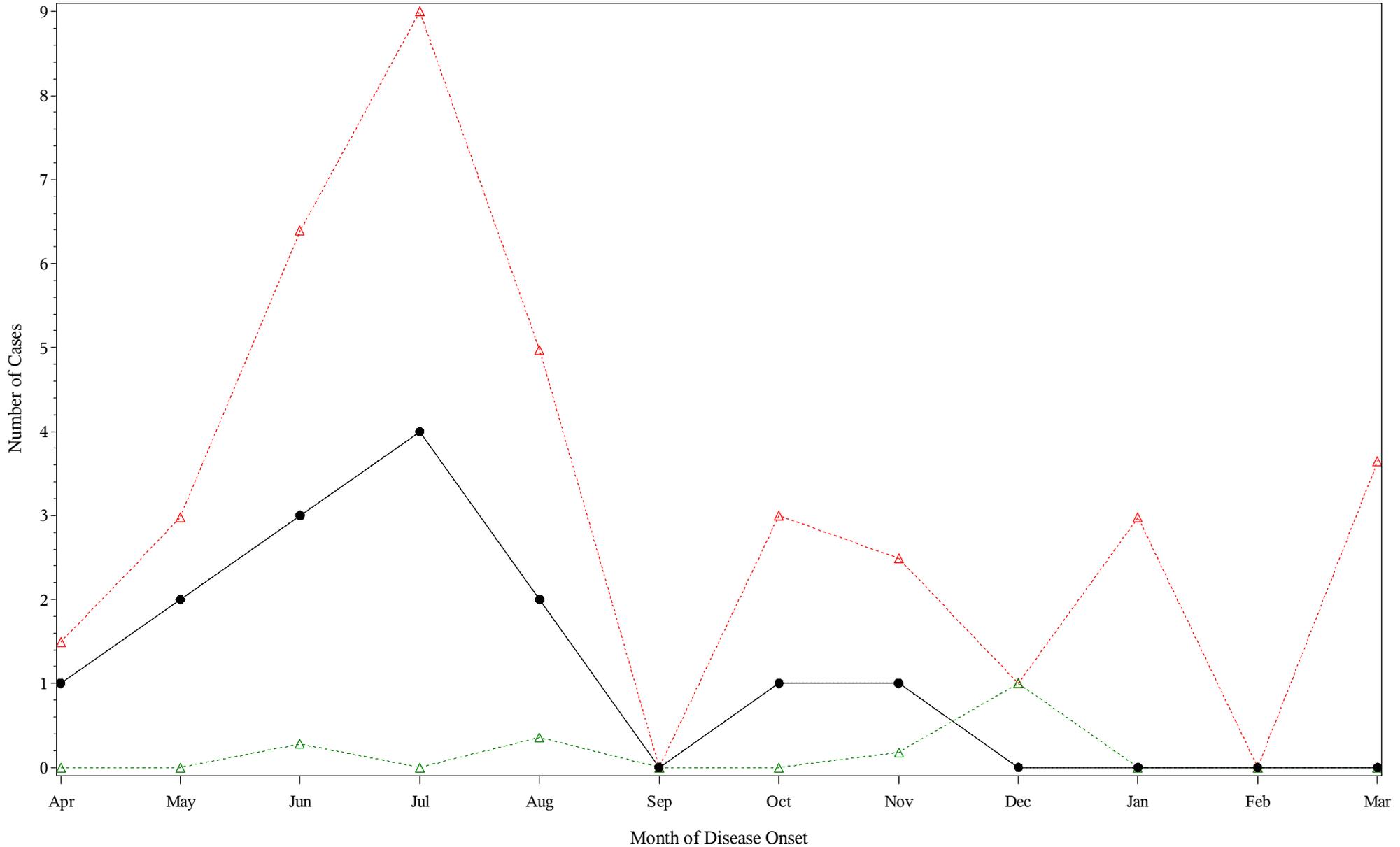
△ △ △ + 2 Standard Deviations     
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● ● ● 2013-2014 with Outbreak Cases     
 ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

East Central Lyme Disease



△ △ △ + 2 Standard Deviations     
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● ● ● 2013-2014 with Outbreak Cases     
 ● ● ● 2013-2014 without Outbreak Cases

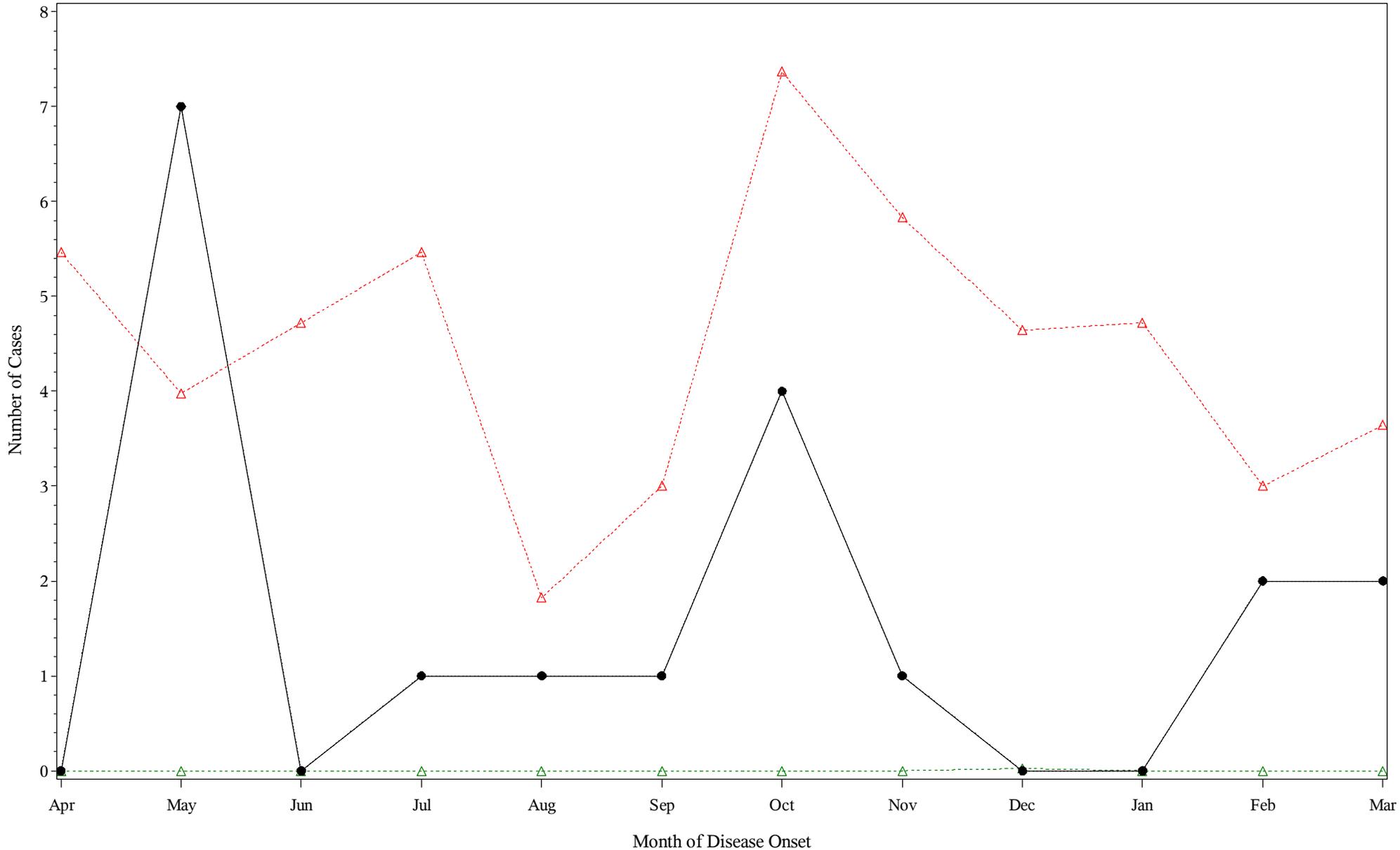
Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012

Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## East Central      Bacterial Meningitis

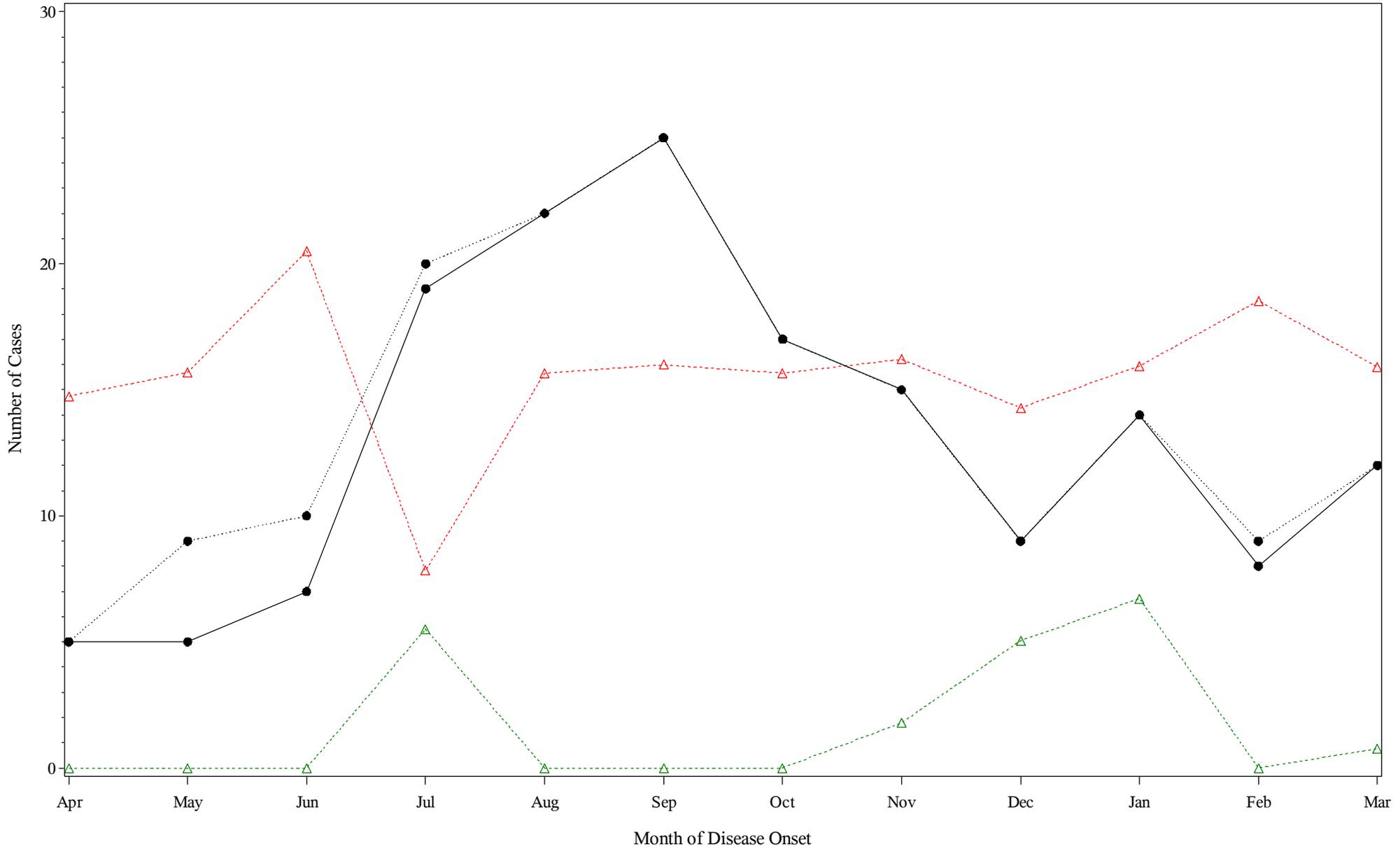


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● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

East Central Pertussis



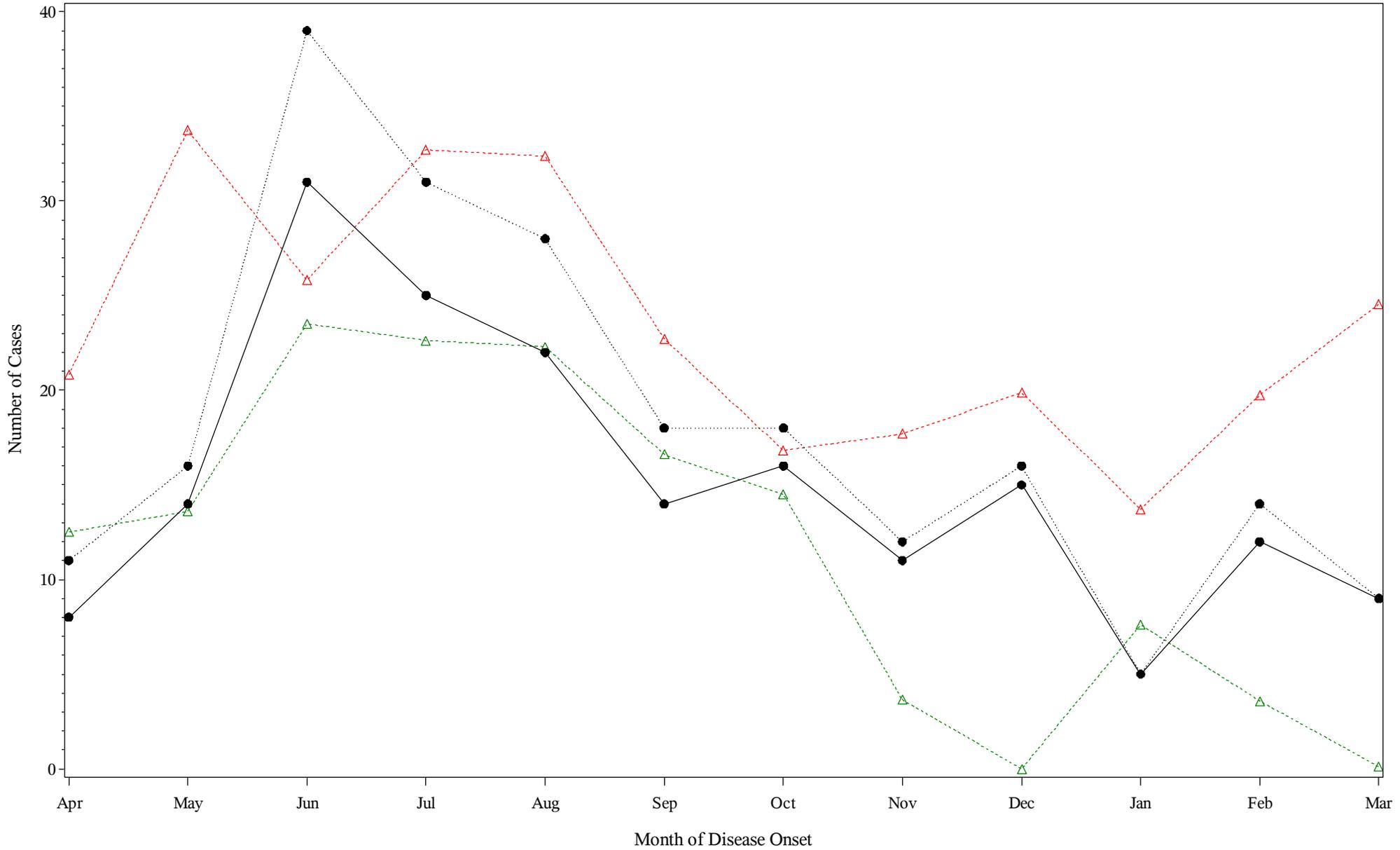
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## East Central Salmonellosis



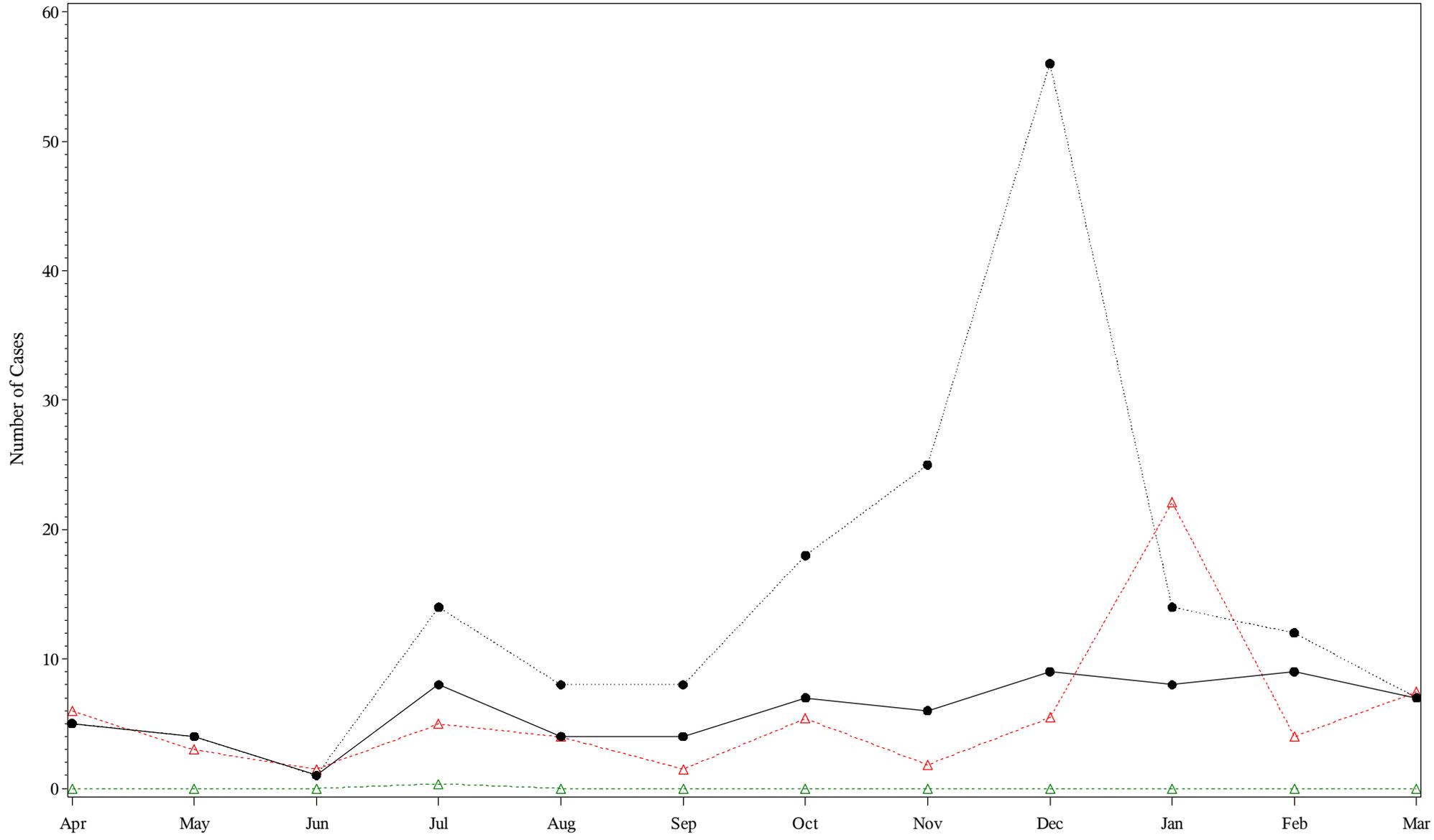
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## East Central      Shigellosis

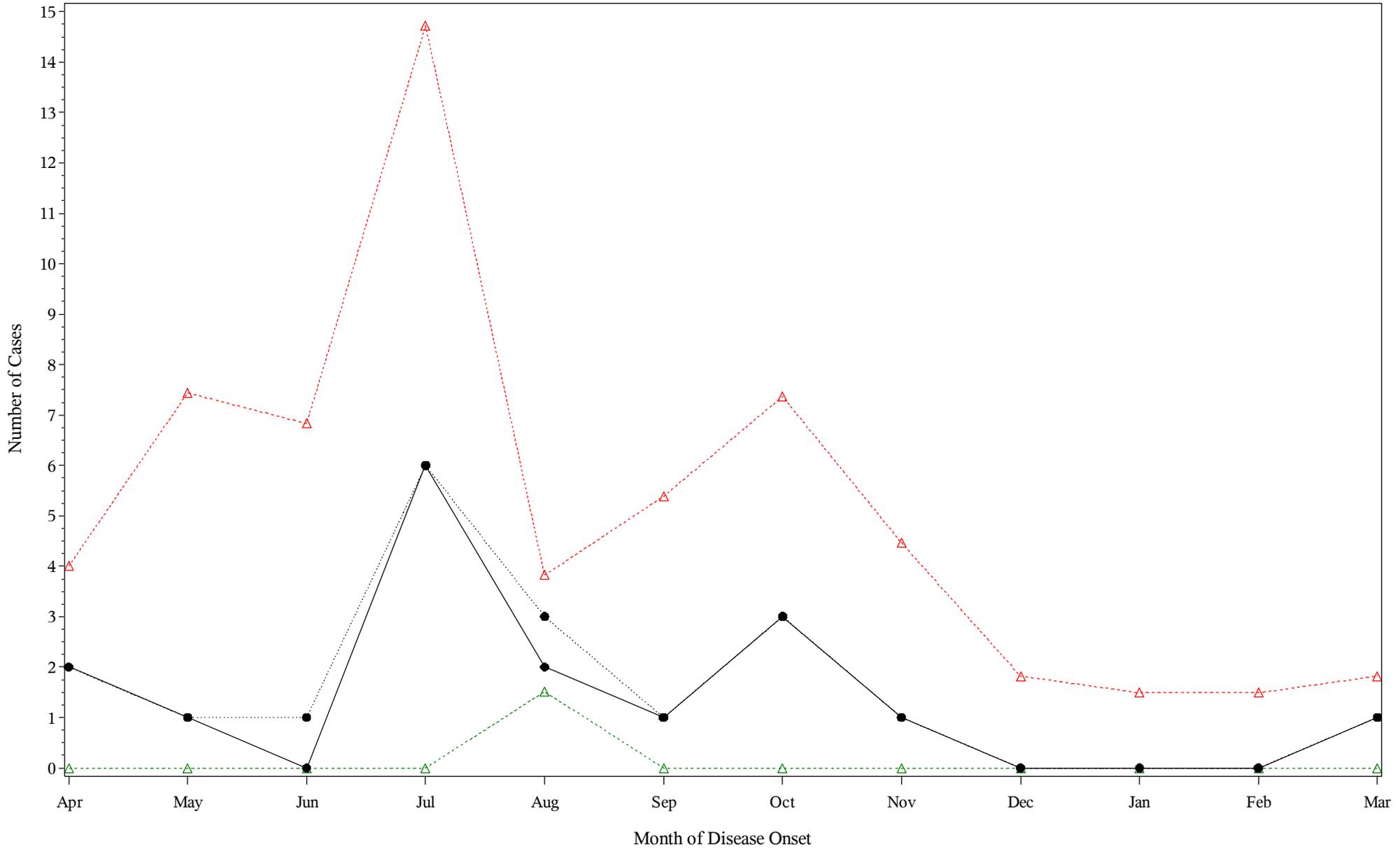


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

East Central Shiga Toxin-Producing Escherichia coli



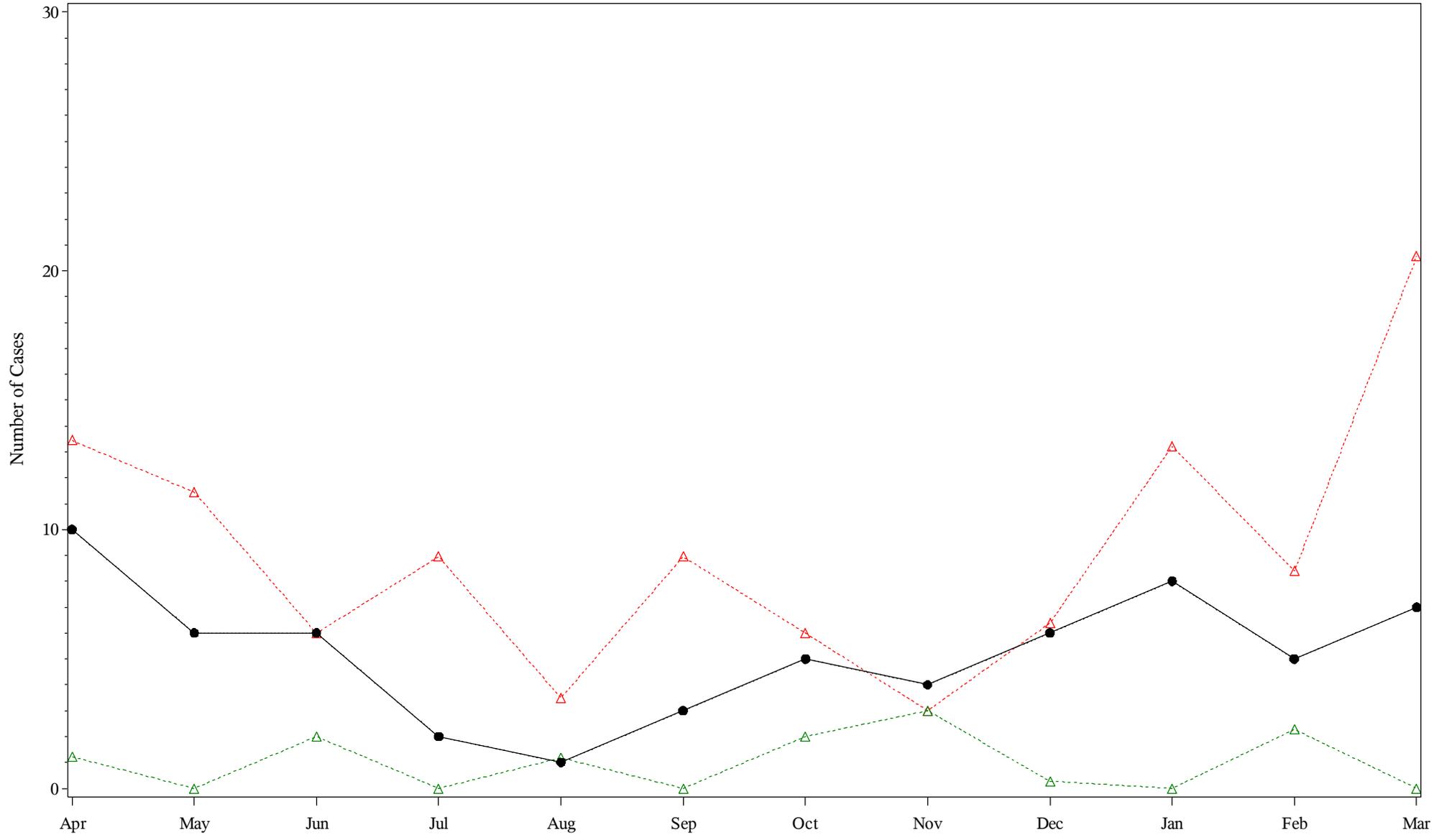
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## East Central      Streptococcal Disease, Group A, Invasive

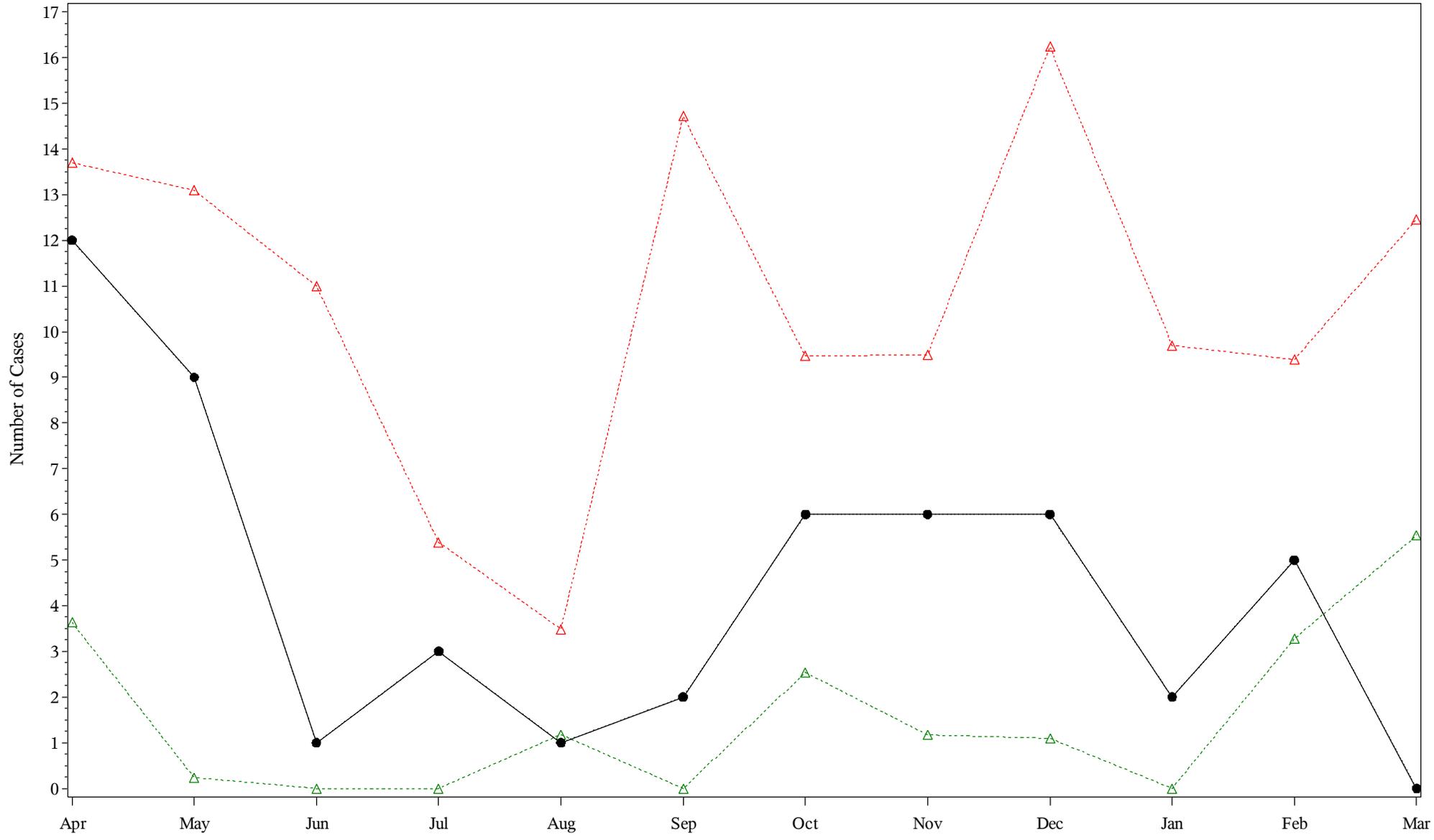


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## East Central      Streptococcus pneumoniae, Invasive, Drug Resistant/Intermediate

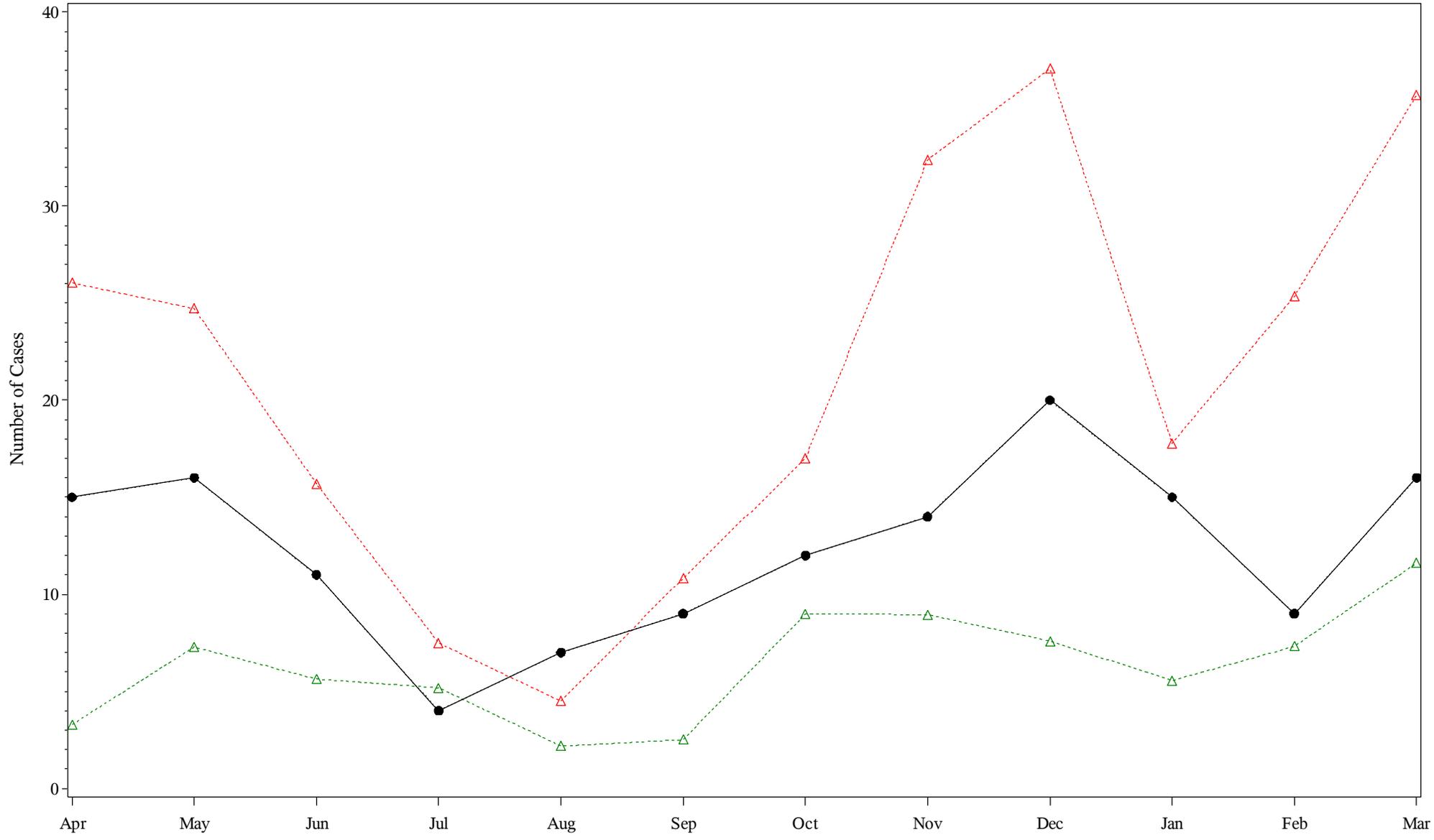


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## East Central      Streptococcus pneumoniae, Invasive, Drug Susceptible/Unknown

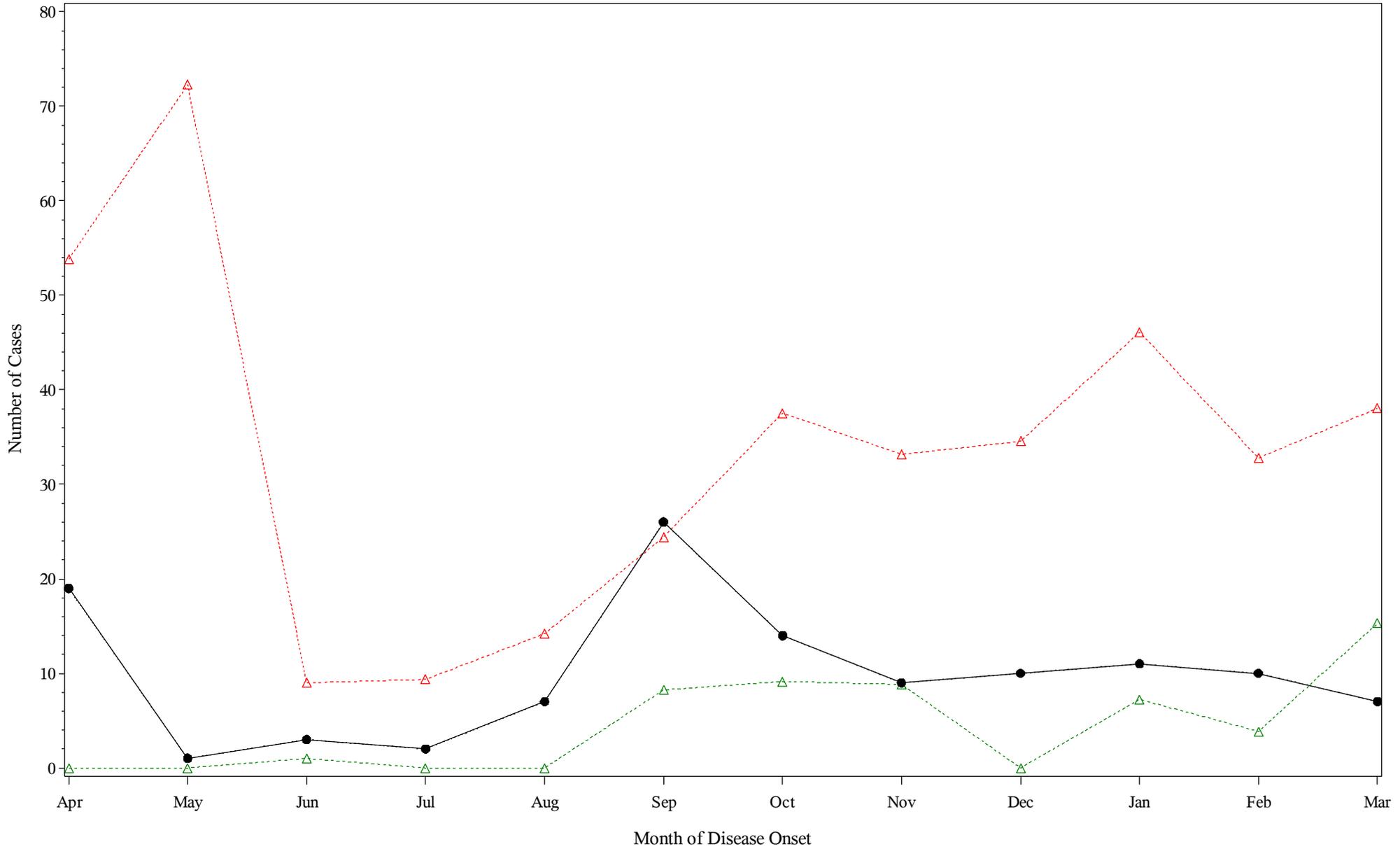


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## East Central      Varicella



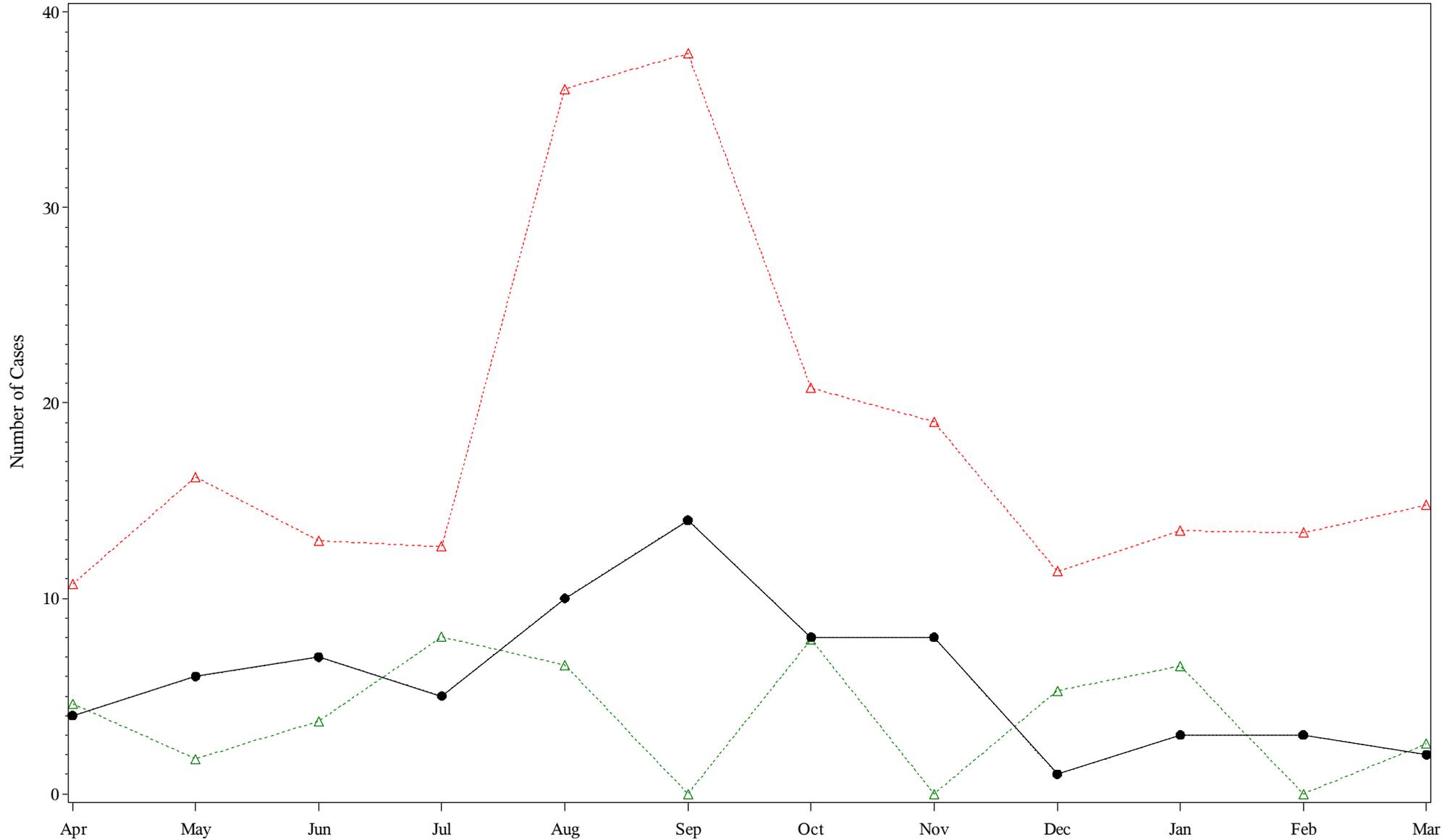
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● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northeast Aseptic Meningitis

