



**Inyo County  
COVID-19 Response**



# **Inyo County COVID-19 Trends: Vaccinated vs. Unvaccinated Cases**

Epidemiological Report as of May 2022

# Definitions – Vaccination Status:

**Unvaccinated** persons have not received any dose of the recommended 2-dose or single-dose series of a currently available COVID-19 vaccine.

**Vaccinated** persons have received at least the recommended 2-dose or single-dose series of a currently available COVID-19 vaccine.

**Partially Vaccinated** persons have received one dose of a recommended 2-dose series of a currently available COVID-19 vaccine.

**Fully Vaccinated** persons have received the recommended 2-dose or single-dose series of a currently available COVID-19 vaccine.

**Boosted** persons aged 12 years and older have received the recommended 2-dose or single-dose series of a currently available COVID-19 vaccine plus one or two additional doses of a currently available COVID-19 vaccine. Individuals 5 – 11 years old who have received the two-dose Pfizer primary vaccine series plus one additional Pfizer dose are considered boosted.

**Unboosted** persons aged 12 years and older have received the recommended 2-dose or single-dose series of a currently available COVID-19 vaccine and have not received an additional dose of the recommended 2-dose or single-dose series of a currently available COVID-19 vaccine. Individuals 5 – 11 years old who have received the two-dose Pfizer primary vaccine and have not received one additional Pfizer dose are considered unboosted.

**1 Booster** persons aged 12 years and older have received the recommended 2-dose or single-dose series of a currently available COVID-19 vaccine plus one additional dose of a currently available COVID-19 vaccine. Individuals 5 – 11 years old who have received the two-dose Pfizer primary vaccine series plus one additional Pfizer dose are included in this category.

**2 Booster** persons aged 12 years and older have received the recommended 2-dose or single-dose series of a currently available COVID-19 vaccine plus two additional doses of a currently available COVID-19 vaccine. Individuals 5 – 11 years old will not be included in this category.

## Notes:

Current analyses of COVID-19 among vaccinated individuals in Inyo County assesses vaccine-eligible individuals who received a positive COVID-19 PCR test result at least 14 days following the second dose of the currently available 2-dose mRNA vaccines (Pfizer or Moderna) or 14 days following the first and only dose of the currently available single-dose vaccine (J&J). Analyses are only estimates and data is subject to change.

Similarly, boosted breakthrough cases are defined as individuals with a COVID-19 positive PCR test result 14 days after receiving their 3rd dose if initially vaccinated with a two-dose series vaccine or 14 days after receiving their 2<sup>nd</sup> dose if initially vaccinated with the single-dose series J&J vaccine.

As of November 2, 2021, children aged 5 – 11 years are eligible to receive the primary two-dose Pfizer vaccine series plus one additional Pfizer booster dose.

# Quick Facts:

- Total COVID-19 cases in Inyo County have increased by 268% since the month of April
- Unvaccinated COVID-19 cases in Inyo County have increased by 225% since the month of April
- Vaccinated COVID-19 cases in Inyo County have increased by 290% since the month of April
- Most of the COVID-19 infections among vaccinated individuals in Inyo County occurred in persons whose most recent dose of a COVID-19 vaccine was more than 5 months prior to infection and may indicate a waning vaccine efficacy after 5 months in boosted and unboosted individuals
- Inyo County COVID-19 breakthrough infection rates confirm the important role that booster vaccines play in protection against COVID-19 infection
- Despite the increasing share of COVID-19 breakthrough infections, vaccinated individuals in Inyo County continue to experience COVID-19 infections at a rate lower than unvaccinated individuals in Inyo County when adjusting for differences in population size between vaccinated and unvaccinated group

