

The Years in Review

2019/2020

2020/2021

2021/2022

Wisconsin State Laboratory of Hygiene

June 27, 2022

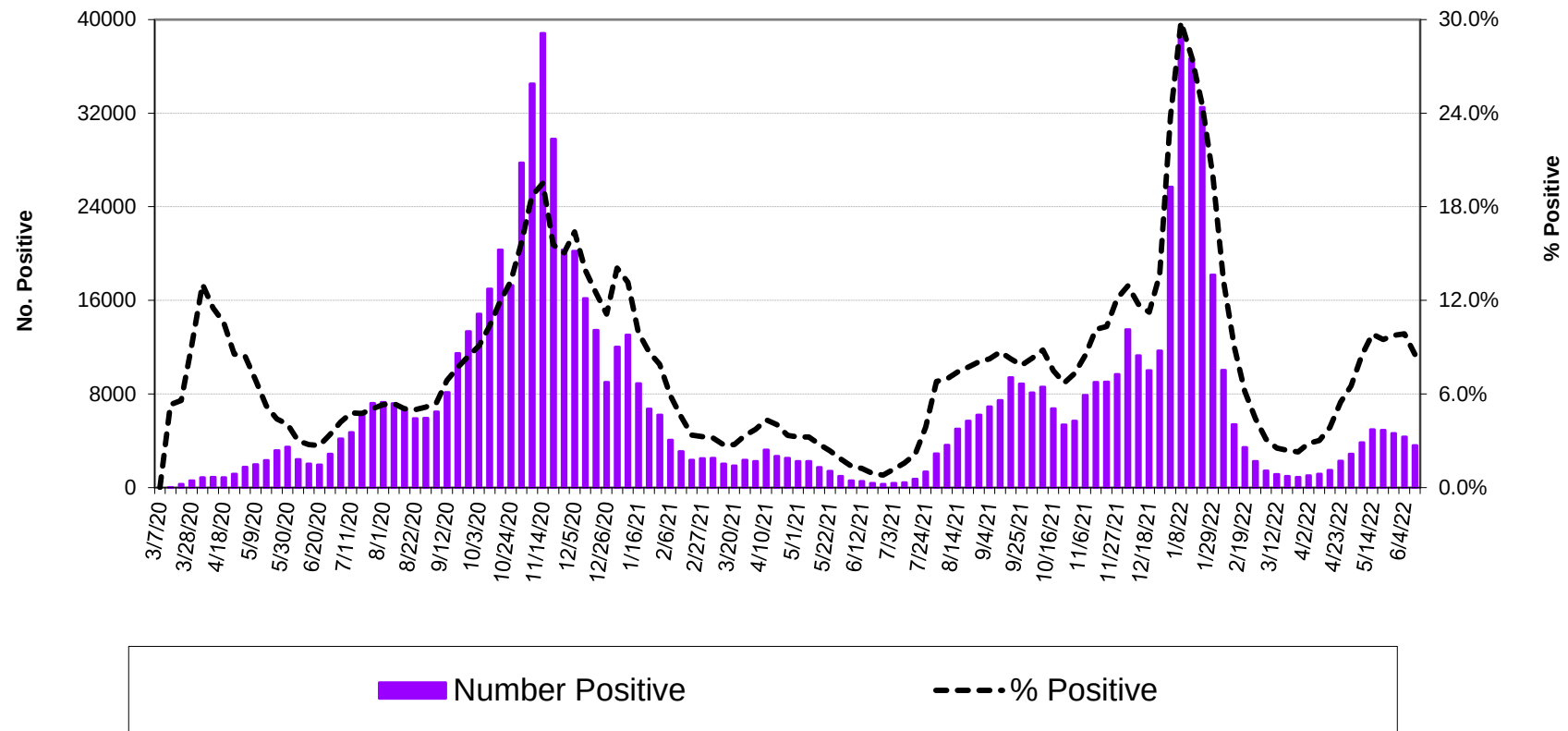
Mary Wedig

mary.wedig@slh.wisc.edu

608-224-4274

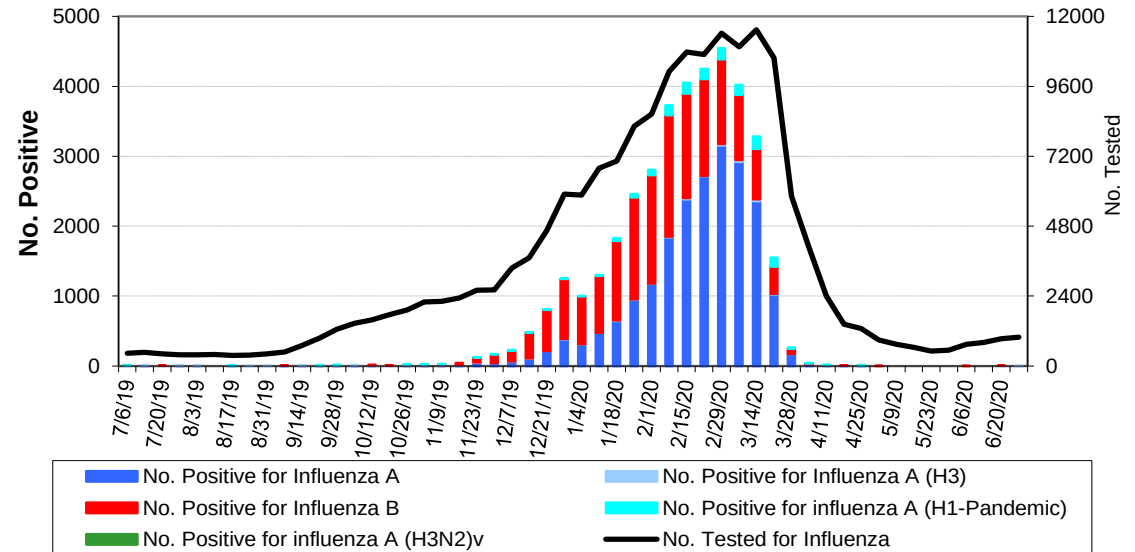
SARS-CoV-2 PCR

Number of Specimens Tested, Positive and the Percent Positive for COVID-19 by PCR
at Wisconsin Laboratories

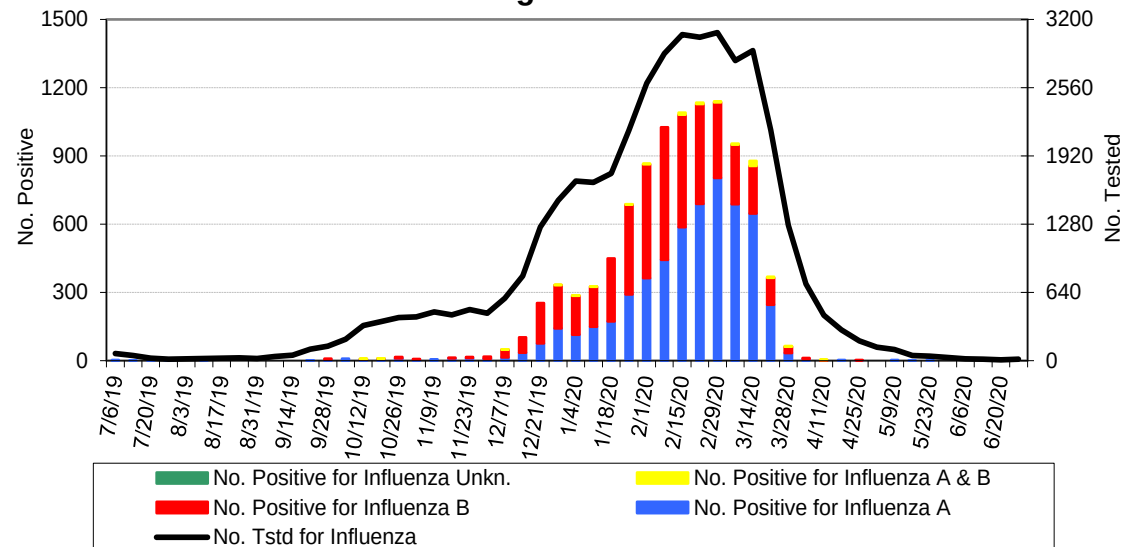


Influenza Positive and Number Tested 2019- 2020

Number of Specimens Tested and Positive for Influenza by
PCR at Wisconsin Laboratories

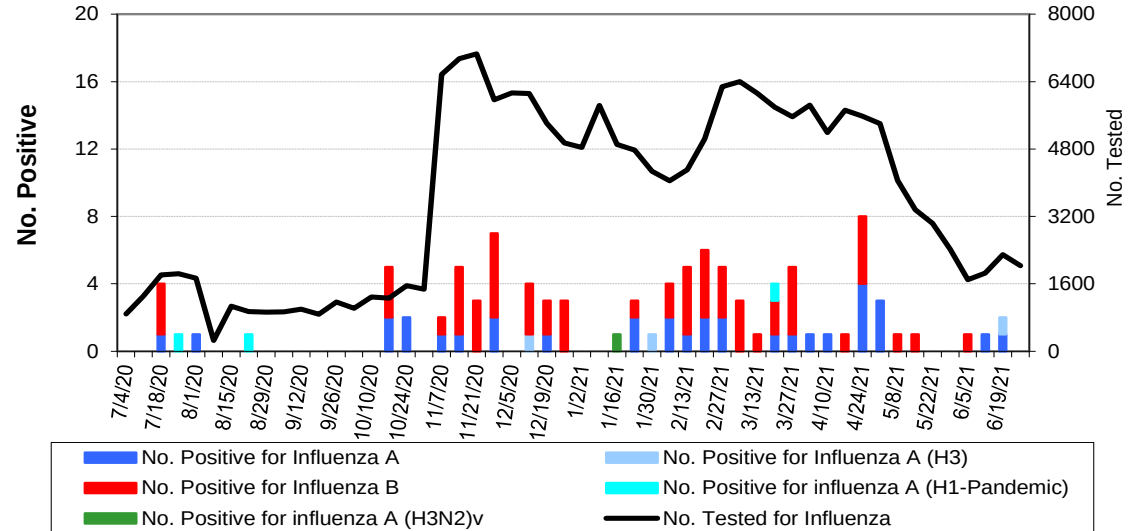


Number of Specimens Tested and Positive for Influenza by
Wisconsin Antigen Detection Sites