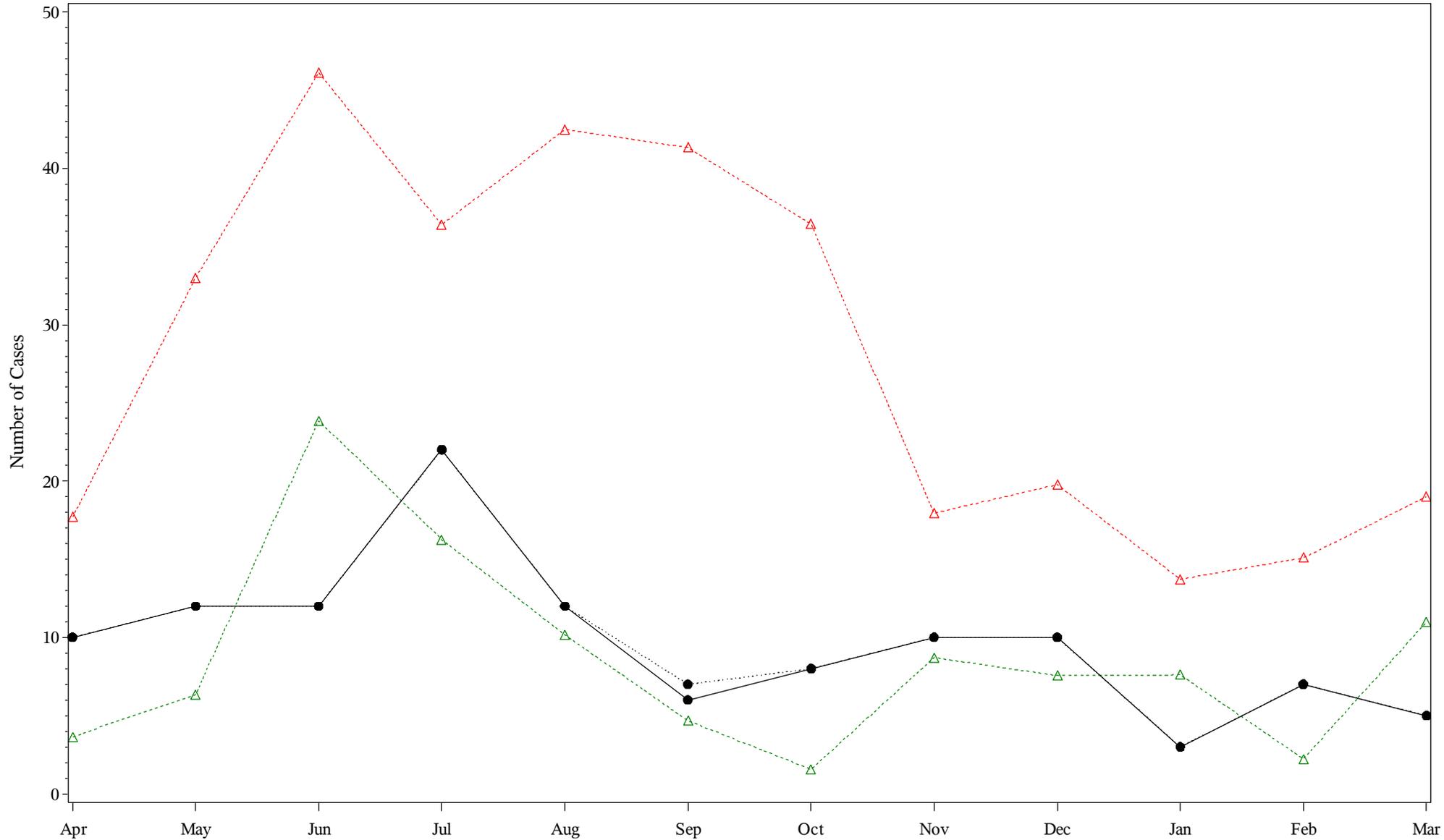


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northeast      Campylobacteriosis

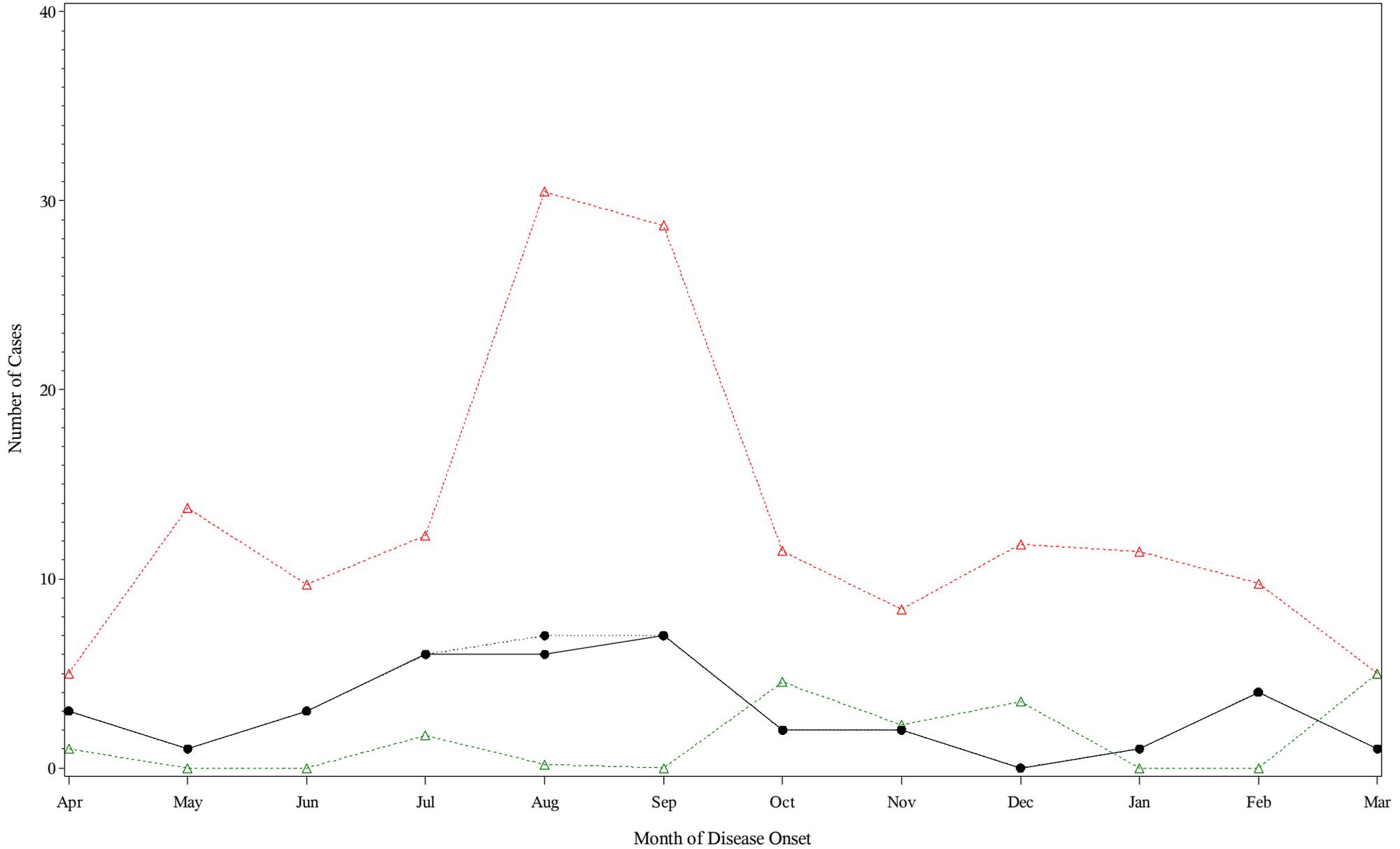


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northeast Cryptosporidiosis



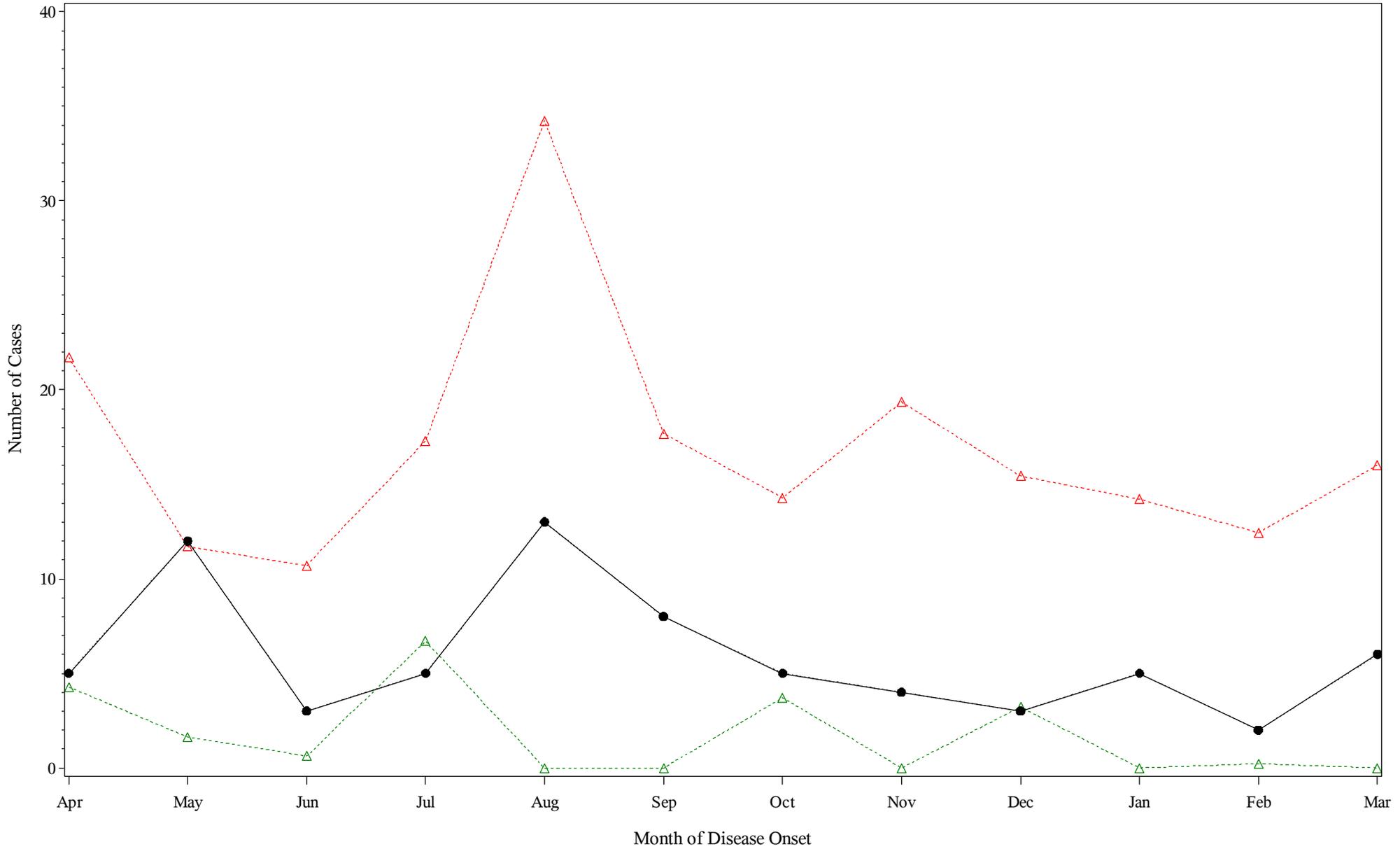
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northeast      Giardiasis



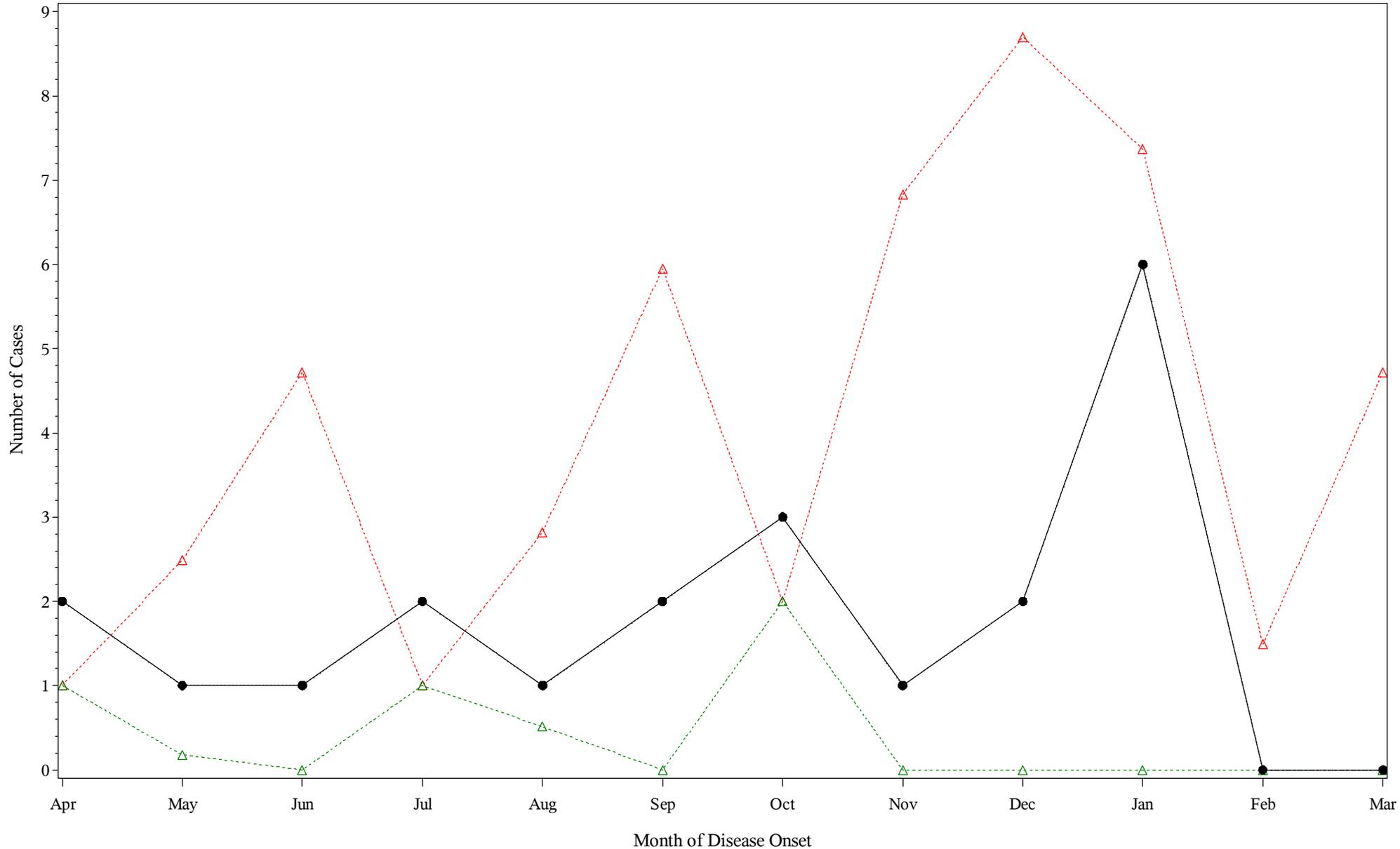
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northeast Haemophilus influenzae, Invasive

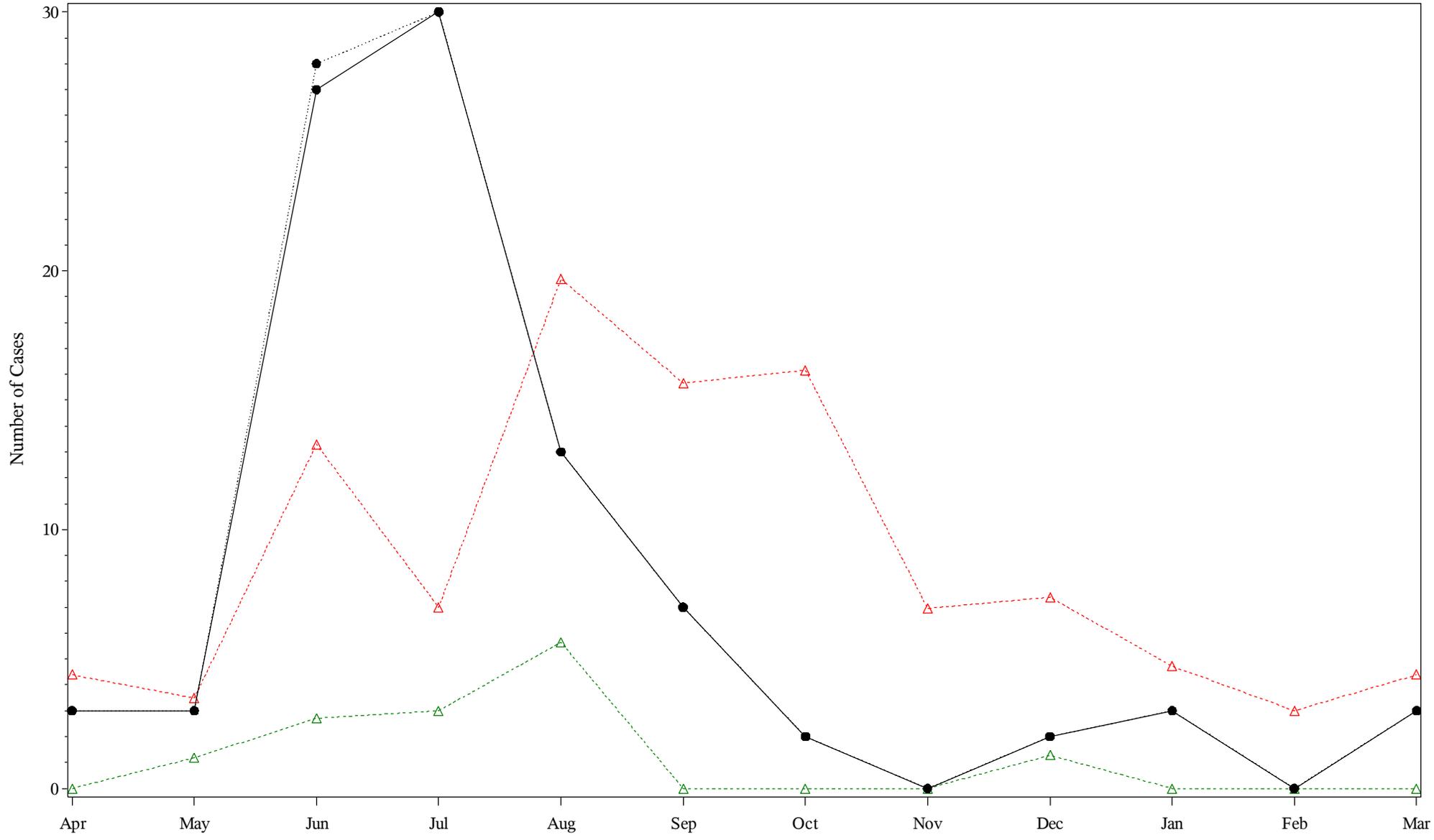


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northeast Legionellosis

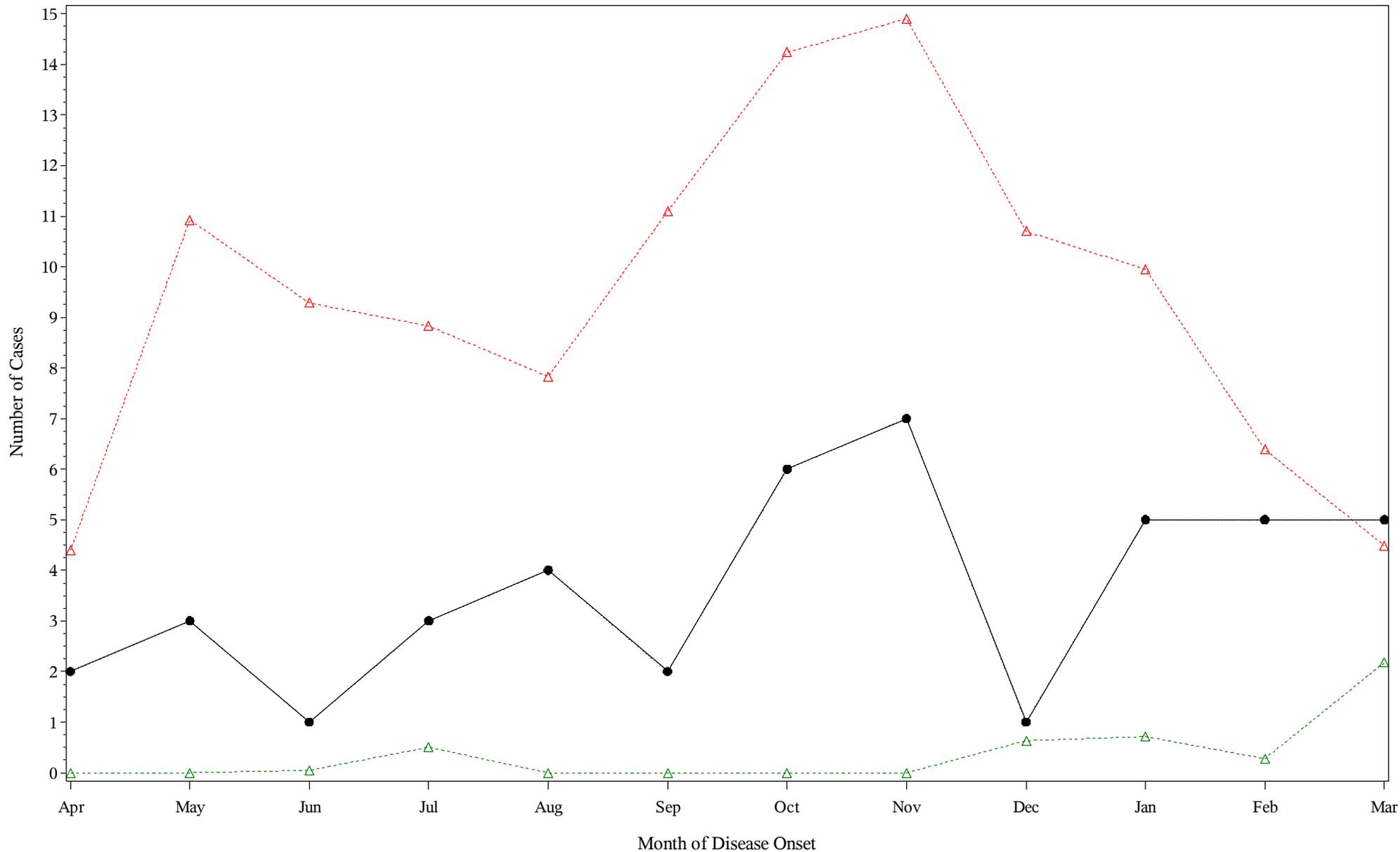


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northeast Pertussis



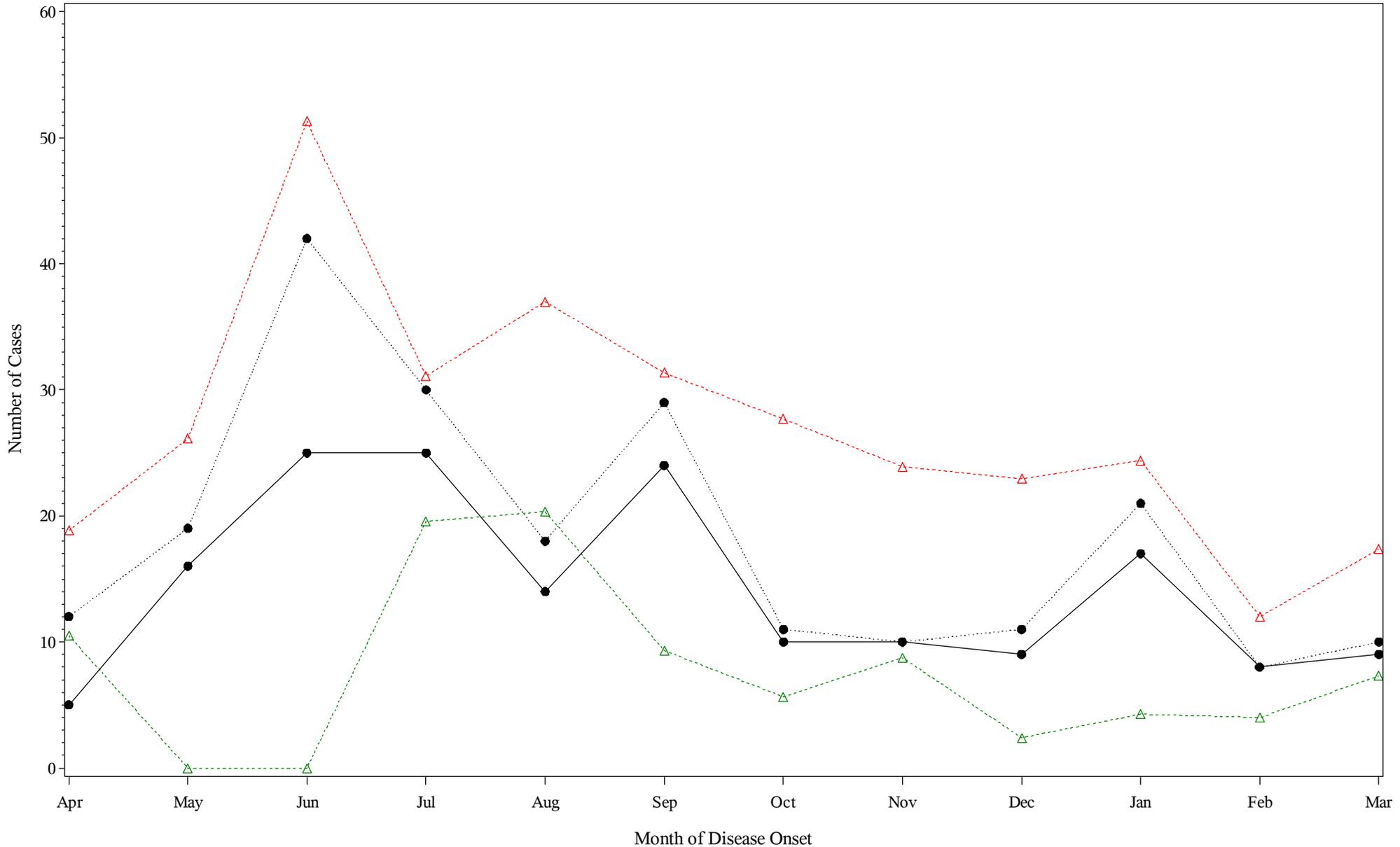
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northeast Salmonellosis

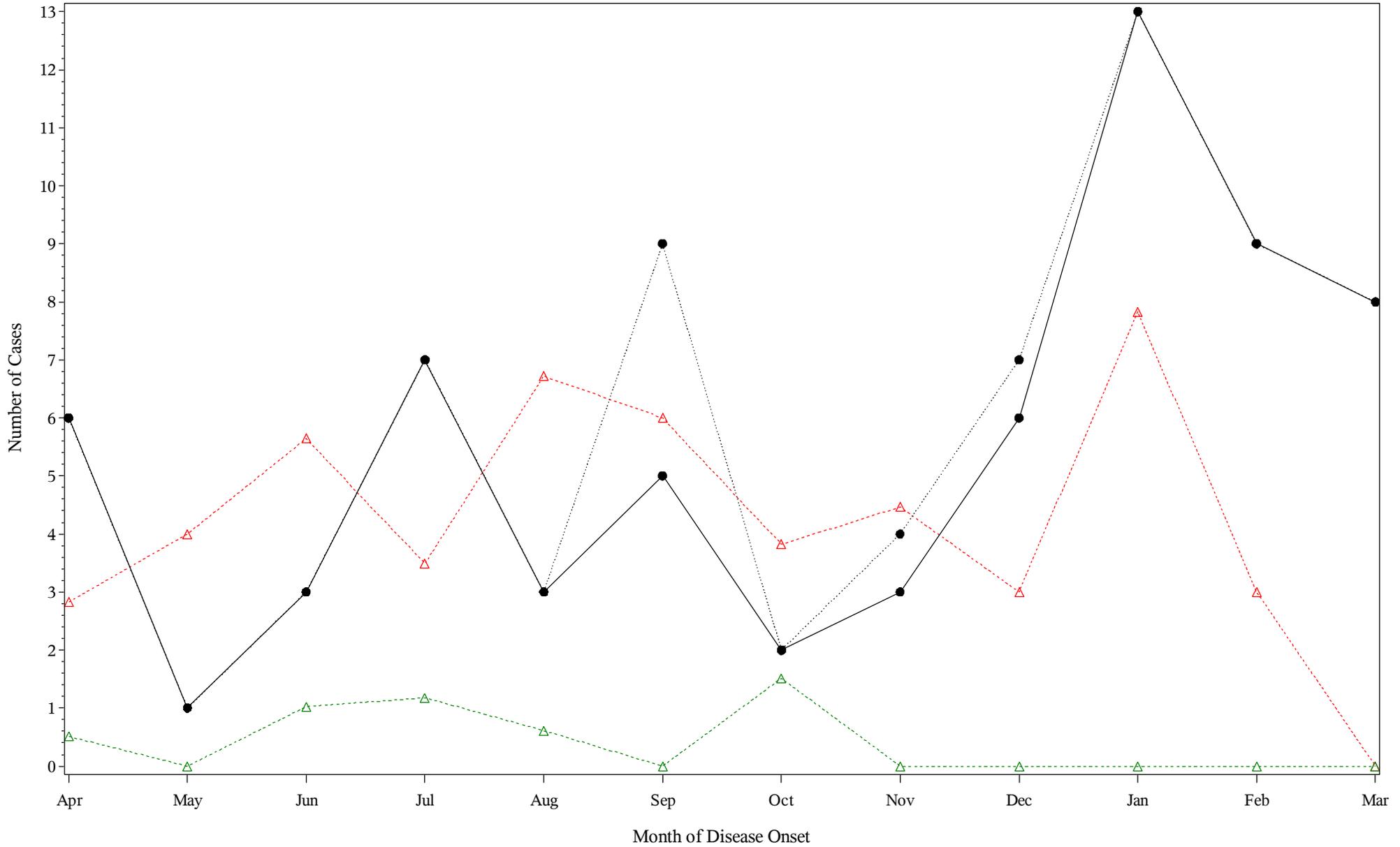


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northeast Shigellosis



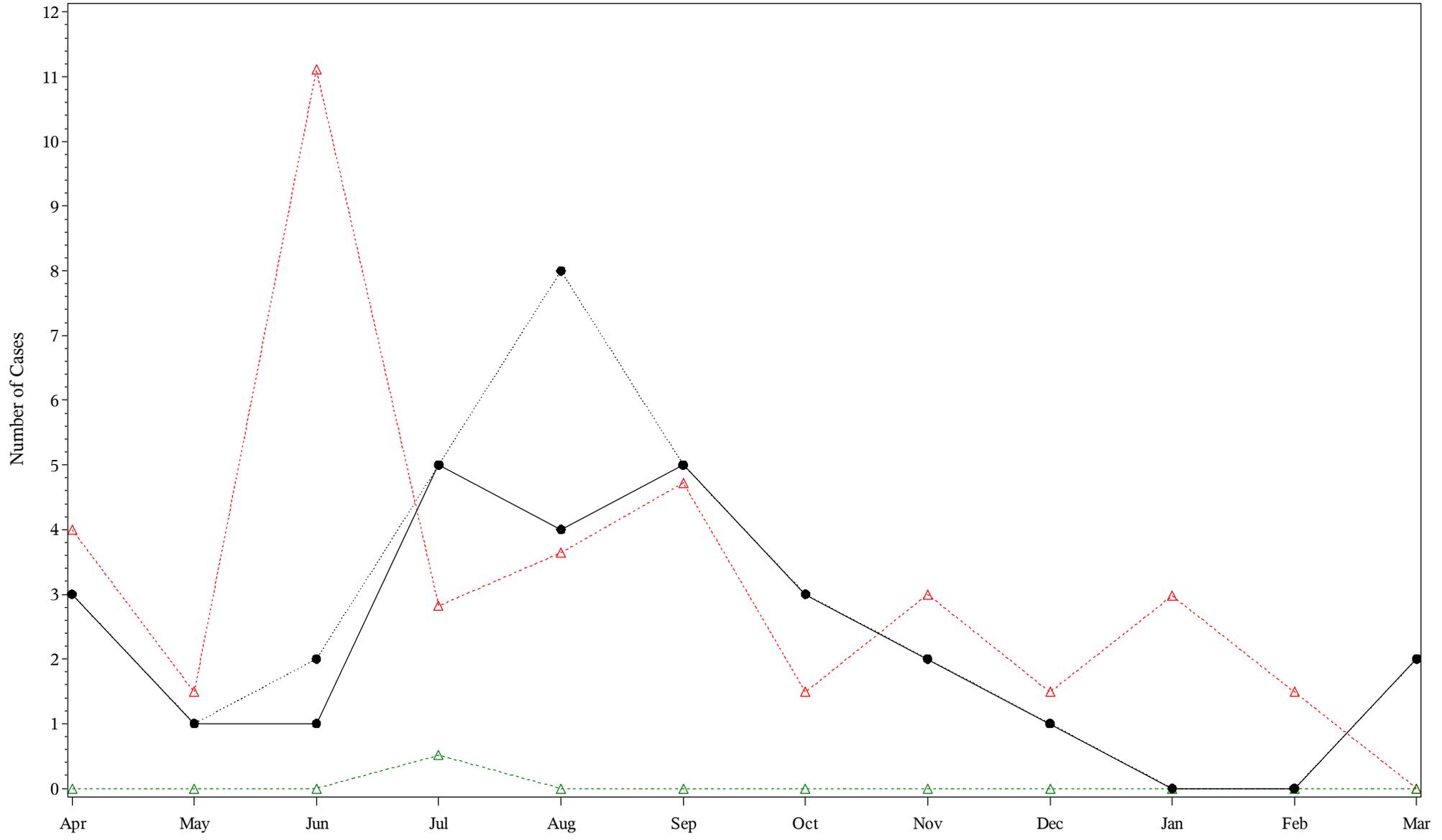
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northeast Shiga Toxin-Producing Escherichia coli

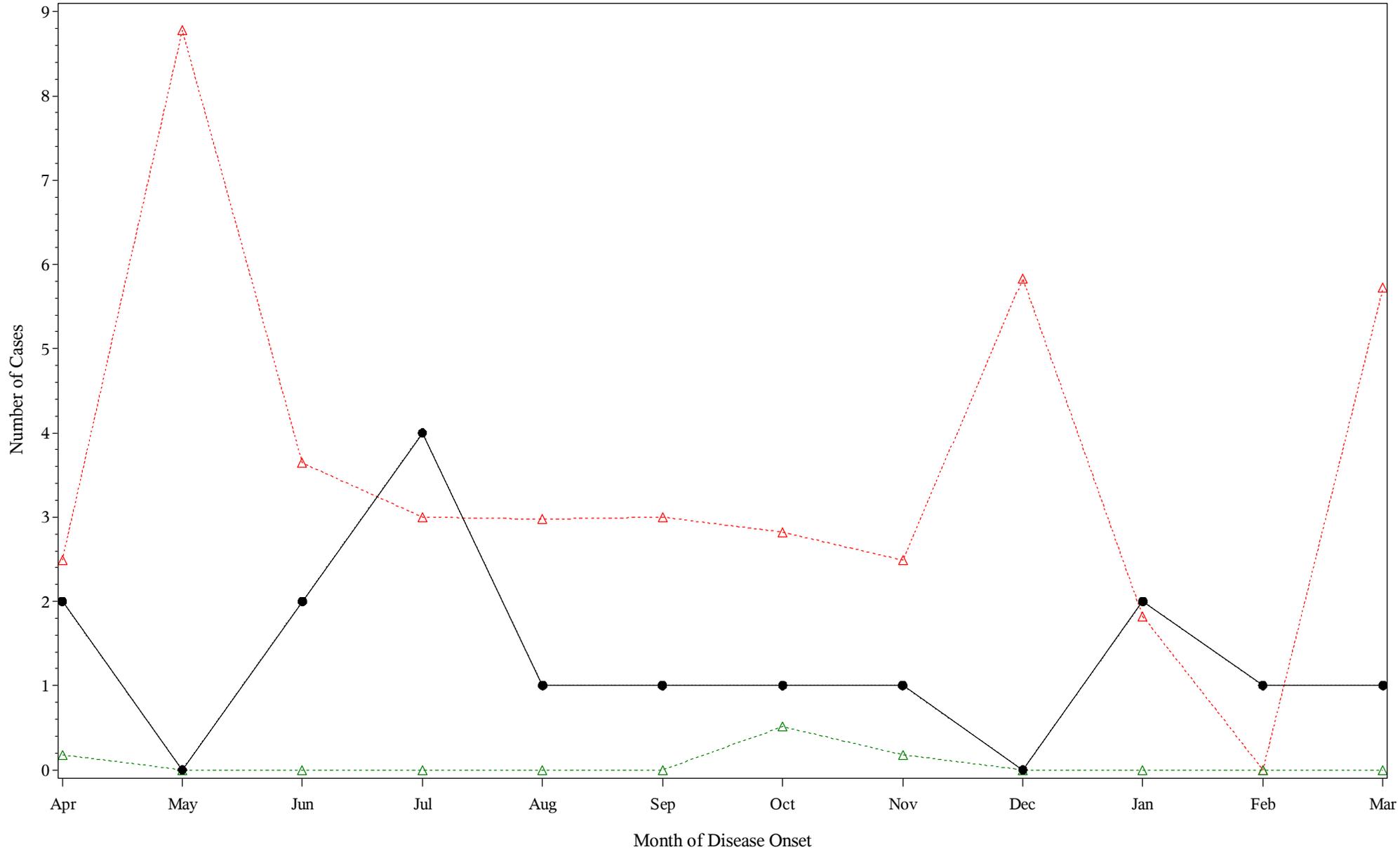


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northeast      Streptococcal Disease, Group B, in Newborn

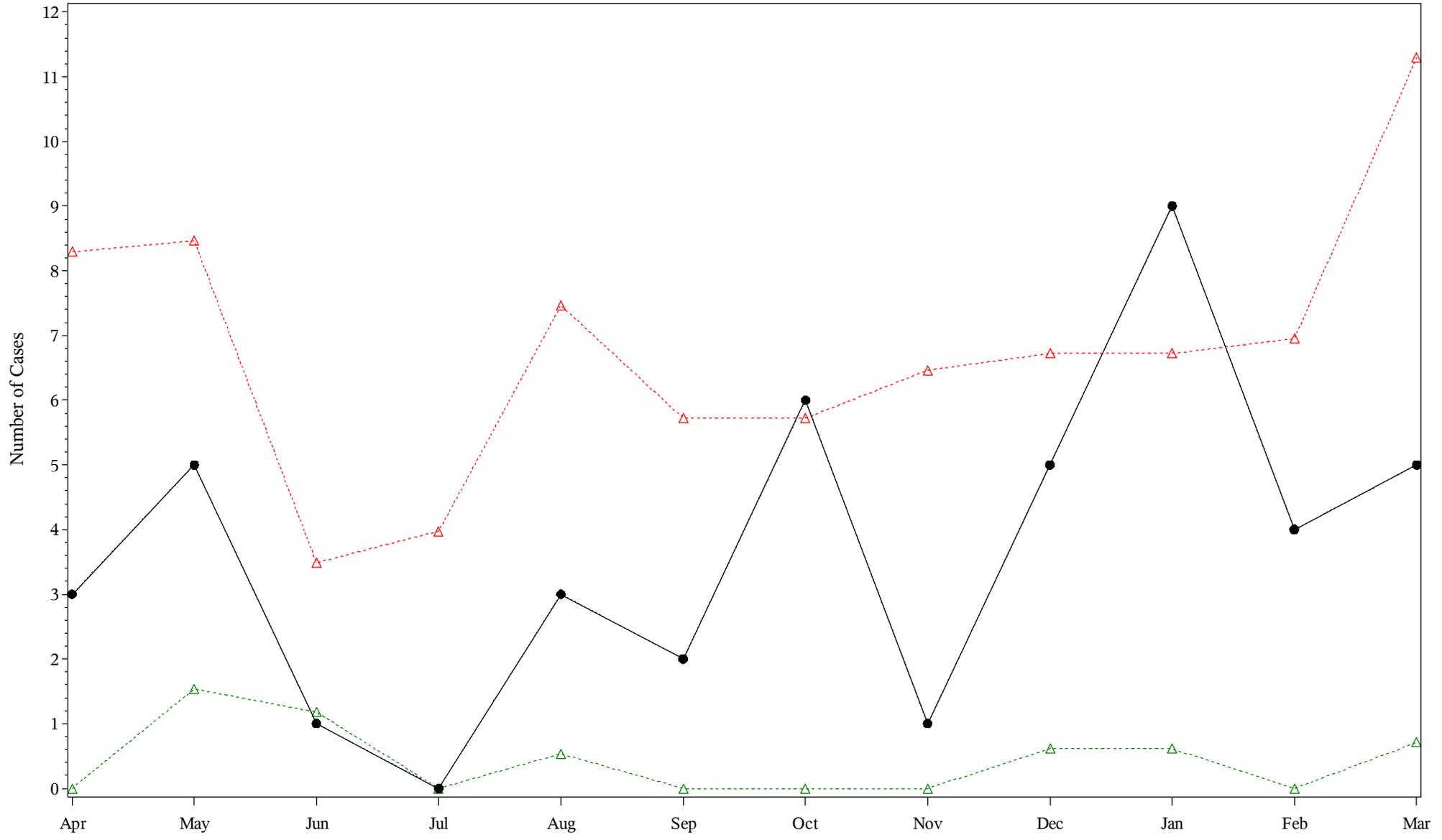


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northeast Streptococcal Disease, Group A, Invasive

