

REVIEW OF FARM-RELATED FATALITIES DATA AND RESOURCES

TELLING STORIES TO SAVE LIVES



KEY FUNDING PARTNER

Federal Acknowledgement

The National Center is funded in part by Cooperative Agreement Number 2 UG7MC28482-08-00 from the U.S. Department of Health and Human Services (HHS), Health Resources and Services Administration (HRSA), Maternal and Child Health Bureau (MCHB) as part of an award totaling \$2,400,997 annually with 0 percent financed with non-governmental sources. Its contents are solely the responsibility of the authors and should not be construed as the official position or policy of, nor should any endorsements be inferred by HRSA, HHS or the U.S. Government.

Prioritizing Personal Wellbeing

Considerations for Fatality Review Convenings

The content of today's meeting may include information about individual or aggregate fetal, infant, or child deaths. This may evoke strong feelings or other distress. Please prioritize your own wellbeing during this meeting, even if you need to step away from the meeting. Contact the Suicide & Crisis Lifeline at 988 via phone or text for additional support.

HOUSEKEEPING

Before we get started

- This webinar is being recorded and will be available on the National Center's webpage (URL: www.ncfrp.org).
- Participants are muted. Use the question-and-answer box ask questions.
- Contact the National Center (email: <u>info@ncfrp.org</u>) for any tech problems.





EVALUATION

https://www.surveymonkey.com/r/32BRMMX

Diane Pilkey, RN, MPH

Federal Welcome and Introductions

Senior Nurse Consultant

Division of Child, Adolescent and Family Health

Maternal and Child Health Bureau

Health Resources and Service Administration





HRSA'S VISION FOR THE NATIONAL CENTER

Improving Systems of Care and Outcomes for Mothers, Infants, Children, and Families

Assist state and community programs in:

- Understanding how CDR and FIMR reviews can be used to address issues
 related to adverse maternal, infant, child, and adolescent outcomes
- Improving the quality and effectiveness of CDR/FIMR processes
- Increasing the availability and use of data to inform prevention efforts and for national dissemination



Cause for Concern

What constitutes a farm-related death and why CDR teams are uniquely positioned to inform prevention.



Farm-Related Fatalities Quick-Look

NFR-CRS data on farm-related deaths of youth younger than age 18 who died on a farm in a rural or frontier geographical area.



Review of Farm-Related Fatalities

What teams should know, special considerations, overarching themes, and resources available.



Success Story

Learn how the Kansas State CDR Board partners with the Kansas Farm Bureau and Safe Kids Coalition for subject matter expertise, data collection, and prevention.



National Center Guidance Document

Building capacity for the investigation and review of farmrelated fatalities.



Speakers

Experts Joining in the Discussion



Gretchen Martin, MSW
Senior Project Coordinator
National Center



Heather Dykstra, MPH Senior Data Analyst National Center



Barbara Lee, PhD
Director
National Children's Center for
Rural and Agricultural Health
and Safety



Andrea Swenson, PhD
Associate Director
National Children's Center for
Rural and Agricultural Health
and Safety



Sara HortenstineDivision Chief, Youth Services
Office of the Kansas Attorney
General



Technical Assistance and Training

On-site, virtual and/or recorded assistance, customized for each jurisdiction, is provided to CDR and FIMR teams.



National Fatality Review-Case Reporting System

Support the NFR-CRS which is used in 47 states and provides jurisdictions with real-time access to their fatality review data.



Resources

Training modules, webinars, written products, newsletters, list-serv, website and more.



Communication with Fatality Review Teams

Regular communication via listserv, newsletters and regional coalitions.



Connection with National Partners

Develop or enhance connections with national organizations, including federal and non-federal partners.



Cause for Concern

CDR Teams are Uniquely Positioned to Improve Our Understanding of Farm-Related Deaths

- No one knows how many children die of farm-related incidents.
- Agricultural settings have many hazards and require ageappropriate supervision and rigorous plans for safety.
- A large majority of farms are exempt from most labor laws and safety regulations.
- Racial and socioeconomic disparities persist in farm settings.