# Monthly Summary:

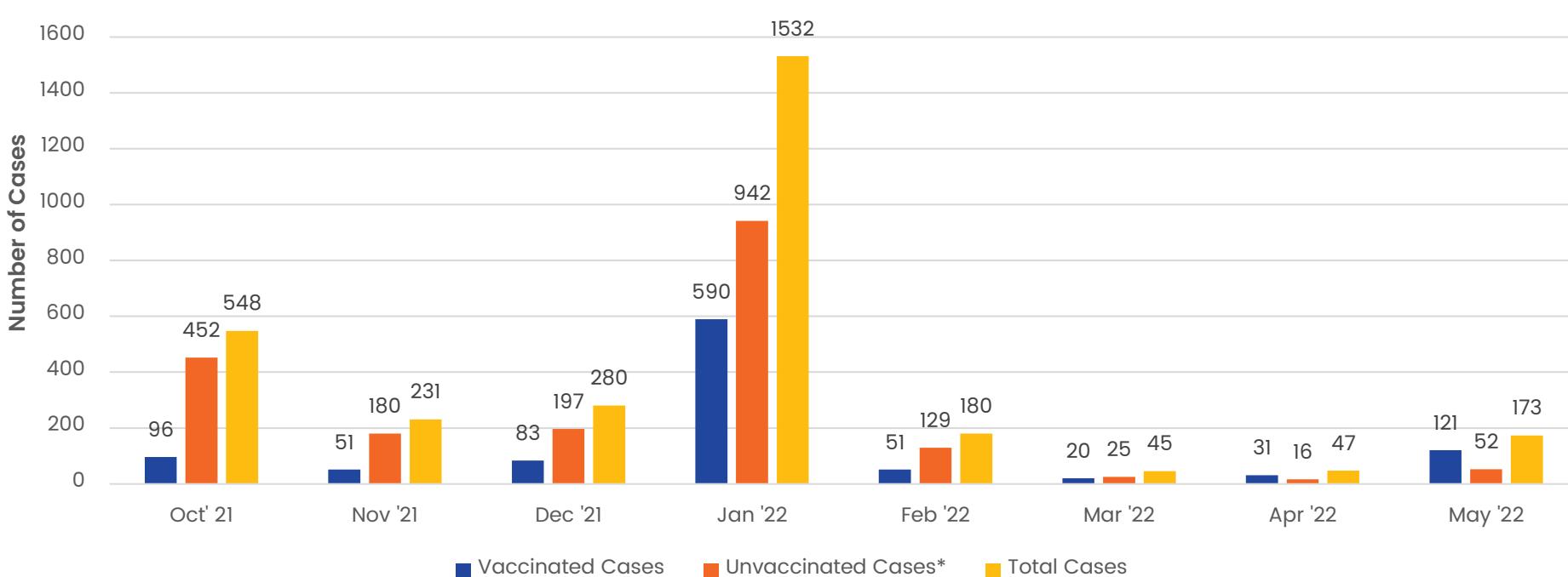
In May, 60% of breakthrough cases occurred in individuals who had received at least one booster dose, however, 98% of boosted individuals who experienced a breakthrough COVID-19 infection were more than 5 months out from their most recent dose of a COVID-19 vaccine and 86% of unboosted breakthrough cases were among individuals whose most recent dose of a COVID-19 vaccine was more than 5 months prior to infection.

Vaccinated individuals represent a growing share of COVID-19 infections in Inyo County. This phenomenon is occurring because fully vaccinated individuals now compose more than 71.1% of the Inyo County population. Despite the growing share of COVID-19 infections among fully vaccinated individuals, unvaccinated individuals continue to experience higher rates of COVID-19 infection when adjusting for the differences in population size between vaccinated and unvaccinated individuals living in Inyo County.

As of 5/17/22, the number of unvaccinated person residing in Inyo County was 3,371 and the number of vaccinated persons residing in Inyo County was 12,291.