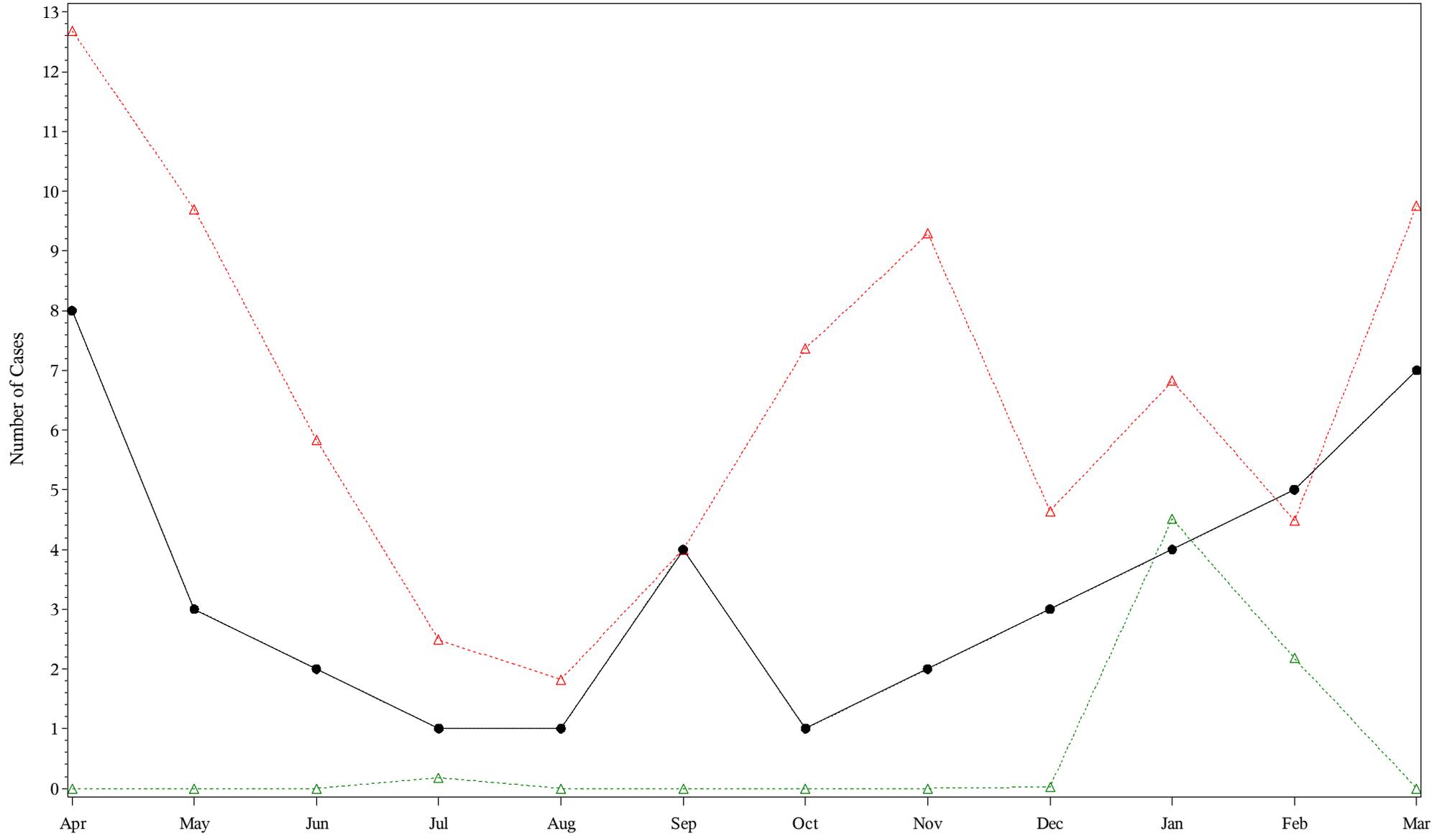


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northeast Streptococcus pneumoniae, Invasive, Drug Resistant/Intermediate

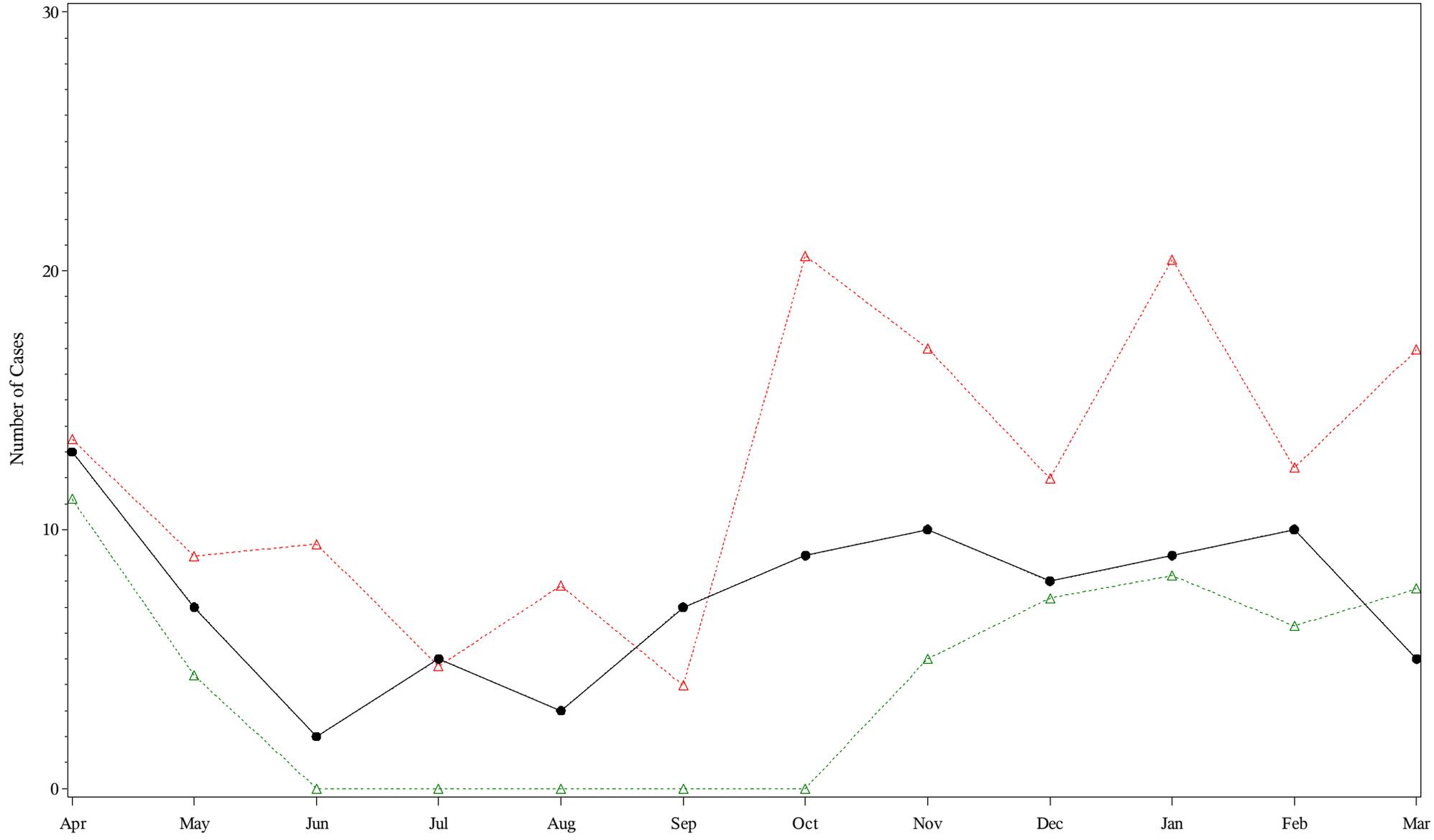


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
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 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northeast      Streptococcus pneumoniae, Invasive, Drug Susceptible/Unknown

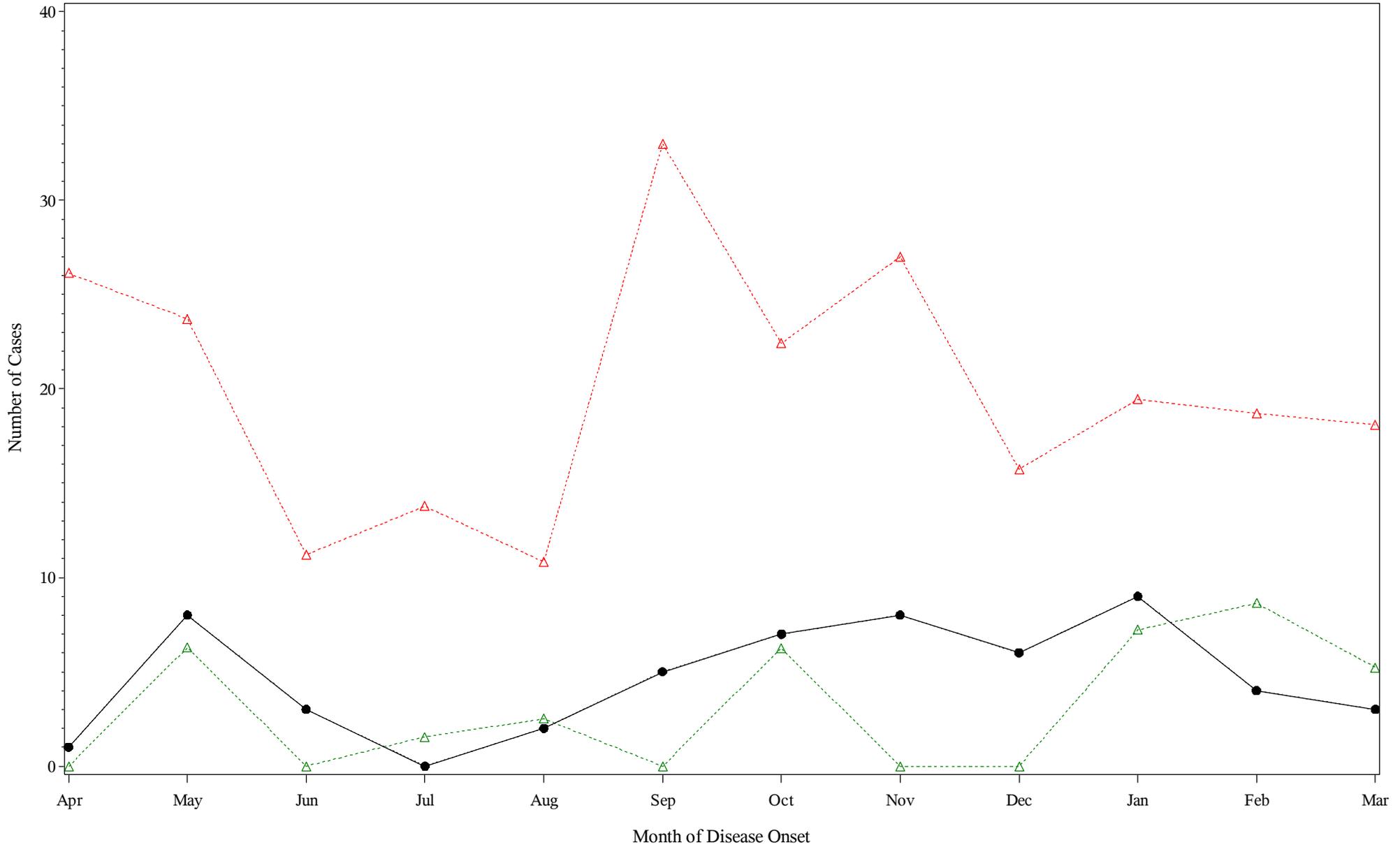


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northeast Varicella



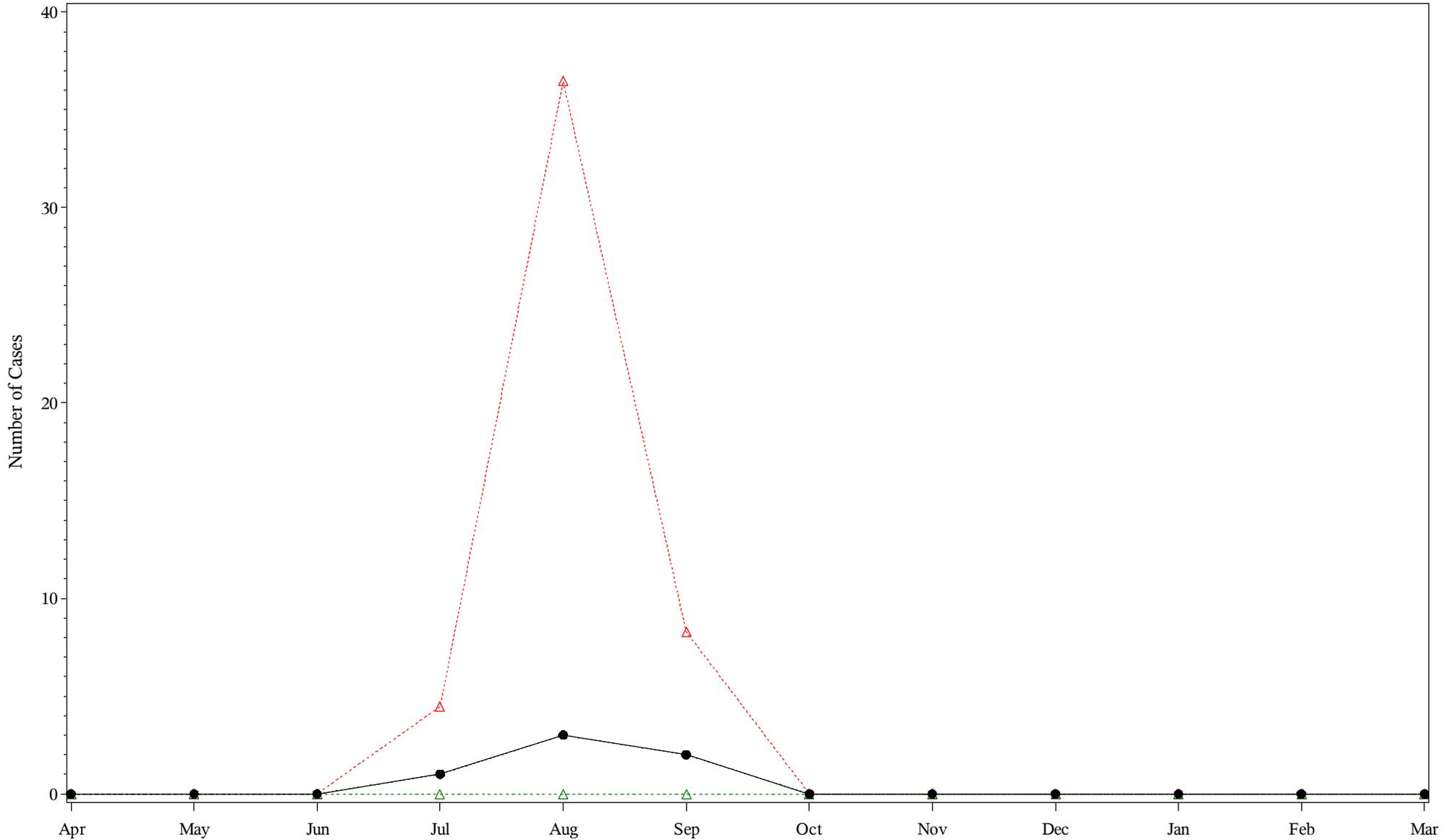
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northeast West Nile Virus Disease



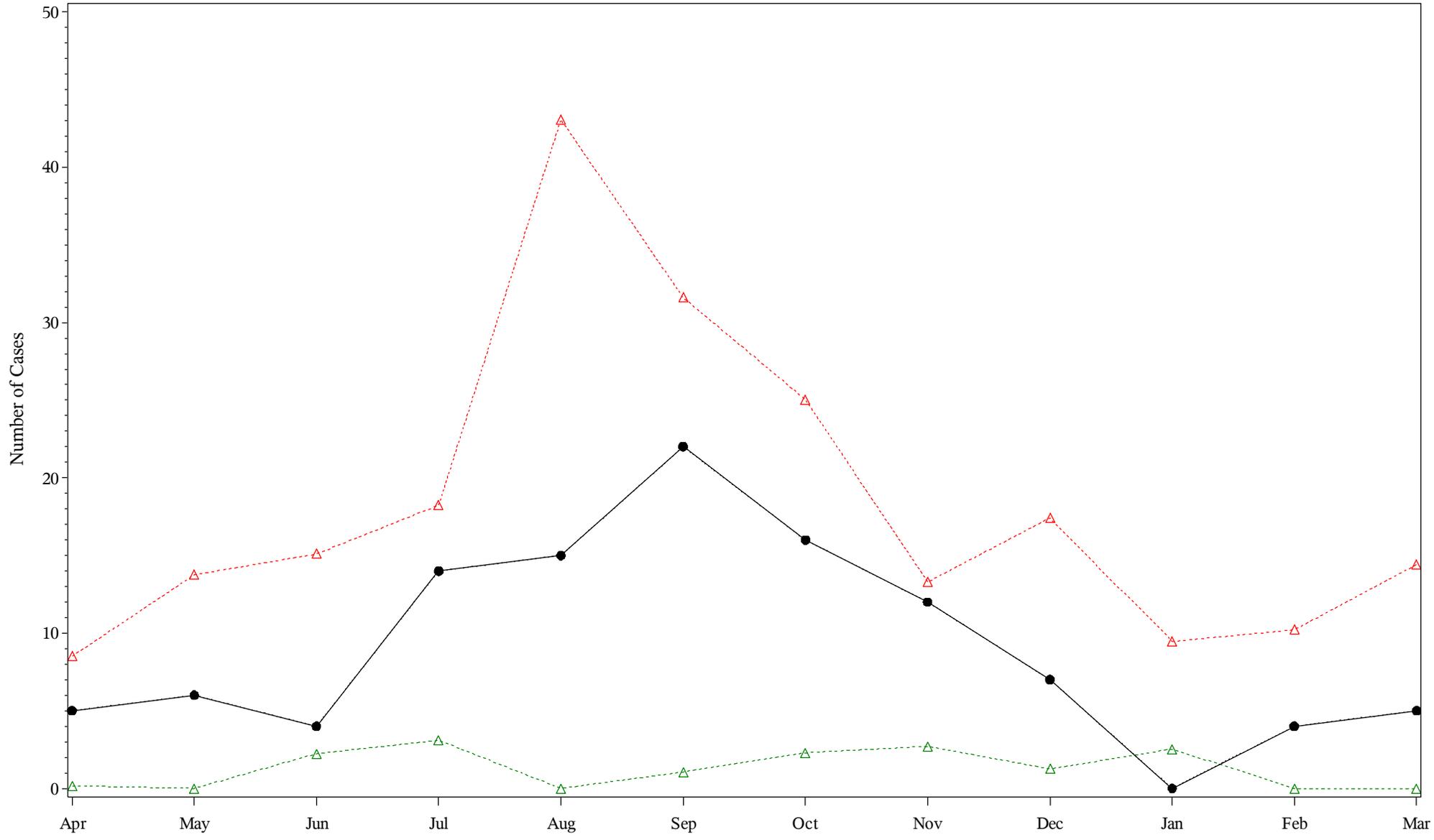
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northwest Aseptic Meningitis

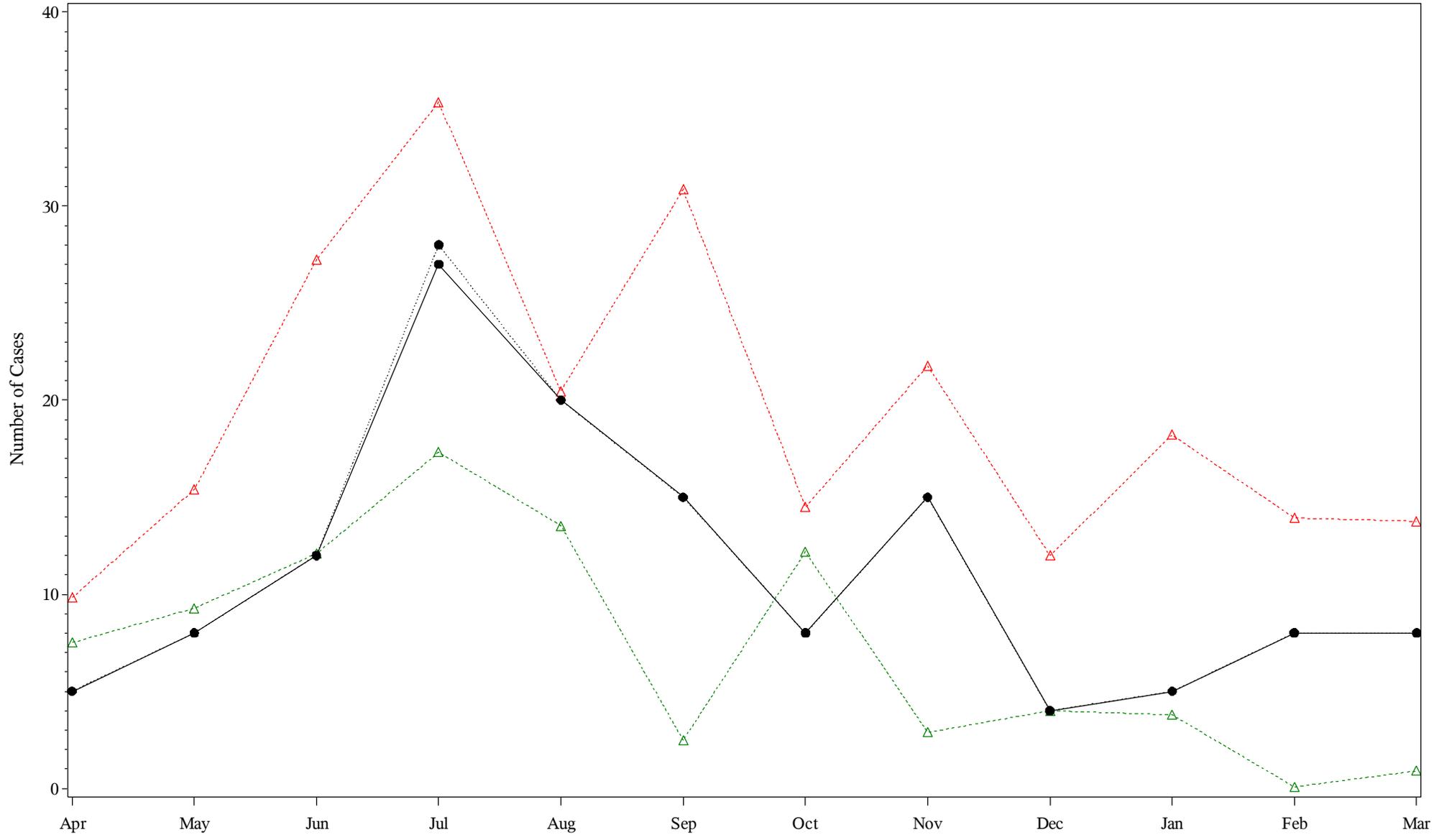


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northwest      Campylobacteriosis

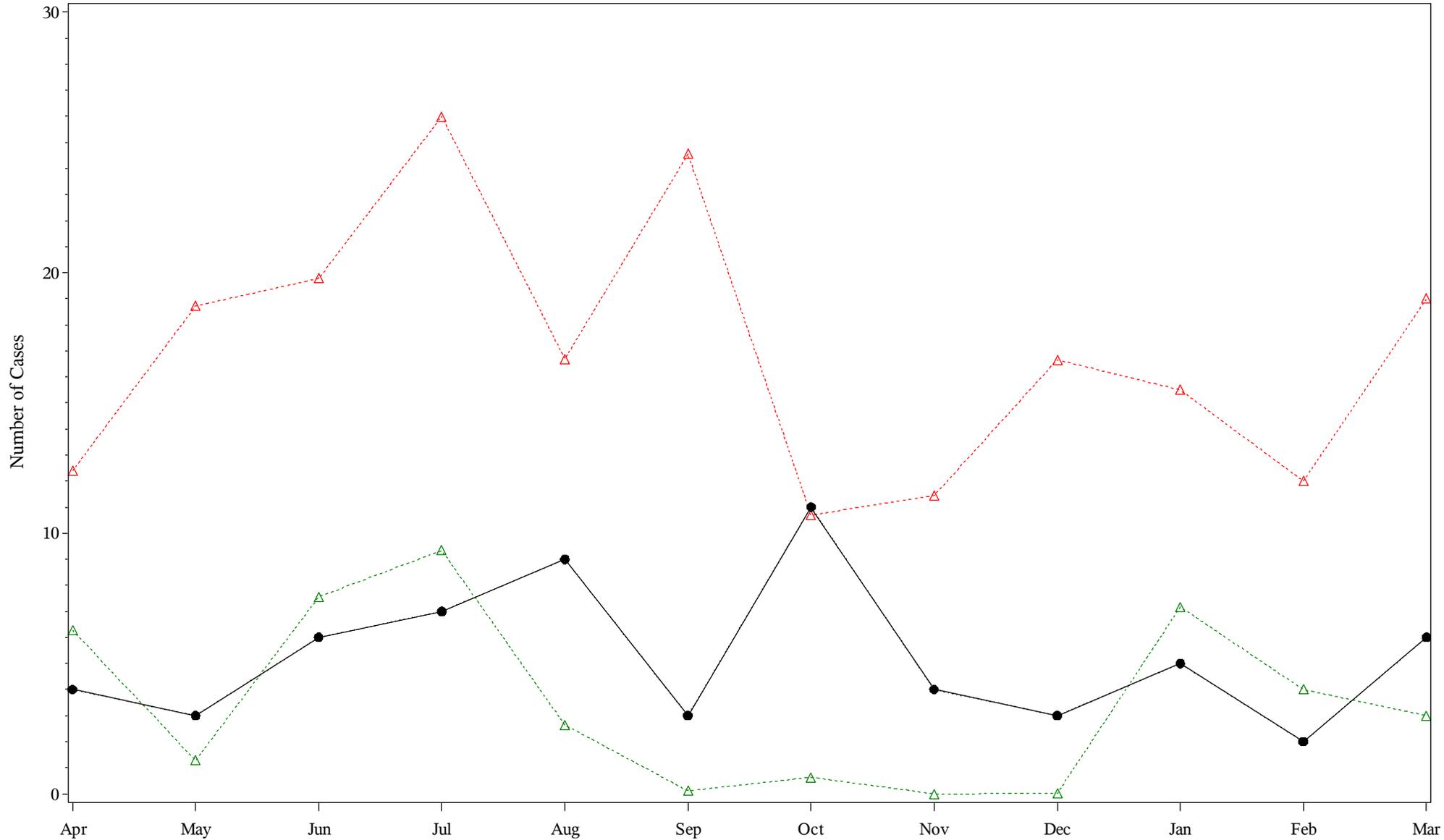


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● ● ● 2013-2014 with Outbreak Cases     
 ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northwest      Cryptosporidiosis

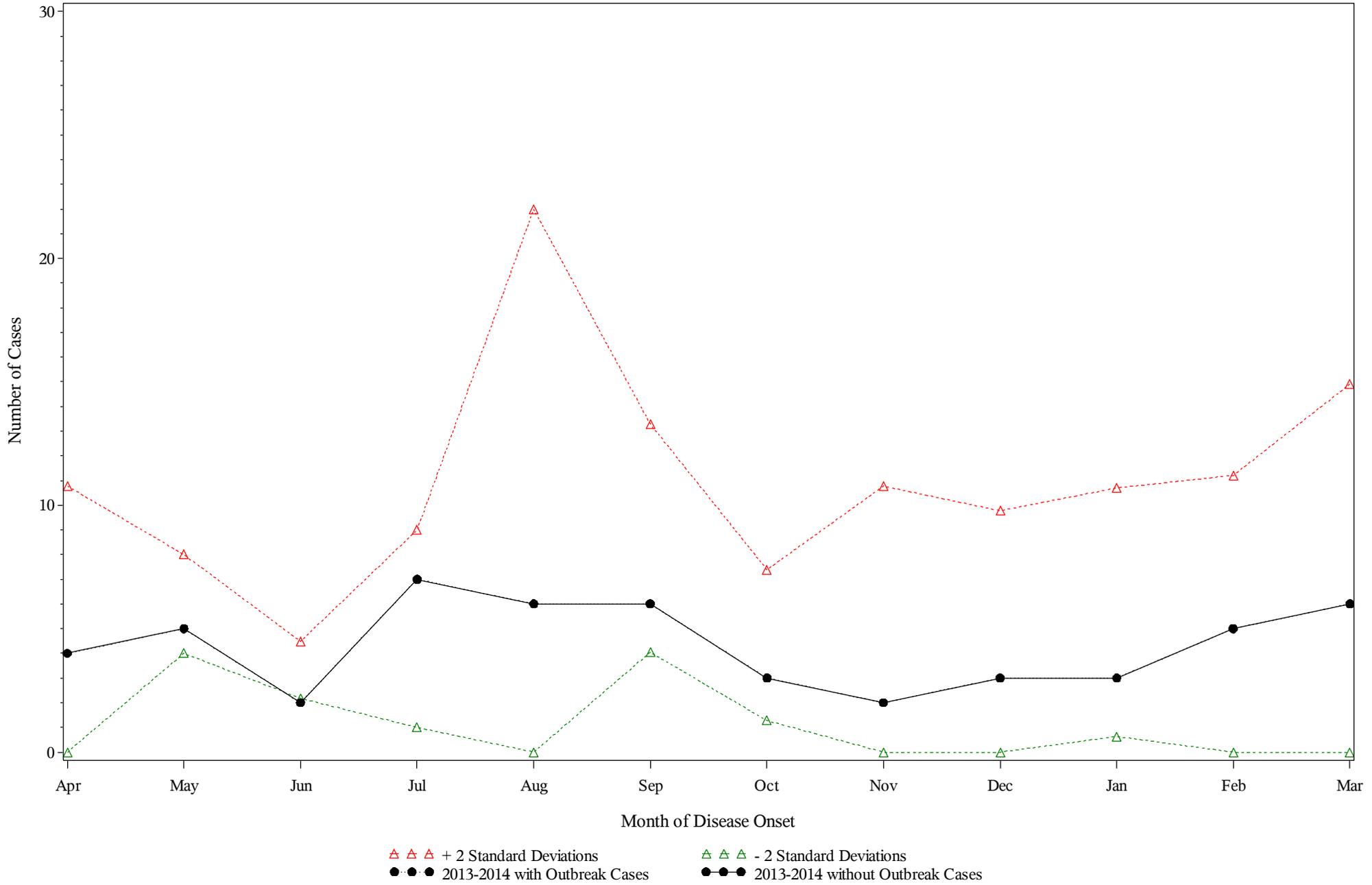


△ △ △ + 2 Standard Deviations      △ △ △ - 2 Standard Deviations  
● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northwest      Giardiasis



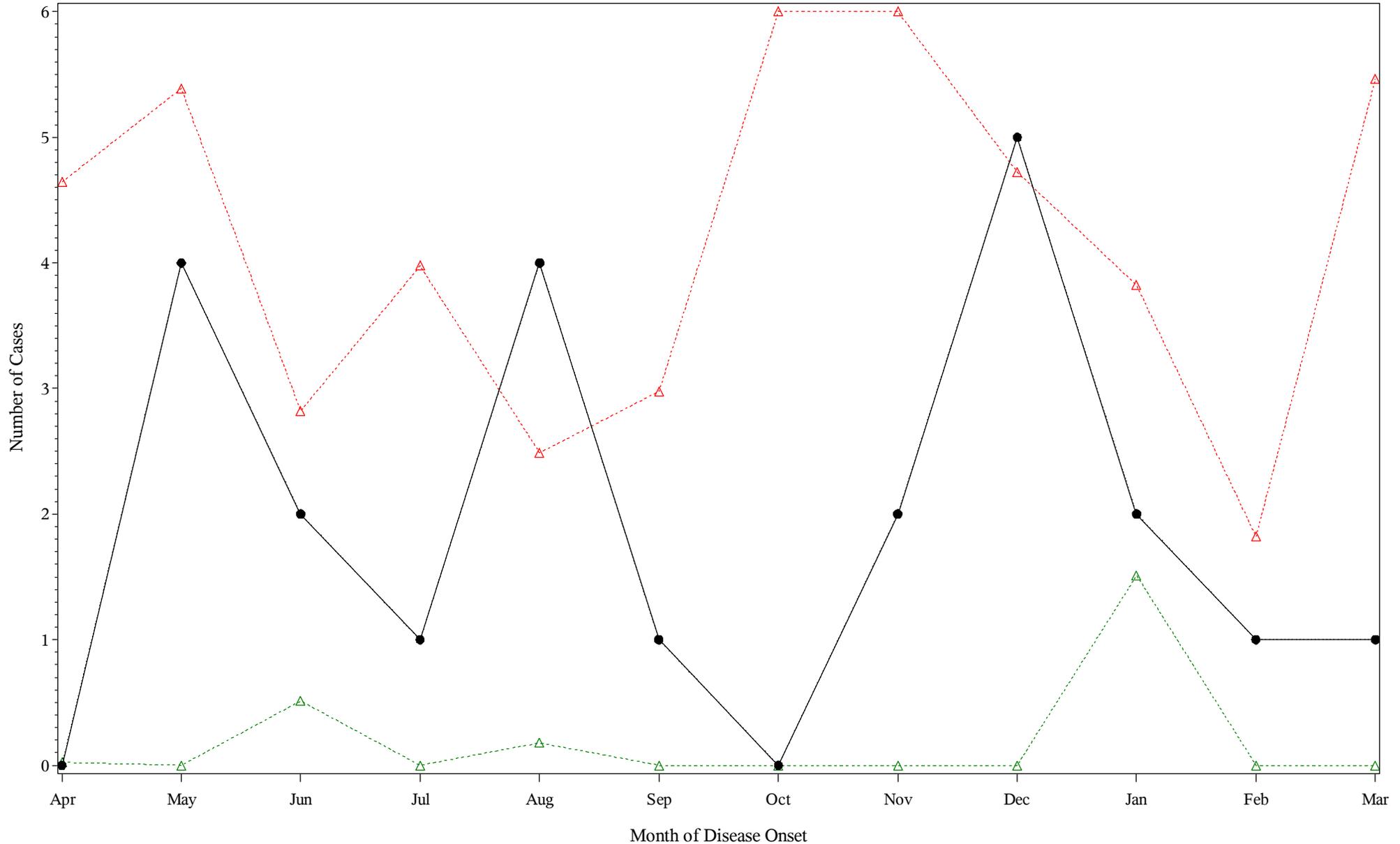
Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012

Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northwest *Haemophilus influenzae*, Invasive

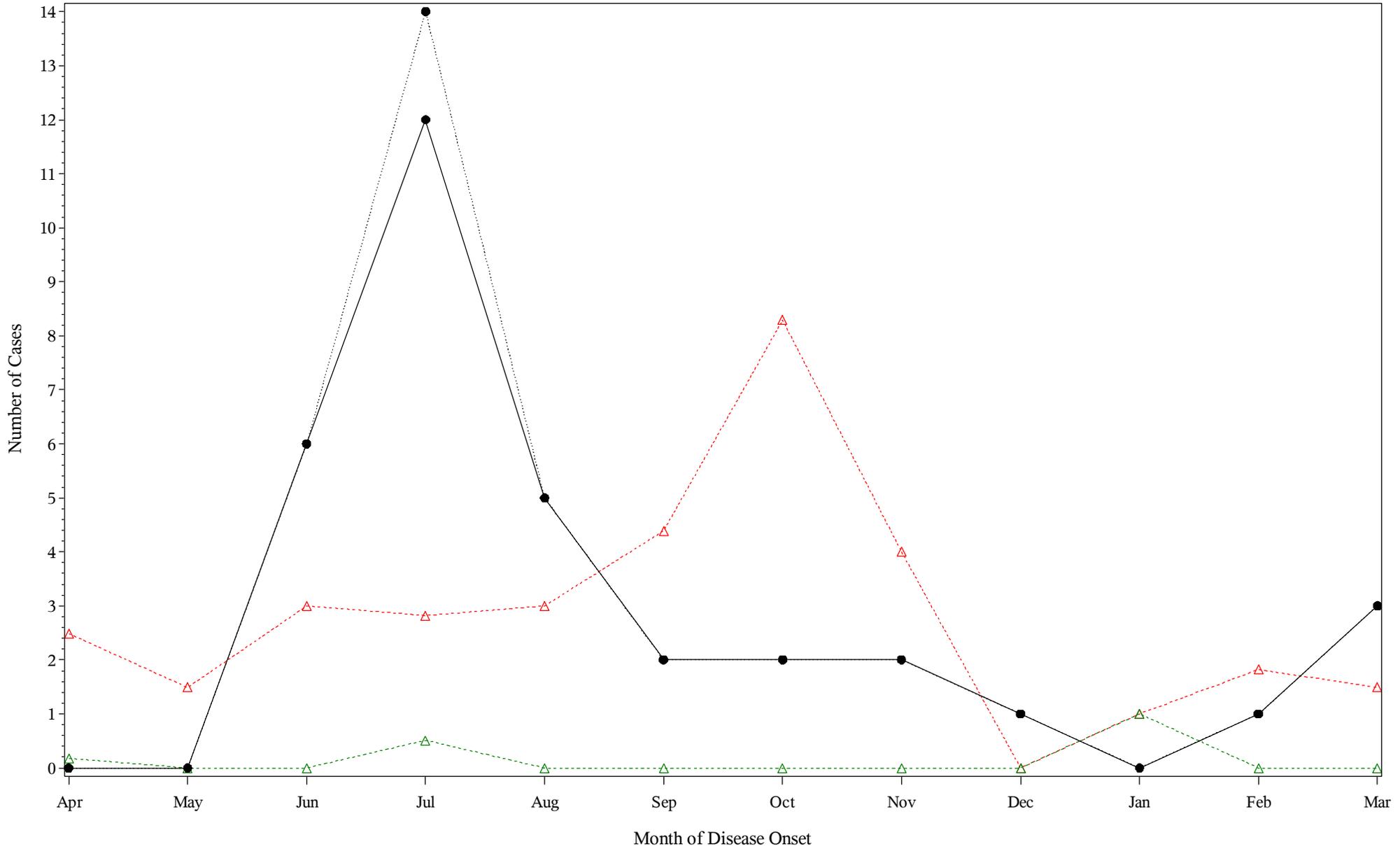


△ △ △ + 2 Standard Deviations     
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● ● ● 2013-2014 with Outbreak Cases     
 ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northwest Legionellosis



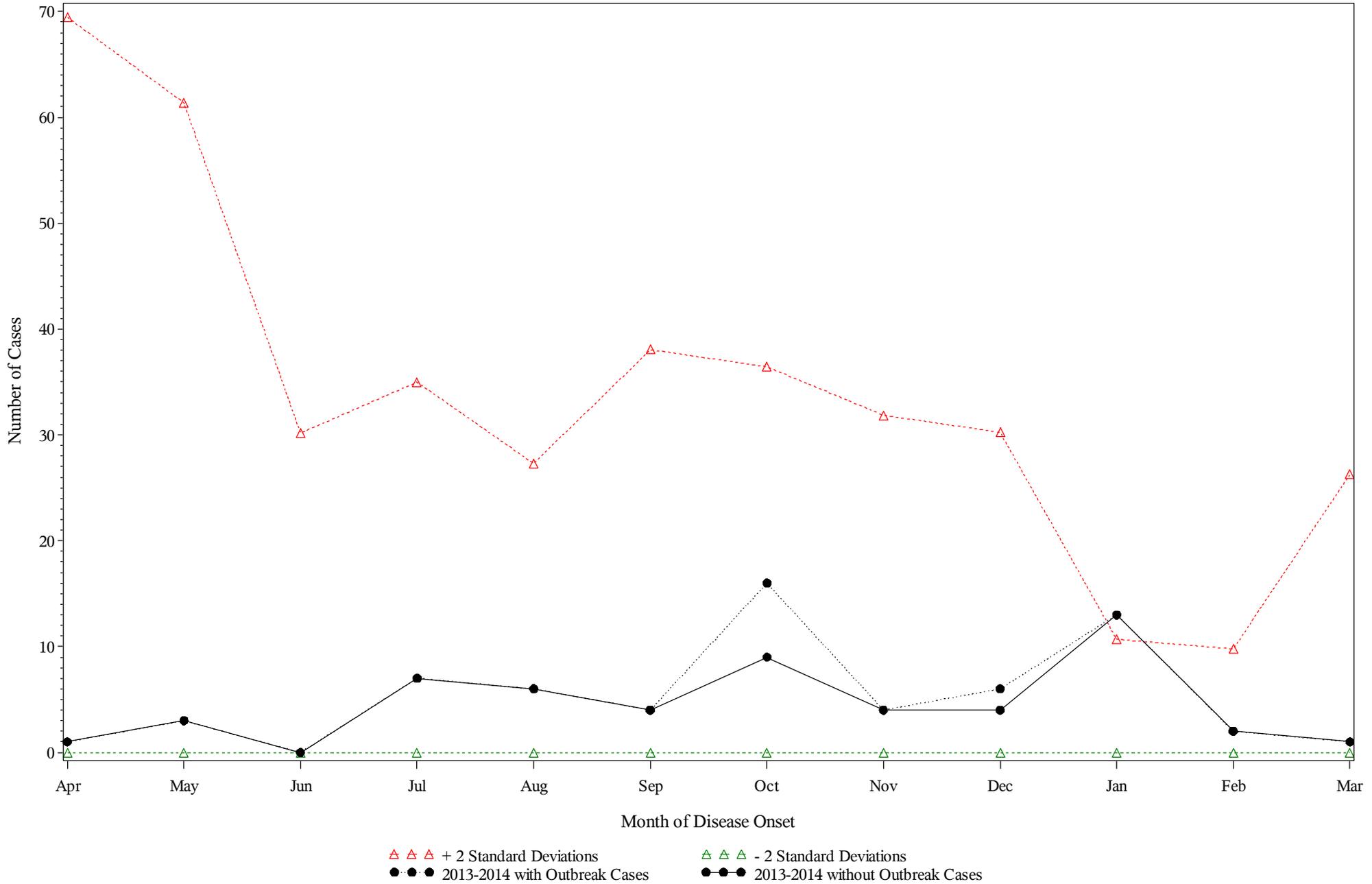
△ △ △ + 2 Standard Deviations     
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● ● ● 2013-2014 with Outbreak Cases     
 ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northwest Pertussis