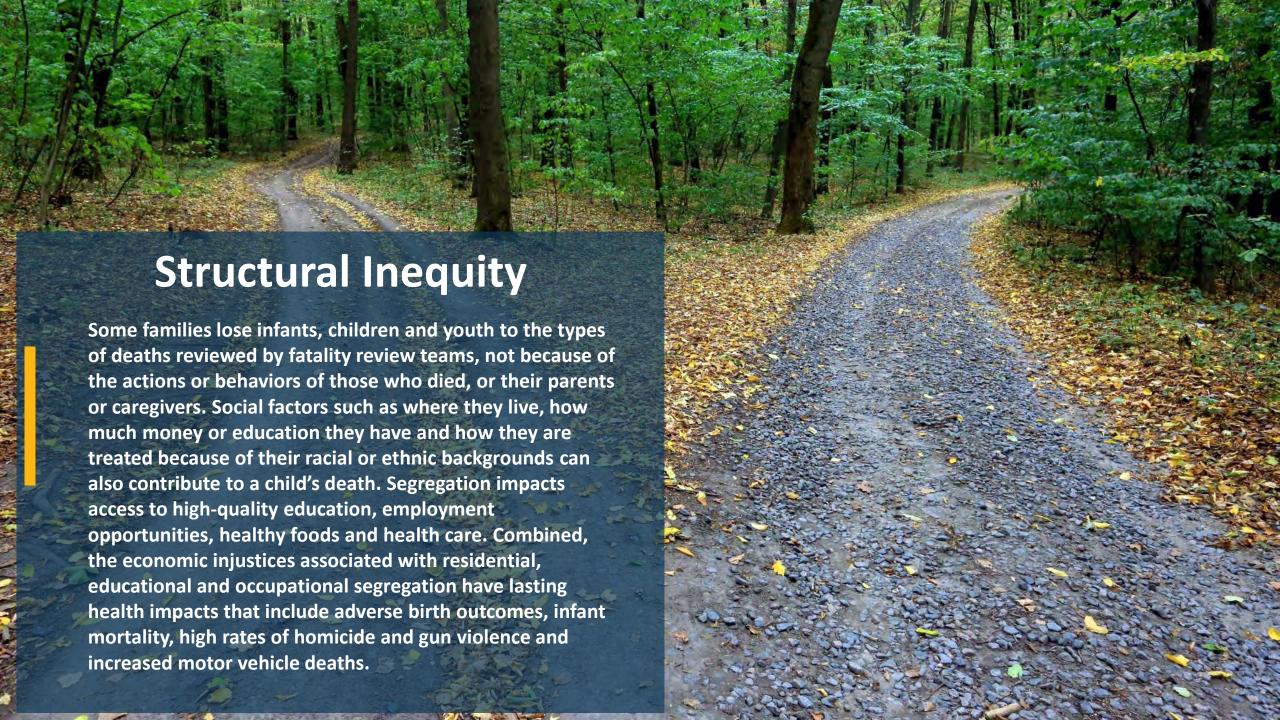


A farm is defined as any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the year.



DATA QUICK-LOOK

Youth who died on a farm in a rural or frontier geographical area



NFR-CRS Utilization

There are currently 47 states using NFR-CRS

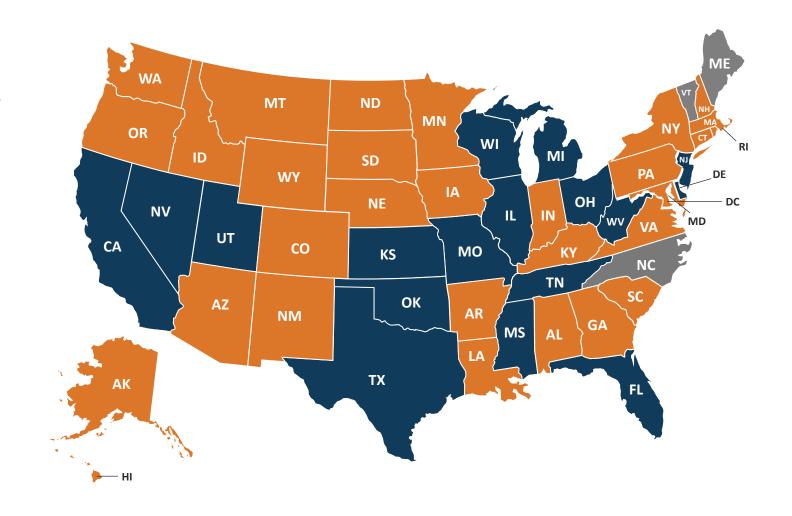
- 47 use NFR-CRS for CDR
- 17 use NFR-CRS for FIMR