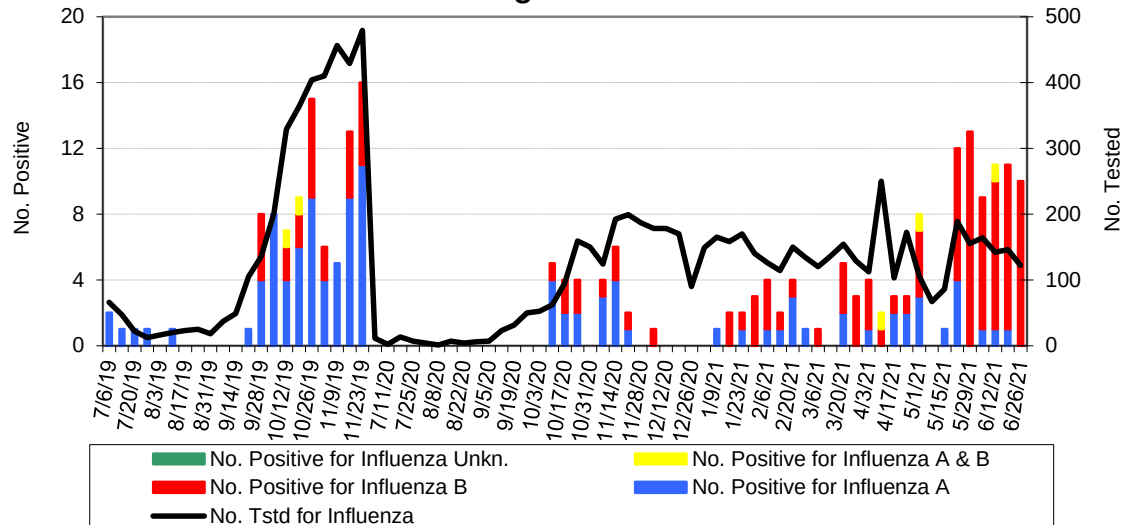


Influenza Positive and Number Tested 2020- 2021

Number of Specimens Tested and Positive for Influenza by
PCR at Wisconsin Laboratories

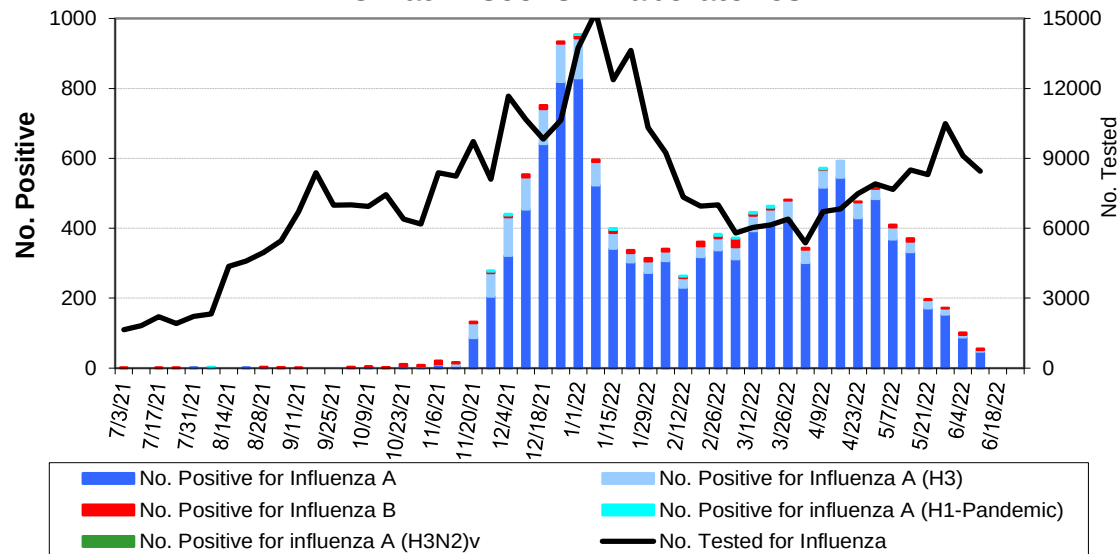


Number of Specimens Tested and Positive for Influenza by
Wisconsin Antigen Detection Sites

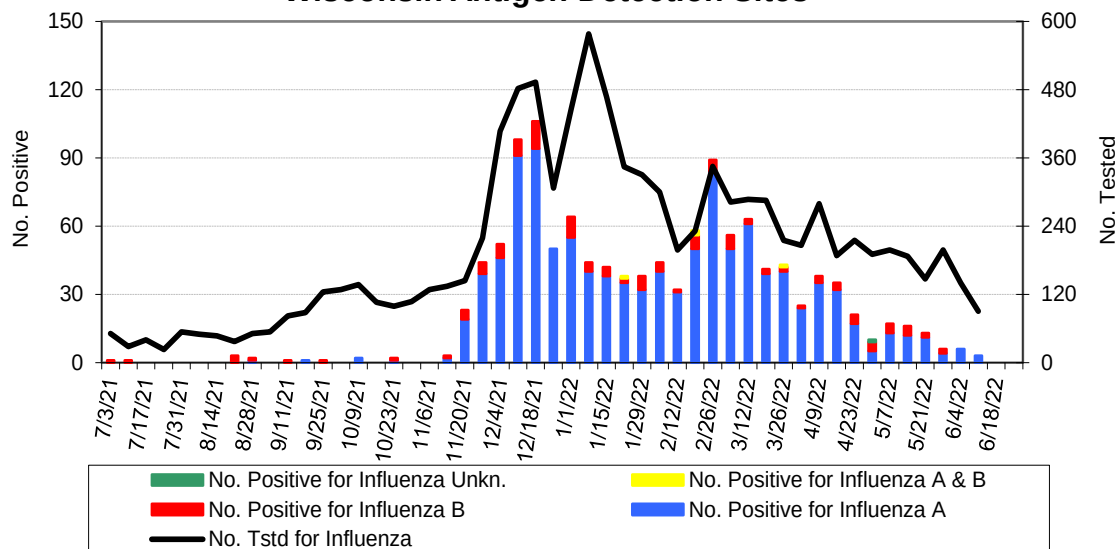


Influenza Positive and Number Tested 2021- 2022

Number of Specimens Tested and Positive for Influenza by
PCR at Wisconsin Laboratories

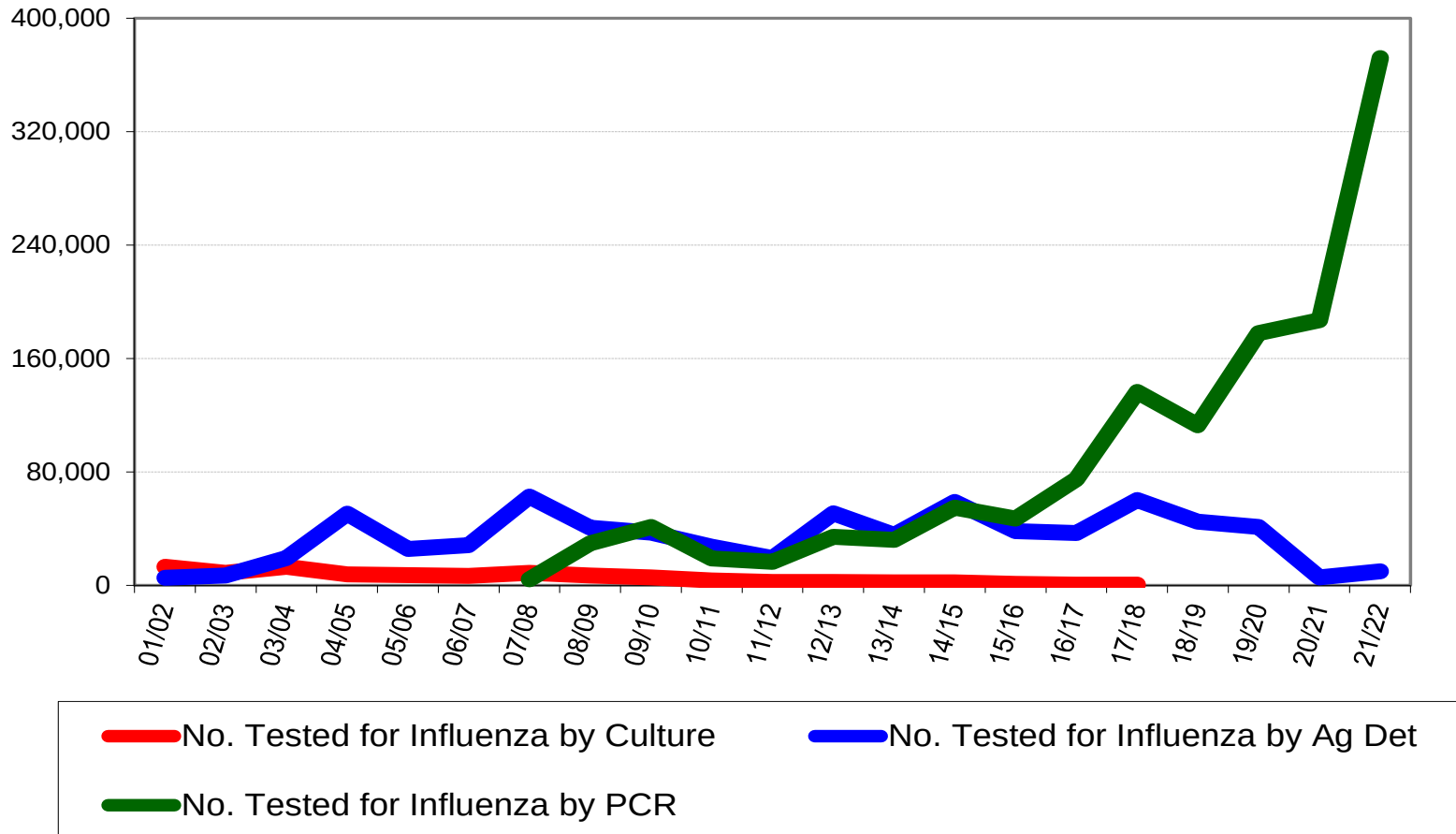


Number of Specimens Tested and Positive for Influenza by
Wisconsin Antigen Detection Sites