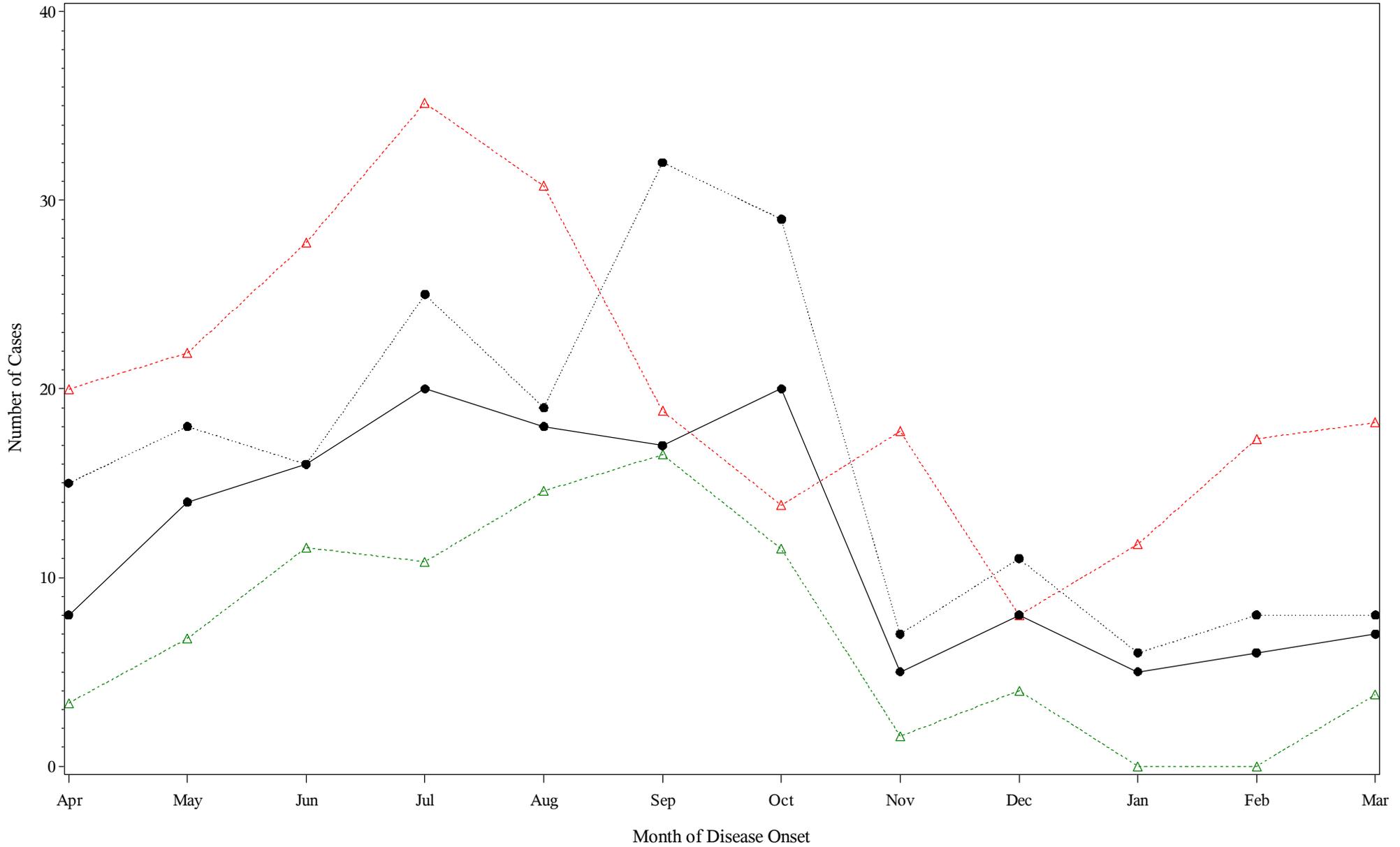


Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northwest Salmonellosis



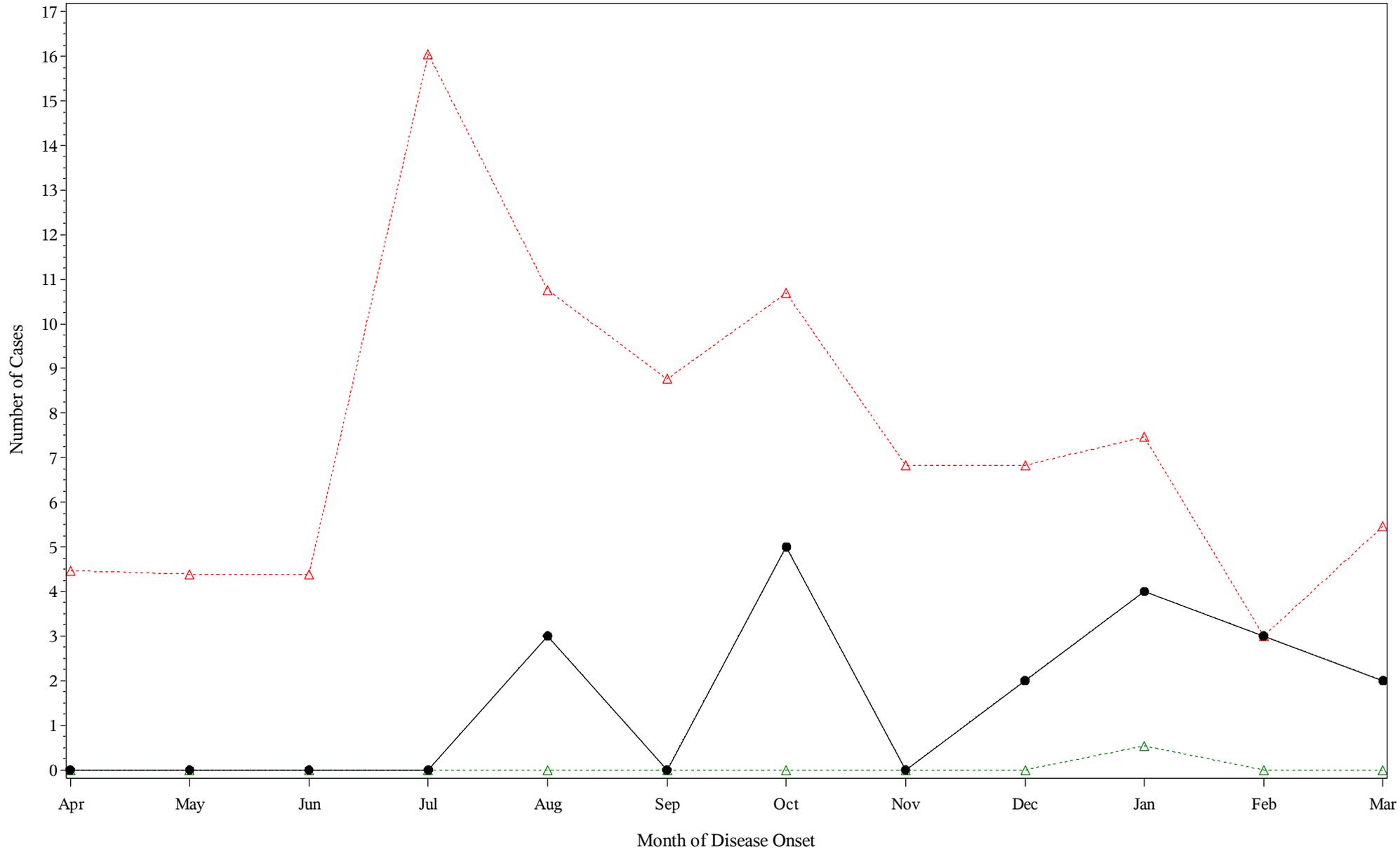
△ △ △ + 2 Standard Deviations     
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● ● ● 2013-2014 with Outbreak Cases     
 ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northwest Shigellosis

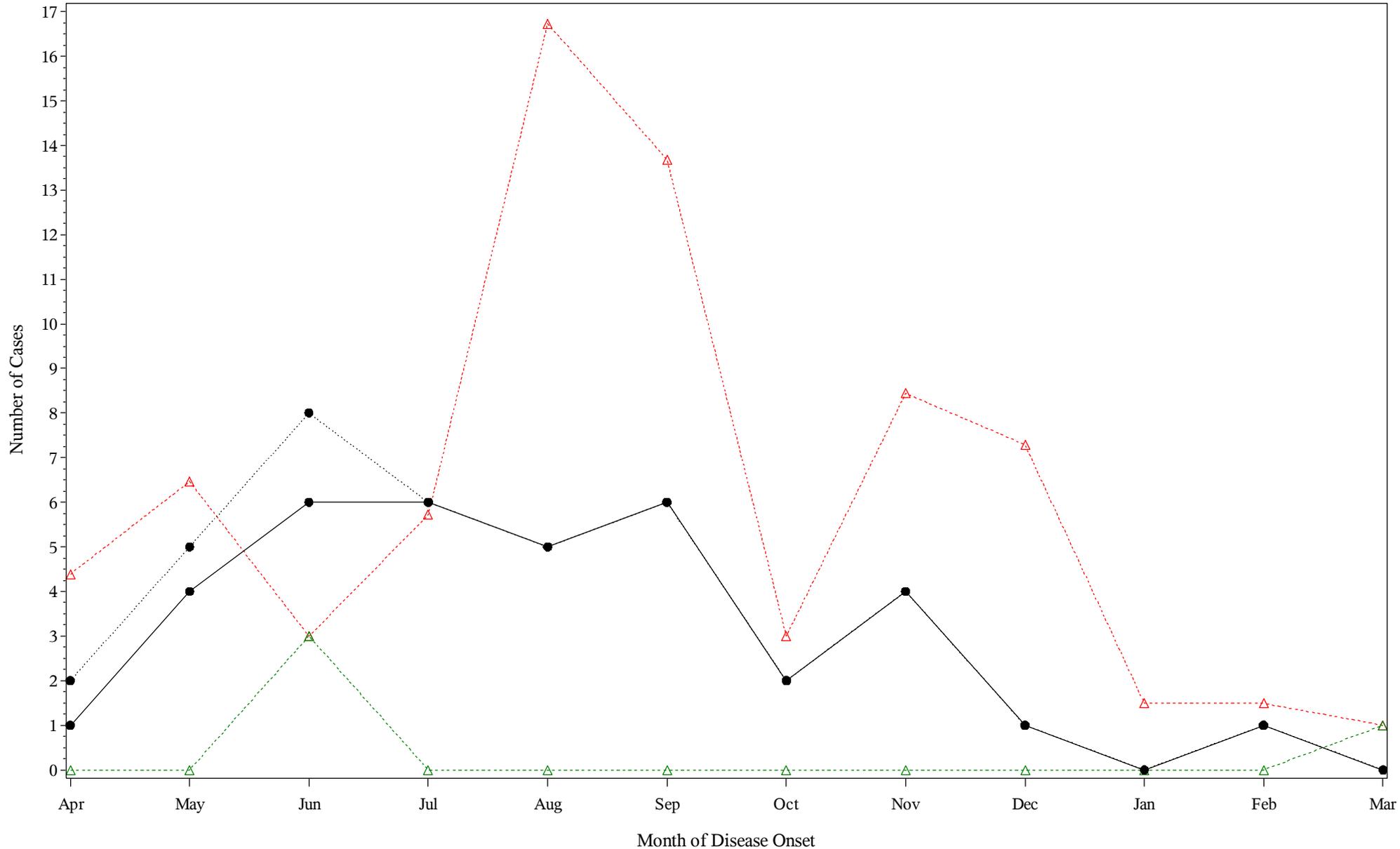


△ △ △ + 2 Standard Deviations     
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● ● ● 2013-2014 with Outbreak Cases     
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northwest Shiga Toxin-Producing Escherichia coli

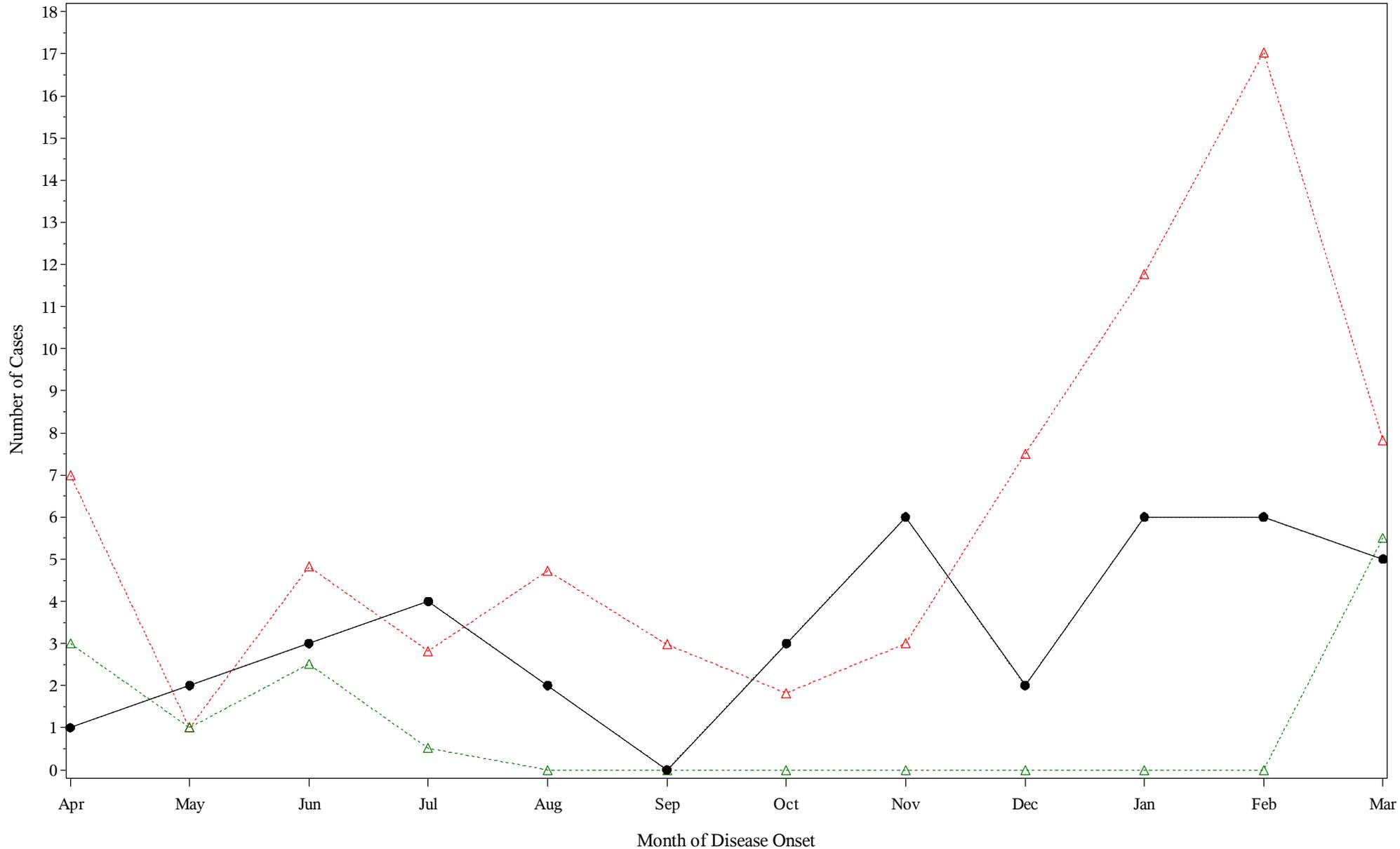


△ △ △ + 2 Standard Deviations     
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● ● ● 2013-2014 with Outbreak Cases     
 ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northwest Streptococcal Disease, Group A, Invasive

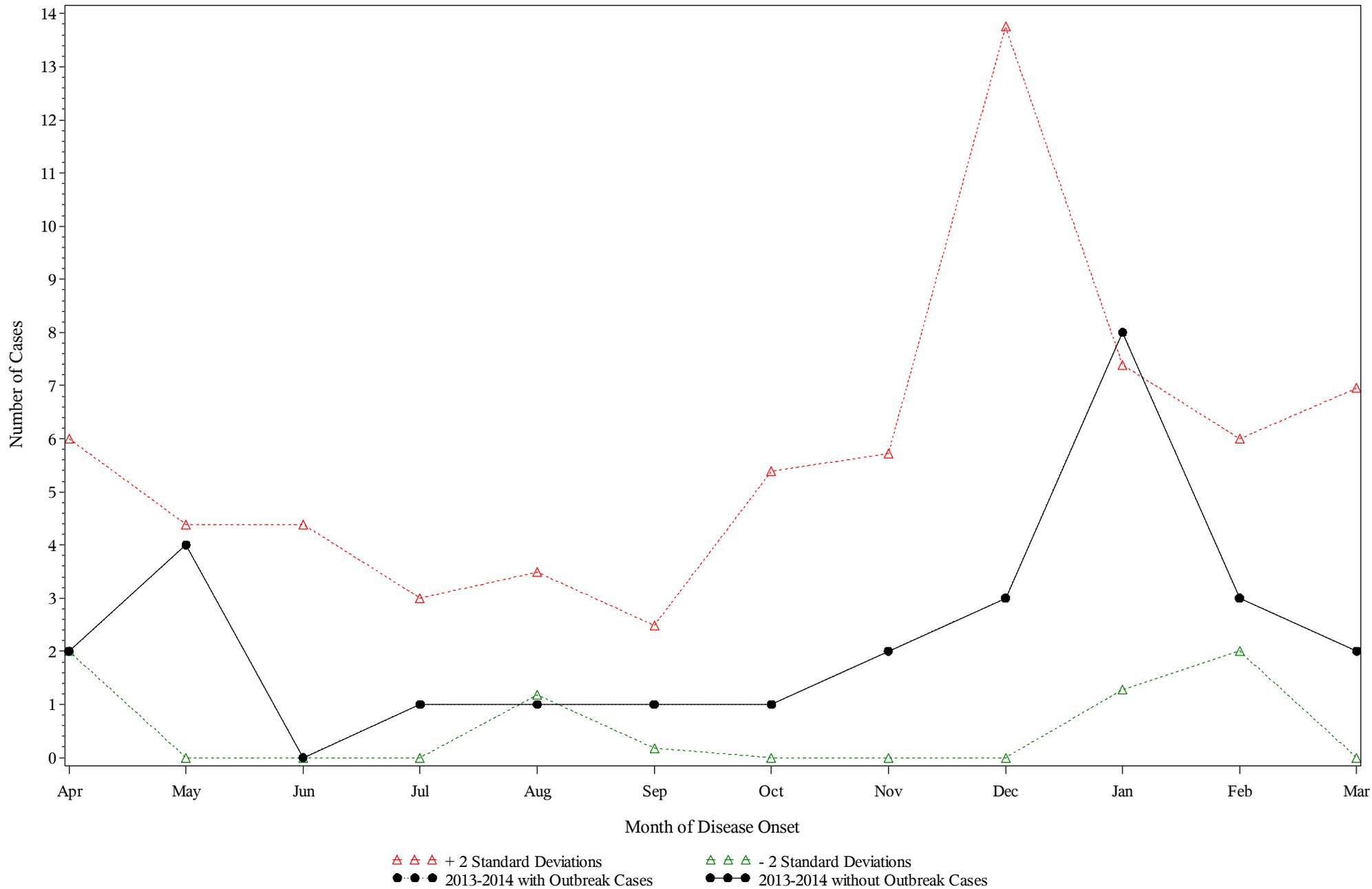


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northwest      Streptococcus pneumoniae, Invasive, Drug Resistant/Intermediate

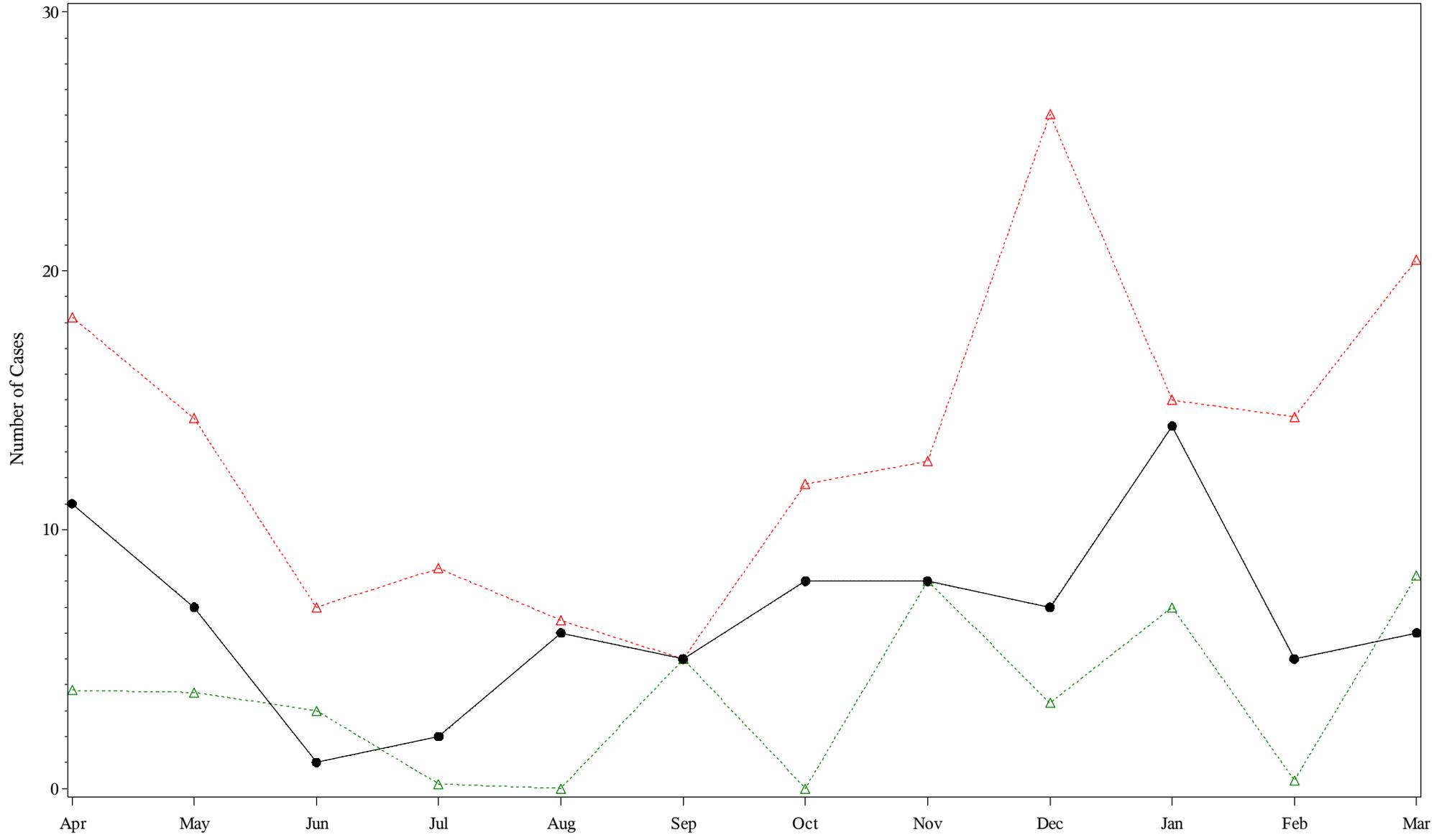


Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Northwest Streptococcus pneumoniae, Invasive, Drug Susceptible/Unknown

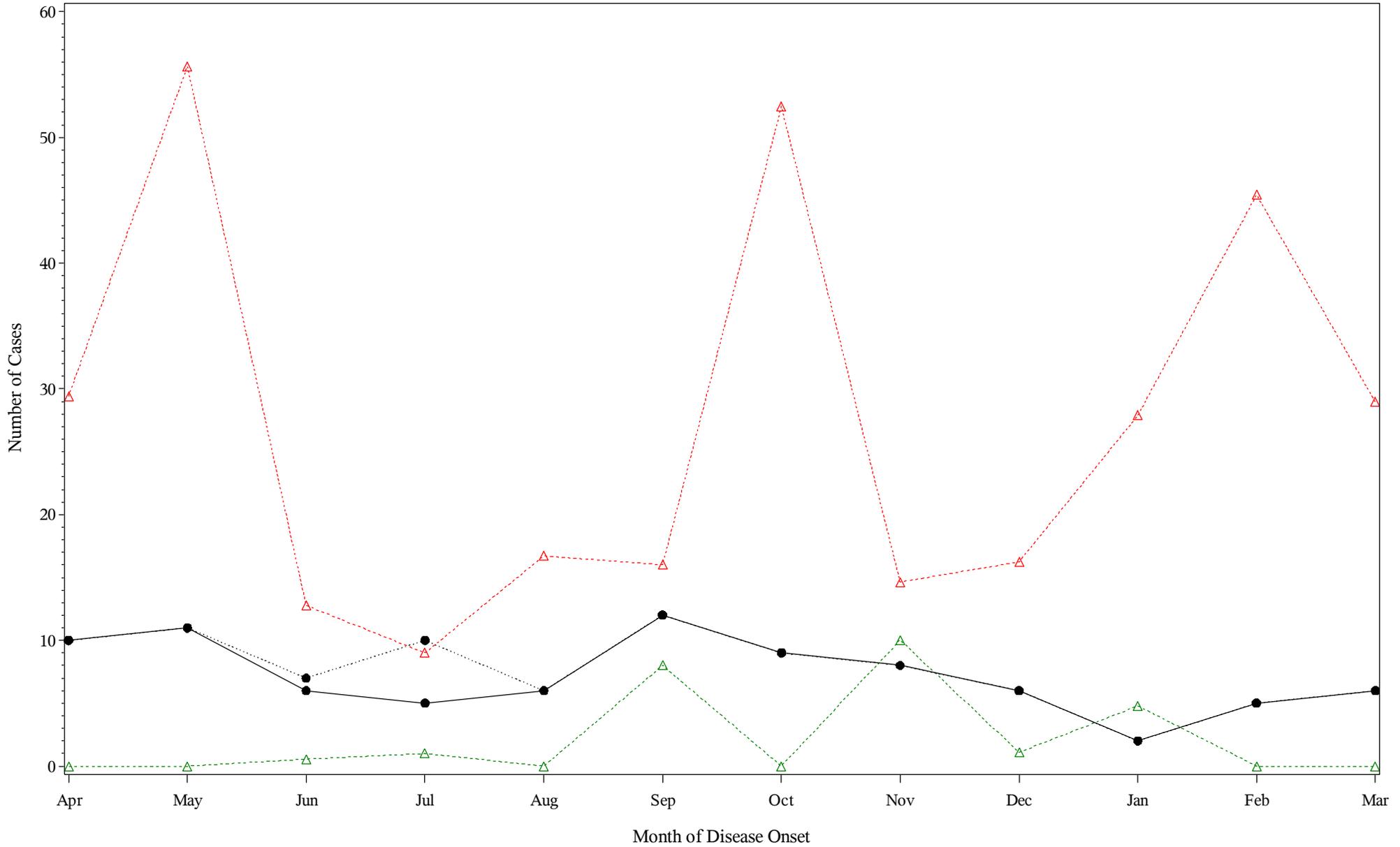


△ △ △ + 2 Standard Deviations     
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● ● ● 2013-2014 with Outbreak Cases     
 ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northwest Varicella



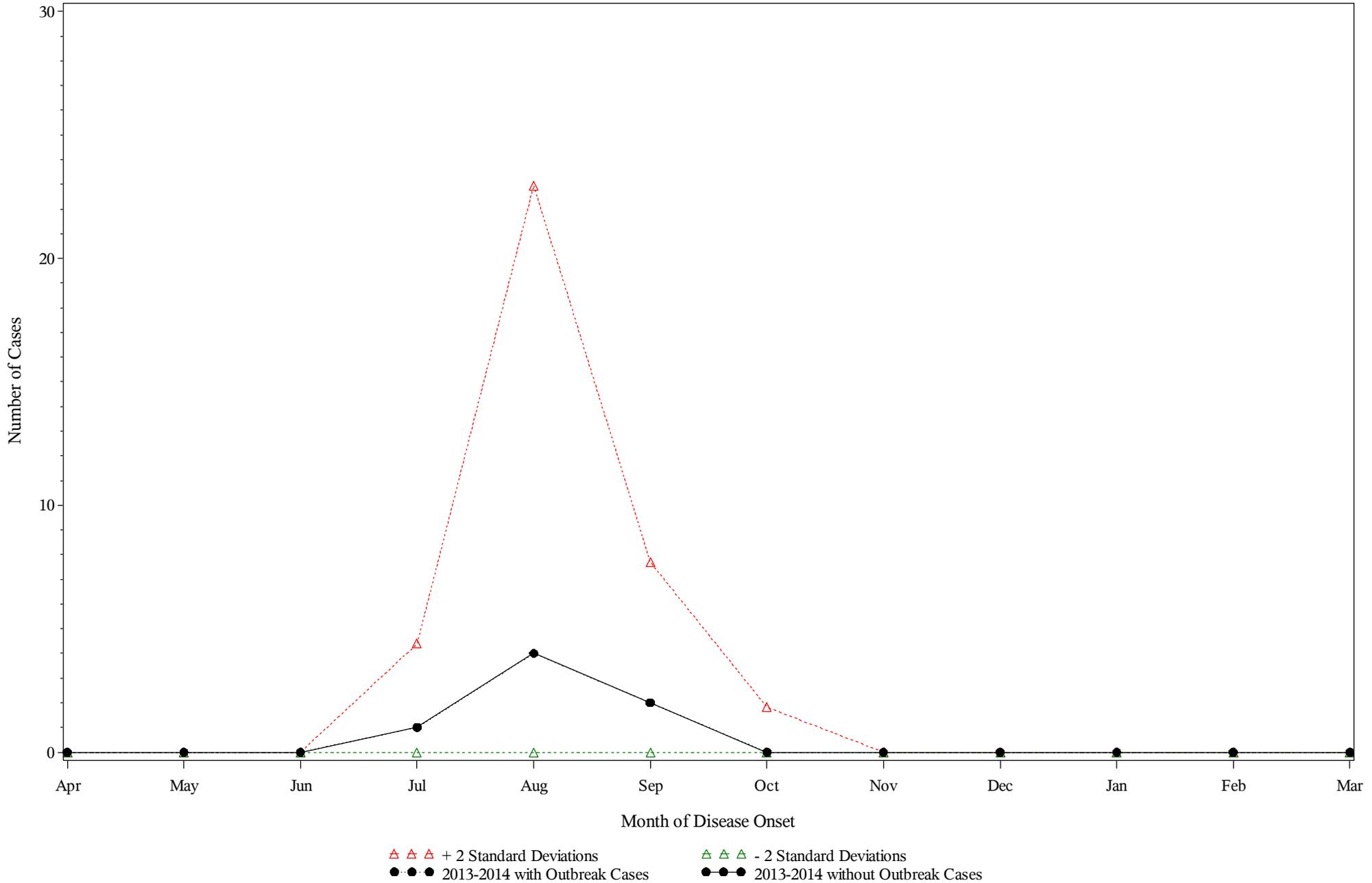
△ △ △ + 2 Standard Deviations     
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● ● ● 2013-2014 with Outbreak Cases     
 ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northwest West Nile Virus Disease



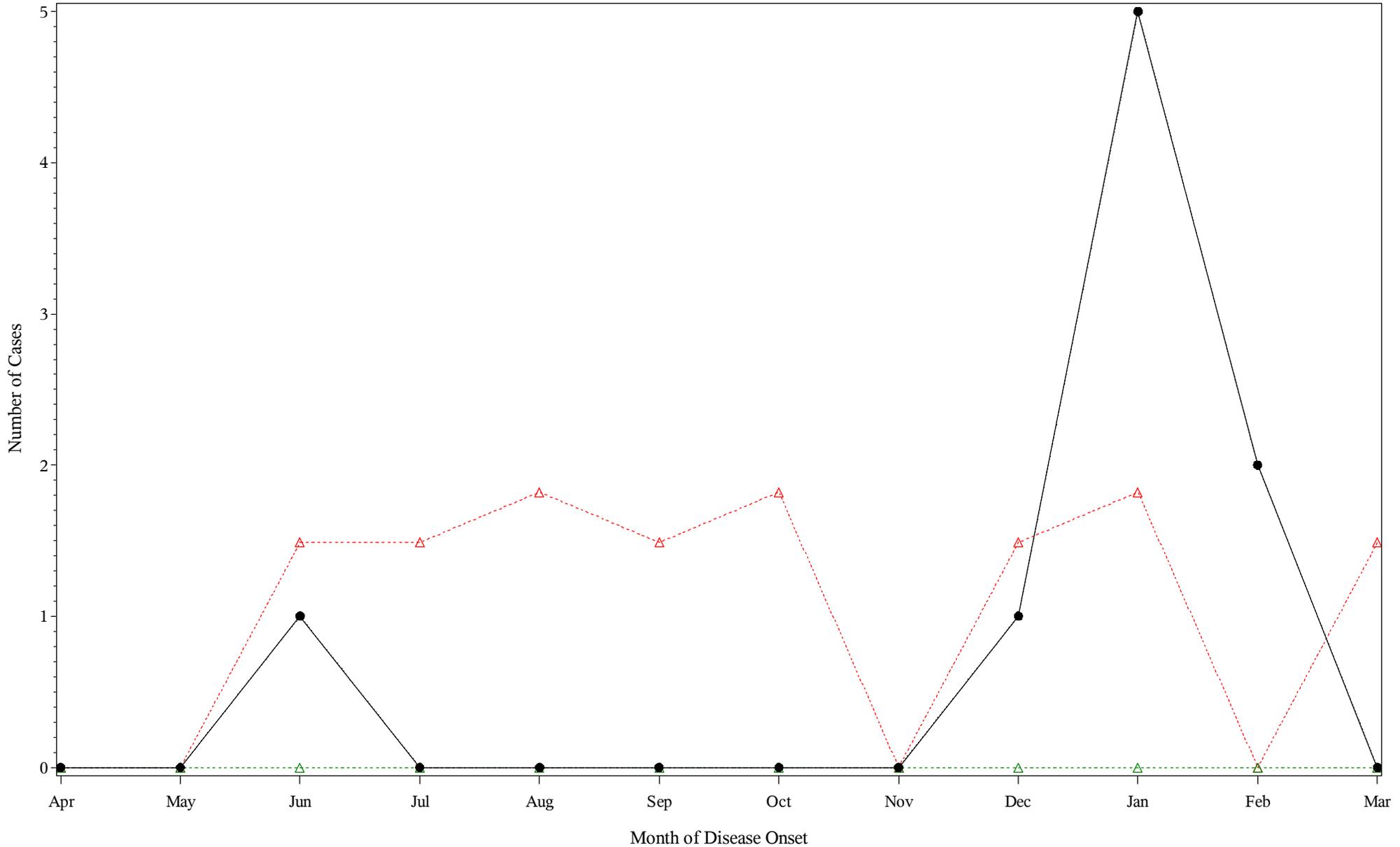
Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012

Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Northwest Yersiniosis



△ △ △ + 2 Standard Deviations

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● ● ● 2013-2014 with Outbreak Cases

● ● ● 2013-2014 without Outbreak Cases

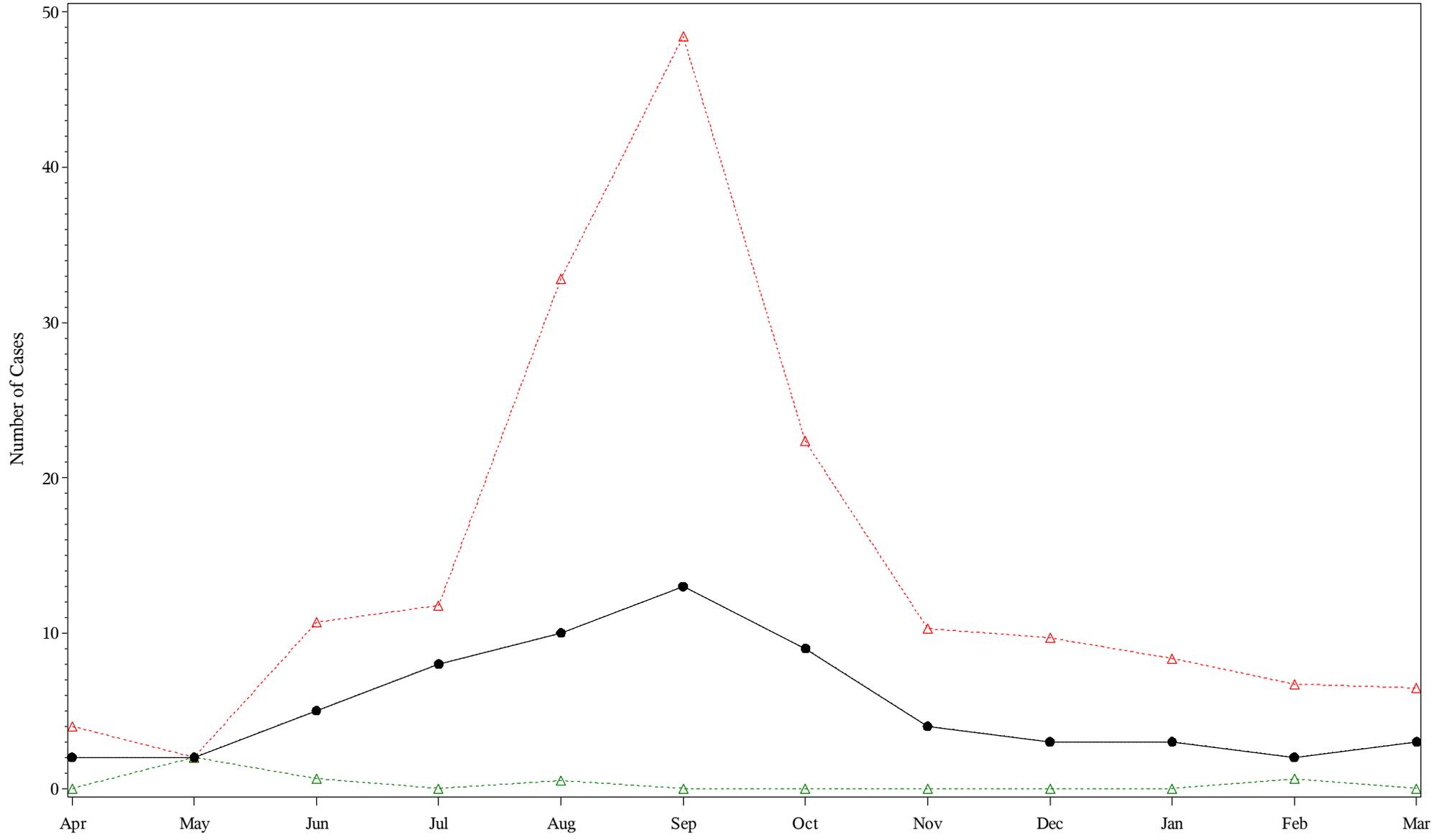
Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012

Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast Aseptic Meningitis

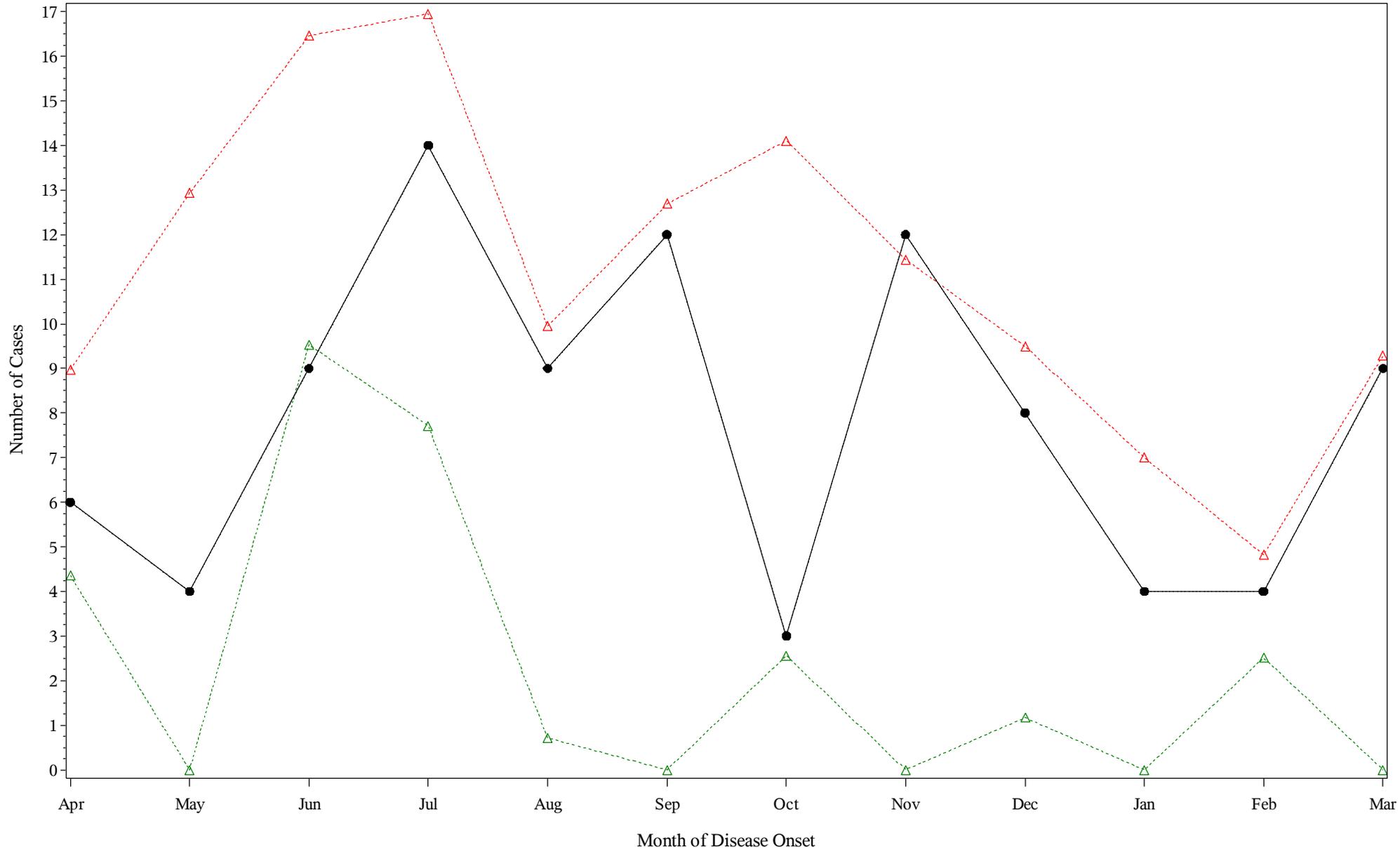


△ △ △ + 2 Standard Deviations      △ △ △ - 2 Standard Deviations  
● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast      Campylobacteriosis

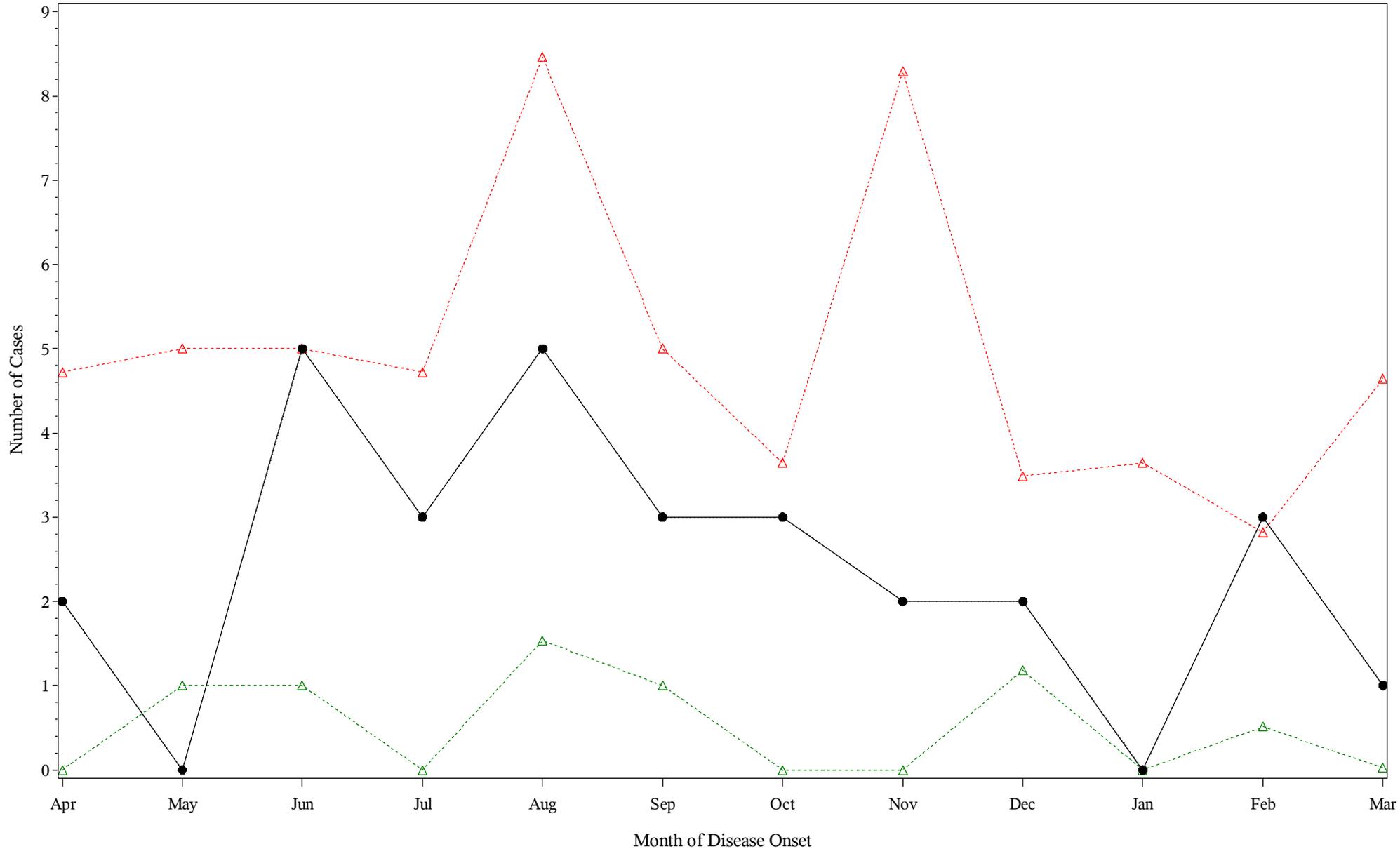


△ △ △ + 2 Standard Deviations     
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast      Cryptosporidiosis

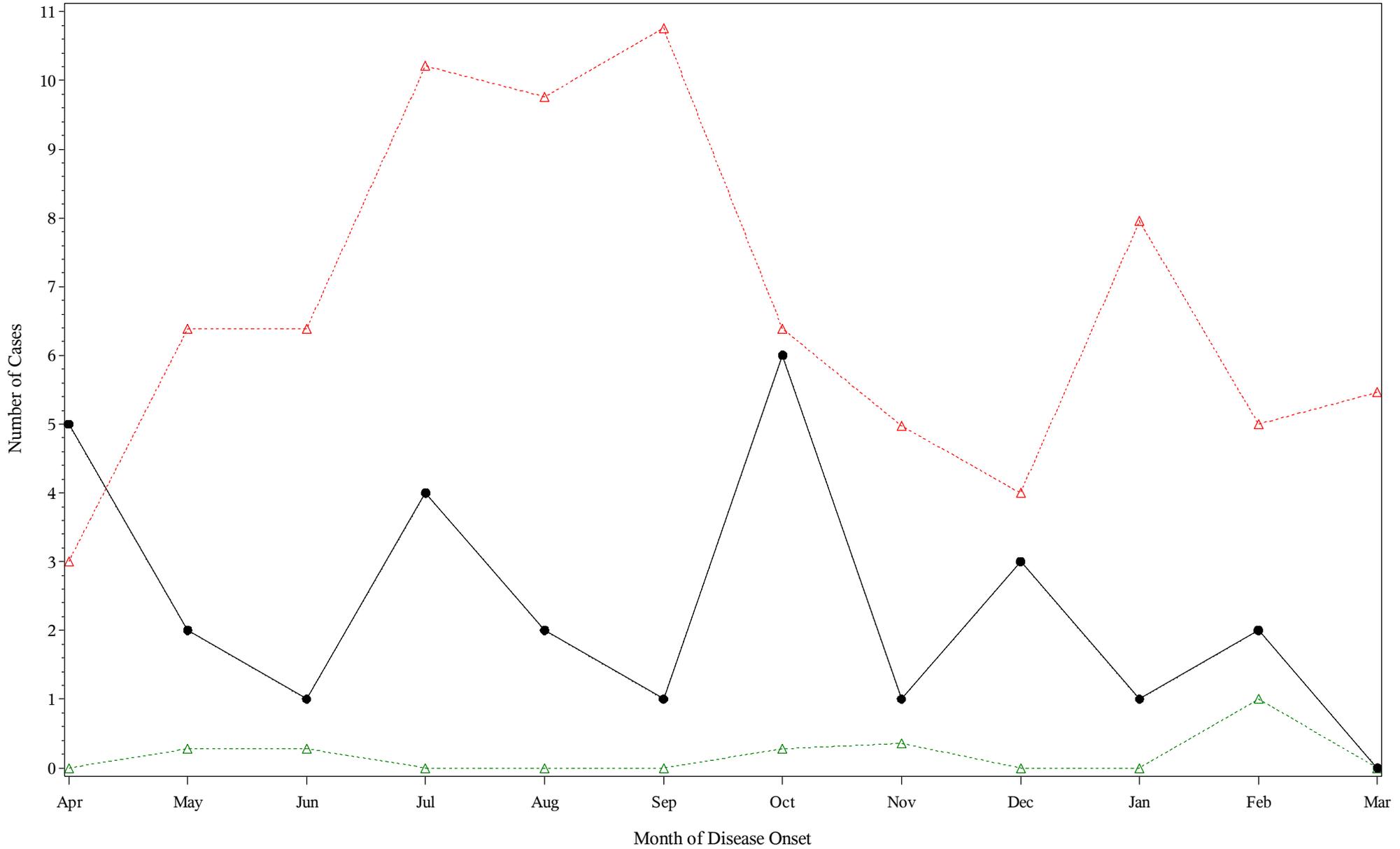


△ △ △ + 2 Standard Deviations      △ △ △ - 2 Standard Deviations  
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast      Giardiasis



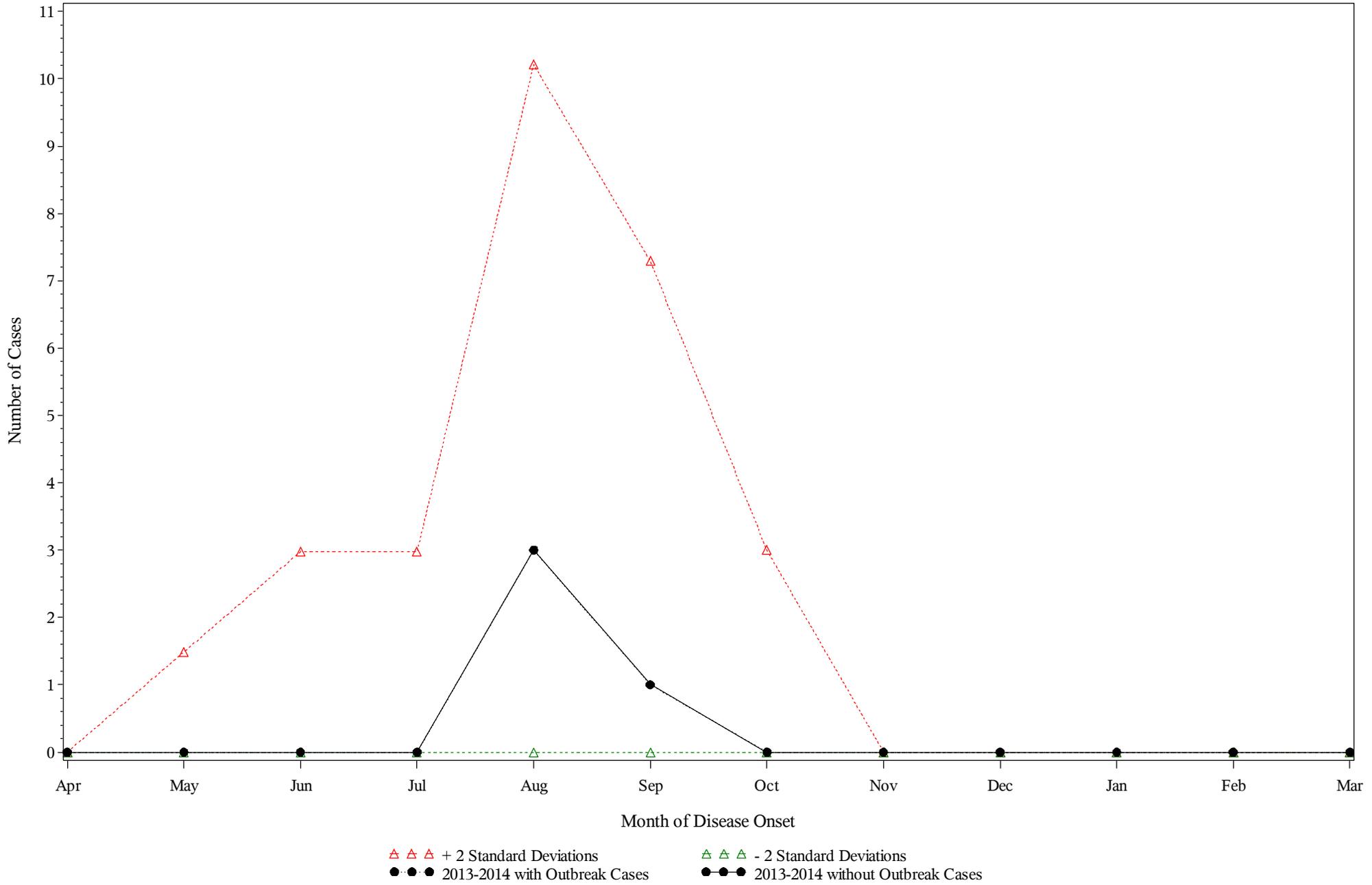
△ △ △ + 2 Standard Deviations     
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● ● ● 2013-2014 with Outbreak Cases     
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast LaCrosse Virus Disease

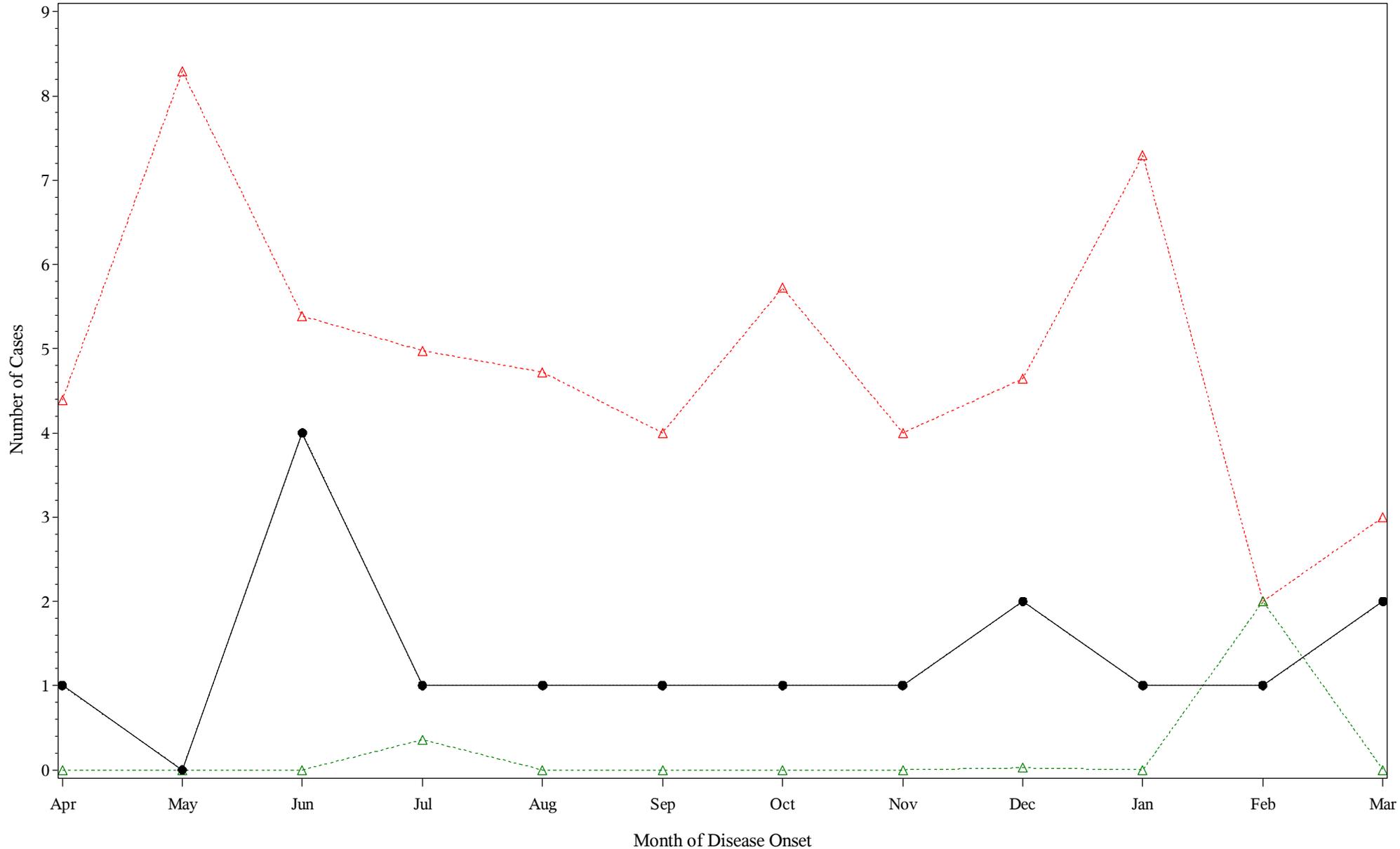


Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast Legionellosis

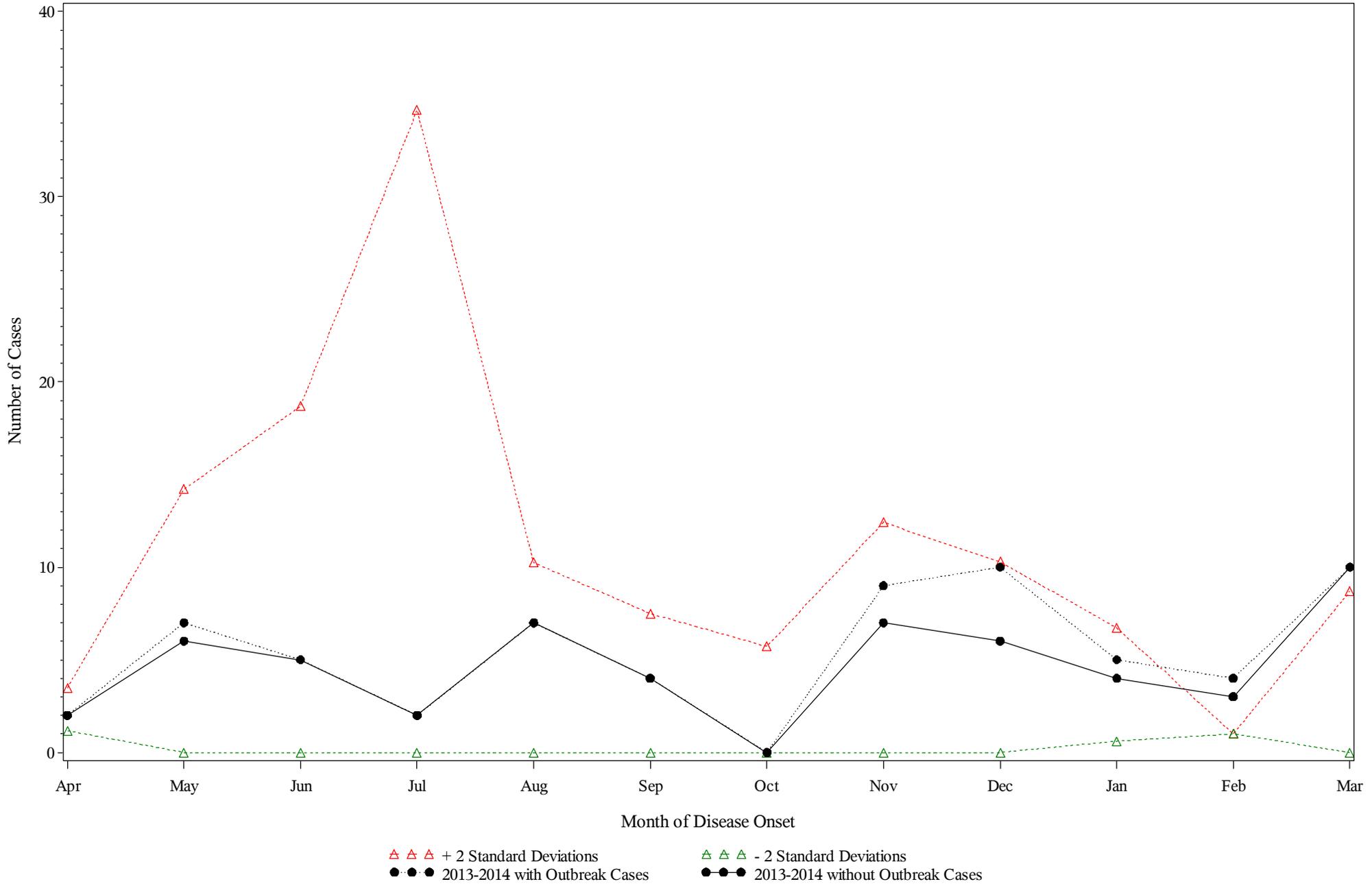


△ △ △ + 2 Standard Deviations     
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast      Pertussis

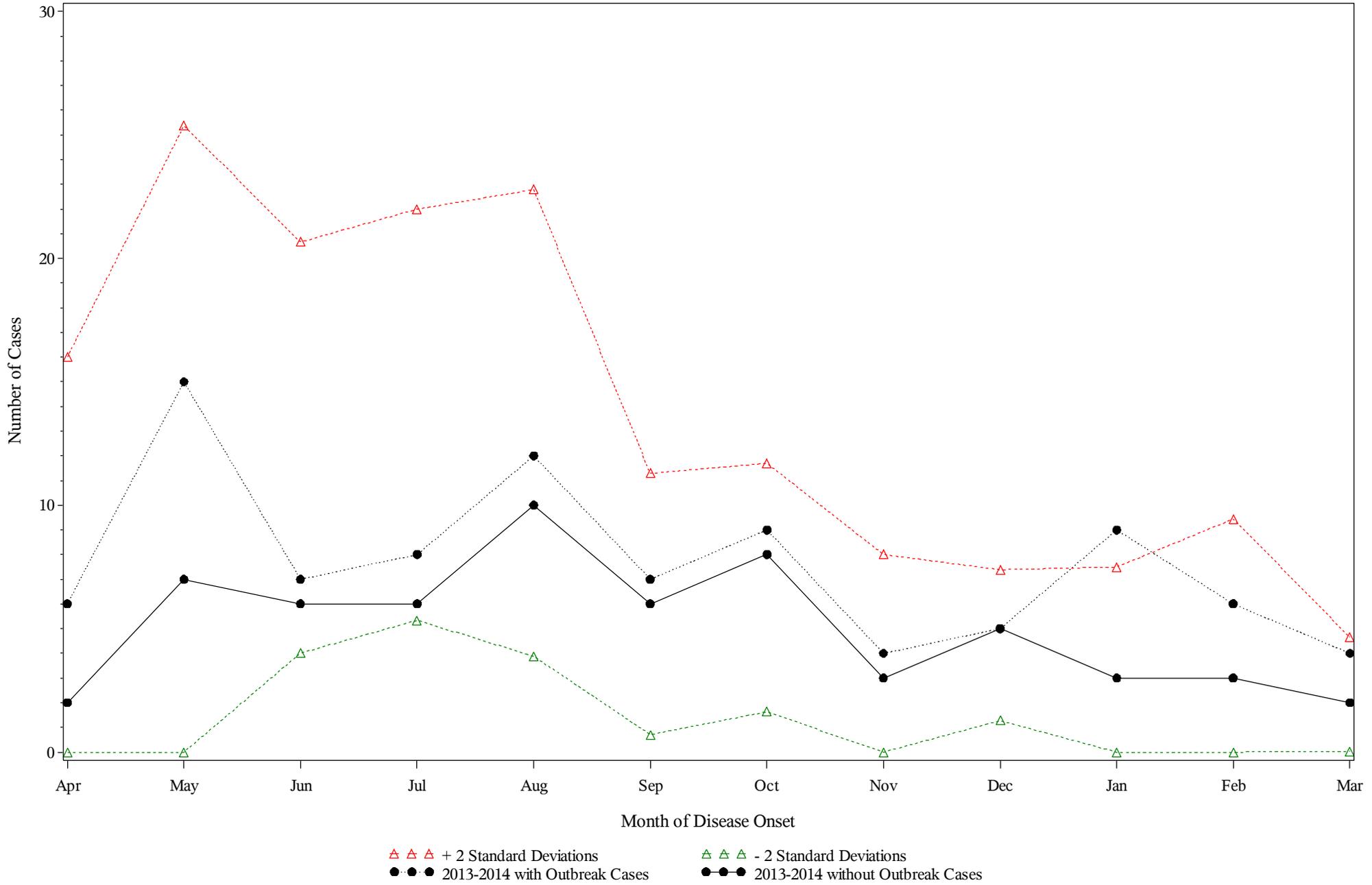


Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast Salmonellosis

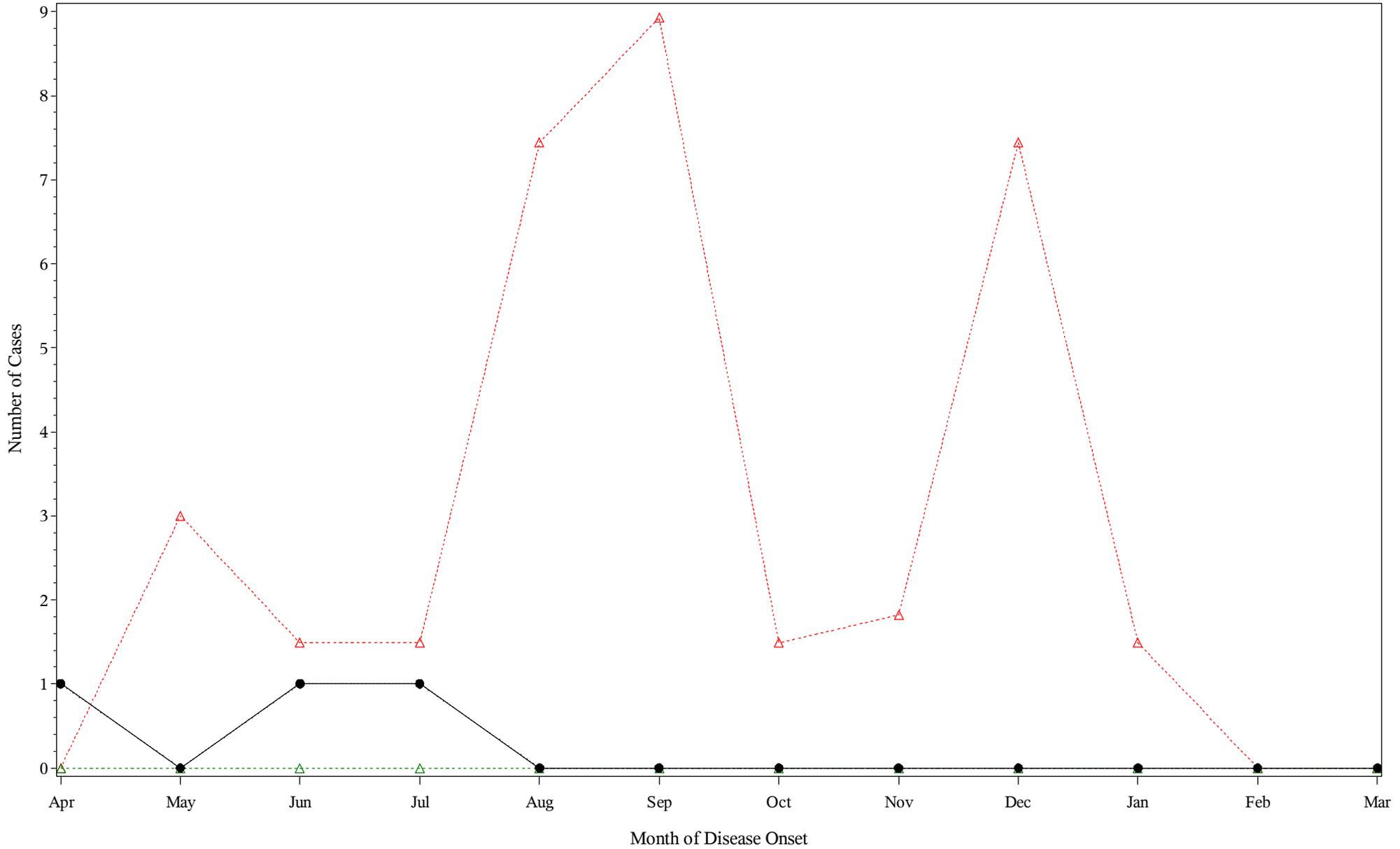


Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Southeast Shigellosis



△ △ △ + 2 Standard Deviations      △ △ △ - 2 Standard Deviations  
● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

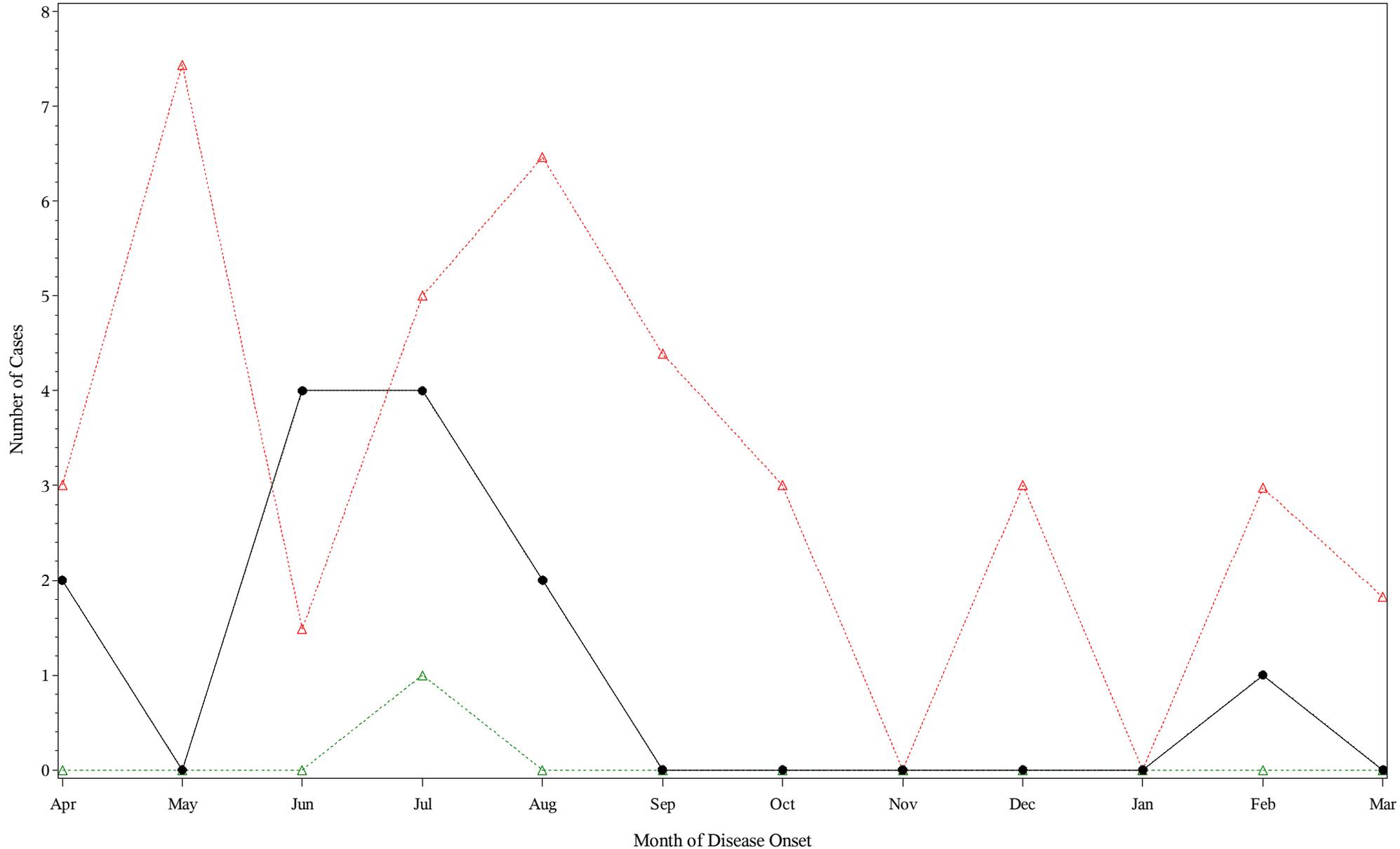
Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012

Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast Shiga Toxin-Producing Escherichia coli

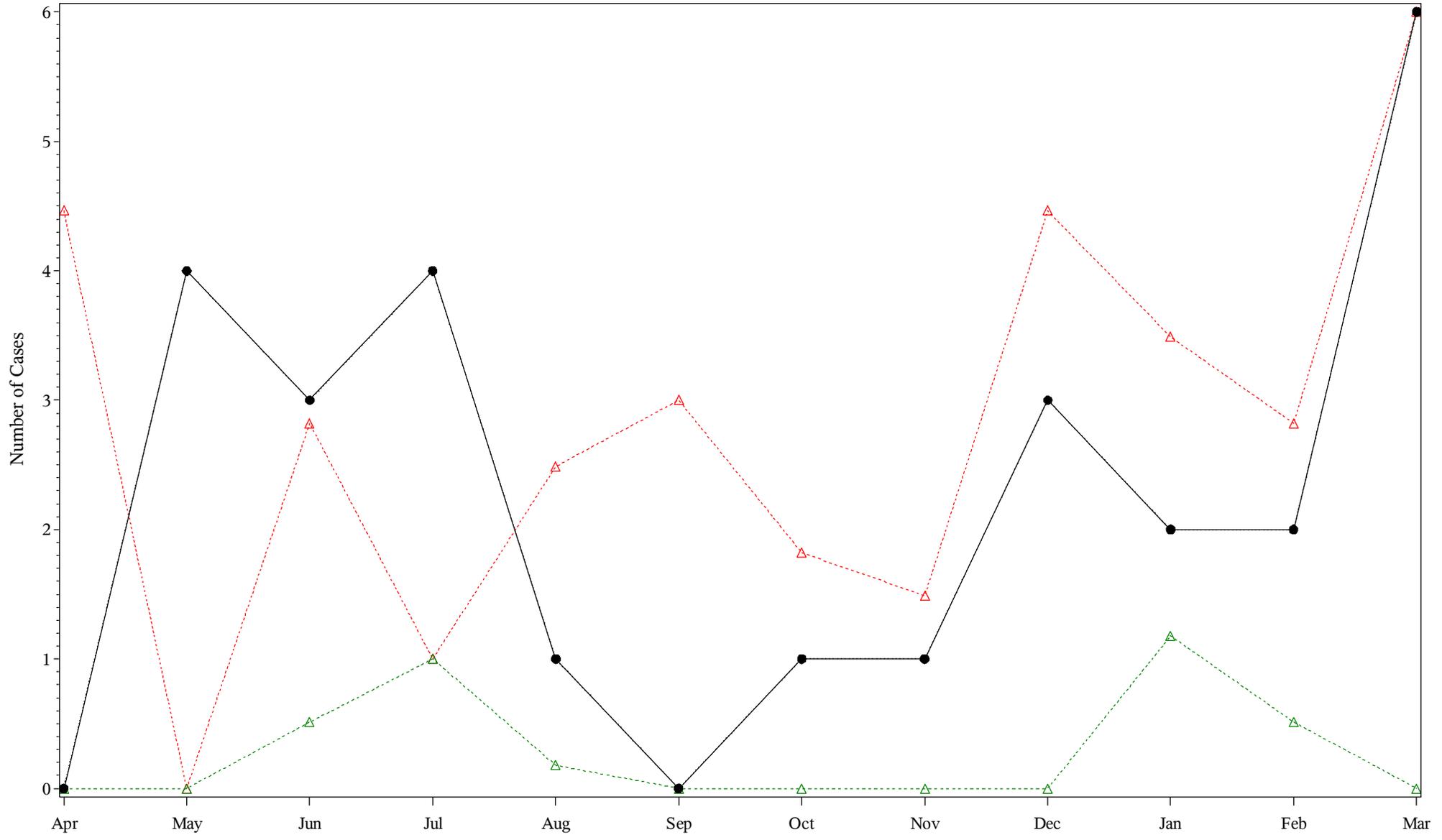


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast      Streptococcal Disease, Group A, Invasive

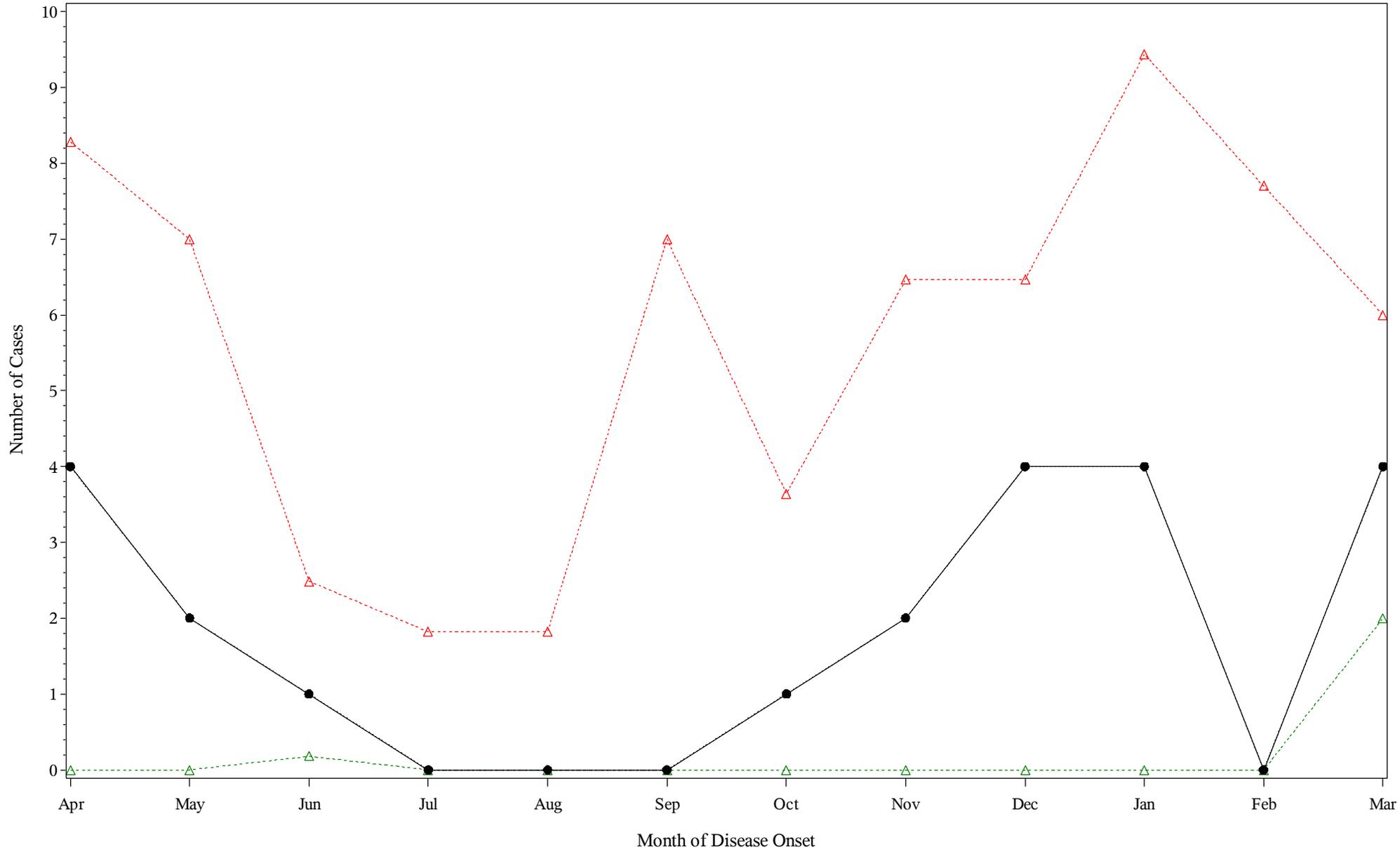


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast      Streptococcus pneumoniae, Invasive, Drug Resistant/Intermediate

