Illinois Injury Surveillance Efforts



College of Agricultural, Consumer & Environmental Sciences

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

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Salah Issa

Department of Agricultural and Biological Engineering

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Outline

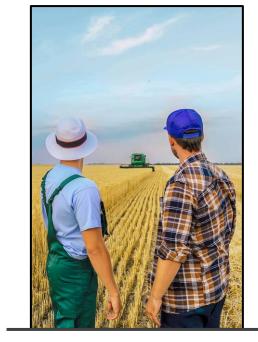
- Overview of agriculture-related injury and illness tracking programs active in Illinois.
- News clipping surveillance system
 - data collection methods
 - trends identified
- How surveillance information guides prevention



Why focus on Agriculture Injury Surveillance?

Deaths per 100,000 workers 21.3

Agriculture continues to be one of the deadliest industries in Illinois



Agriculture



Workers Overall



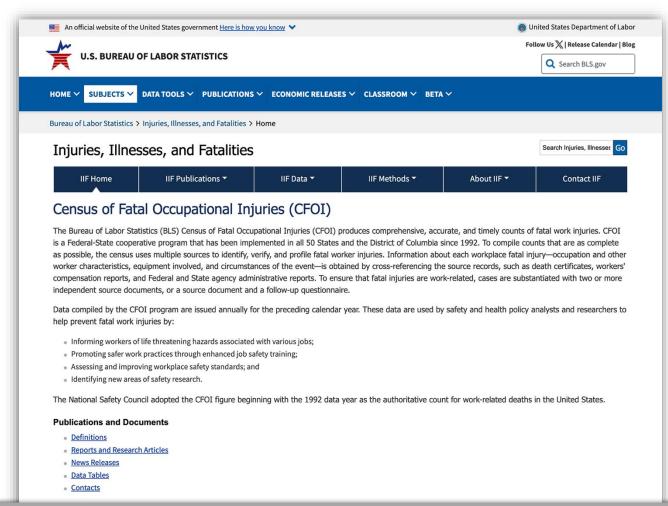
Why focus on Agriculture Injury Surveillance?



Bureau of Labor Statistics (BLS)

Census of Fatal Occupational Injuries (CFOI)

- Death certificates
- Workers' compensation reports
- Federal and State agency administrative reports



Bureau of Labor Statistics (BLS)

Survey of Occupational Injuries and Illnesses (SOII)

- Work-related injuries or illnesses to workers who require medical care beyond first aid
- Survey based
- Excludes
 - Self employed
 - workers on farms with10 or fewer employees
 - private household workers
 - Volunteers
 - federal government workers



Great Lakes Center for Farmworker Health and Wellbeing University of Illinois Chicago

- Develop a comprehensive system for tracking Illinois Farm Injuries
- Use:
 - Publicly available datasets
 - Worker Compensation Claims
 - Hospital Records
 - Emergency Medical Services
 - Clinic and Doctor's office records
 - Poison Centers
 - Police Crash Reports



the wellbeing of hired FWs. The proposed project will: 1) develop a comprehensive and integrated state-based occupational health surveillance

adoption, adaptation, integration, scale-up and sustainability in Illinois, the Midwest, and across the country.

system for identifying and characterizing WRIIs among hired FWs, utilizing existing data systems that principally capture acute moderate to severe illnesses and injuries: 2) integrate outpatient health data from clinics serving FW communities into our surveillance data repository, which would capture minor and chronic injuries and health conditions; and 3) translate evidence-based surveillance findings for targeted stakeholders for



UIUC: Agricultural Safety & Health Program

News clipping agricultural injury report

- Captures unique cases
 - Grain Entrapments
- Focused more on the severe cases (+ fatalities)
- Over 30 years of data.



Examples of News Clippings

Vandalia woman dies in rural Brownstown ATV accident

A 63-year-old Vandalia uary. woman was killed in an ATV accident in rural Brownstown on Sunday afternoon, according to Fayette County Coroner Dave Harris.

nounced dead at Favette County Hospital, Harris said.