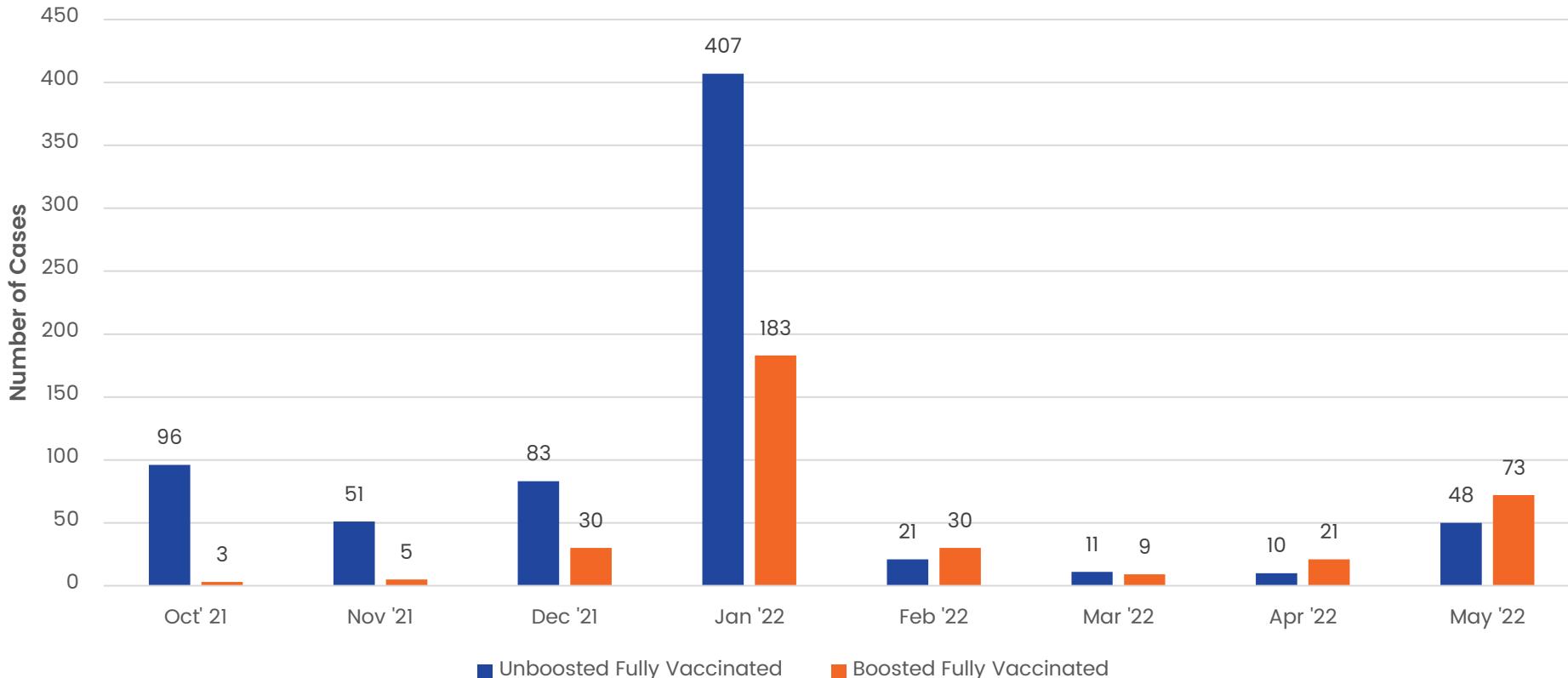
COVID-19 cases among unvaccinated individuals for the month of May occurred at a rate of 1.5% and COVID-19 cases among vaccinated individuals occurred at a rate of 0.9%, indicating that despite composing a smaller population, unvaccinated individuals in Inyo County continue to experience COVID-19 infections at a rate higher than vaccinated individuals.