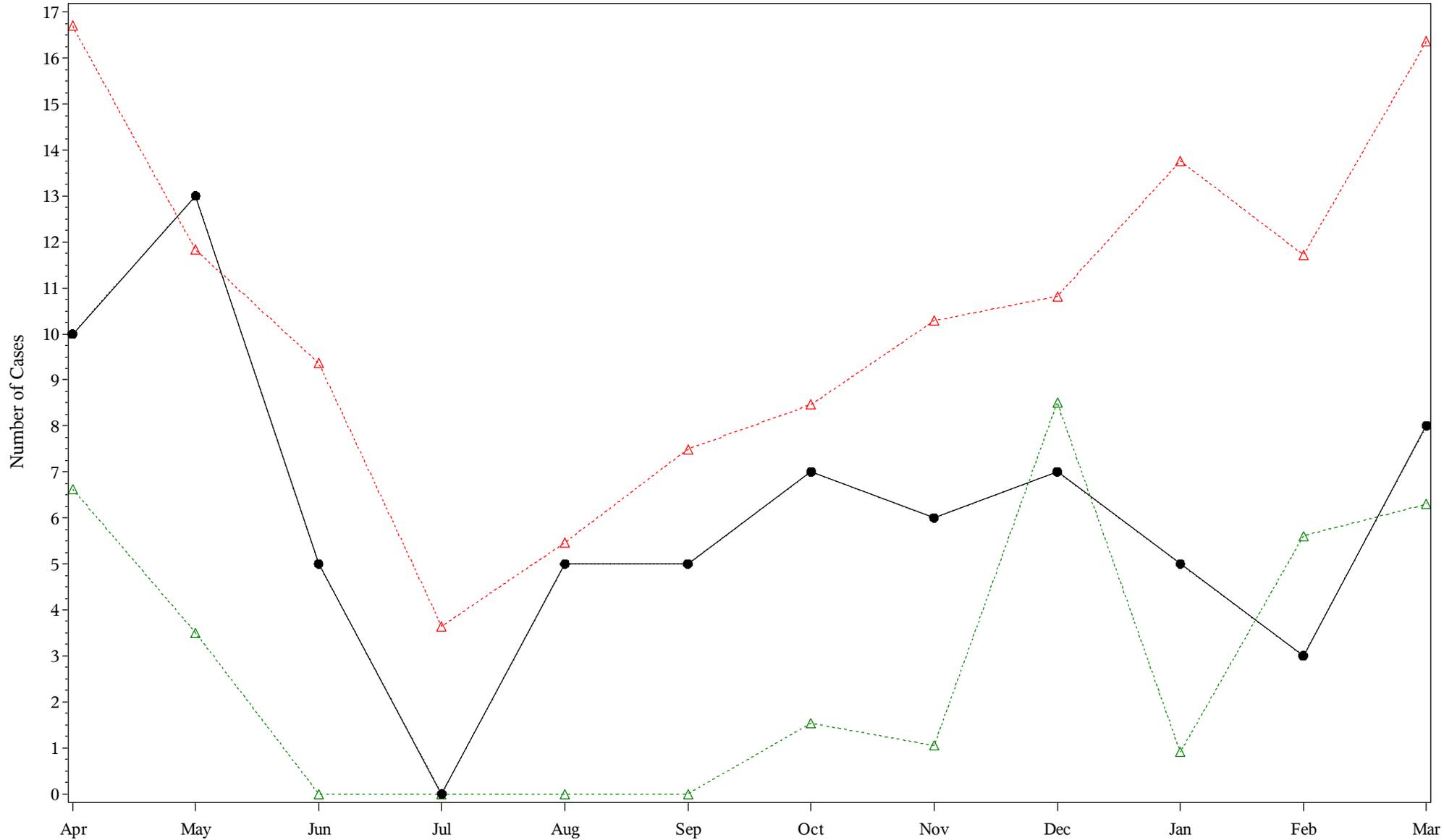


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast      Streptococcus pneumoniae, Invasive, Drug Susceptible/Unknown

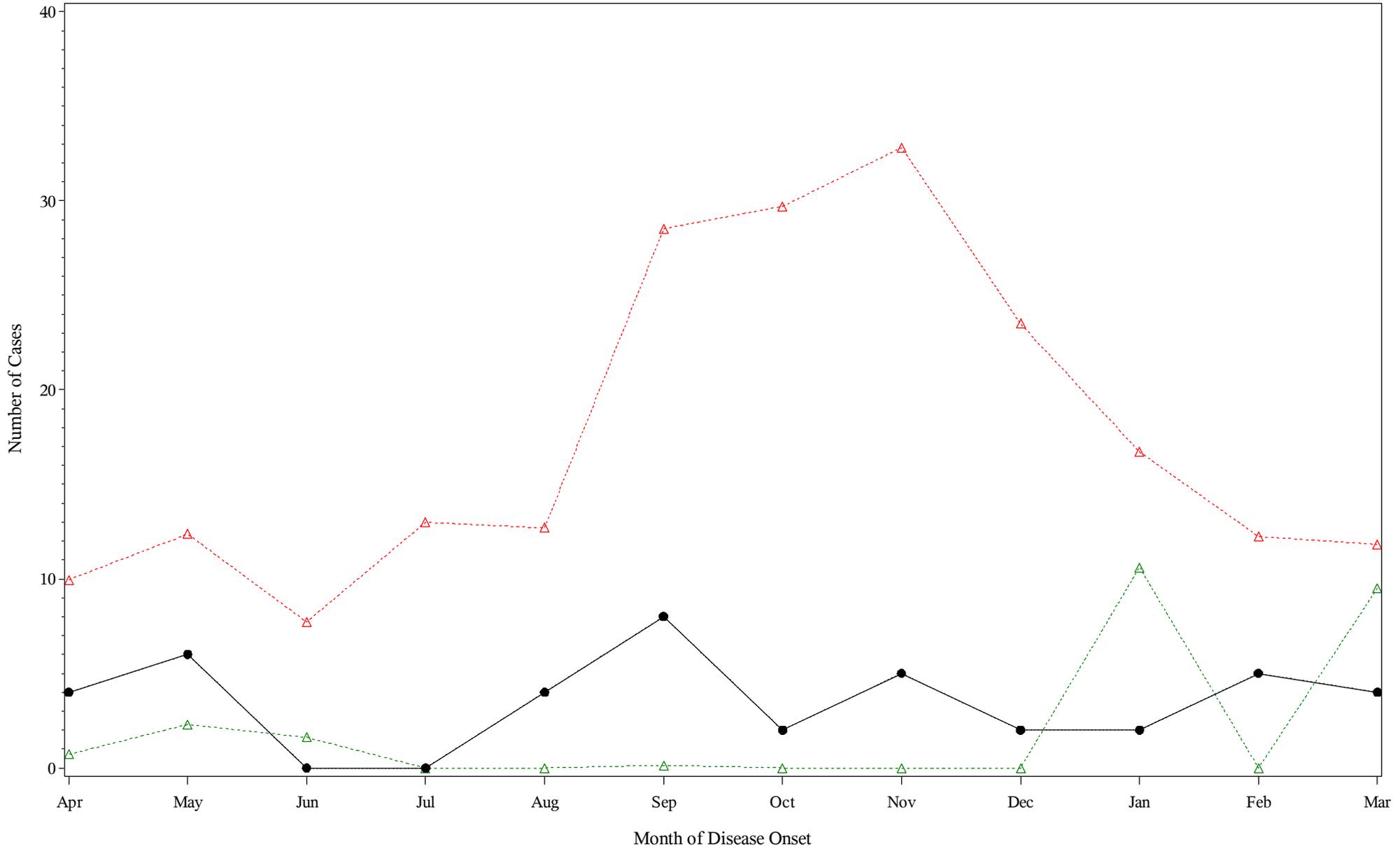


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southeast      Varicella



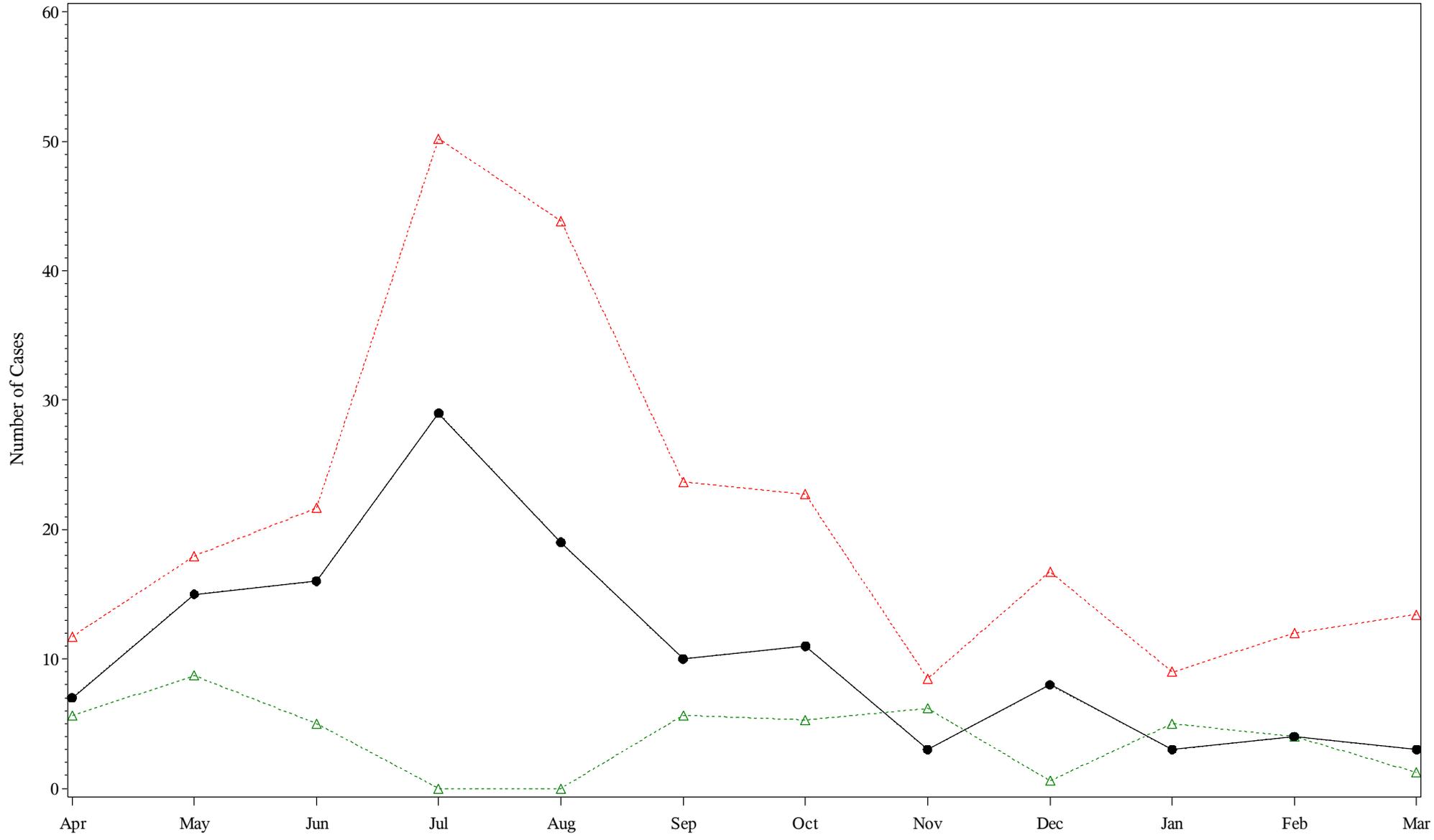
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest      Aseptic Meningitis

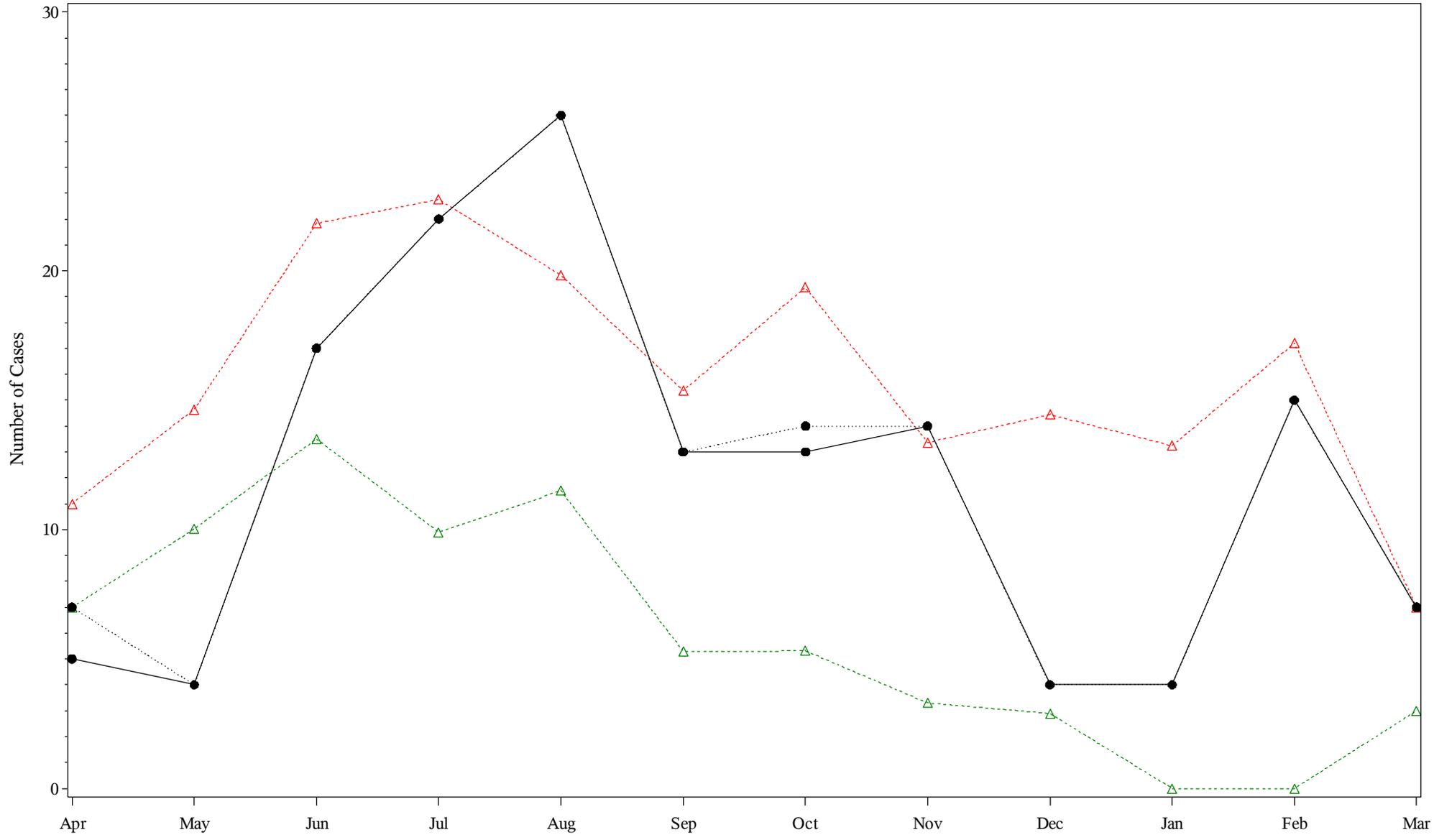


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest      Campylobacteriosis

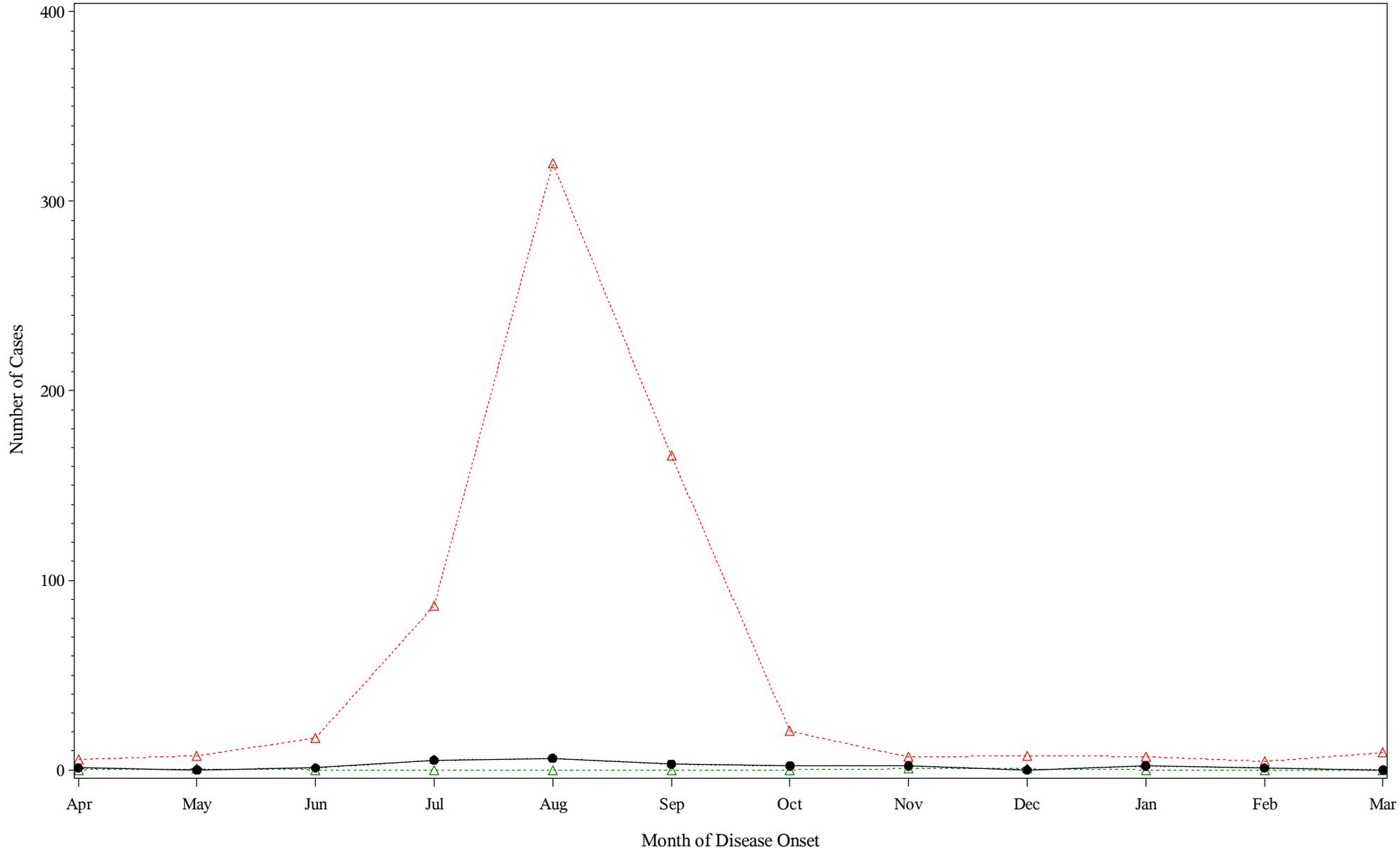


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest      Cryptosporidiosis

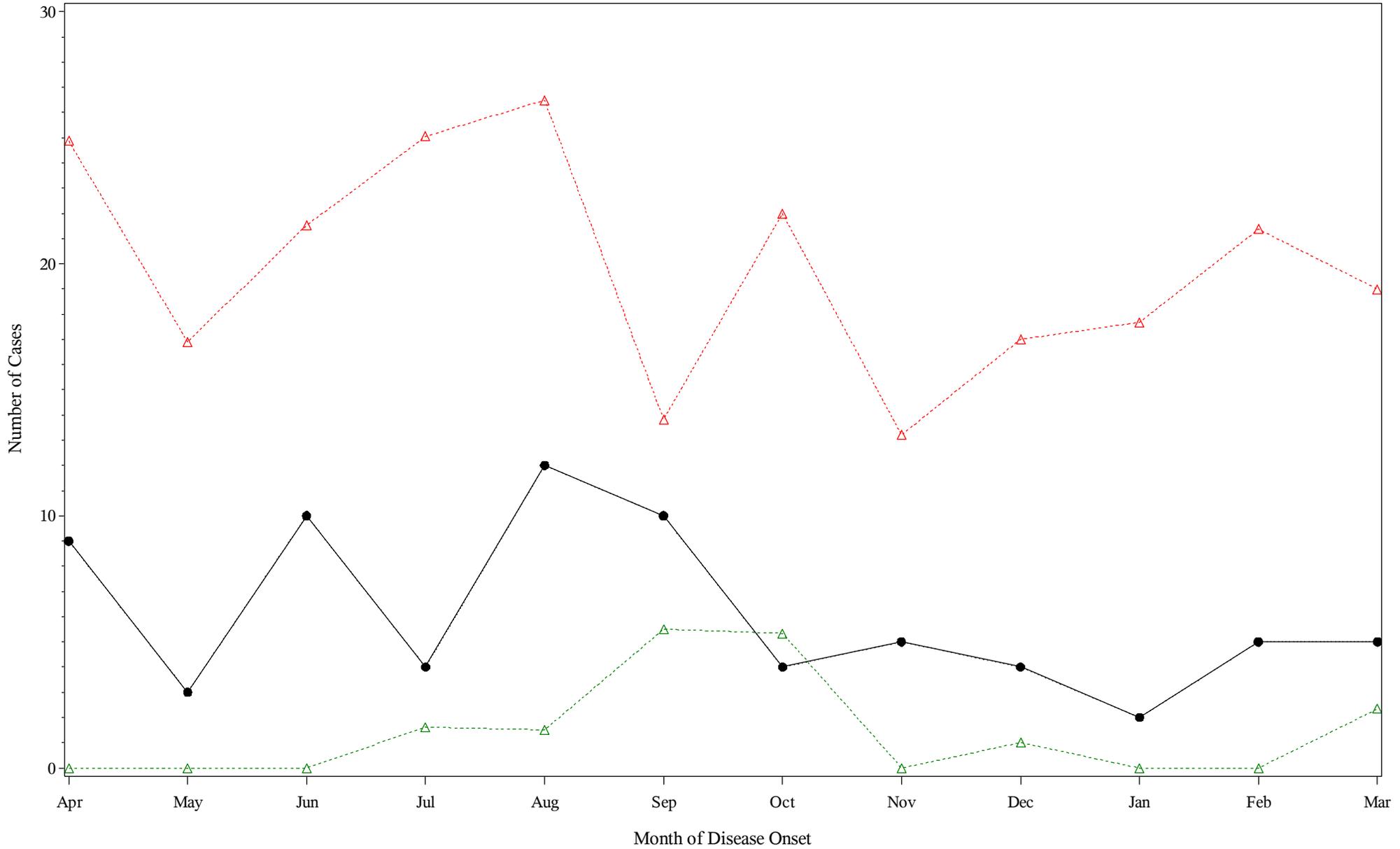


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 Current as of 07/20/2014  
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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Southwest      Giardiasis



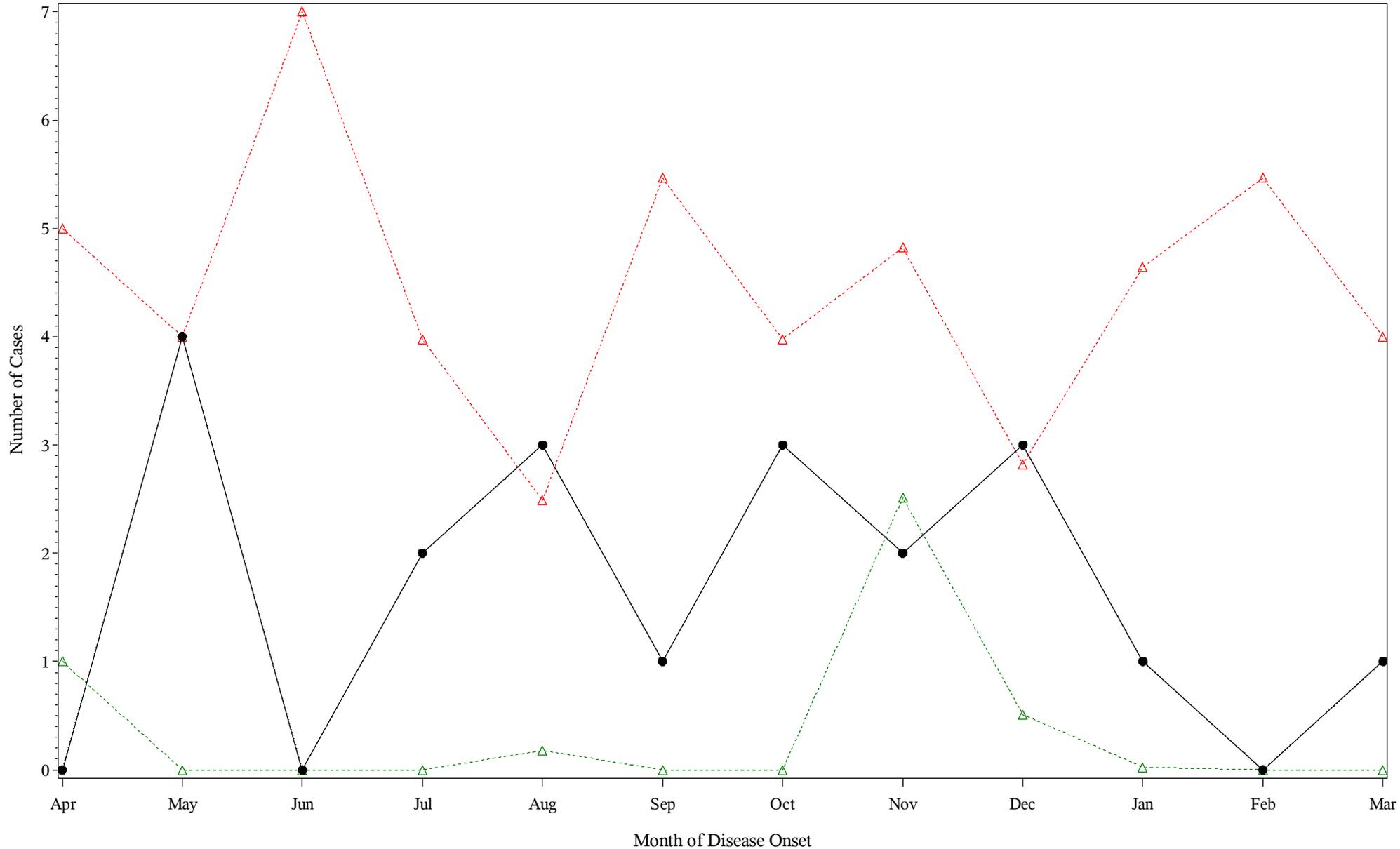
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Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest *Haemophilus influenzae*, Invasive

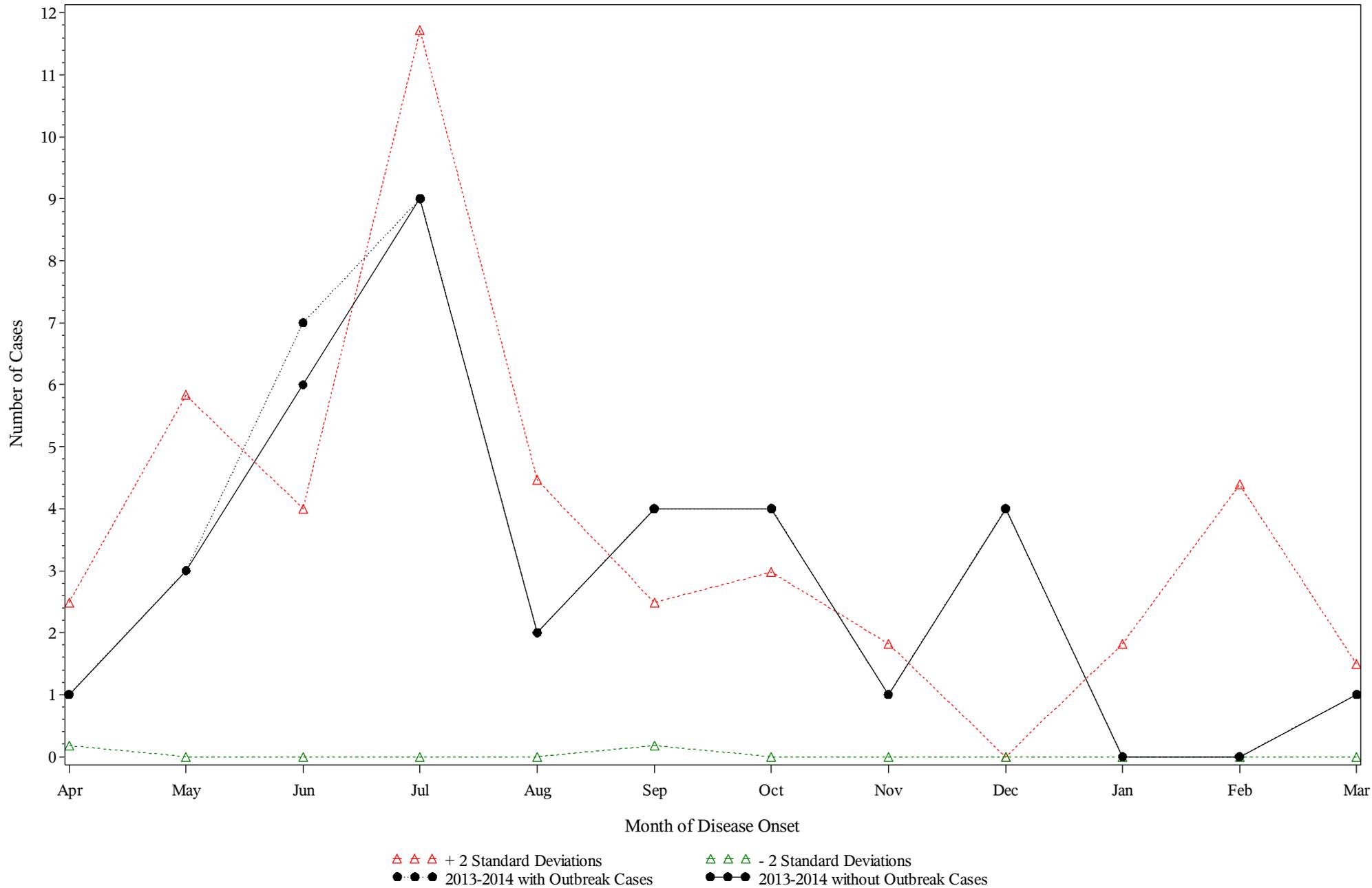


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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest Legionellosis

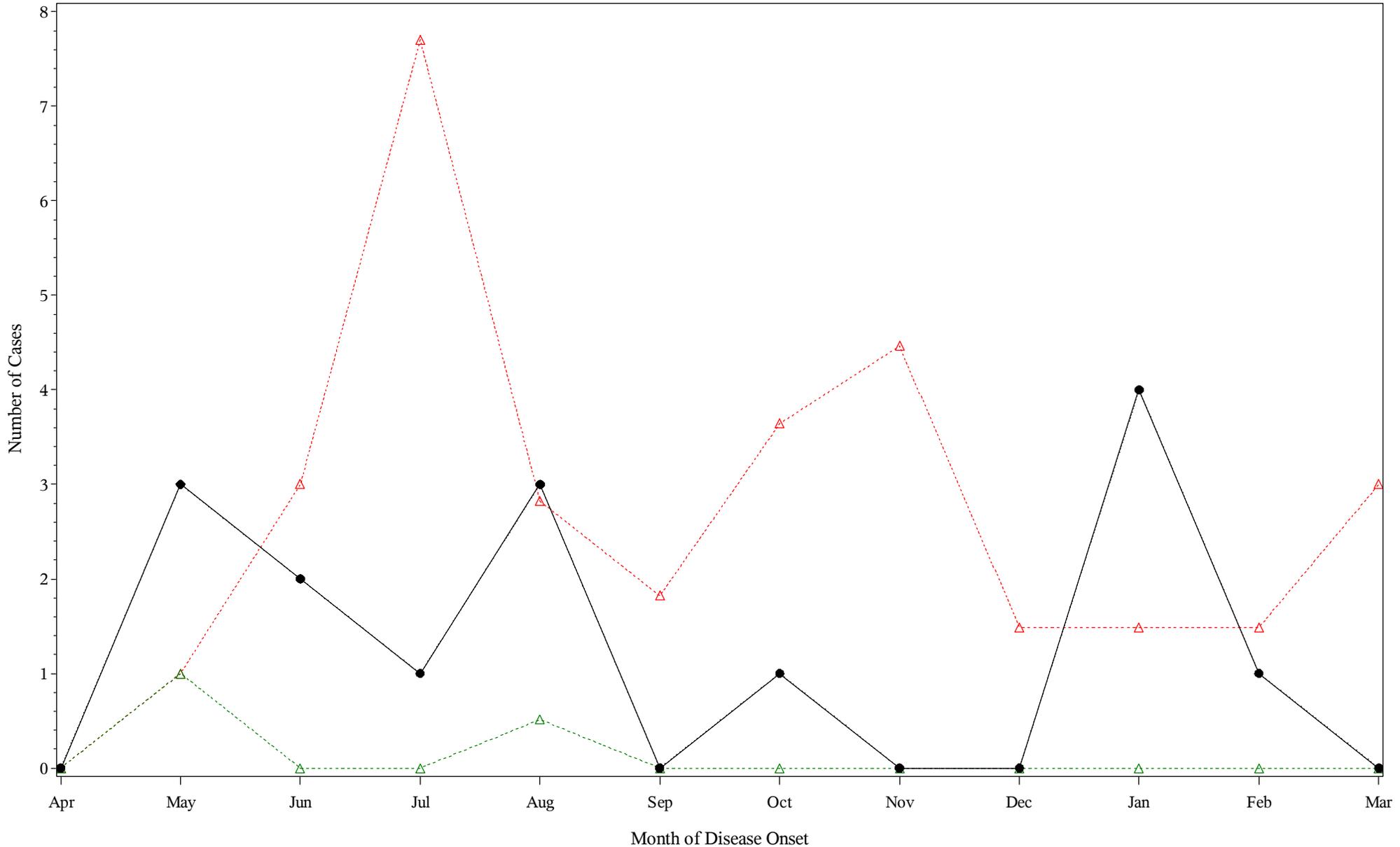


Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest Bacterial Meningitis

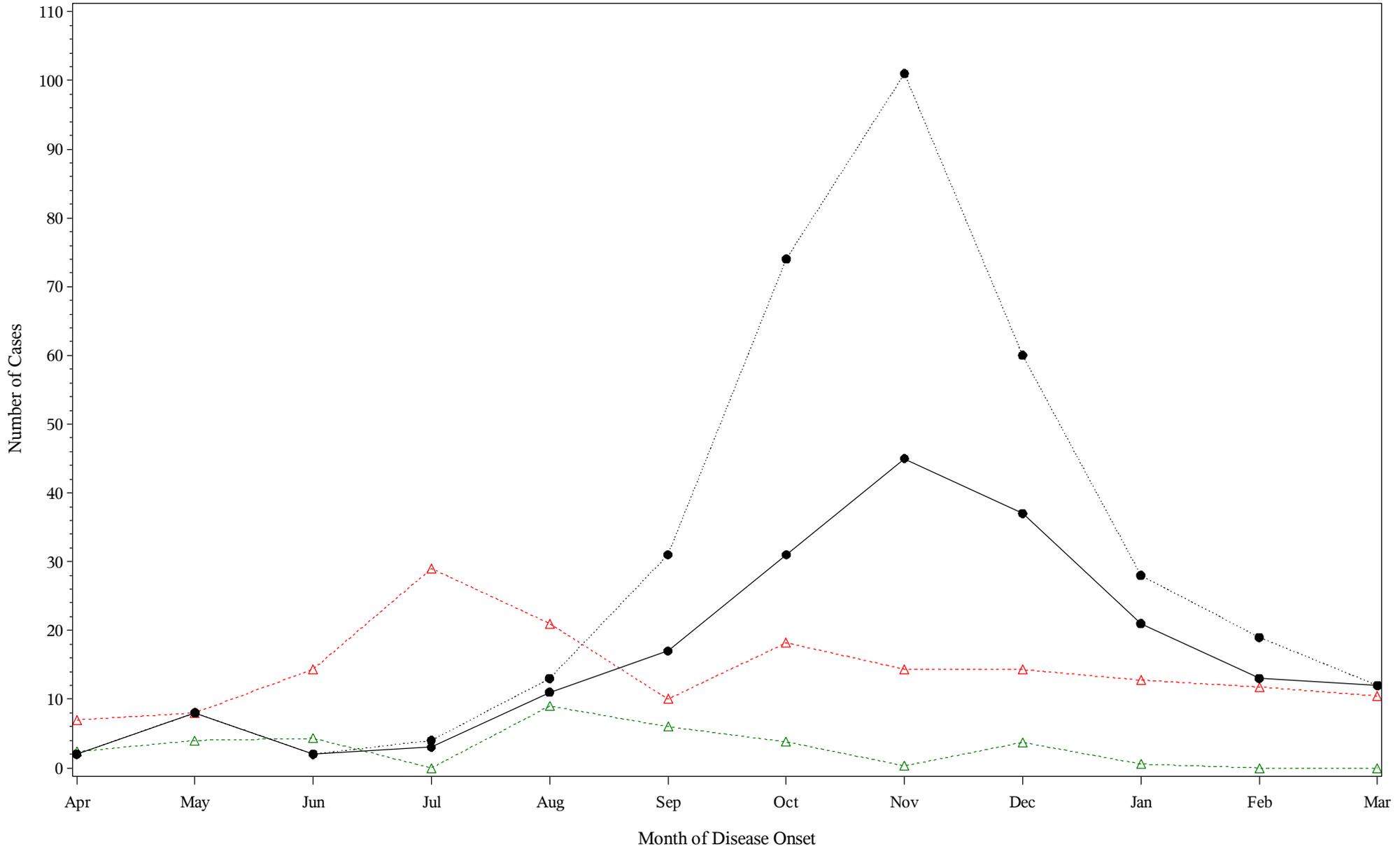


△ △ △ + 2 Standard Deviations     
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● ● ● 2013-2014 with Outbreak Cases     
 ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest      Pertussis



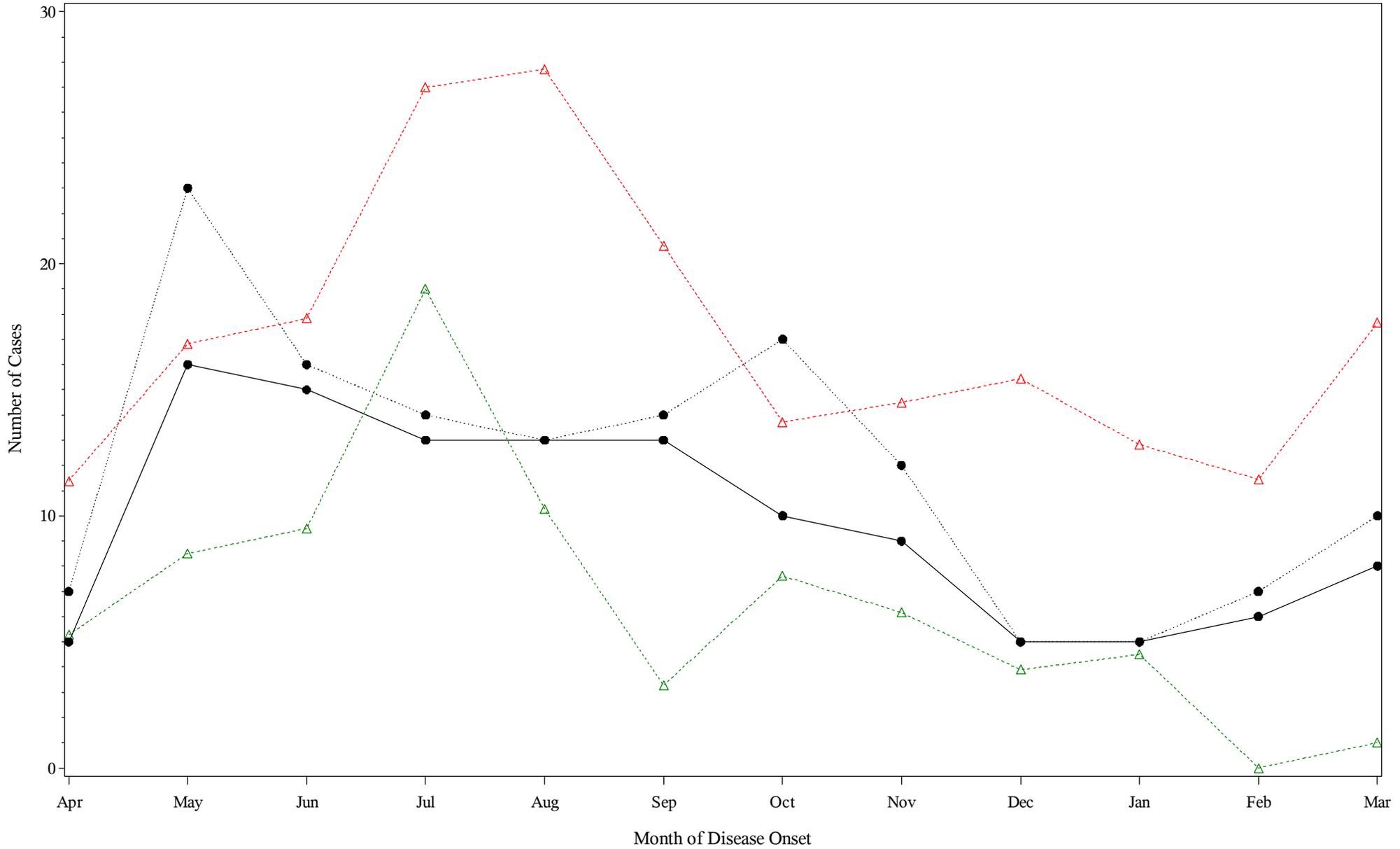
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest Salmonellosis