Each state uses NFR-CRS differently. Some have comprehensive reviews whereas others may only use NFR-CRS in one jurisdiction.

States Using NFR-CRS for CDR

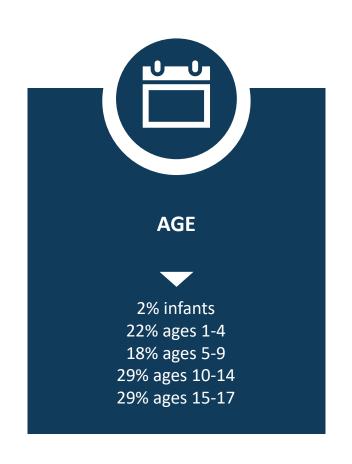
States Using NFR-CRS for CDR and FIMR

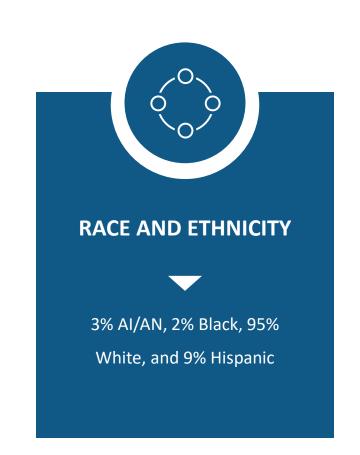
States Not Using NFR-CRS



Farm-Related Fatalities in NFR-CRS

CDR teams reviewed deaths of 478 children ages 0-17 who died on a farm between 2004-2020







Incident Characteristics

The day of the week with the highest proportion of farm-related fatalities was Saturday



of the farm-related fatalities occurred while the child's activity at the time of death was specified as working

Supervision

Over one-fourth of children who were not supervised were under 10 years of age

57% of children with known supervision status (n= 416) were unsupervised at time of death, the review team noted that:



Needed Supervision

38% of these children needed supervision



Did Not Need Supervision

62% did not need supervision due to child age or circumstances



Under 10

28% were under age 10



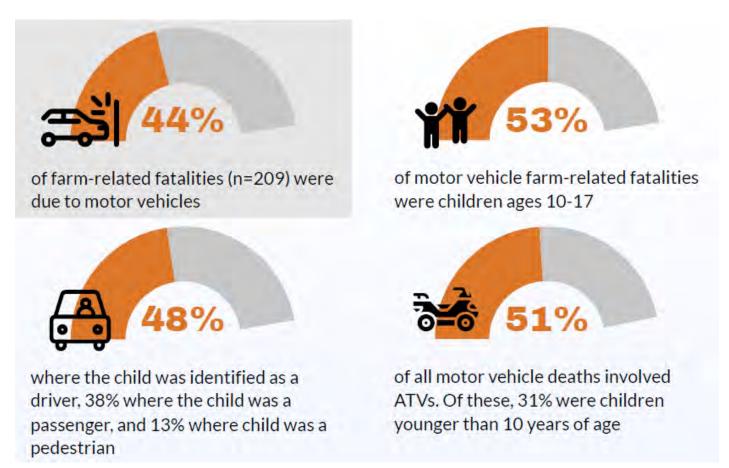
Ages 10-14

32% were ages 10-14

Of the 43% who were supervised, 72% were supervised by parents

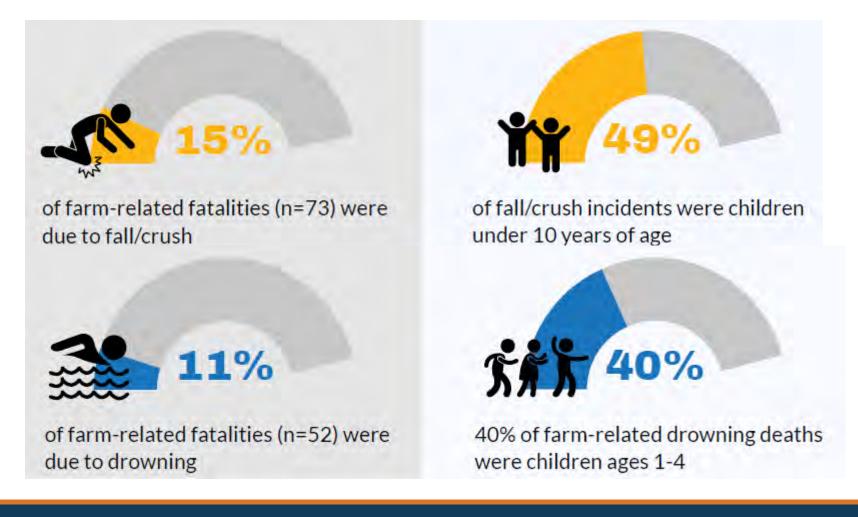
Motor Vehicle

The most frequent cause of death of children of farm-related fatalities was motor vehicle-related (44%)



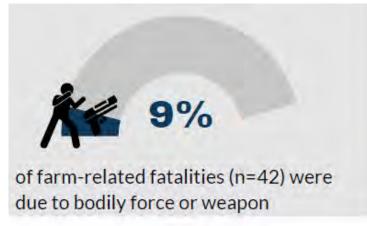
Fall or Crush and Drowning

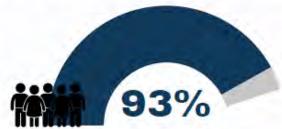
Children under 10 years of age accounted for the highest proportion of fall/crush and drowning deaths



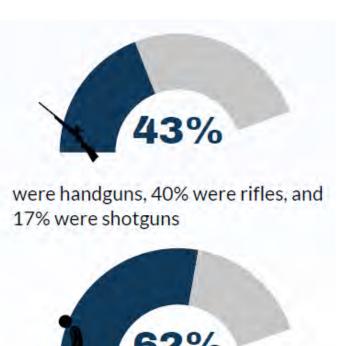
Bodily Force or Weapon

93% of the bodily force or weapon farm-related fatalities were due to firearms





of these deaths were due to firearms; of these, 69% were children ages 15-17 and 23% were ages 10-14



of firearm fatalities were due to suicide



NATIONAL CHILDREN'S CENTER

For Rural and Agriculture Health and Safety



Farm-Related Incidents: Special Considerations and Available Resources

Barbara C. Lee, PhD

Andrea Swenson, PhD

National Children's Center for Rural & Agricultural Health & Safety

Funding: National Institute for Occupational Safety and Health CDC/NIOSH U54OH009568



Fatalities & Farming



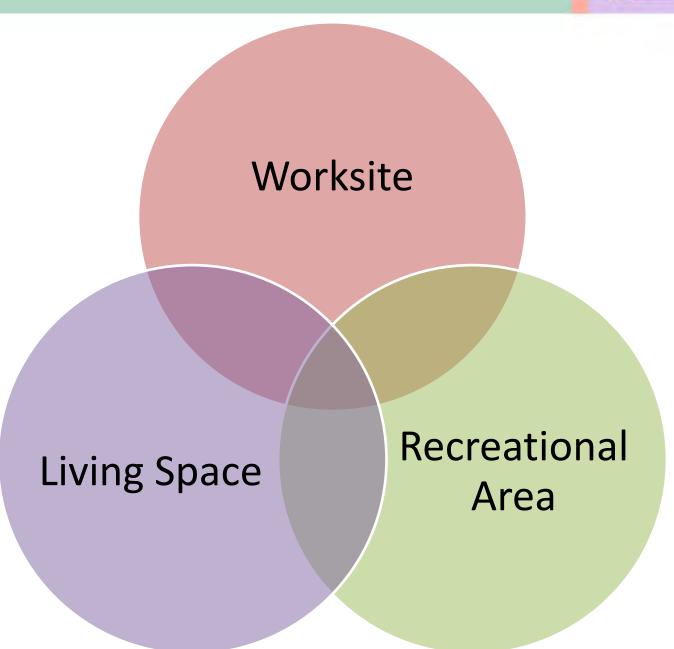
1987 Landmark article –
 "We Kill Too Many Farm Kids"