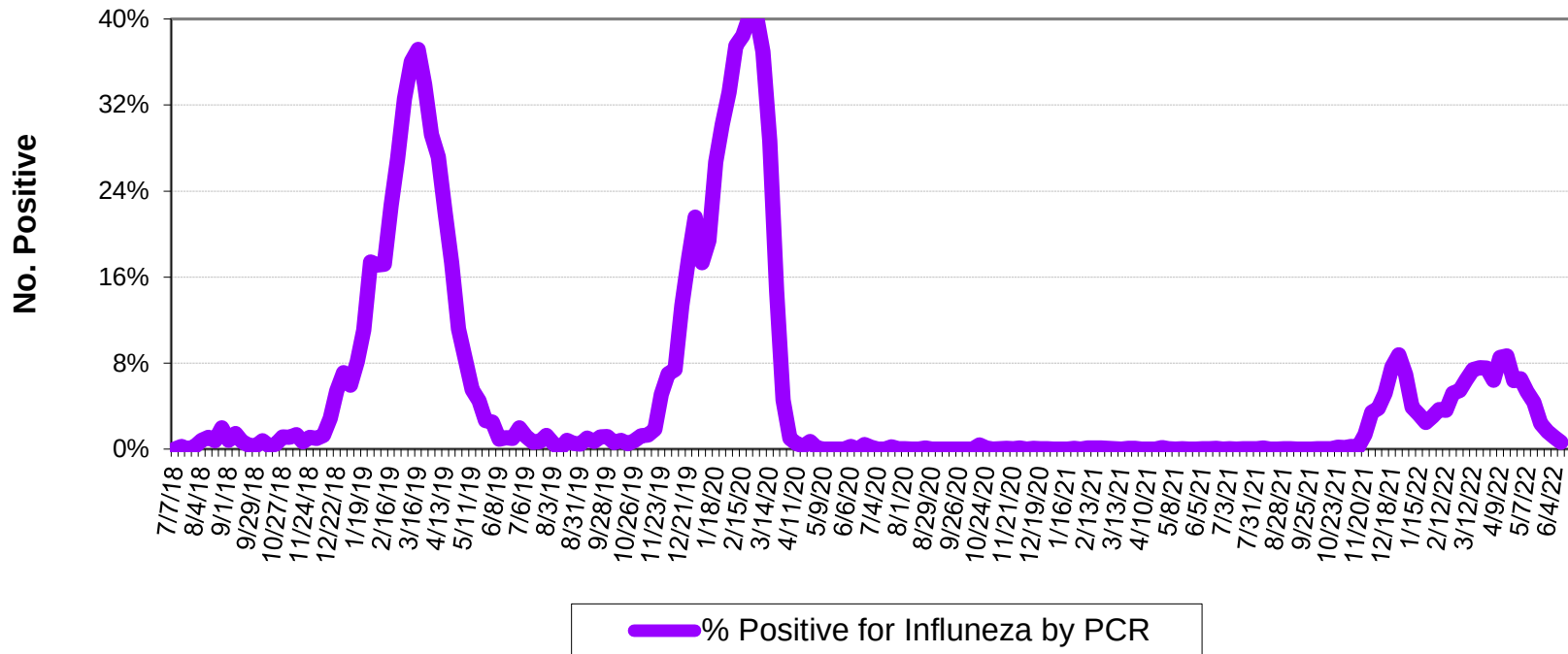
Culture, Antigen Detection and PCR

Number of Specimens Tested for Influenza by Culture, Antigen Detection and PCR at Wisconsin Laboratories



Percent Positive for Influenza by PCR, 2018 - 2022

Percent Positive for Influenza by PCR at Wisconsin Laboratories

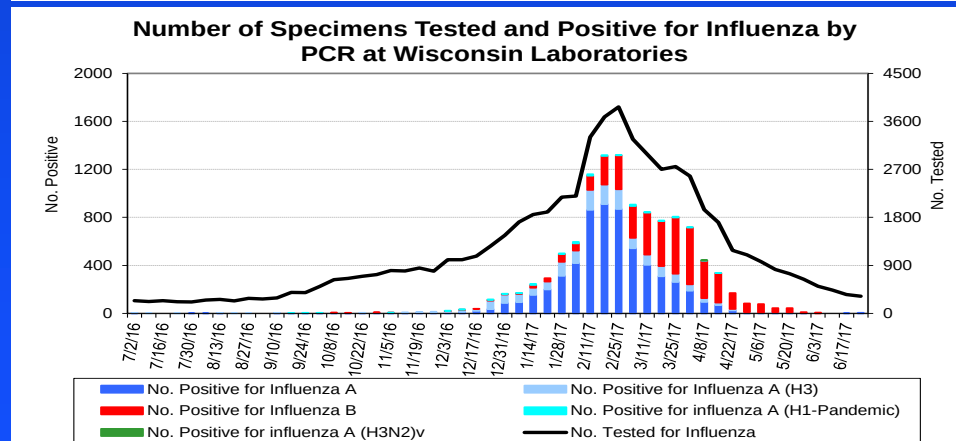
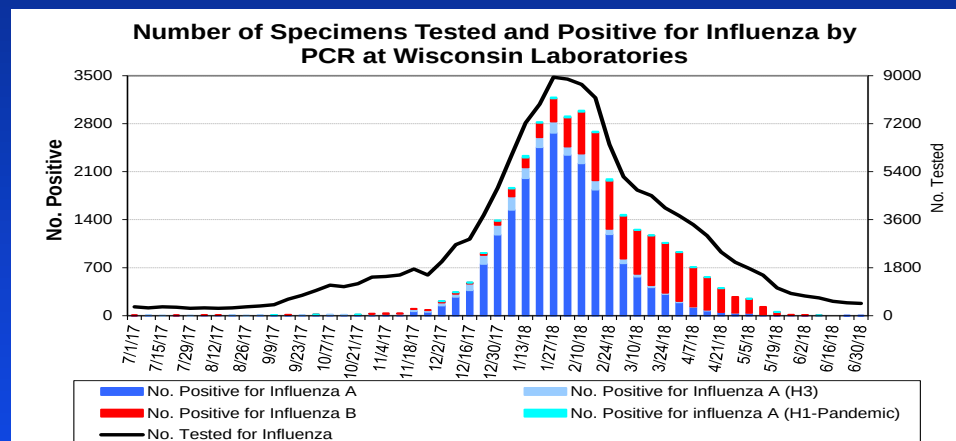
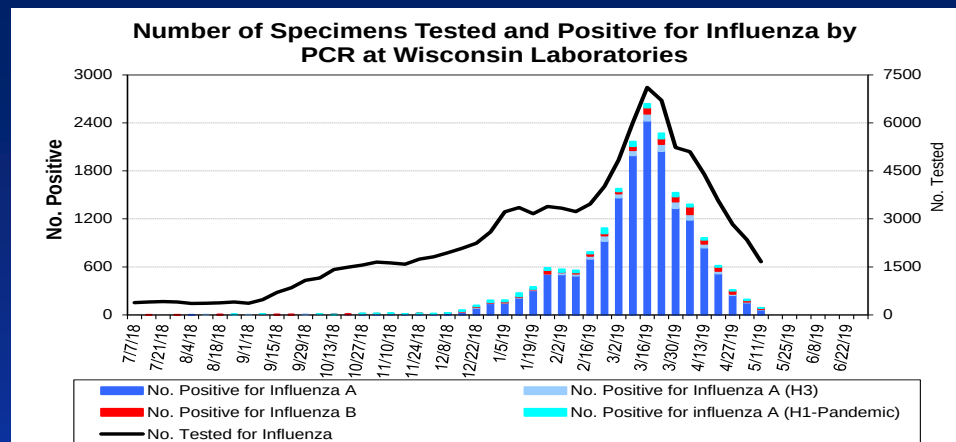


Influenza Positive and Number by PCR, 3 Years

2018/2019 Flu A 09H1 & H3

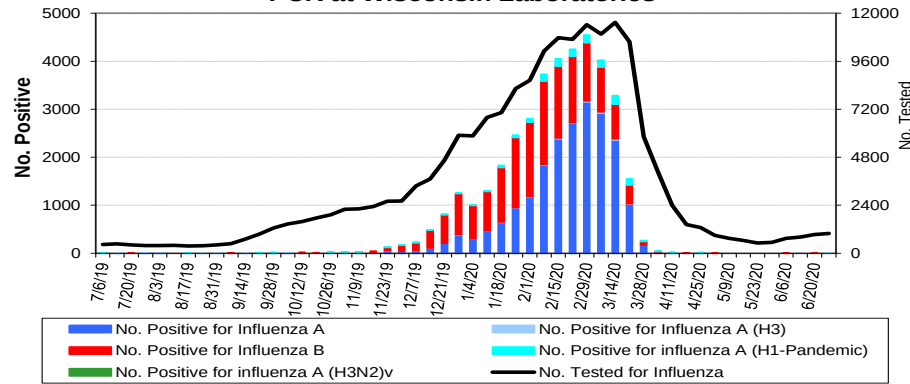
2017/2018 Flu A H3 & B

2016/2017 Flu A H3 & B

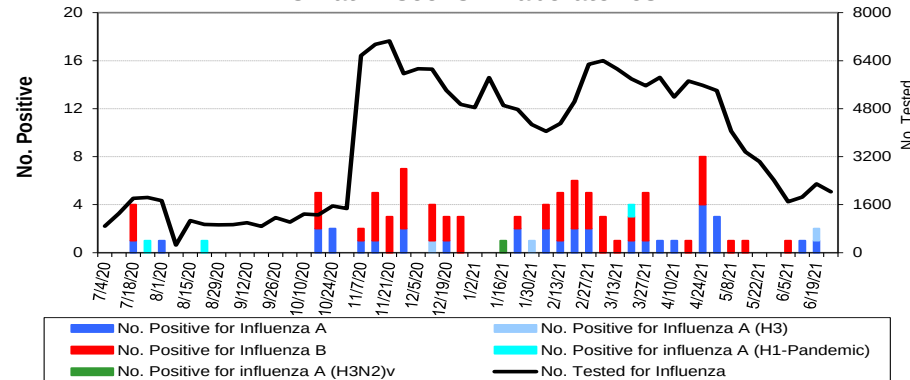


Influenza Positive and Number by PCR, 3 Years

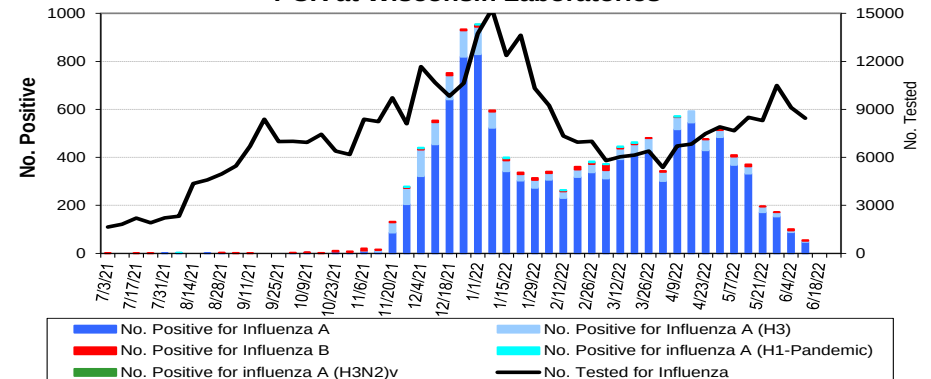
Number of Specimens Tested and Positive for Influenza by
PCR at Wisconsin Laboratories