## Monthly Total Vaccinated vs. Unvaccinated COVID-19 Cases

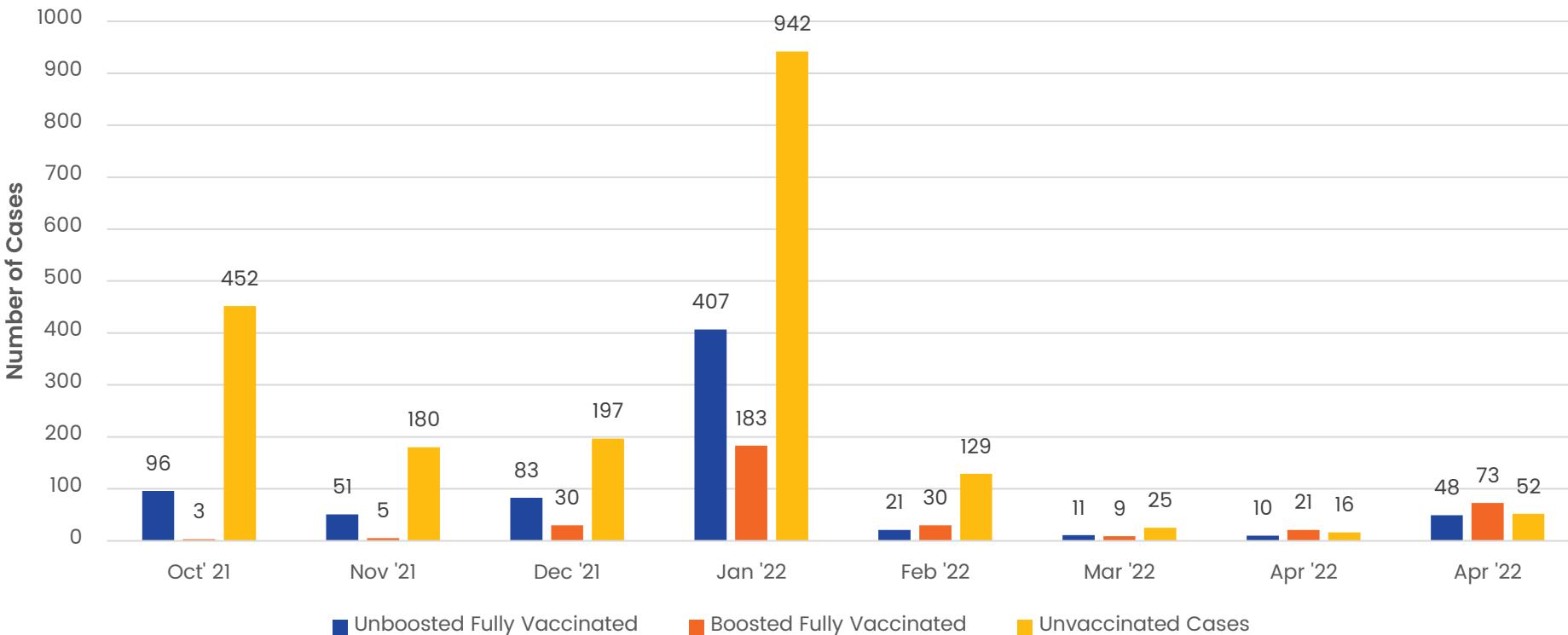


\*includes those that are partially vaccinated

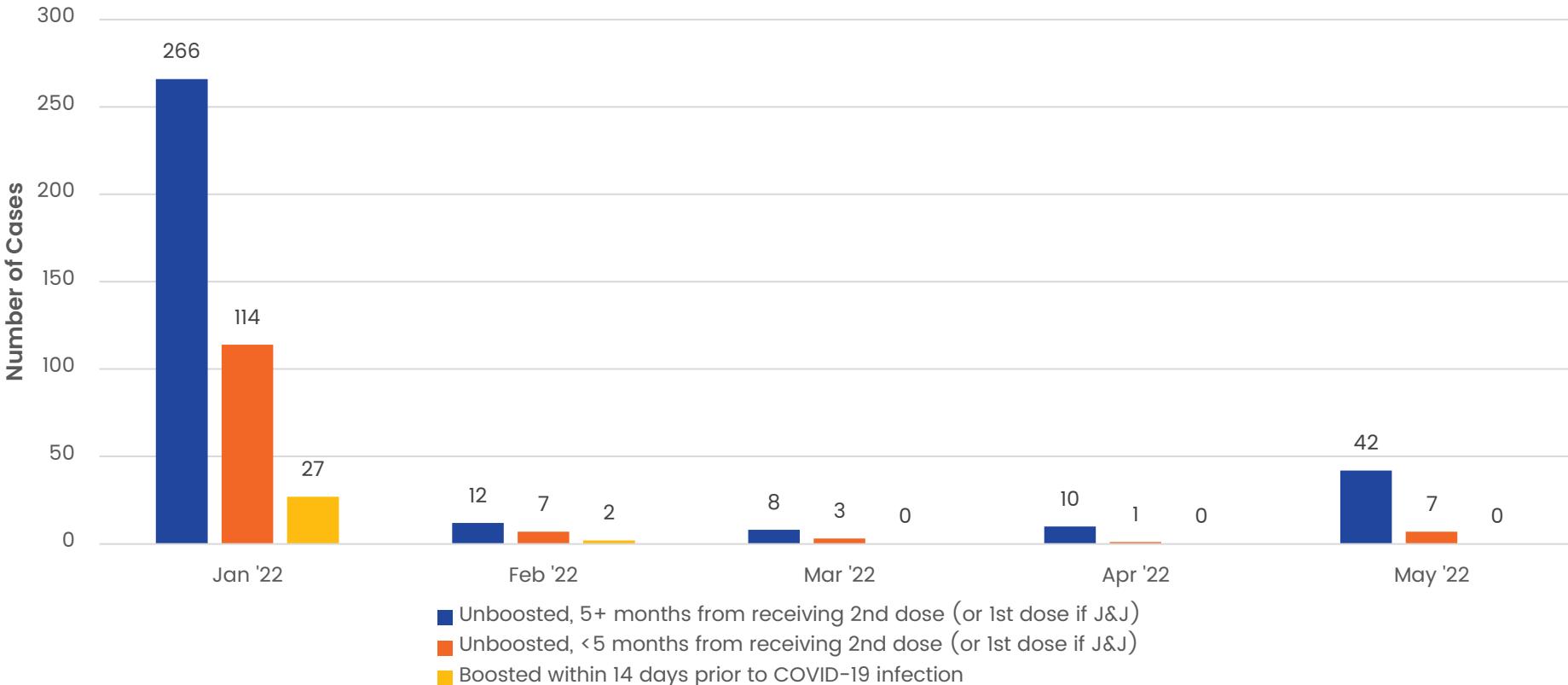