 In 1996, rough estimates were 300 child farm fatalities/year and > 300,000 serious child farm injuries/year



Farms: Unique Environments





Background Issues - Rural



- Higher poverty rate
- Higher food insecurity
- More likely to lack healthcare insurance
- Poor broadband internet and cellular connectivity
- Lack of child care services

Background Issues - Rural



- Higher risk of injury that is more severe and costly with poorer outcomes
 - Hazards present
 - Access to reliable transportation
 - Travel further for care

Background Issues - Farm



Child Ag
Injury &
Fatality
Data



Agri-Cultural
Norms
Regarding
Children

Responsible Federal and State Agencies

Child Farm Safety Resources







The National Children's Center for Rural and Agricultural Health and Safety strives "to enhance the health and safety of all children exposed to hazards associated with agricultural work and rural environments."

What do we do?



- Leadership for Child Agricultural Health and Safety
- Research
- Policy
- AgInjuryNews
- Child Ag Safety Network



Resources: Educational Interventions



Voluntary guidelines

- Agricultural youth work guidelines
- Safe play on farms guidelines
- Model policies for employers
- Recommendations for off-farm childcare







Resources: AgInjuryNews.org



AglnjuryNews (AIN)

- A growing collection of injury reports, primarily harvested from news media
- > 4,000 reports loaded and coded with OIICS & FAIC codes

AIN Research, Dissemination

- Testing news: behavioral intervention
- > 1,000 subscribers from 54 countries
- > 50 user accounts within
 U.S. Bureau of Labor Statistics





Resources: Network & Campaigns

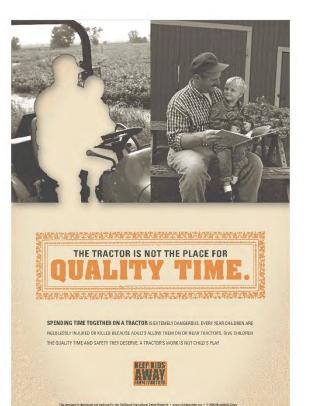


Campaigns to influence "culture" and behaviors



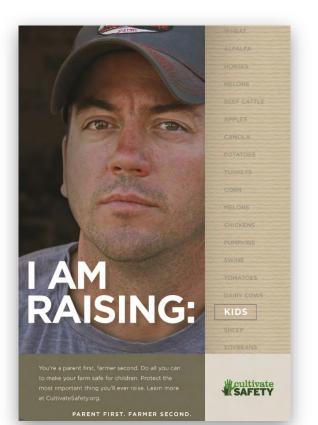
Child Ag Safety Network

- Online community
- Annual meeting





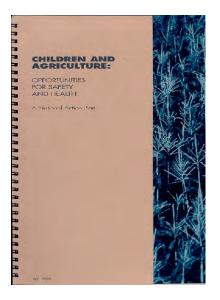


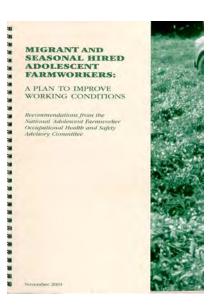


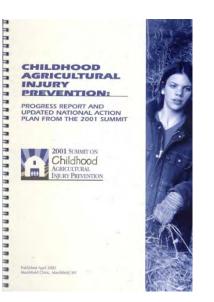
Resources: Nat'l Action Plan



- 2012 Blueprint for Protecting Children in Agriculture
 - Currently updating for a 2025 National Action Plan