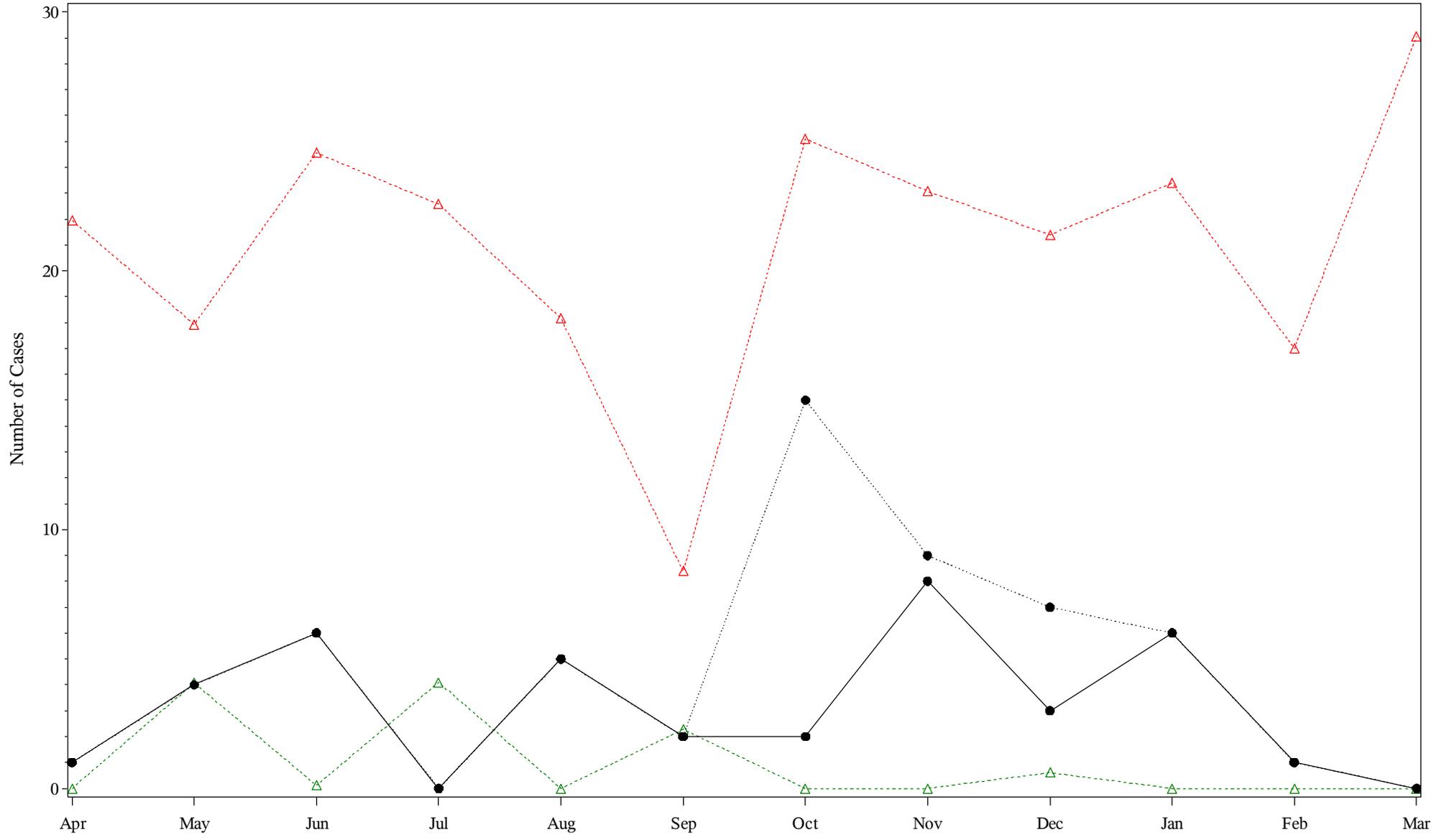
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 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest Shigellosis

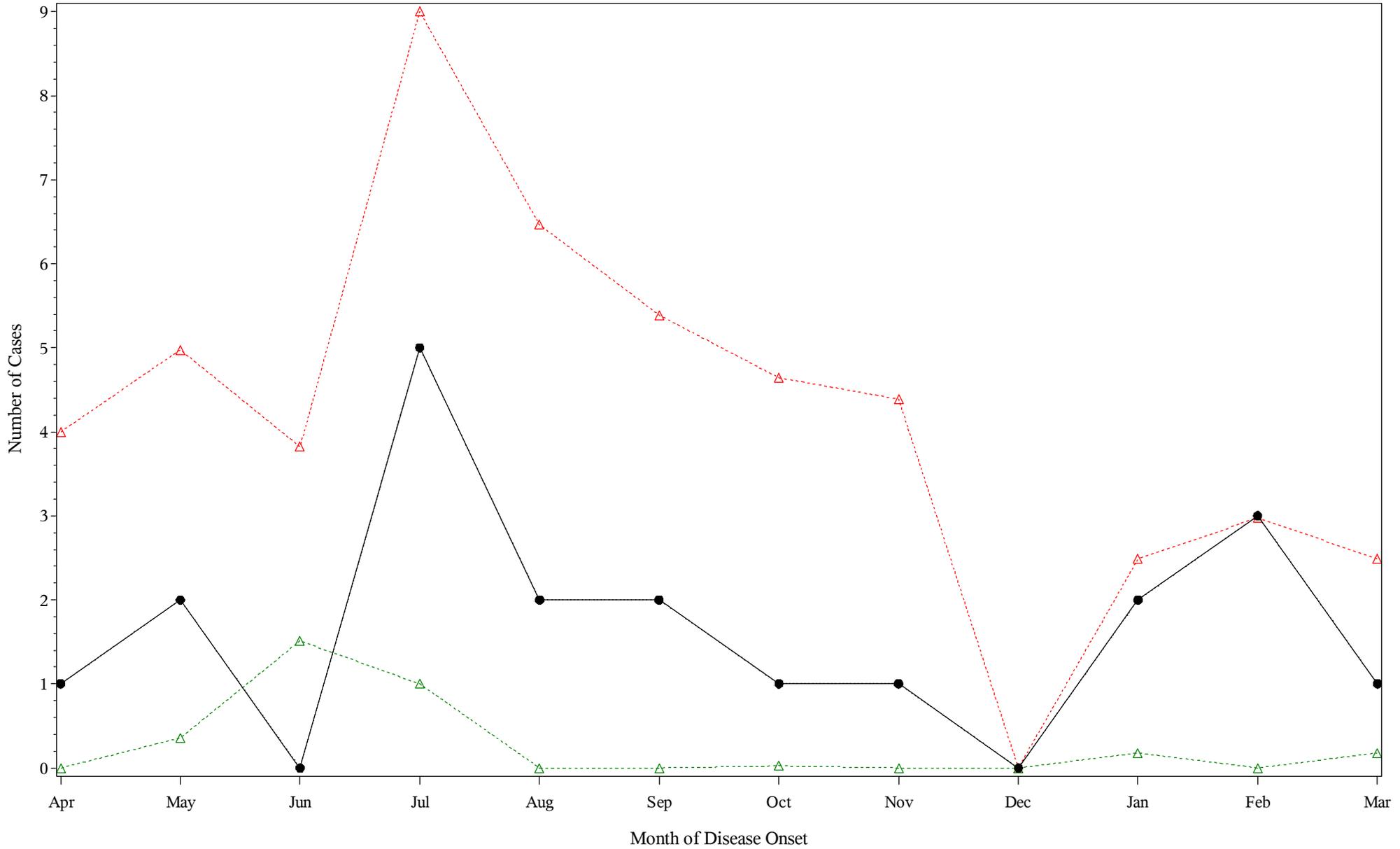


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Southwest Shiga Toxin-Producing Escherichia coli



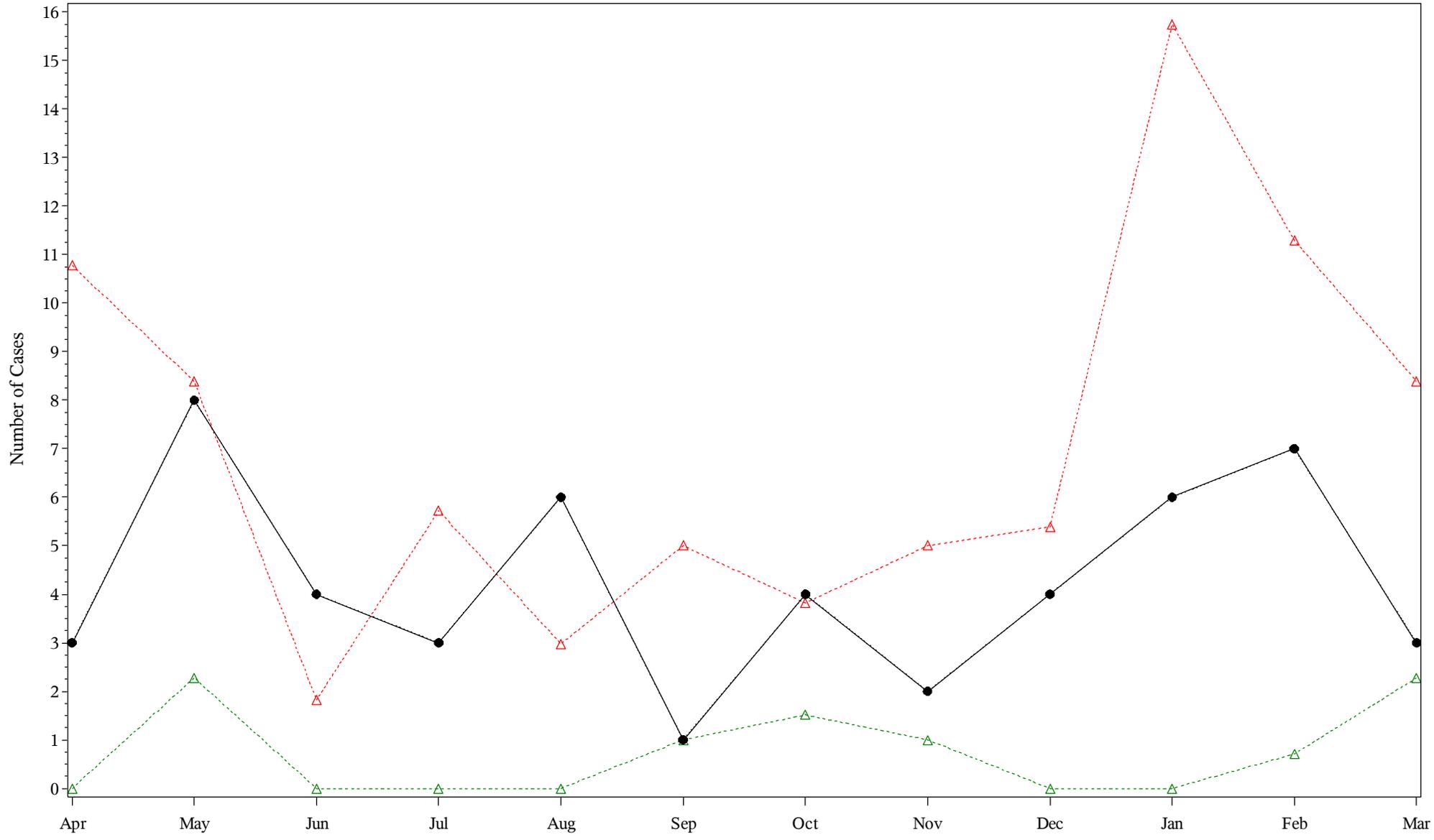
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Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014

Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest Streptococcal Disease, Group A, Invasive

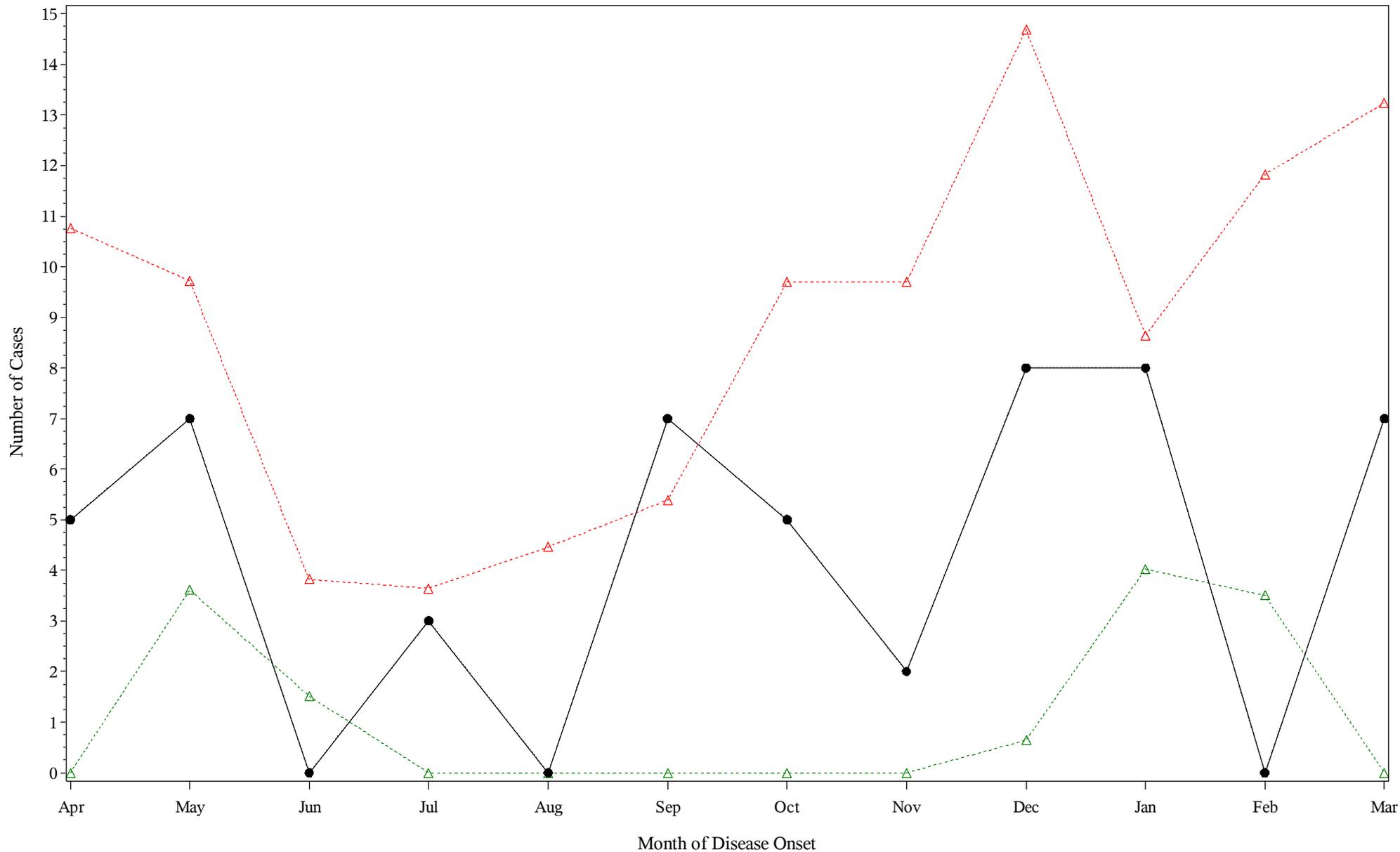


△ △ △ + 2 Standard Deviations      △ △ △ - 2 Standard Deviations  
● ● ● 2013-2014 with Outbreak Cases      ● ● ● 2013-2014 without Outbreak Cases

Baseline Trends are 2 Standard Deviations of Mean Counts from 2010-2012  
 Current as of 07/20/2014  
 Source: Ohio Department of Health Bureau of Infectious Diseases

# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest      Streptococcus pneumoniae, Invasive, Drug Resistant/Intermediate

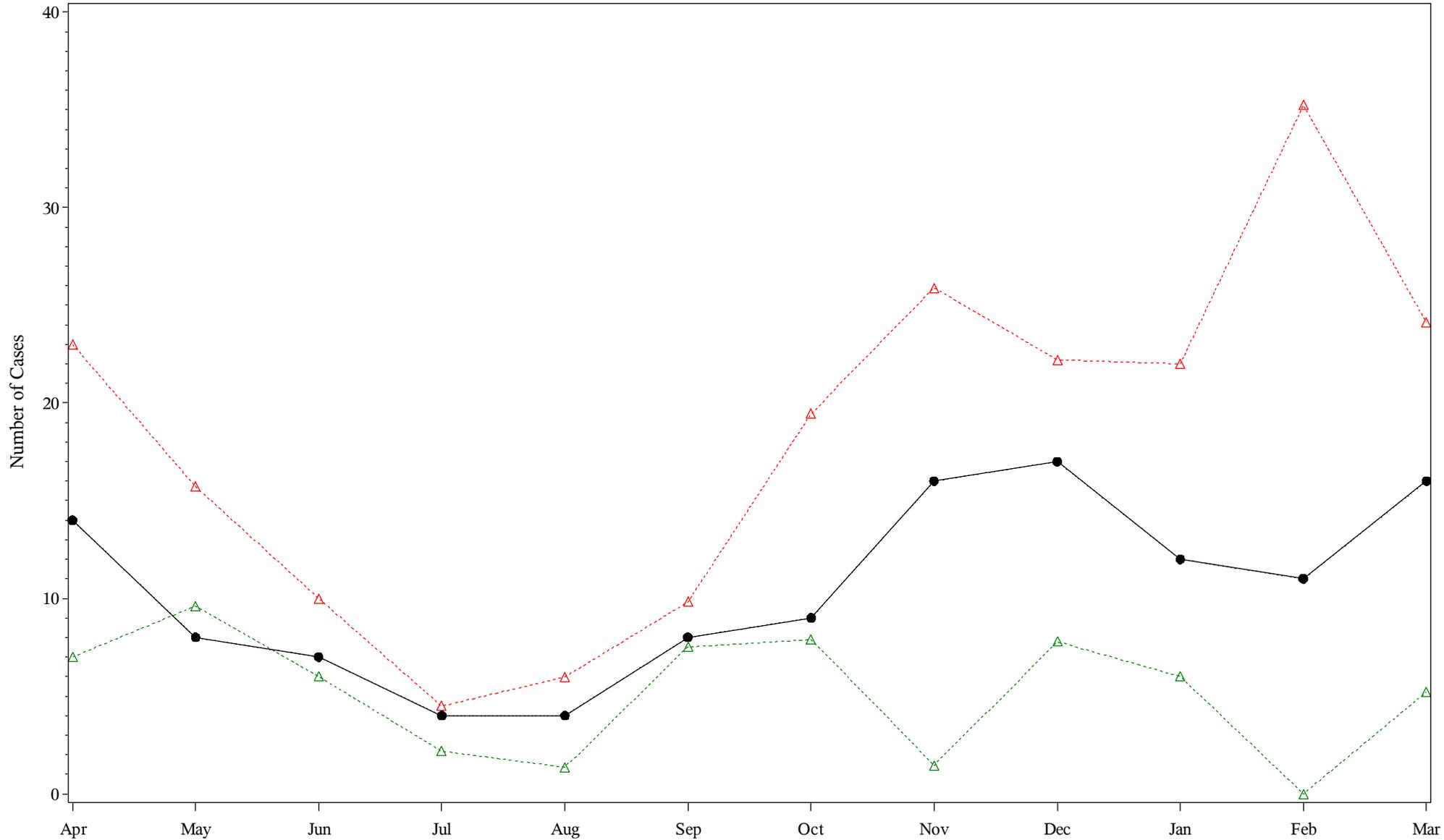


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 Current as of 07/20/2014  
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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest      Streptococcus pneumoniae, Invasive, Drug Susceptible/Unknown

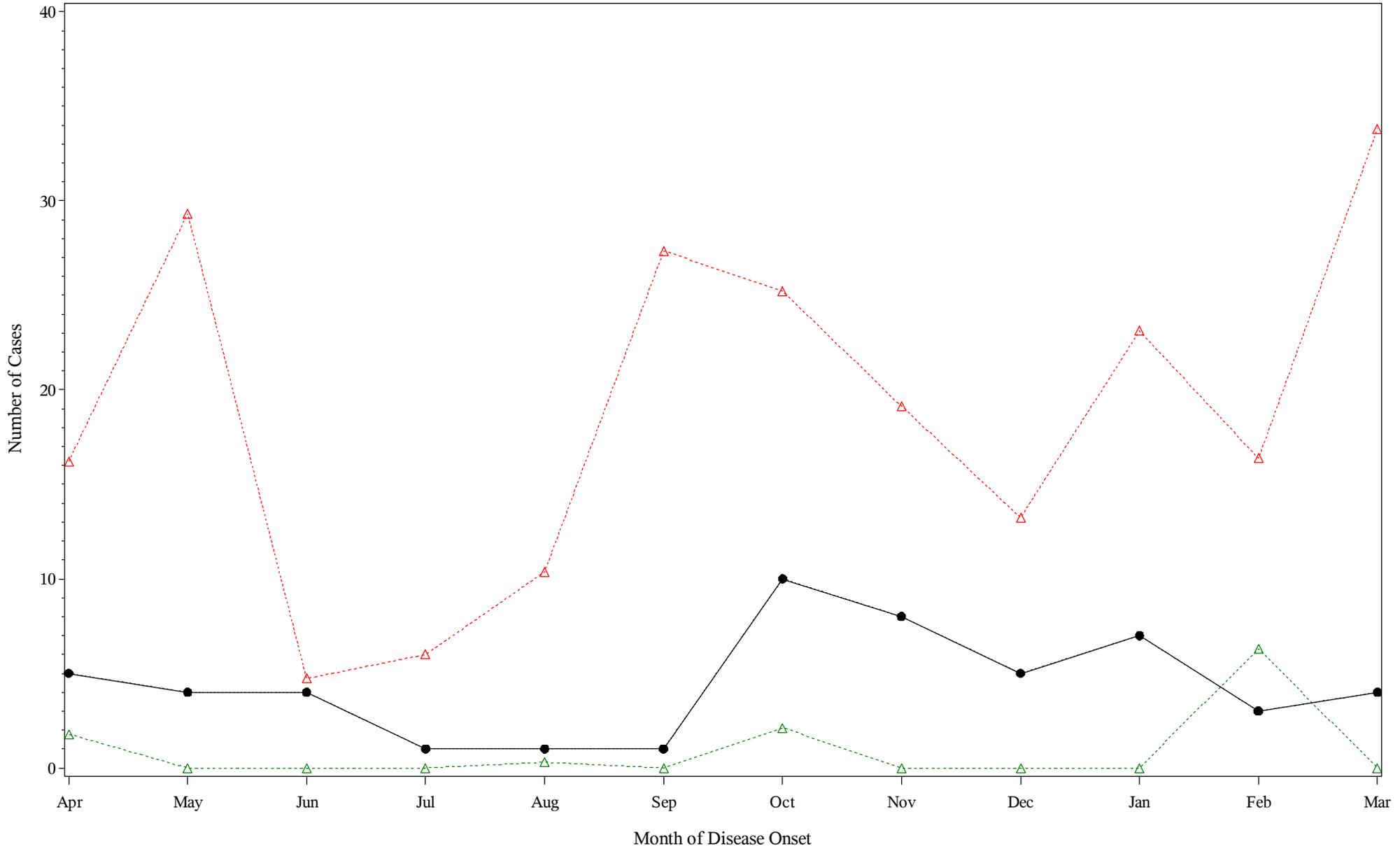


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

Southwest Varicella



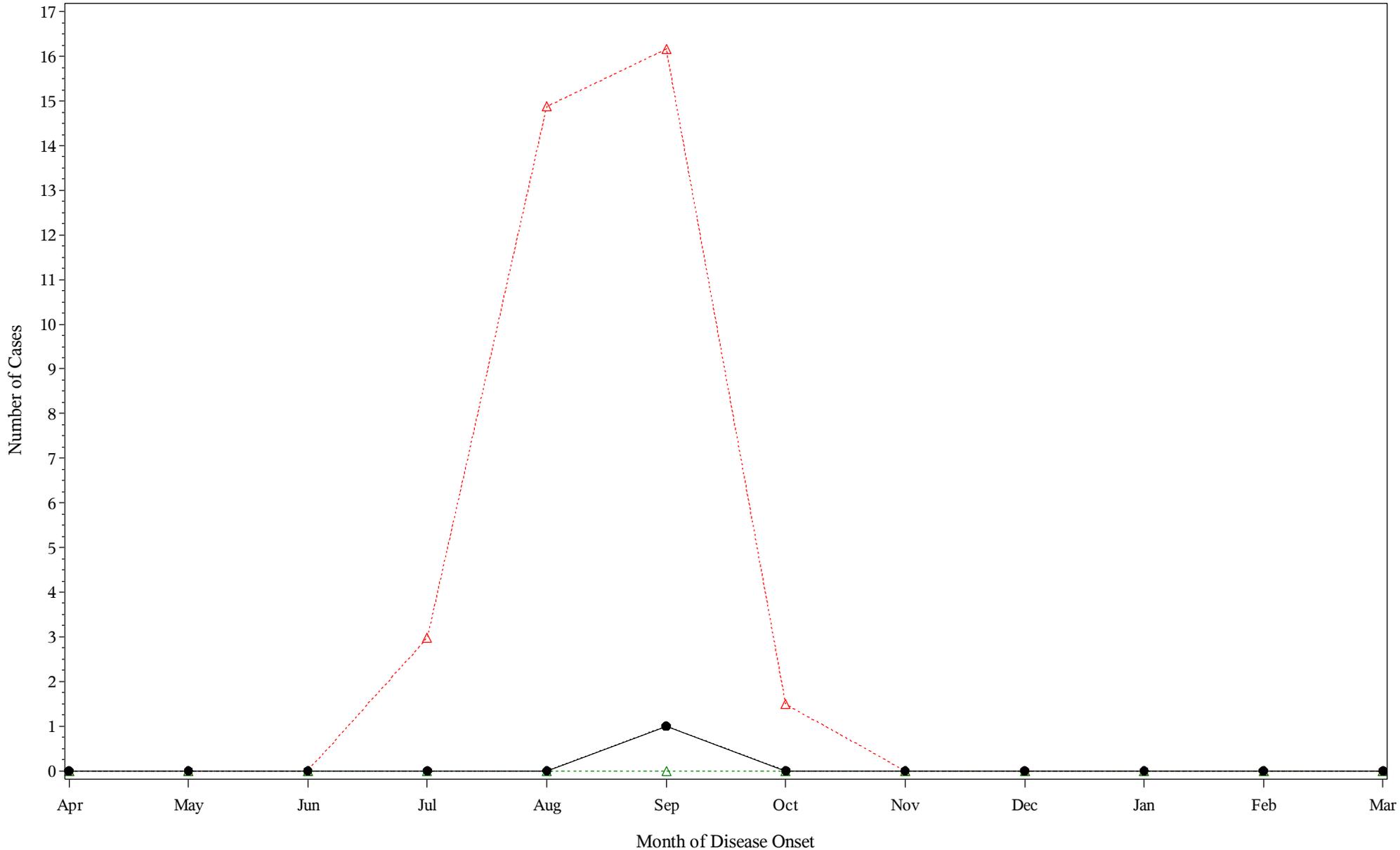
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 Current as of 07/20/2014

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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## Southwest West Nile Virus Disease

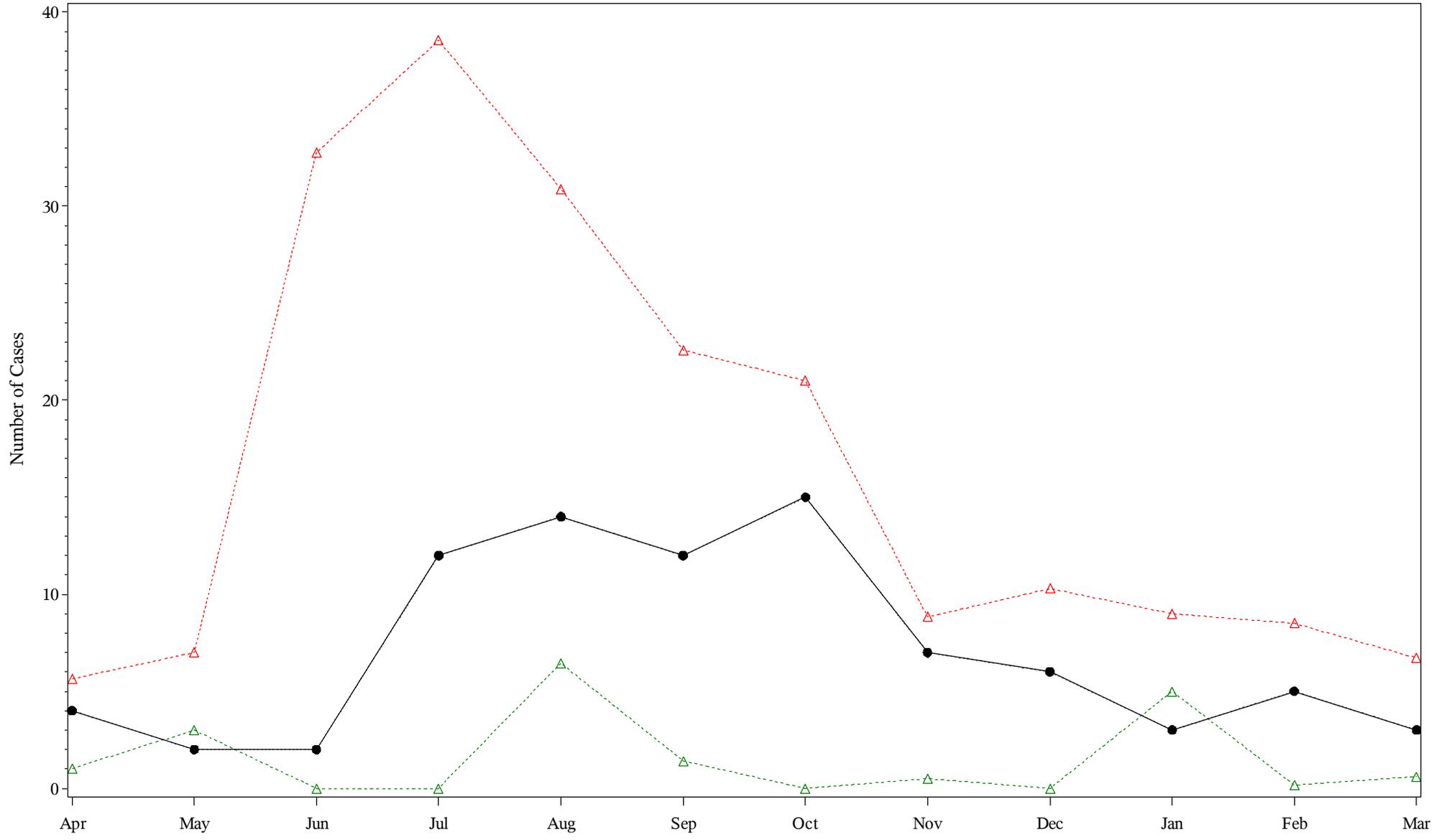


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## West Central      Aseptic Meningitis

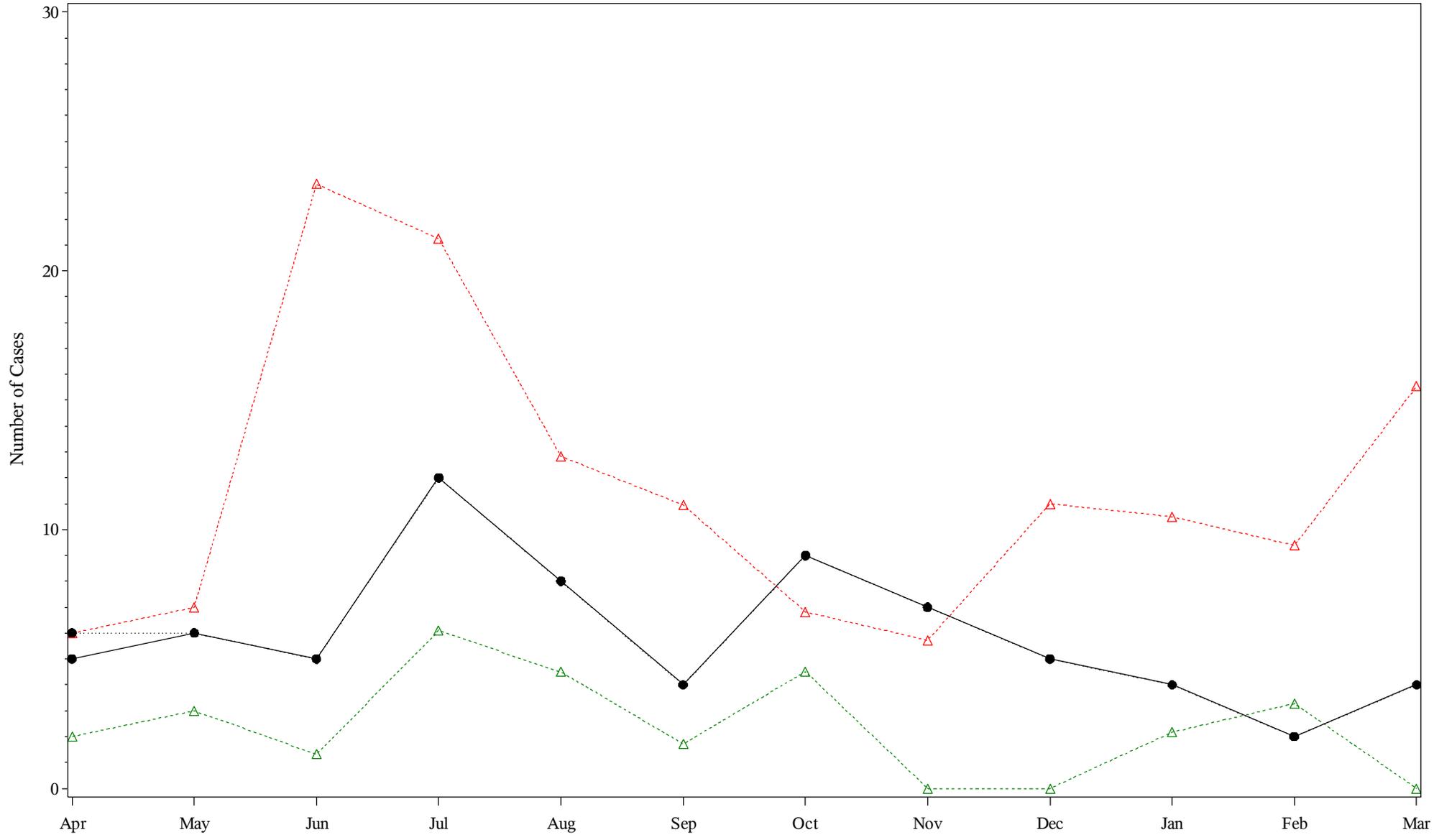


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## West Central      Campylobacteriosis

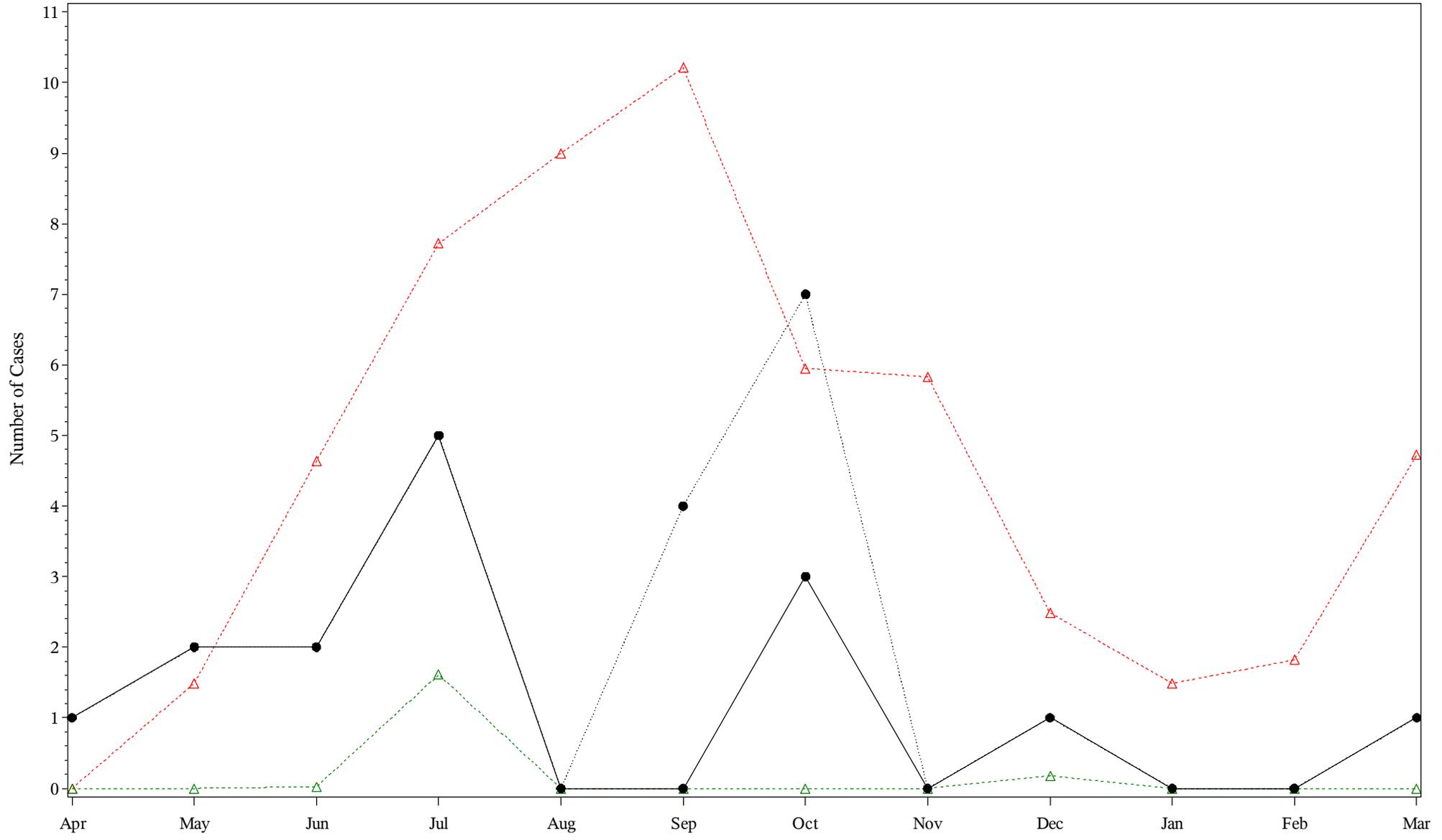


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## West Central      Cryptosporidiosis

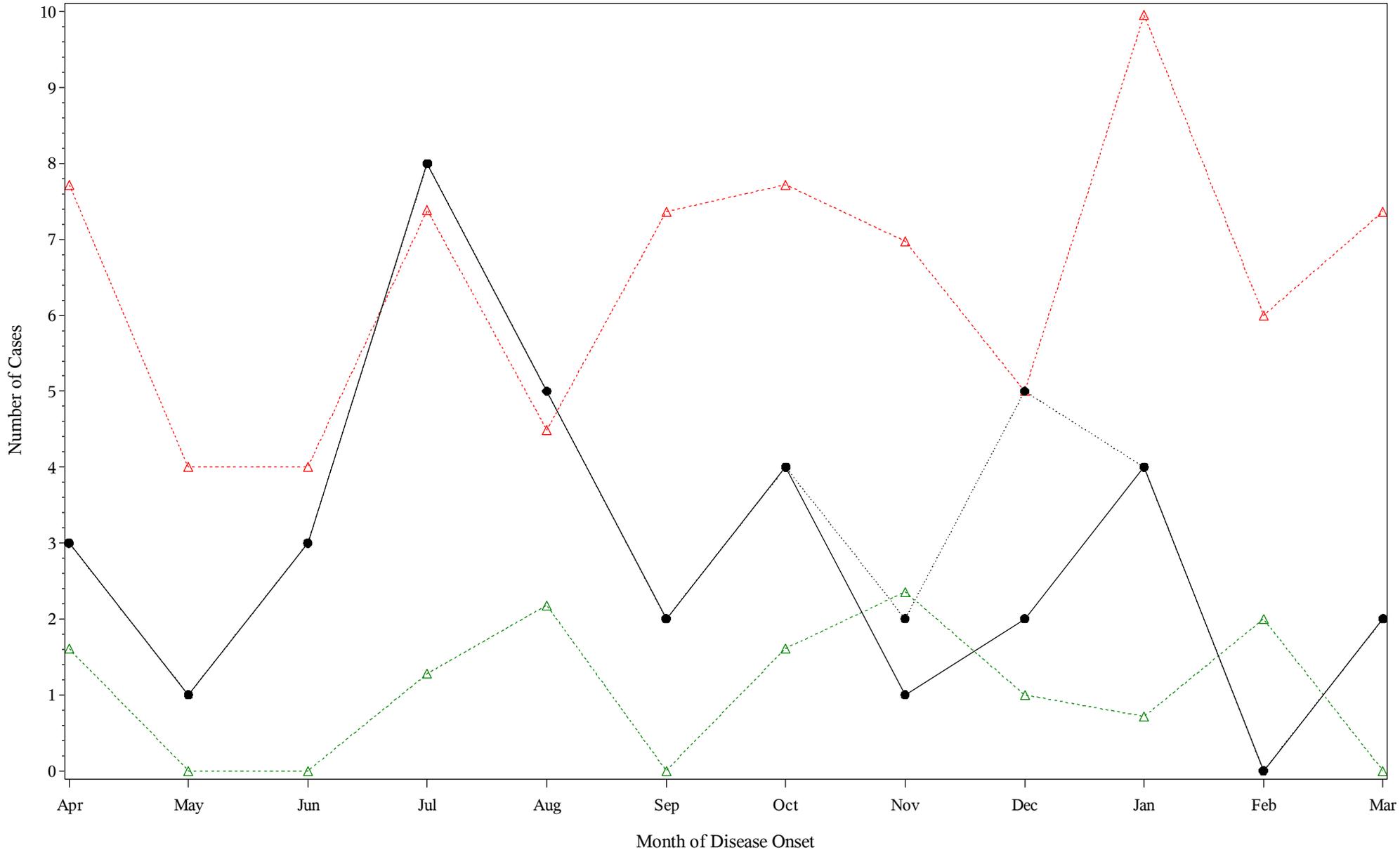


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## West Central      Giardiasis