Number of Specimens Tested and Positive for Influenza by
PCR at Wisconsin Laboratories



Number of Specimens Tested and Positive for Influenza by
PCR at Wisconsin Laboratories



2019/2020 Flu A 09H1 & B
2020/2021 Flu A 09H1, H3 & B
2021/2022 Flu A H3

Percent Positive Summary 2019-2022

Reported by PCR

2019/2020

- 58.8% Influenza A
 - ◆ 0.9% Flu A (H3)
 - ◆ 5.8% Flu A 09H1
 - ◆ 93.3% Flu A Unkn
- 41.2% Influenza B

2020/2021

- 40.4% Influenza A
 - ◆ 7.5% Flu A (H3)
 - ◆ 7.5% Flu A 09H1
 - ◆ 2.5% Flu A H3v
 - ◆ 82.5% Flu A Unkn
- 59.6% Influenza B

2021/2022

- 98.3% Influenza A
 - ◆ 11.5% Flu A (H3)
 - ◆ 0.3% Flu A 09H1
 - ◆ 88.2% Flu A Unkn
- 1.7% Influenza B

Reported by Ag Det

2019/2020

- 55.0% Influenza A
- 44.4% Influenza B
- 0.6% Influenza A&B

2020/2021

- 29.8% Influenza A
- 68.1% Influenza B
- 2.1% Influenza A&B

2021/2022

- 89.5% Influenza A
- 10.1% Influenza B
- 0.3% Influenza A&B
- 0.1% Influenza Unkn

Influenza A Variants 2019-2022

■ One Influenza A H3N2v

- ◆ January 2021
- ◆ Child
- ◆ Swine exposure

■ Three Influenza A H1N1v

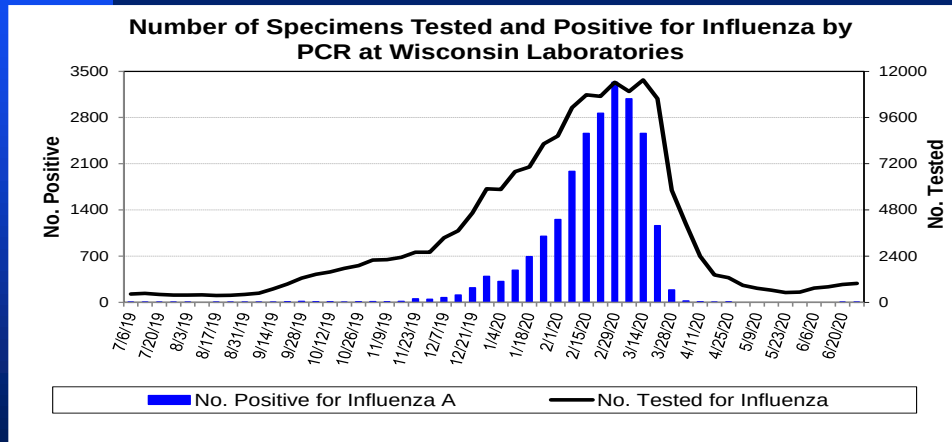
- ◆ One in April 2021
 - ☞ Child
 - ☞ Swine exposure
- ◆ Two in July 2021
 - ☞ Adults
 - ☞ Swine exposure at a county fair

Influenza Avian Suspects 2019-2022

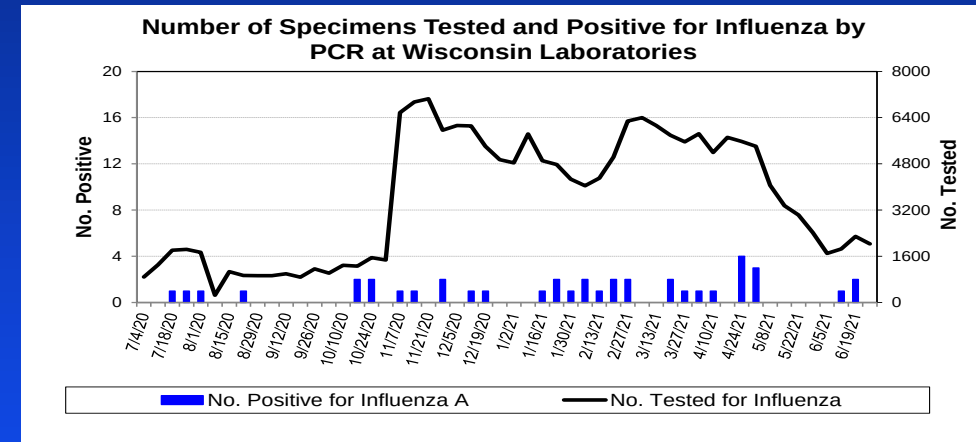
- 2019/2020 and 2020/2021
 - ◆ None
- 2021/2022 (March 2022 to today)
 - ◆ 17 tested at WSLH with 7 positives
 - ☞ No influenza positives
 - ☞ 1 SARS-CoV-2 and Bocavirus
 - ☞ 1 Parainfluenza 2
 - ☞ 1 Coronavirus OC43
 - ☞ 1 Bocavirus
 - ☞ 3 Rhinovirus/Enterovirus