SUCCESS STORY

Kansas State Child Death Review Board



REVIEW OF FARM-RELATED FATALITIES

National Center Guidance Document



June 2023

New Guidance Document

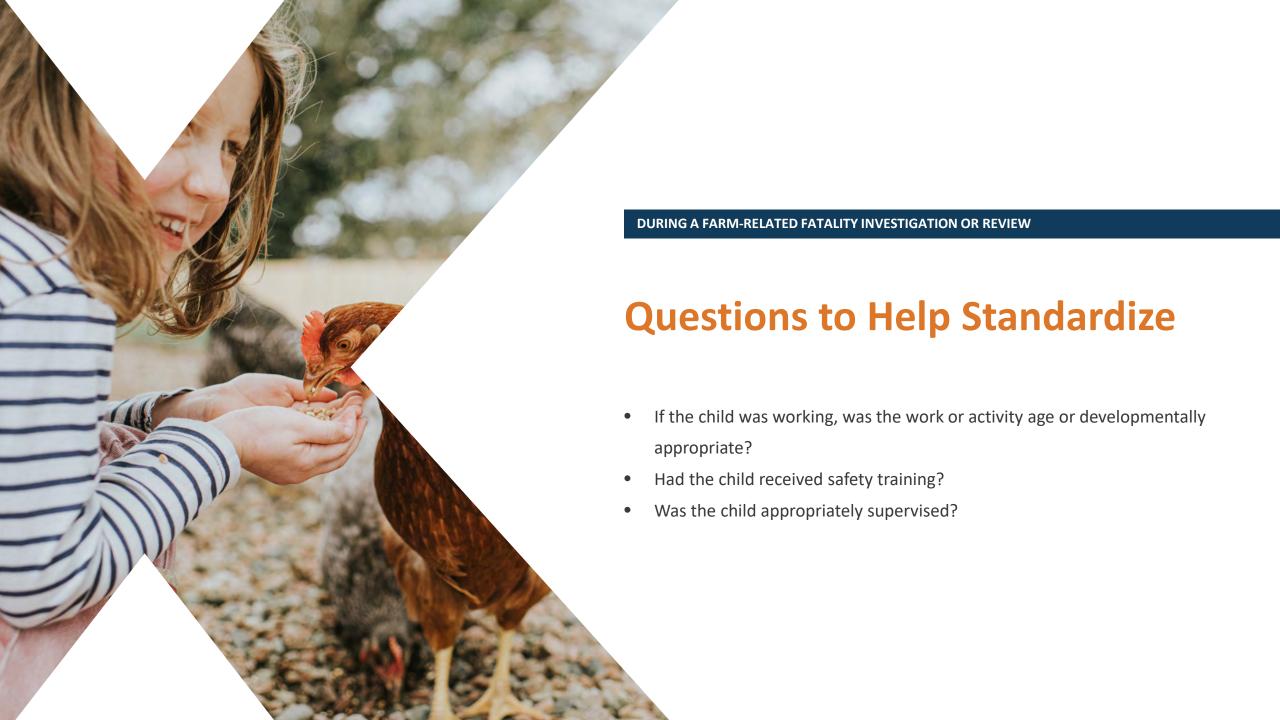
Questions Will Assist Teams and Team Members In:

- Understanding the burden of farm-related fatalities.
- Identifying questions to ask while conducting a farm-related death scene investigation.
- Building capacity for improved reviews.
- Improving data collection within the NFR-CRS.
- Highlighting the risk and protective factors present.
- Promoting well-being among team members.



Review of Farm-Related Fatalities

National Center Guidance Report





During a Review Meeting

Questions for Teams to Consider

- What layers of protection were in place?
- Was the child engaged in an age/developmentally appropriate activity?
- Are appropriate safety education opportunities available in the community?
- Does the team know how many, and the type of, fatal and non-fatal childhood farm injuries occur in the community?
- Were local/state safety regulations/ordinances/labor laws regarding agricultural work observed?
- Was exposure to hazards or lack of appropriate supervision a factor?
- Was the supervisor equipped to rescue the child?