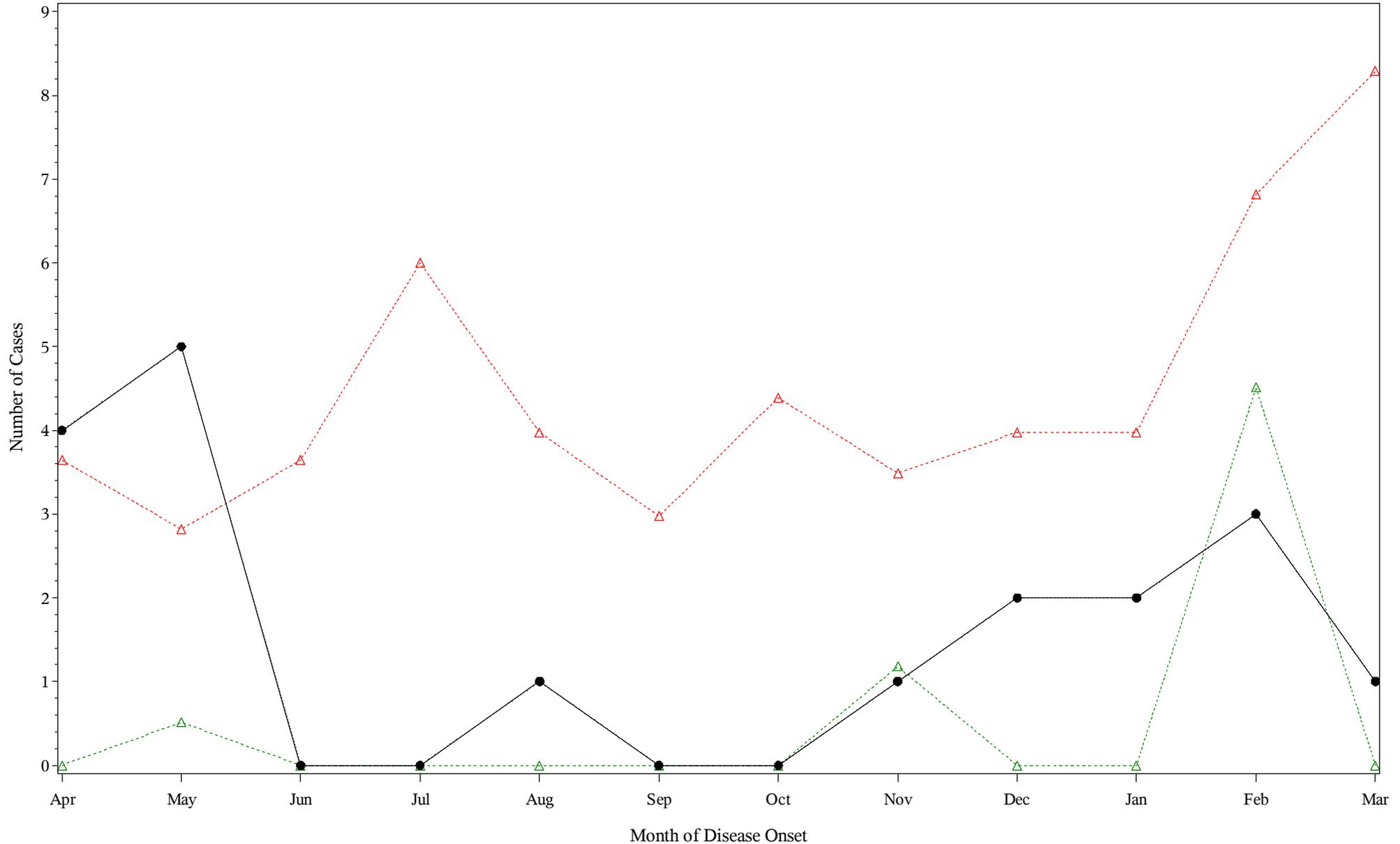


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## West Central      Haemophilus influenzae, Invasive

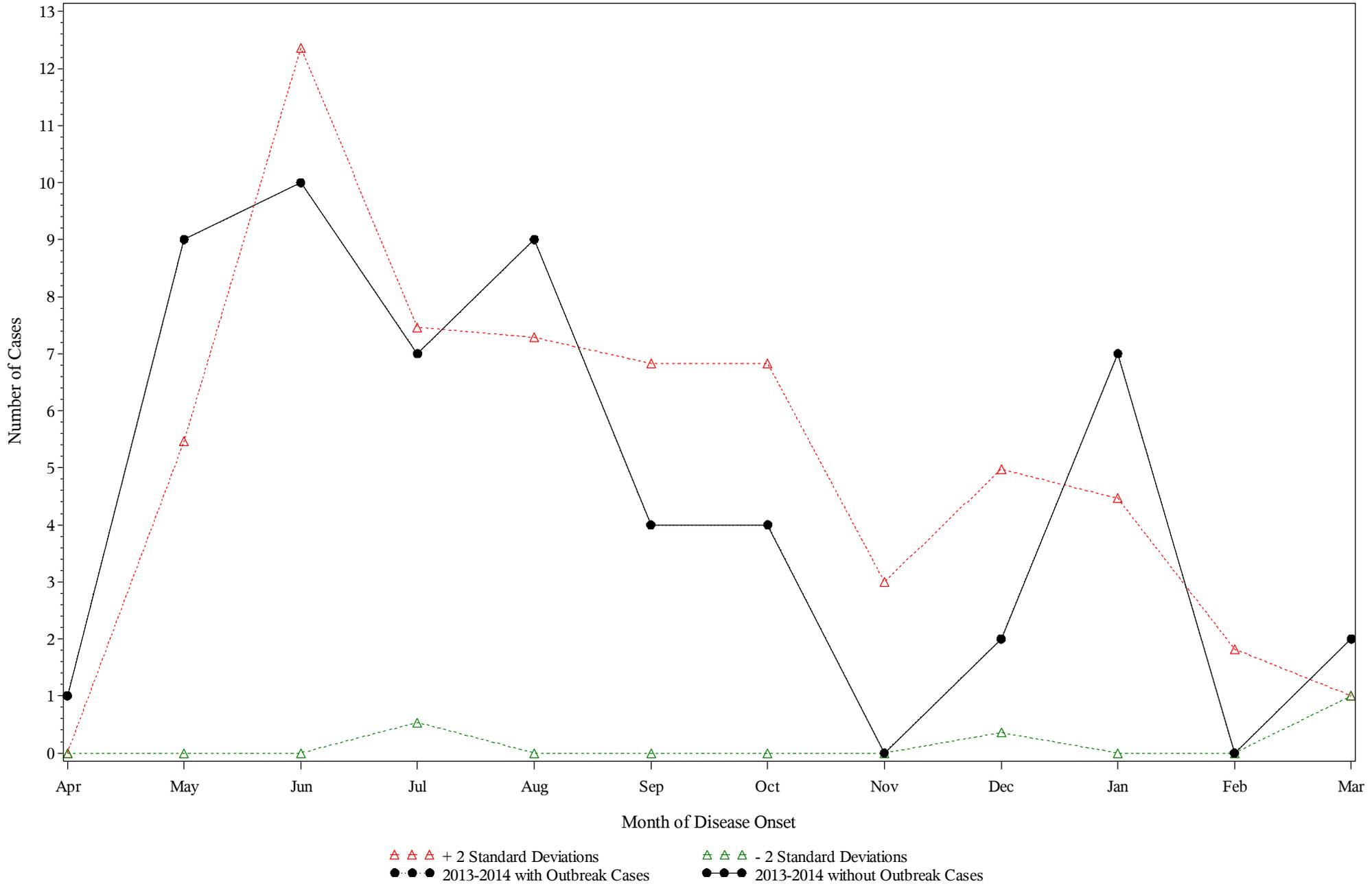


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

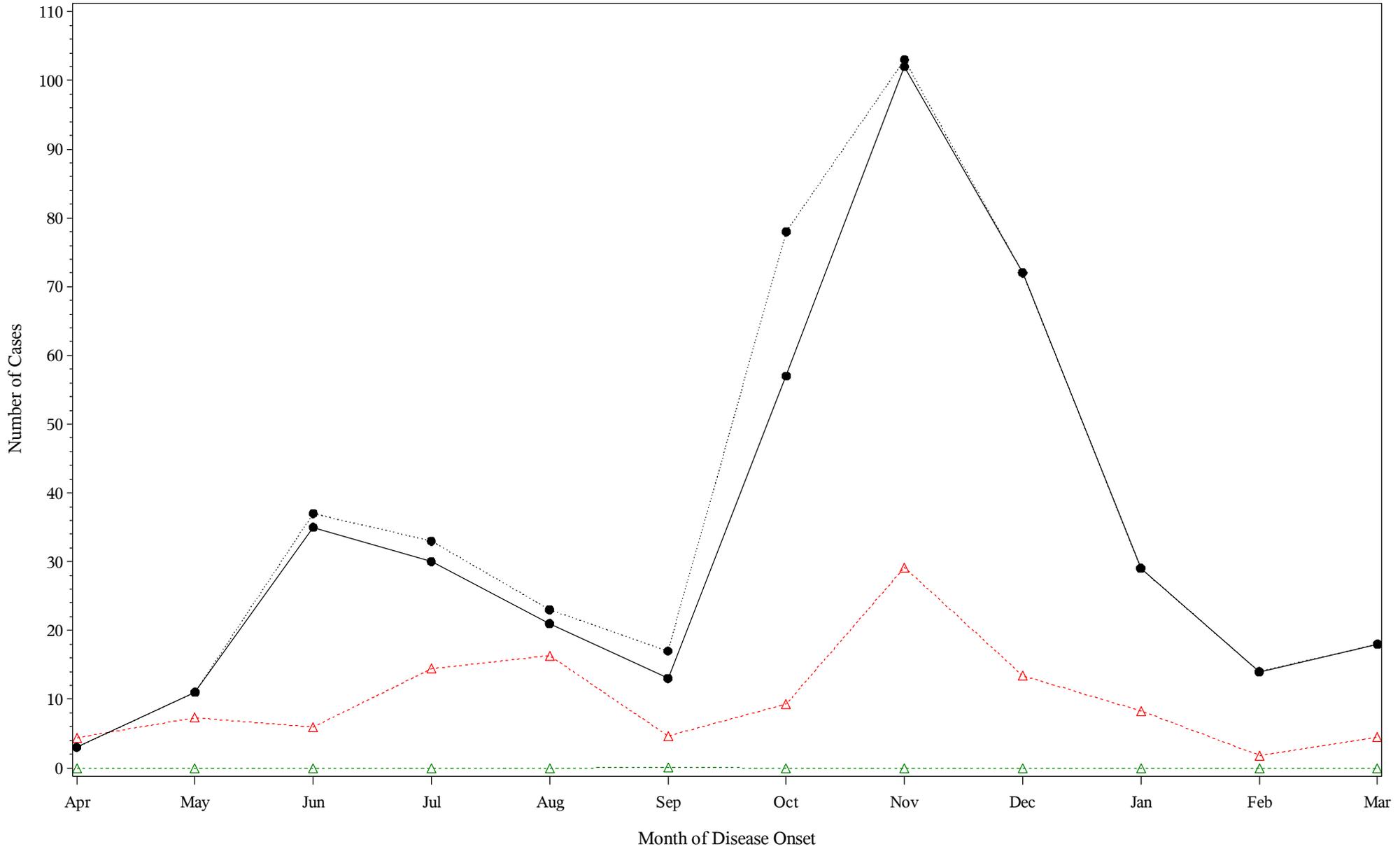
## West Central      Legionellosis



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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## West Central      Pertussis

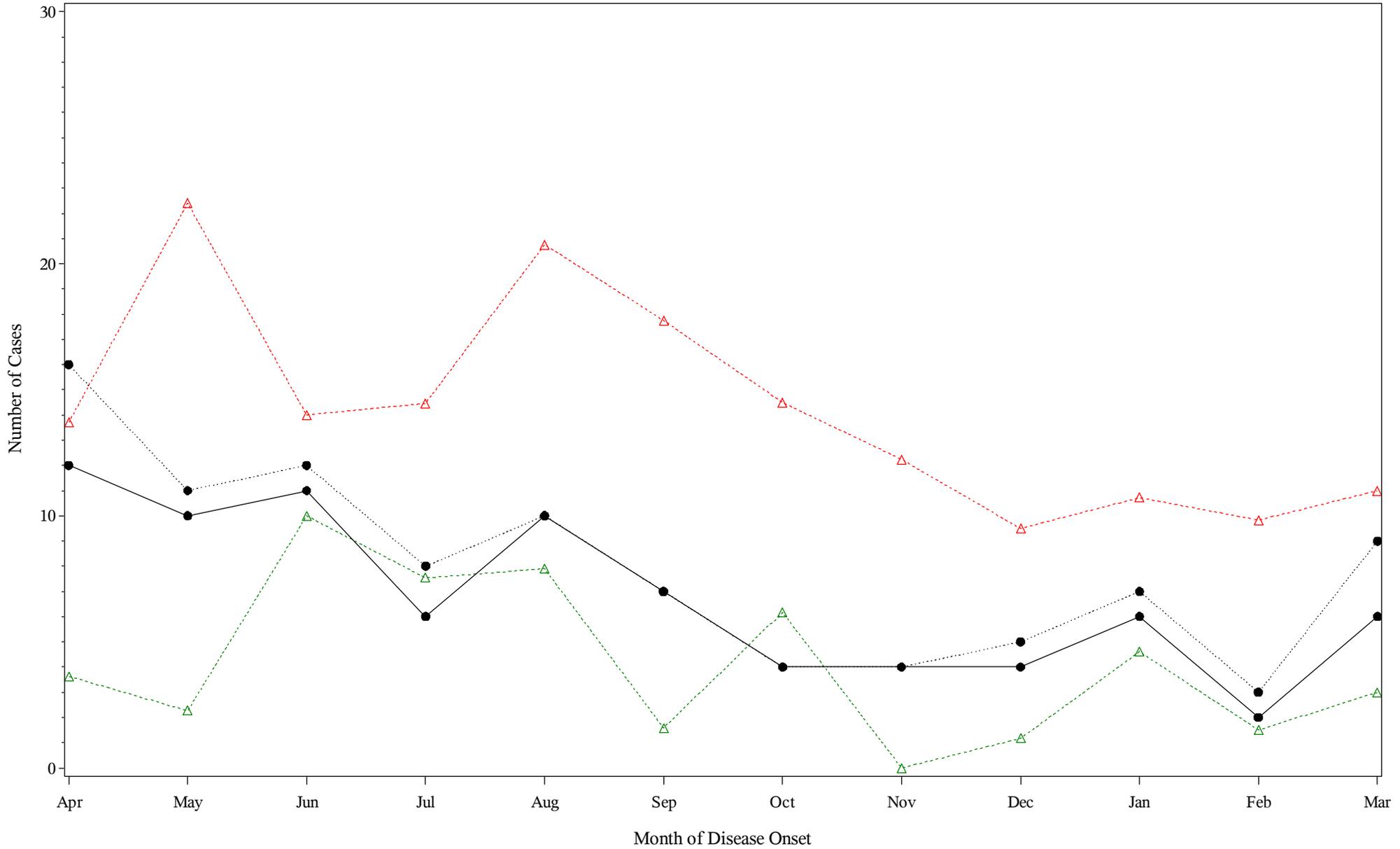


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## West Central Salmonellosis



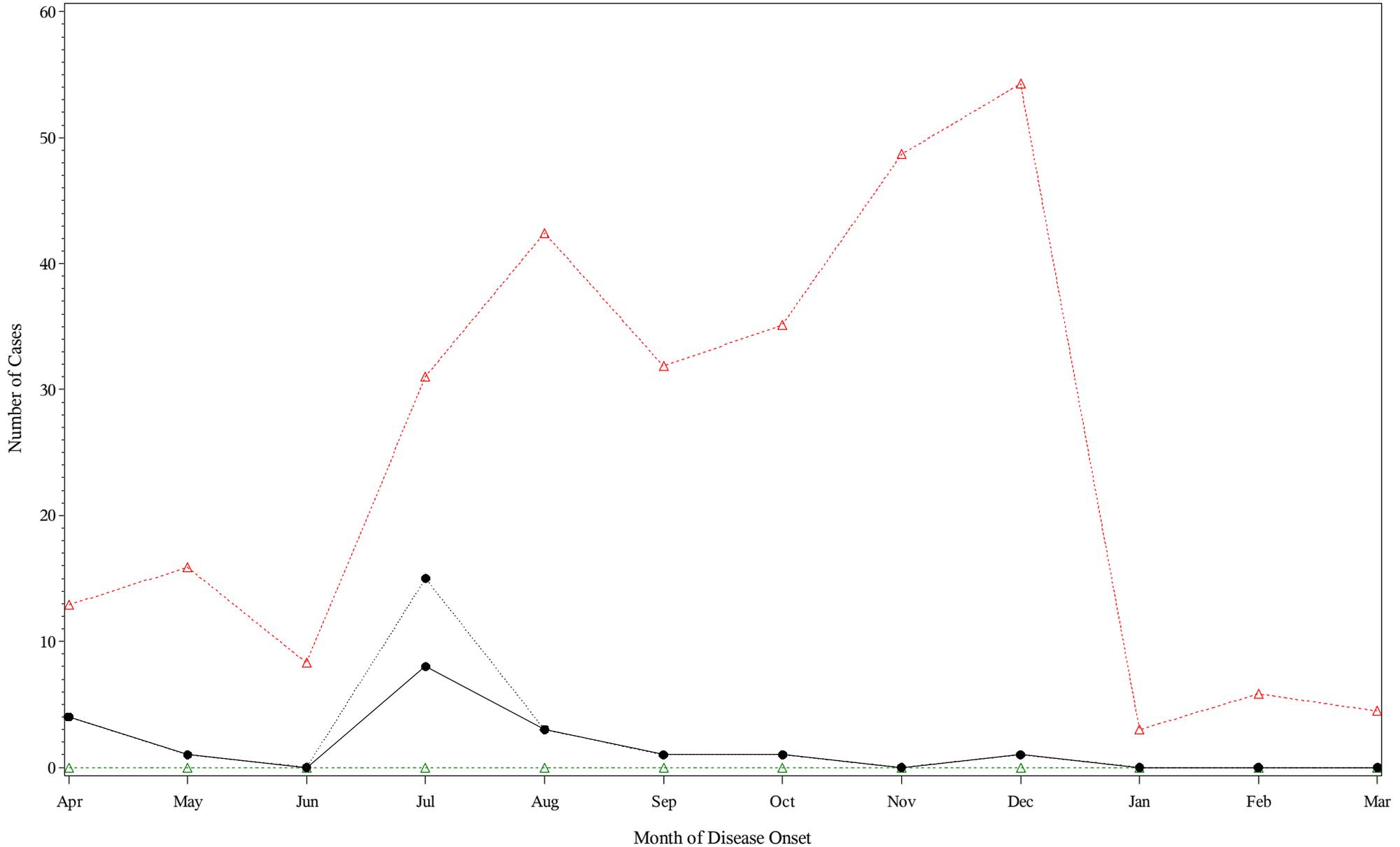
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 Current as of 07/20/2014

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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## West Central      Shigellosis



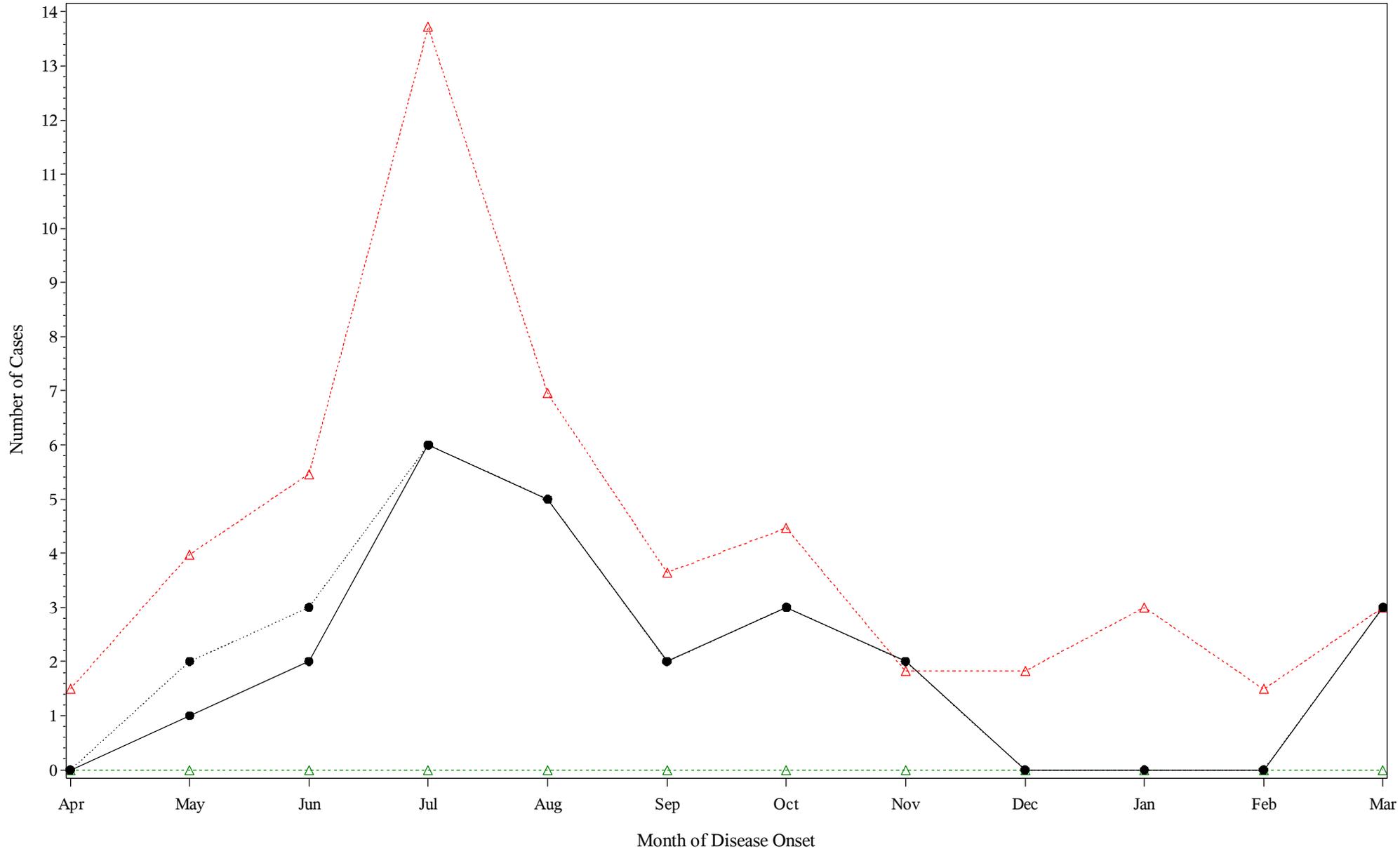
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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## West Central Shiga Toxin-Producing Escherichia coli

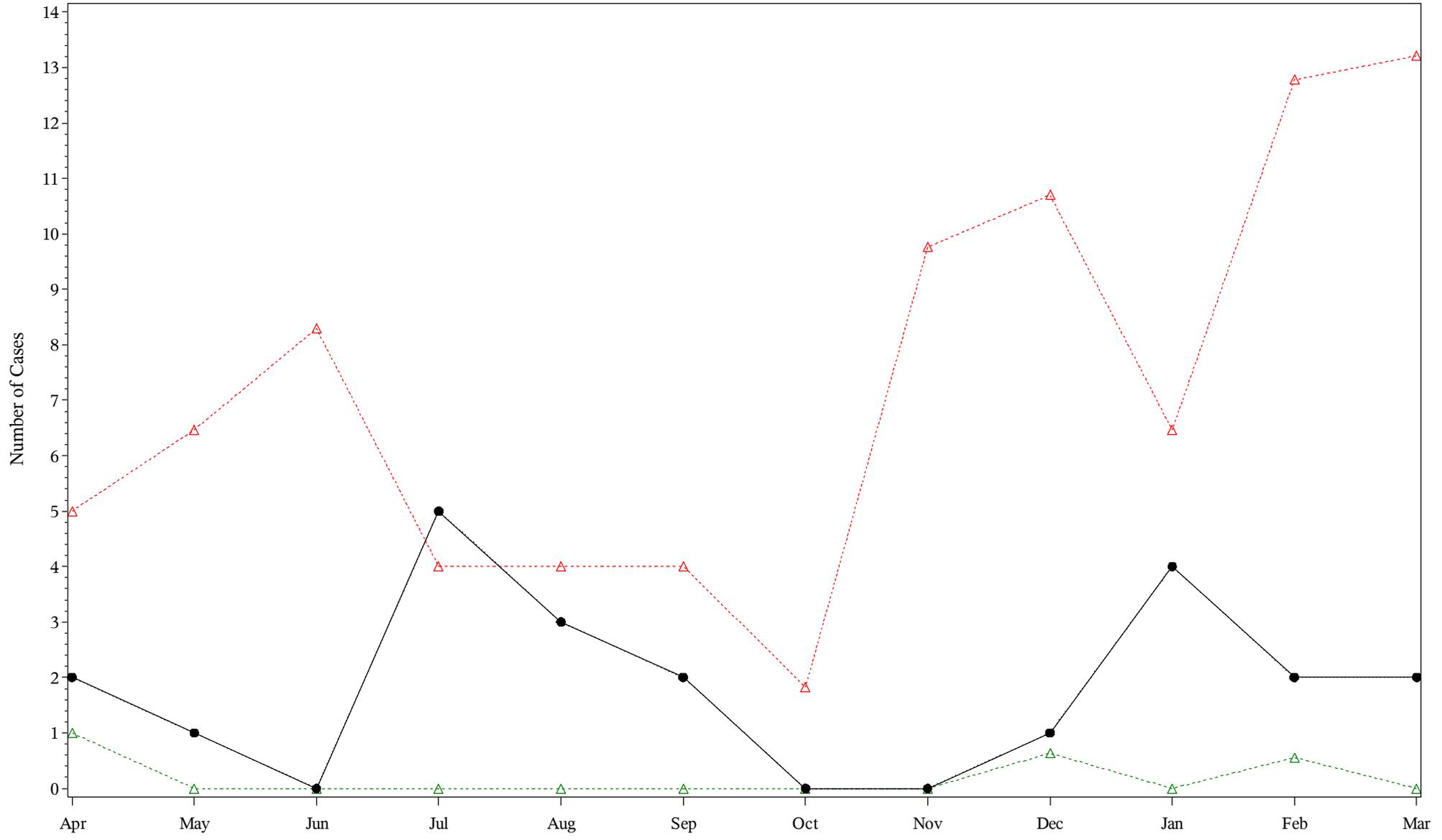


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## West Central      Streptococcal Disease, Group A, Invasive

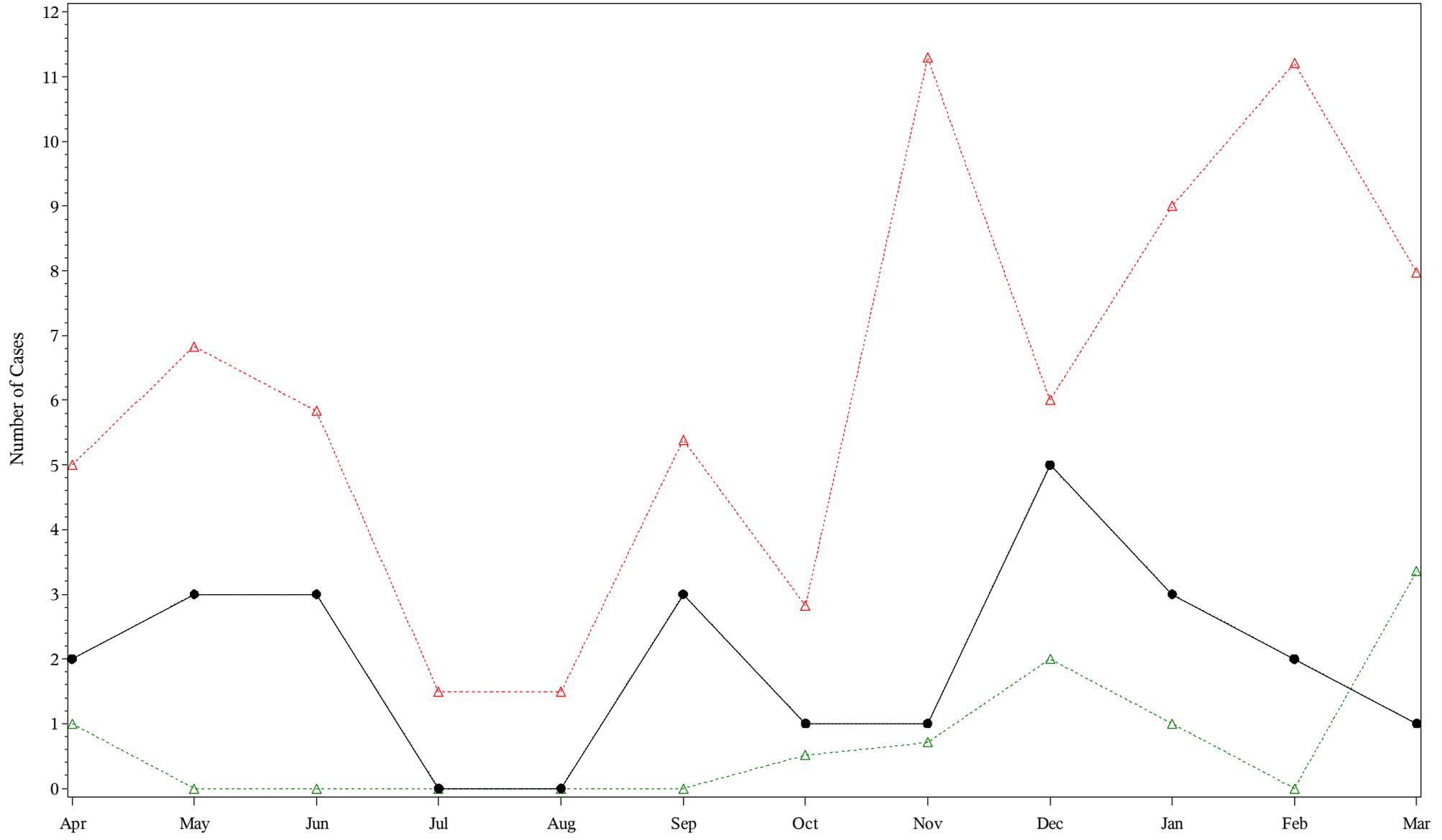


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## West Central      Streptococcus pneumoniae, Invasive, Drug Resistant/Intermediate

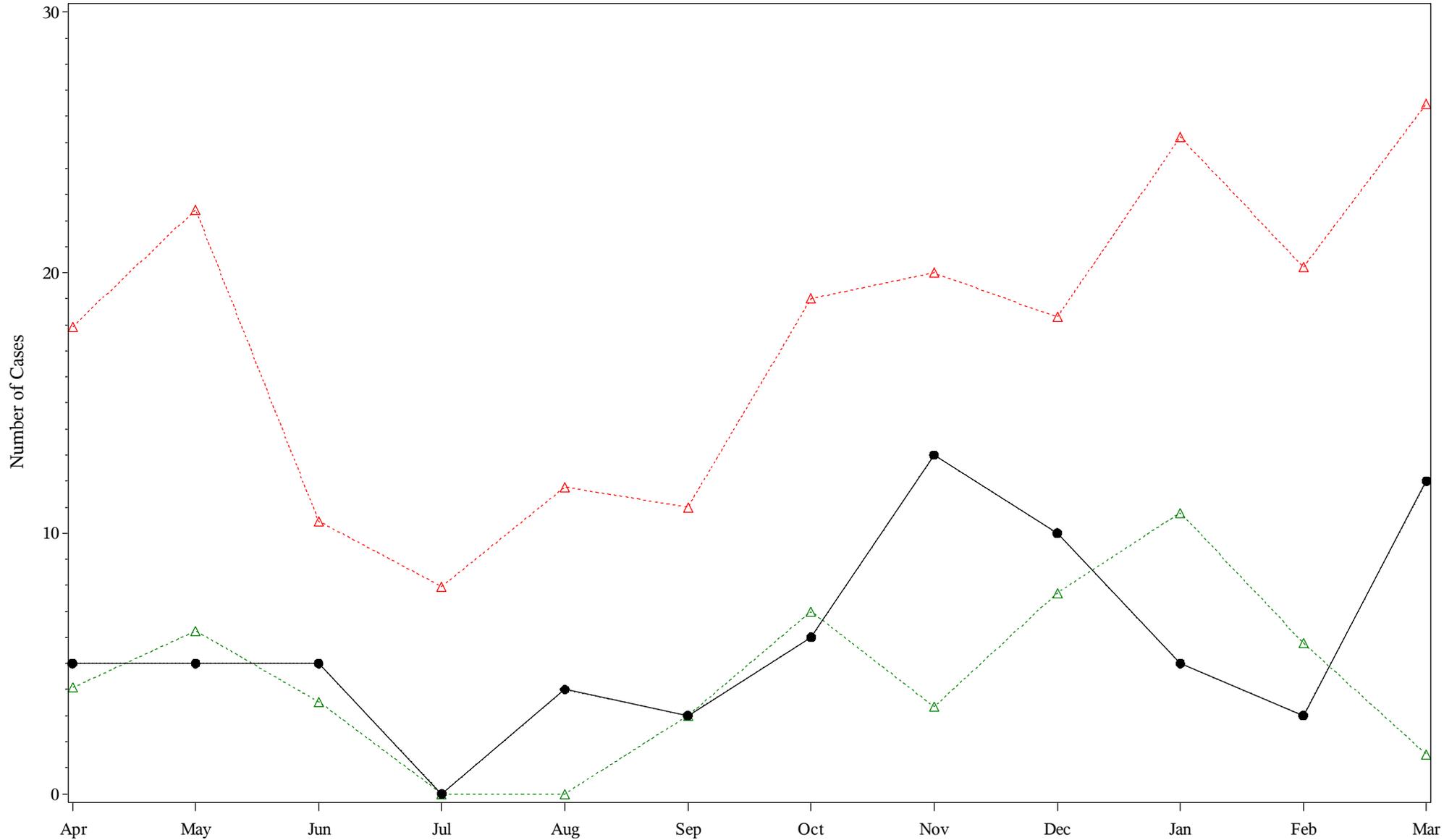


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# Quarterly Surveillance Trends by Ohio Public Health Region and Disease, 2013-2014

## West Central      Streptococcus pneumoniae, Invasive, Drug Susceptible/Unknown

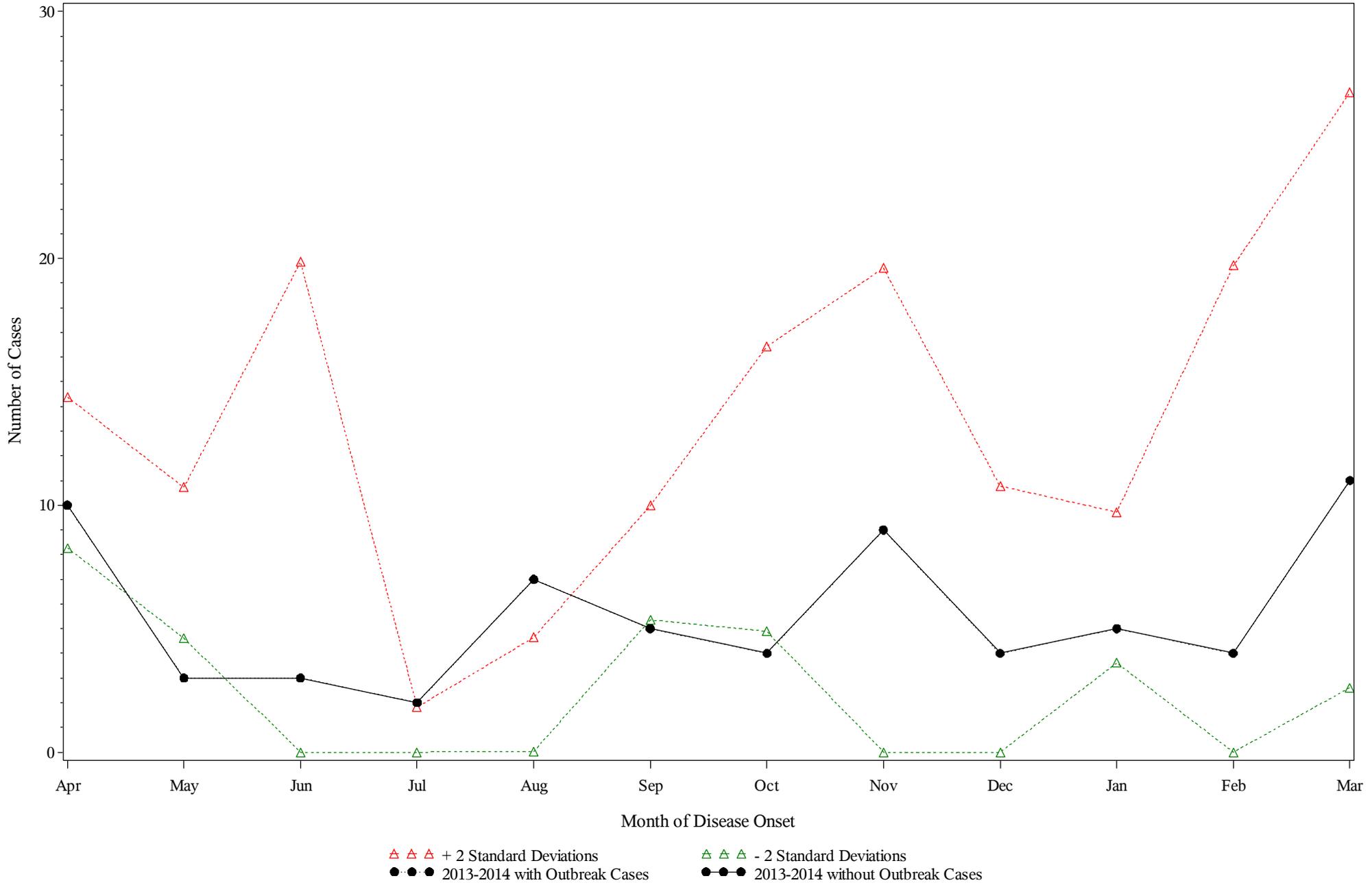


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## West Central      Varicella

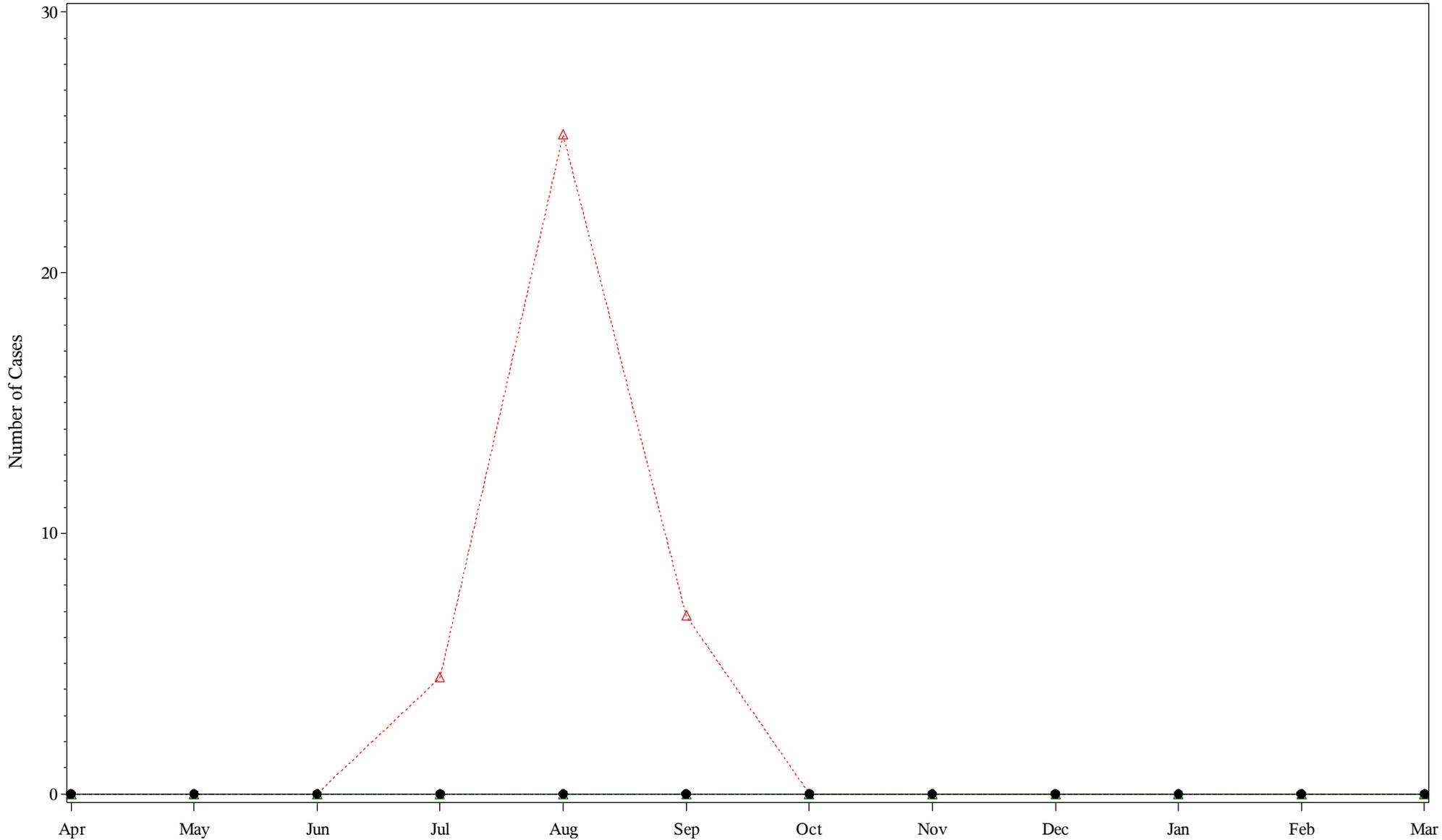


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## West Central West Nile Virus Disease



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