Influenza A Positive and Number Tested 2019-2022

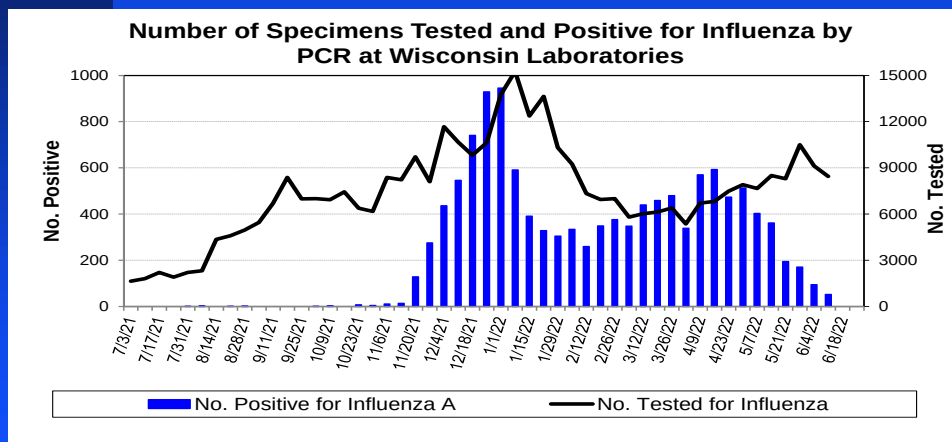
19/20 Flu A
PCR Peak
2/29/2020



20/21 Flu A
PCR Peak
none

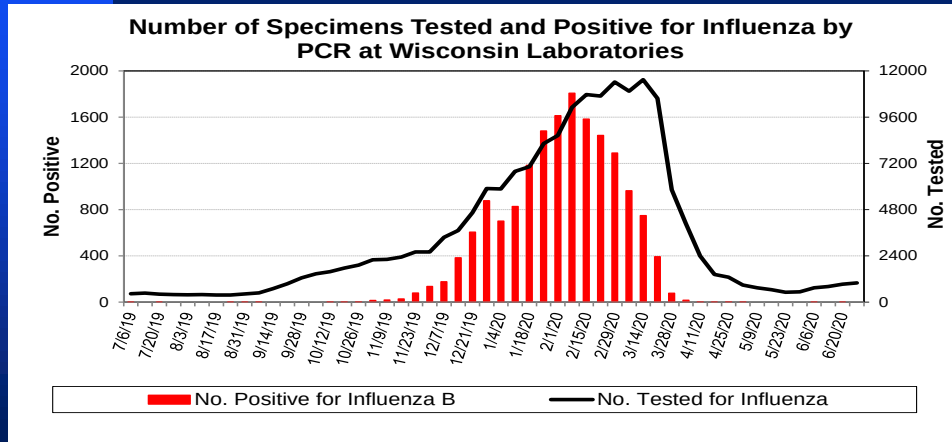


21/22 Flu A PCR
Peak
1/1/2022, 4/16/2022

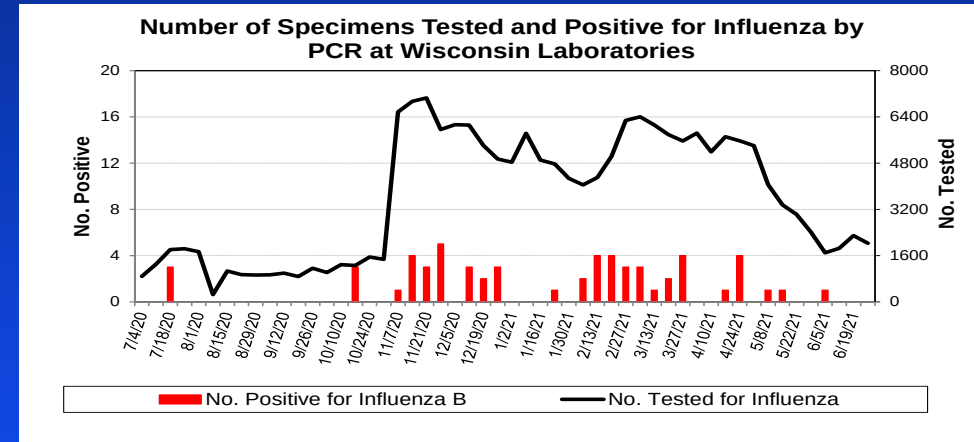


Influenza B Positive and Number Tested 2019-2022

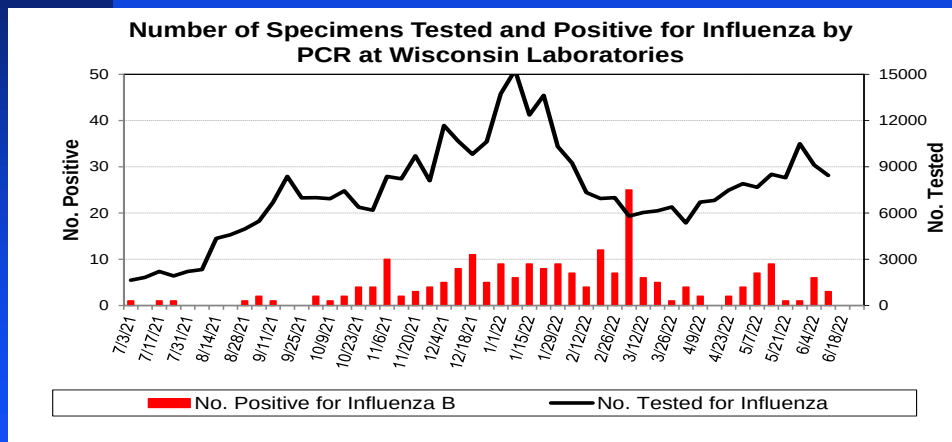
19/20 Flu B
PCR Peak
2/8/2020



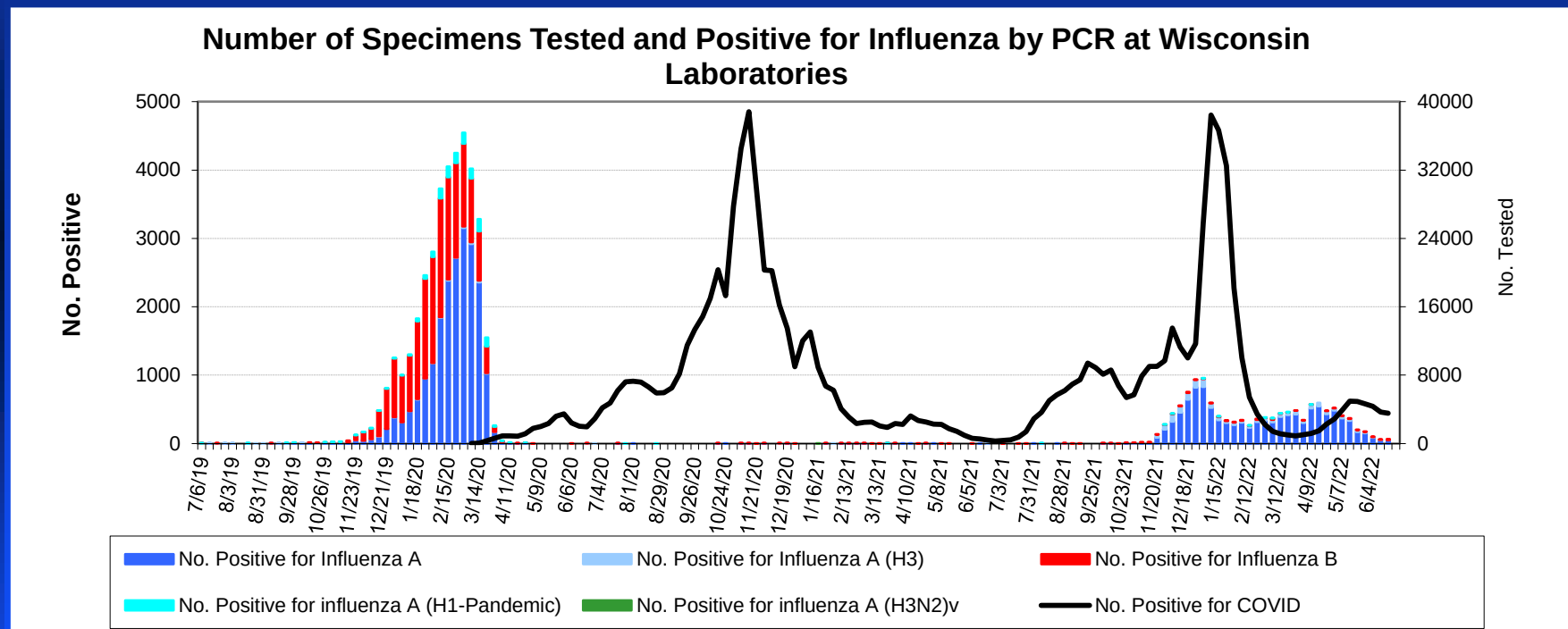
20/21 Flu B
PCR Peak
none



Flu B PCR
Peak
3/5/2022



Positive for Influenza and SARS-CoV-2 by PCR, 2019 - 2022

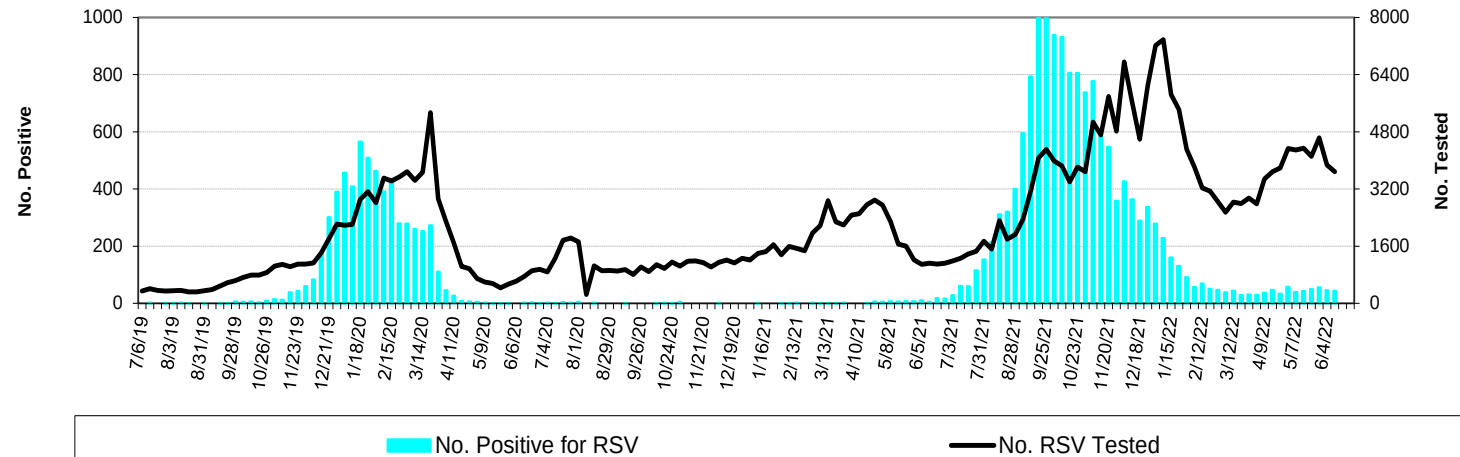


RSV Positive and Number Tested 2019-2022

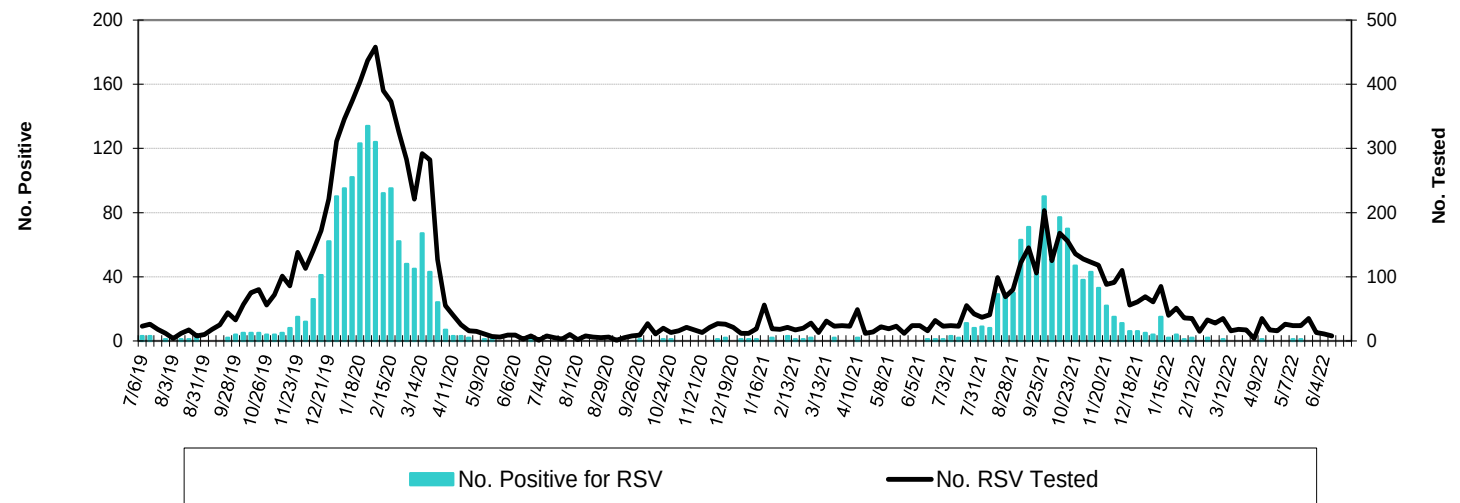
RSV PCR Peaks
19/20: 1/18/2020
20/21: none
21/22: 9/18/2020 &
9/25/2021

RSV Ag Det Peaks
19/20: 1/25/2020
20/21: none
21/22: 9/25/2021

Number of Specimens Tested and Positive for RSV by PCR at Wisconsin Laboratories



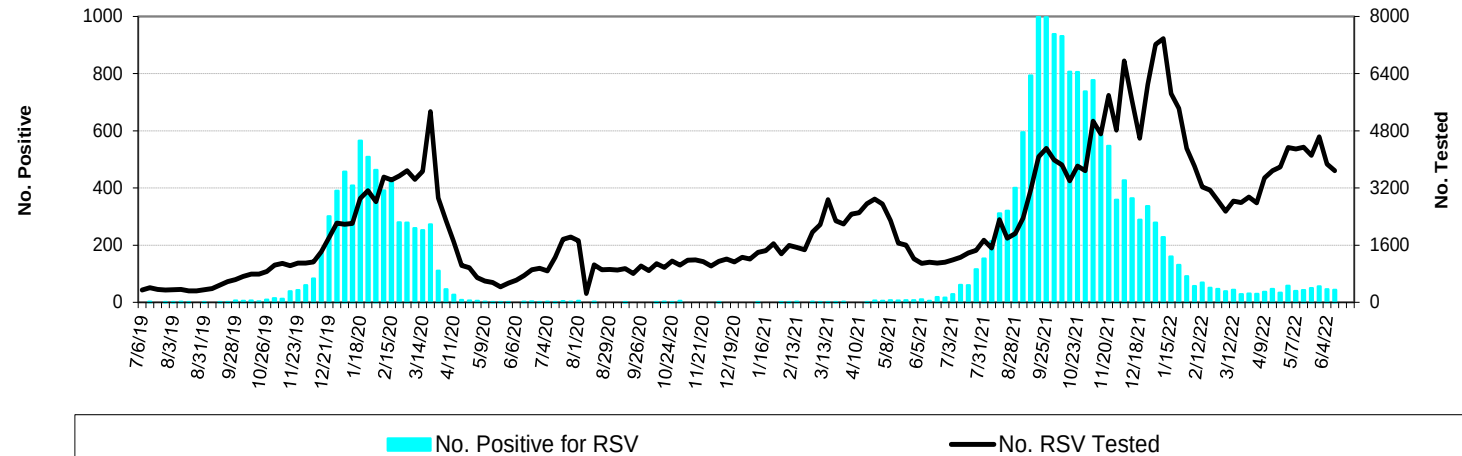
Number of Specimens Tested and Positive for RSV by Wisconsin Antigen Detection Sites



