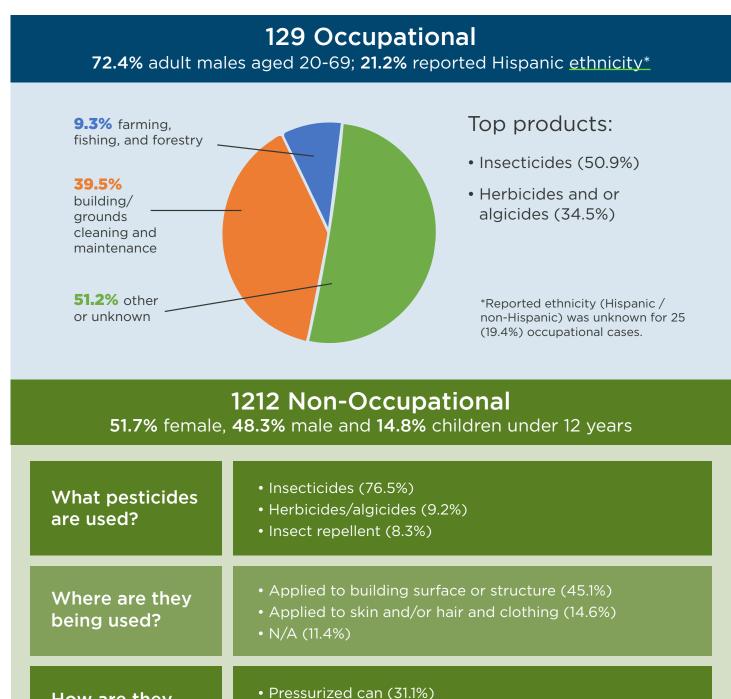
Acute Pesticide-Related Illness and Injury in North Carolina, 2017–2021

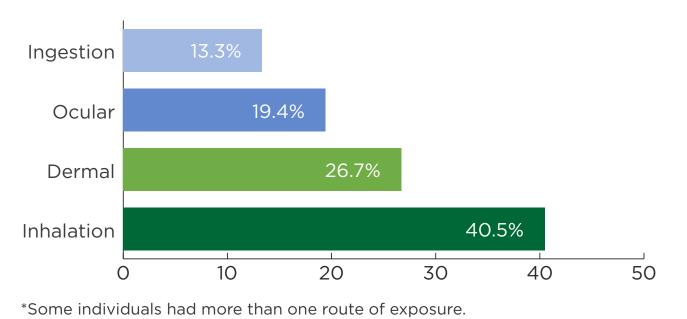
1346 Total Pesticide-related Illness and Injury Cases



- How are they being applied?
- Total release fogger or aerosol bomb (17.3%)

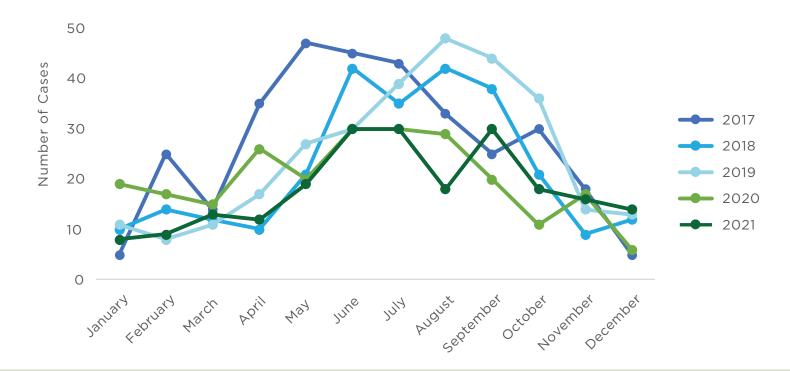
Manual placement (21.4%)

Top Routes of Pesticide Exposure



Number of Pesticide-Related Illness and Injury Cases

Pesticide use increases during the late spring, summer, and early fall months. The number of pesticide-related illness and injury cases is typically highest during this time.

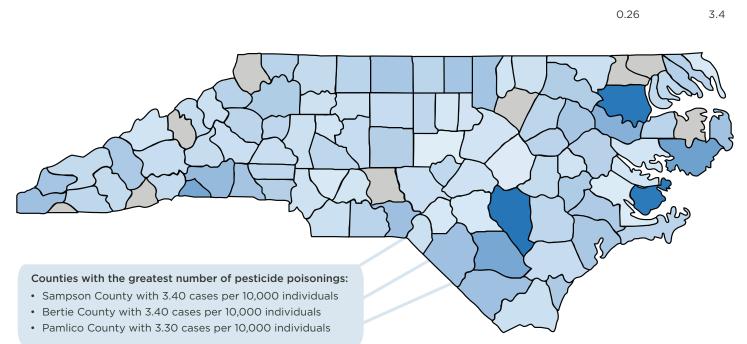


Compared to 2017, there was a **33%** decline in the number of pesticide poisonings in 2021. However, the COVID-19 pandemic likely contributed to underreporting of pesticide-related illness and injury due to healthcare services being strained, as well as impacting healthcare seeking behavior of patients.

During the Past Five Years, Pesticide Poisonings Occurred Across North Carolina

Cases by county (n=726)

Estimated incidence of acute pesticide-related illness and injury cases per 10,000 persons, by county



*This map includes occupational and non-occupational cases where data were available (n=726/1346).

Top Signs and Symptoms of Pesticide Poisonings



Respiratory (24.1%)



Gastrointestinal (18.7%)



Nervous / sensory (17.2%)



Direct contact with and or injury to eye (14.3%)



Irritation or sensitization of skin (13.6%)



Cardiovascular (5.1%)

*Some individuals had more than one type of symptom.

North Carolina is ranked:

- 10th agriculture-producing state in the nation in cash receipts
- 6th in the nation in number of migrant farmworkers

~1 billion pounds of pesticides are used in the U.S. each year.

Hundreds of millions of pounds

are used in U.S. agriculture to promote higher crop quality and yield.

Over 75% of U.S. households

use pesticides, and approximately two thirds treat major indoor living areas with pesticides at least once per year.

What can **YOU** do to prevent Pesticide-related Illness & Injury?



If a pesticide poisoning is suspected call NC Poison Control immediately at: 1-800-222-1222



- Read and follow label instructions for storage, handling, application, and proper personal protective equipment, including eye protection.
- Keep pesticides away from children and do not store pesticides in non-approved containers (such as soda or water bottles)
- Limit pesticide use when possible by using Integrated Pest Management

In the workplace:

- Read and follow label instructions for storage, handling, application, and proper personal protective equipment
- Maintain equipment to prevent spilling and or splashing

• For healthcare professionals:

- Report pesticide poisonings to NCDHHS by calling NCPC at 1-800-222-1222. Pesticide poisonings are a legally reportable condition in NC.
- Ask patients with associated symptoms questions about chemicals used, especially during the late spring, summer, and early fall months
- Ask patients about occupation and industry to evaluate possible pesticide exposures
- Promote training to improve awareness and diagnosis of environmental and occupational health issues among healthcare professionals