She was born Oct. 15. (Rhoades) Vaughn, according to an obituary.

She married Charles E. purple." "Chuck" Davison on March shared over 13 years of marriage and had two children before his death on May 10, Heather of Brownstown; 1996.

Davison was employed by Vandalia Elementary School as a secretary for over 25 years, according to the obit-

"But she was much more than a secretary; she was the glue that held the school together," the obituary said. "When she wasn't working, Terri L. Davison was pro- she was spending time with her grandkids and family: she loved to travel, whether it be on vacation or just a 1959, in Vandalia, the daugh- trip to the woods to mushter of Wilbert and Marcia room hunt. Terri was a fan of the St. Louis Cardinals; she loved horses and the color

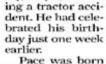
She is survived by her 19, 1983; together they parents, Wilbert and Marcia Vaughn of Brownstown; son, Kyle Davison and wife daughter, Kristin and husband Matthew Osorio of Ft. Campbell, KY; step daughter, Jenni and husband Kenny Warner of St. Elmo.

Highland man dies following tractor accident

By Dylan Suttles STAFF WRITER

HIGHLAND - A Highland man has died following a tractor

Douglas L. Pace, 48, of Highland, died Monday, May 8, follow-





May 1, 1975, in Granite City and married Vicki Bohnak in 1998.

He served in the Army for 10 years, from 1992 to 2013, According to his sister-in-law Julie Clayton, that service included time in Iraq, South Korea and Germany.

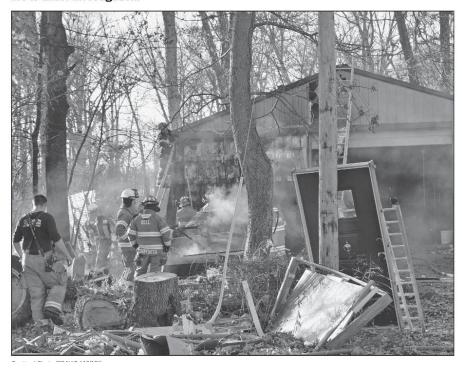
Clayton has created a Go-FundMe page to help Pace's family with his funeral expenses. The page, located at https://www.gofundme.com/f/please-help-thepace-family, has a goal of \$10,000. As of Thursday morning more than 75 donations had been made and the fund was at \$5,500.

A visitation for Pace is planned 9-II a.m. Saturday, May 13, at the Meridith Funeral Home in Highland, immediately followed by his funeral and burial in St. Joseph Catholic Cemetery in Highland.