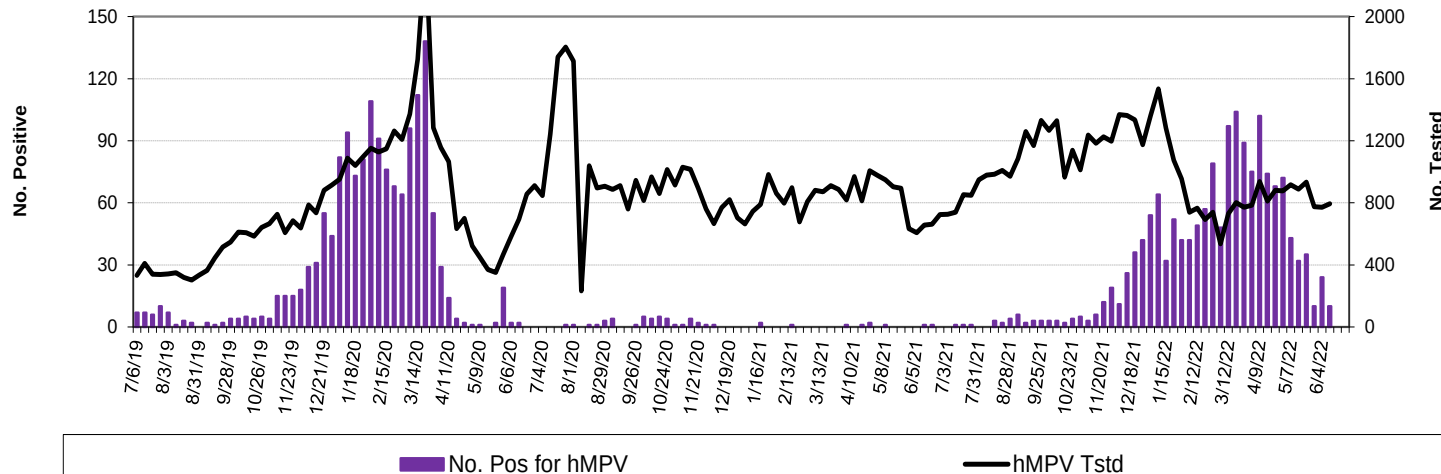
RSV Positive and Number Tested 2019-2022

RSV PCR Peaks
 19/20: 1/18/2020
 20/21: none
 21/22: 9/18/2021 &
 9/25/2021

Number of Specimens Tested and Positive for RSV by PCR at Wisconsin Laboratories

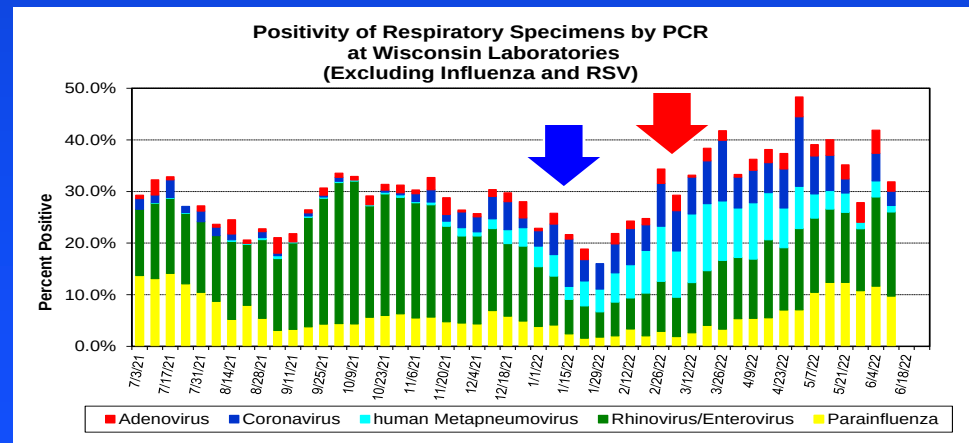
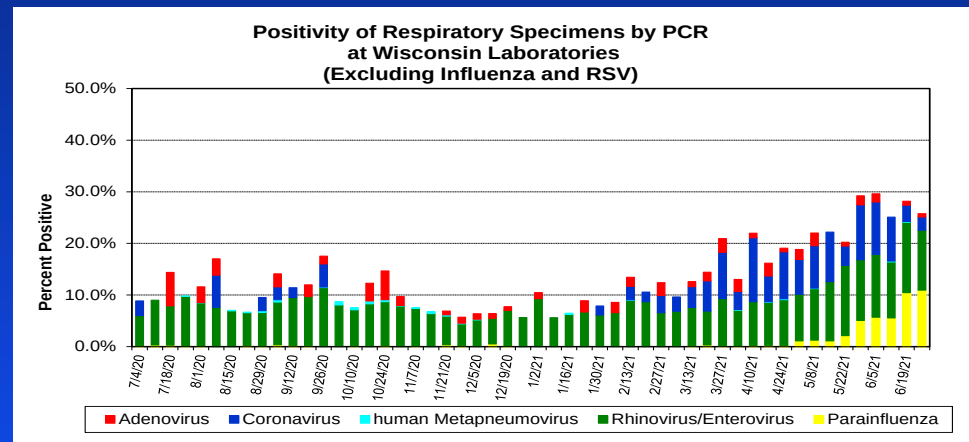
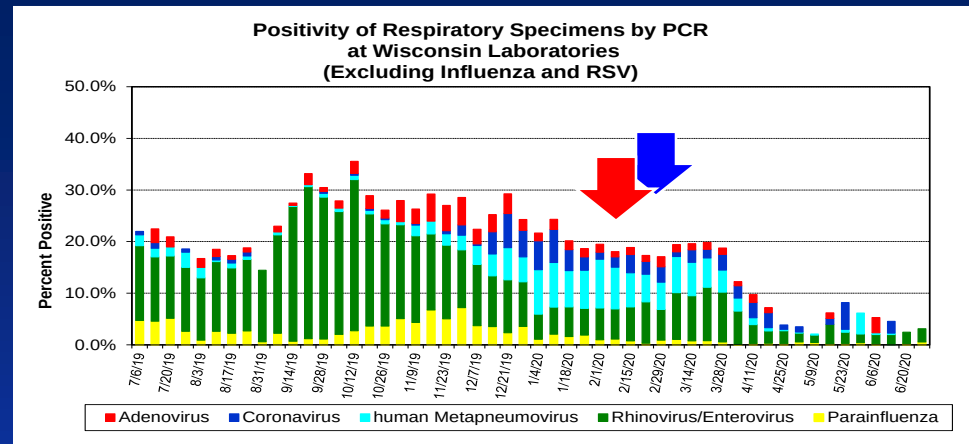


Number of Specimens Tested and Positive for hMPV by PCR at Wisconsin Laboratories



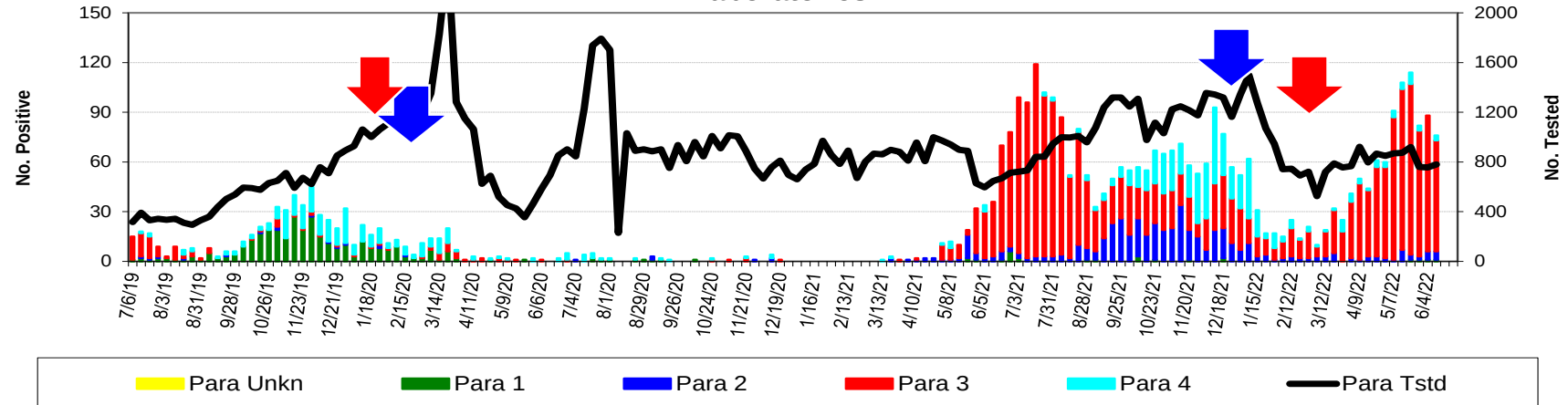
hMPV PCR Peaks
 19/20: 3/21/2020
 20/21: none
 21/22: 3/19/2022