# Unboosted vs. Boosted Monthly Breakthrough COVID-19 Cases



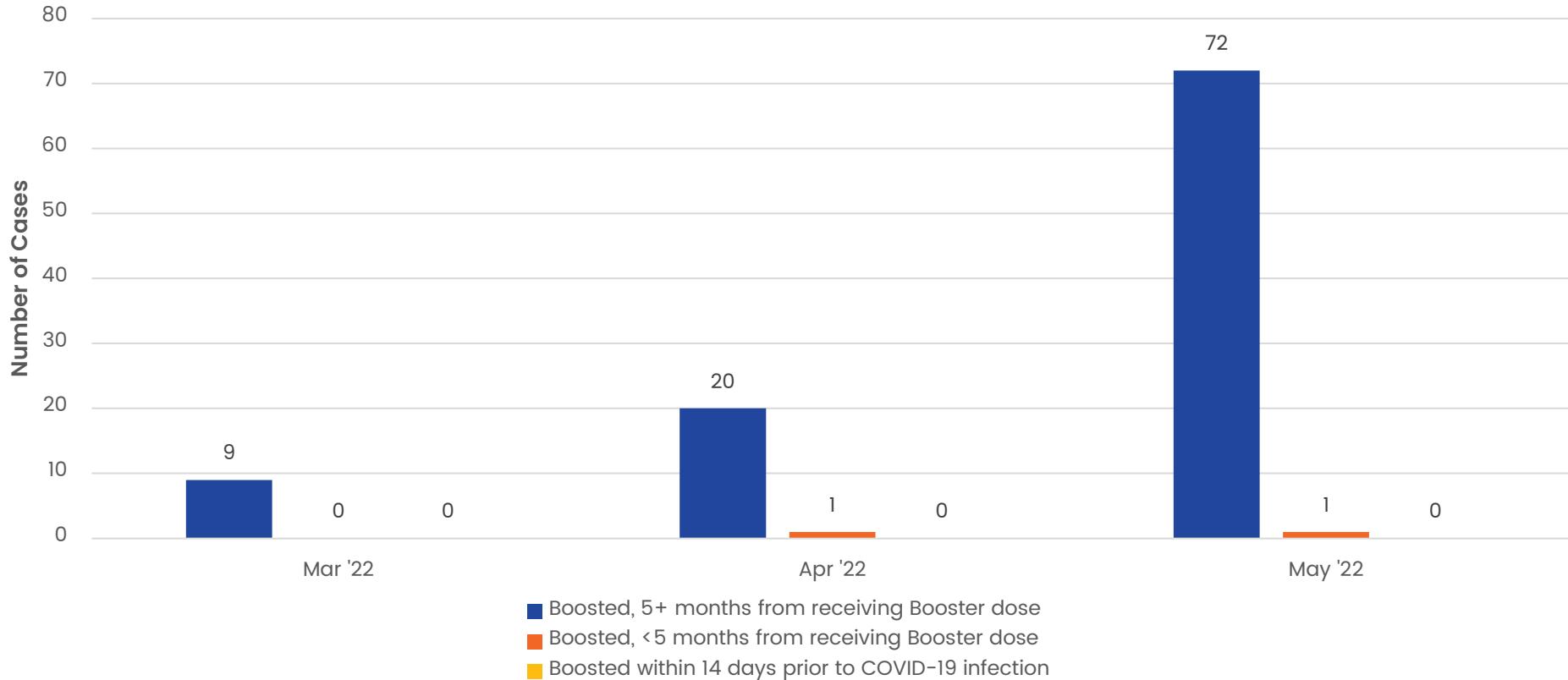
# Unboosted vs. Boosted Monthly Breakthrough COVID-19 Cases Compared to Unvaccinated Cases