Crush While Using or Riding Machinery

Questions about vehicle/equipment use, storage, and whether safety items were installed.



Machinery or Vehicle Incident

Questions about the driver and vehicle permission to use, accessibility/barriers, and if lock/tagout practices in place and were they followed.



Chemicals

Questions about ingestion, exposure, and chemical storage.



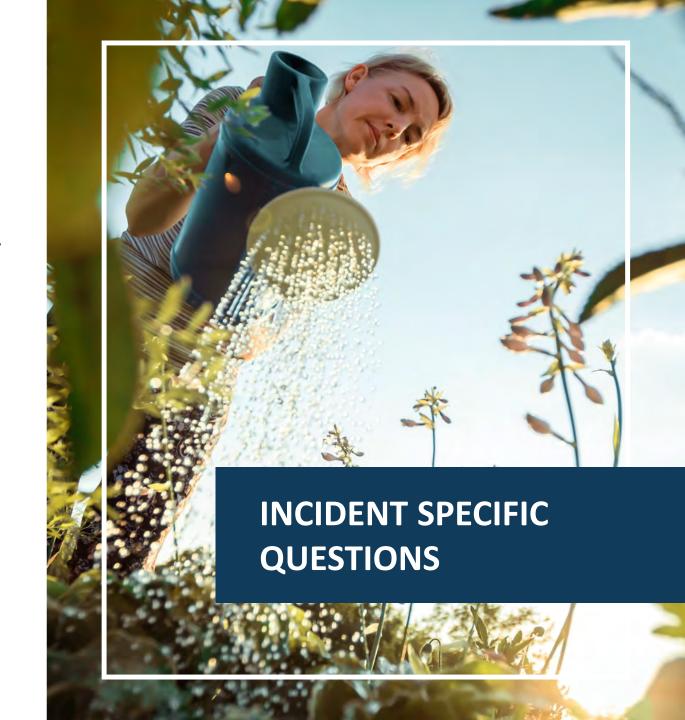
Silo or Grain Bin

Questions about safety procedures and training.



Death Caused by an Animal

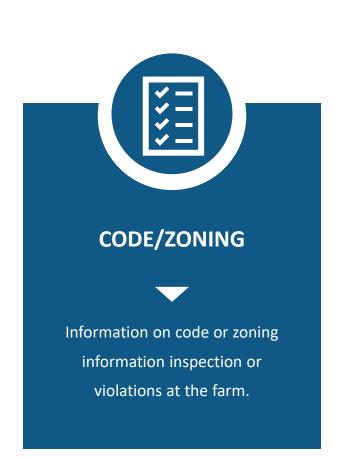
Questions about how the animal penned, barriers, hygiene, safety equipment education.



Critical Documents to Consider

For Reviews Specific to Farm-Related Deaths







QUESTIONS

What Additional Information Would Be Helpful?





USE THE QUESTION-AND-ANSWER BOX

The box is located at the bottom of the screen.



UNANSWERED QUESTIONS

All unanswered questions will be answered and posted on the National Center's website (URL: www.ncfrp.org).

Upcoming Webinars

From the National Center

Safe Sleep: Partnering with Treatment Providers

Thursday, October 12, 2023 1:00-2:00 PM ET

Join us to learn about effective strategies for engaging substance use treatment programs in discussions about infant safe sleep.

Register here.

"Was it Really Pneumonia?" Challenging Sudden Unexplained Infant Death (SUID) Cases

> Wednesday, October 25, 2023 1:00-2:00 PM ET

This webinar will focus on the unique challenges of reviewing sleep-related infant deaths when pneumonia is listed as the cause of death.

Register here.



EVALUATION

https://www.surveymonkey.com/r/32BRMMX







Phone: 800-656-2434



info@ncfrp.org