Positivity of Respiratory Specimens by PCR, Excl Influenza and RSV

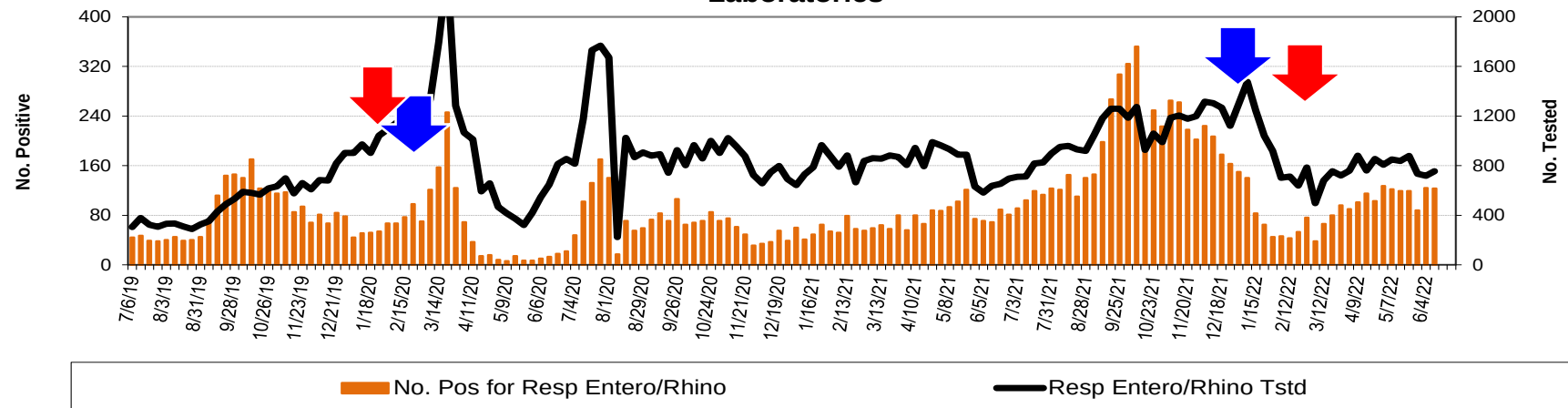


Para and Rhino/Entero Positives by PCR

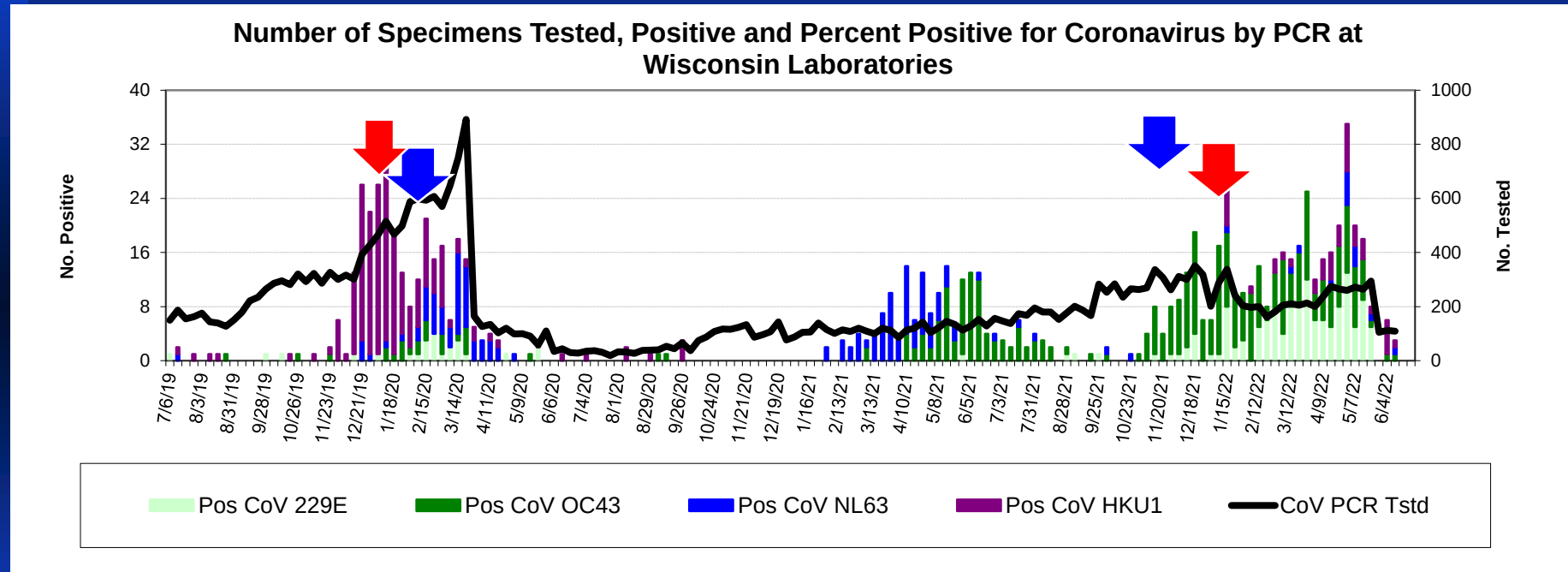
Number of Specimens Tested and Positive for Parainfluenza by PCR at Wisconsin Laboratories



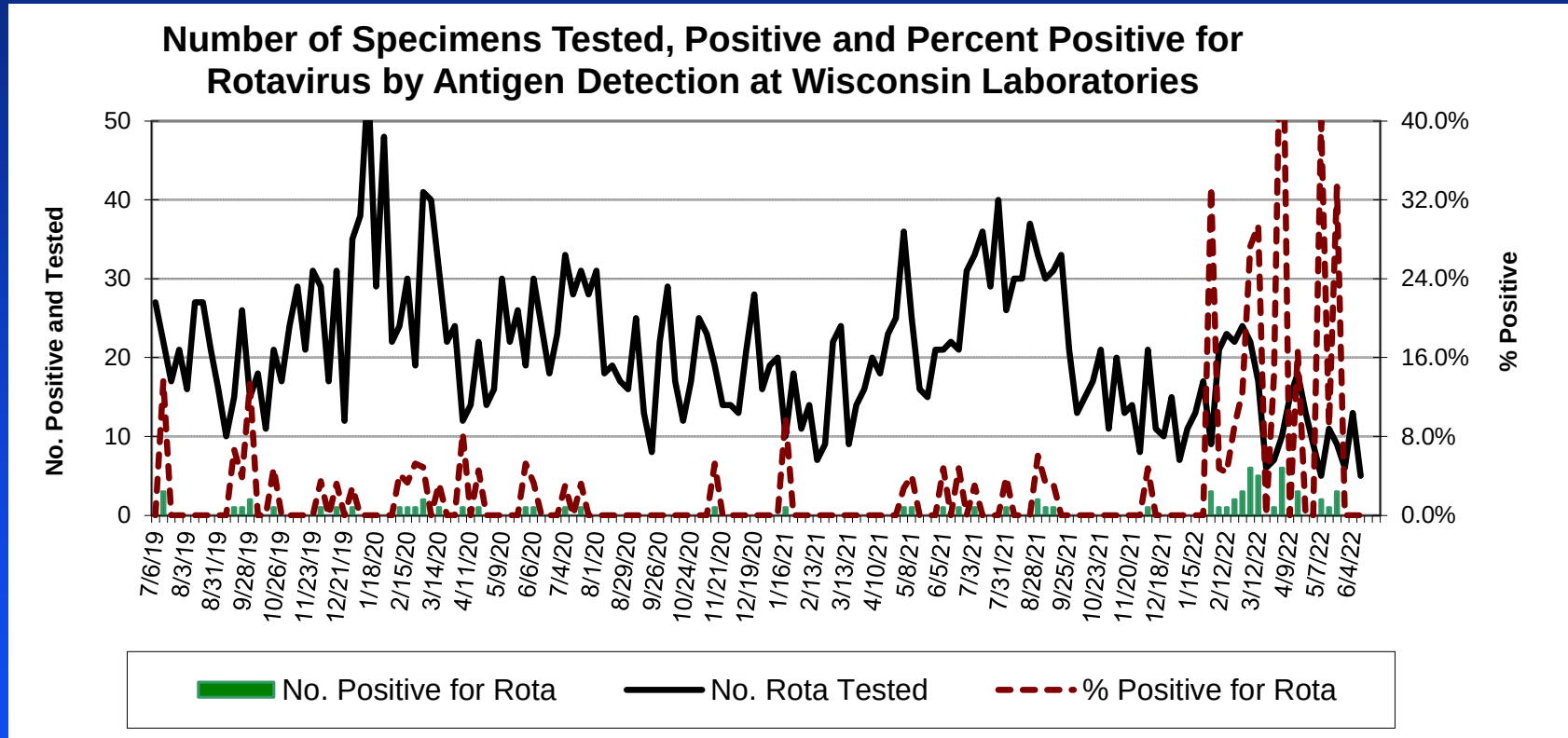
Number of Specimens Tested and Positive for Enterovirus/Rhinovirus by PCR at Wisconsin Laboratories