# Breakdown of "Unboosted" Breakthrough COVID-19 Cases



# Breakdown of "Boosted" Breakthrough COVID-19 Cases



# COVID-19 Trends in Vaccinated Individuals

**96** Vaccinated Cases  
**548** Total Cases

**17.5%** of total October cases among vaccinated individuals

**Oct 2021**

**83** Vaccinated Cases  
**280** Total Cases

**29.6%** of total December cases among vaccinated individuals

**Dec 2021**

**51** Vaccinated Cases  
**180** Total Cases

**28.3%** of total February cases among vaccinated individuals

**Feb 2022**

**31** Vaccinated Cases  
**47** Total Cases

**65.96%** of total April cases among vaccinated individuals

**Apr 2022**

**51** Vaccinated Cases  
**231** Total Cases

**22.1%** of total November cases among vaccinated individuals

**Nov 2021**

**590** Vaccinated Cases  
**1,532** Total Cases

**38.5%** of total January cases among vaccinated individuals

**Jan 2022**

**20** Vaccinated Cases  
**45** Total Cases

**44.4%** of total March cases among vaccinated individuals

**Mar 2022**

**122** Vaccinated Cases  
**173** Total Cases

**70.5%** of total May cases among vaccinated individuals

**May 2022**

# COVID-19 Trends in Unvaccinated Individuals

**452** Unvaccinated Cases  
**548** Total Cases  
**82.5%** of total October cases among unvaccinated individuals

**Oct 2021**

**197** Unvaccinated Cases  
**280** Total Cases  
**70.4%** of total December cases among unvaccinated individuals

**Dec 2021**

**129** Unvaccinated Cases  
**180** Total Cases  
**71.6%** of total February cases among unvaccinated individuals

**Feb 2022**

**16** Unvaccinated Cases  
**47** Total Cases  
**34.0%** of total April cases among unvaccinated individuals

**Apr 2022**

**Nov 2021**

**180** Unvaccinated Cases  
**231** Total Cases  
**77.9%** of total November cases among unvaccinated individuals

**Jan 2022**

**942** Unvaccinated Cases  
**1,532** Total Cases  
**61.5%** of total January cases among unvaccinated individuals

**Mar 2022**

**25** Unvaccinated Cases  
**45** Total Cases  
**55.6%** of total March cases among unvaccinated individuals

**May 2022**

**51** Unvaccinated Cases  
**173** Total Cases  
**29.5%** of total May cases among unvaccinated individuals

# Data Sources:

Data on vaccinated COVID-19 cases obtained from [CAIR II](#), California's statewide immunization reporting platform

Data on total COVID-19 cases in Inyo County obtained from California's infectious disease and contact tracing platforms [CalRedie](#) and [CalConnect](#)



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# Questions? Email:

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