Coronavirus (not COVID-19) by PCR

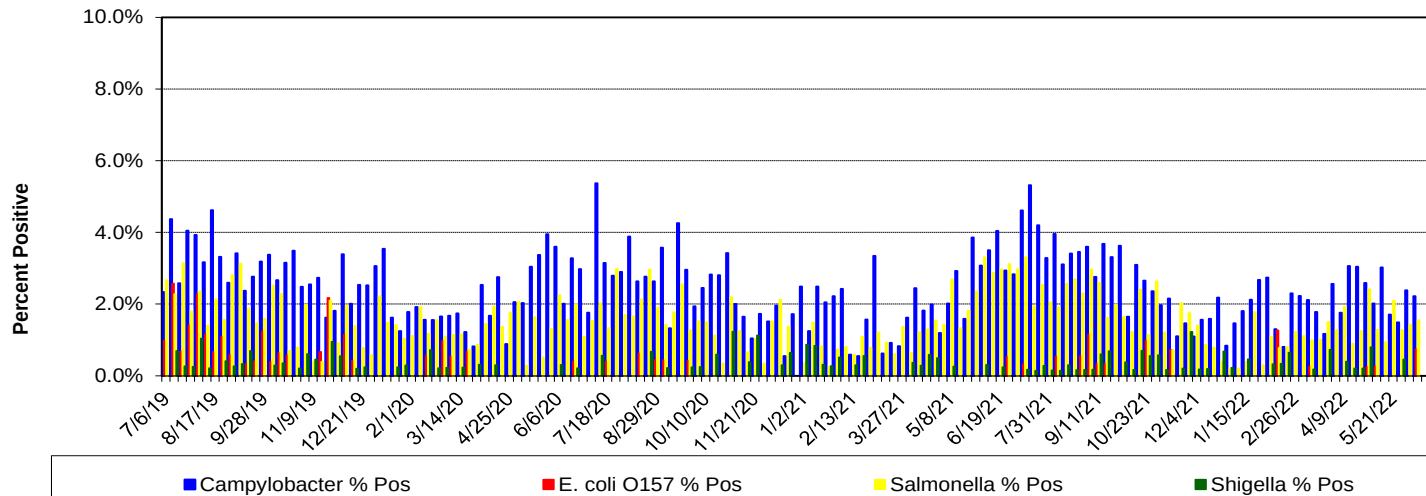


Rotavirus Positives by Antigen Detection

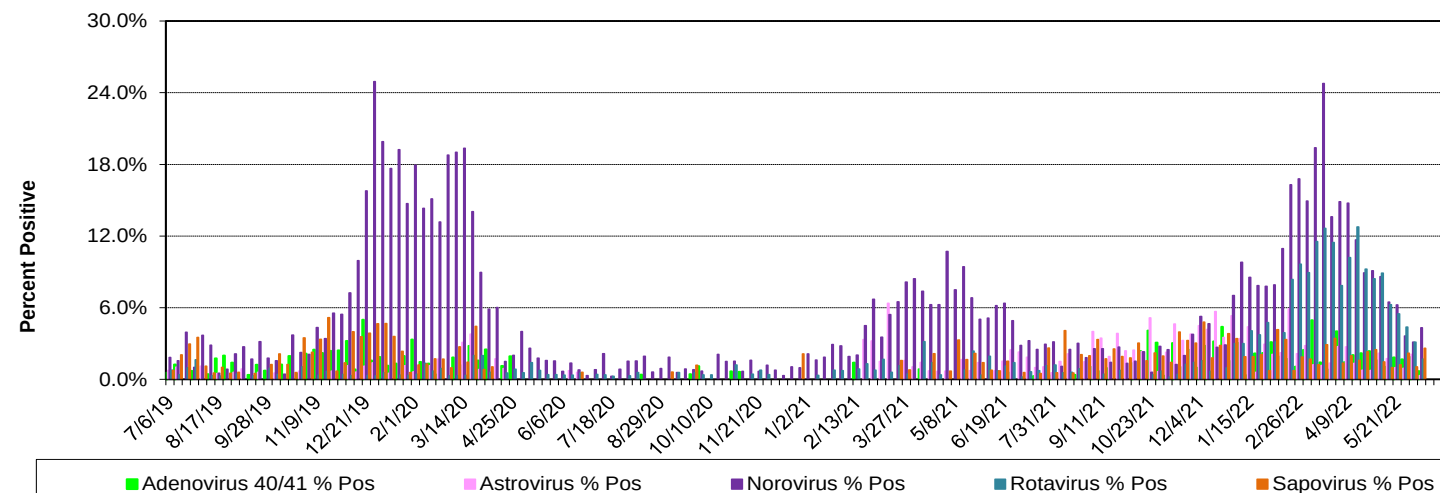


Enteric Pathogens by PCR

Positivity of Bacterial Enteric Pathogens by PCR at Wisconsin Laboratories

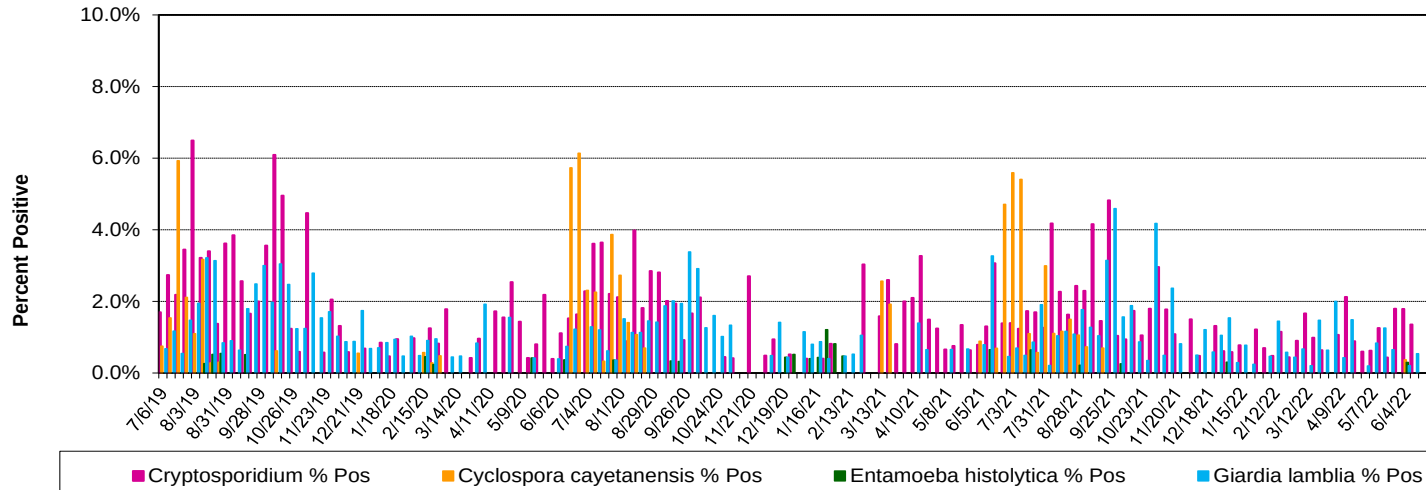


Positivity of Viral Enteric Pathogens by PCR at Wisconsin Laboratories

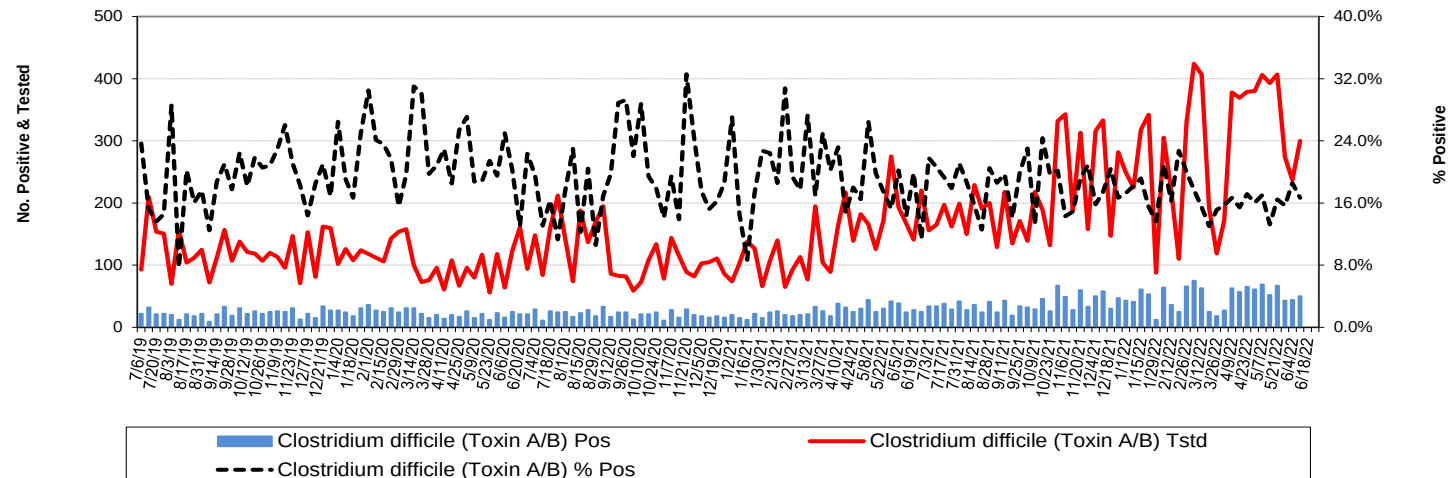


Enteric Pathogens by PCR

Positivity of Parasitic Enteric Pathogens by PCR at Wisconsin Laboratories



Number of Specimens Tested, Positive and the Percent Positive for Clostridium difficile by PCR at Wisconsin Laboratories



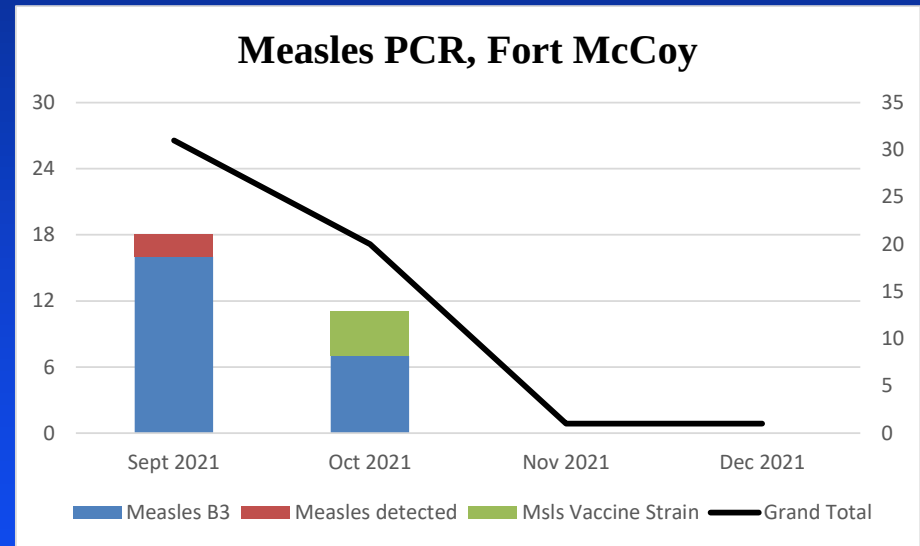
Mumps by PCR

Total Reported Wisc Labs 493 Tested, 8 Positive

- 2019/2020: 315 Tested, 8 Positive
- 2020/2021: 99 Tested, 0 Positive
- 2021/2022: 79 Tested, 0 Positive

Measles by PCR

- **2019:** 3 positives, all Vaccine Strain
- **2021:** Outbreak in Fort McCoy, Sept to Nov 2021
 - ◆ **29** positives
 - ☞ 23 were Genotype B3
 - ◆ 53 tested



Thanks for your Reports!

- To Report by FAX:

- ◆ (844) 390-6233

- To Report Electronically:

- ◆ <http://www.slh.wisc.edu/labupdates/reports/index.dot> and click on “Click here to report Wisconsin Test Data”

OR

- ◆ <http://www.surveygizmo.com/s3/389222/Wisconsin-Laboratory-Surveillance-Reporting>