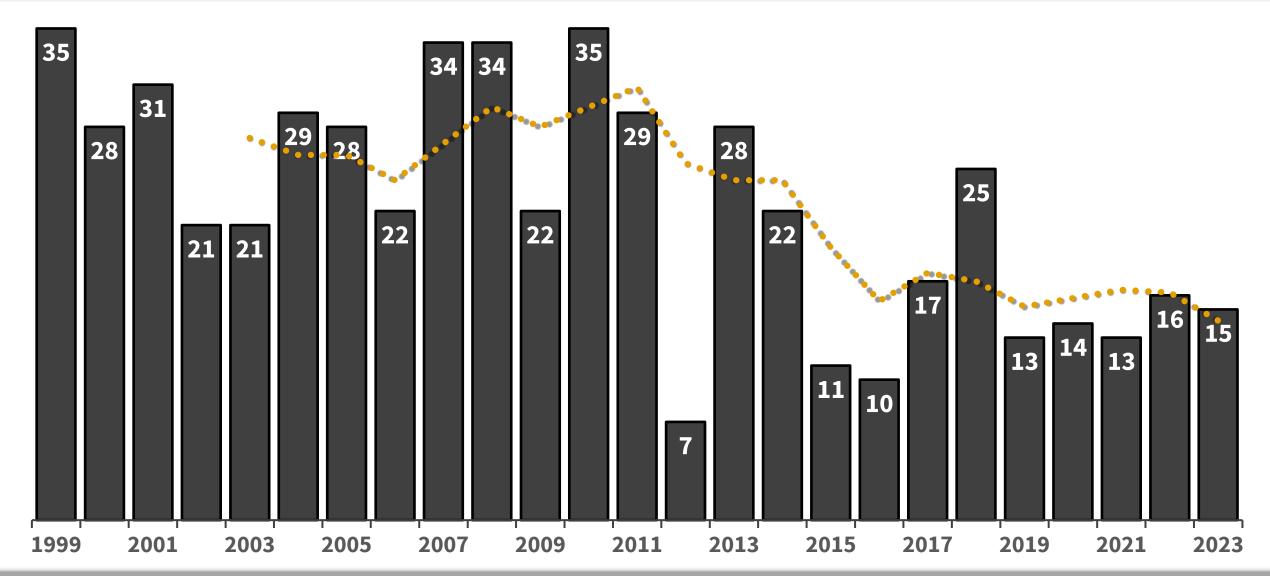
dylan.suttles@thetelegraph.com

Pole barn fire on Old Centralia Lane

Jefferson Fire Protection District and multiple other agencies responded to a large pole barn fire Wednesday afternoon in the 21200 block of Old Centralia Lane in Jefferson Countv. Authorities say one person was airlifted from the scene with injuries. The cause of the fire is under investigation.



Illinois Fatal incidents in the last 24 years





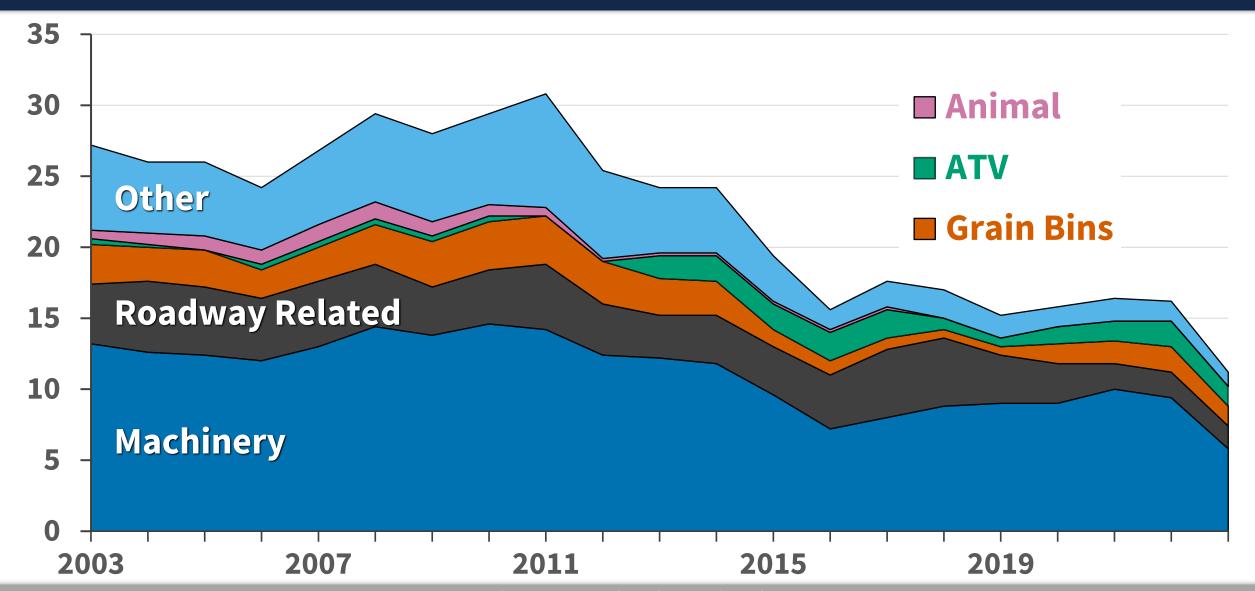
Two Decades of Agricultural Tragedy

Fatal Incidents in Farming (1999-2019)



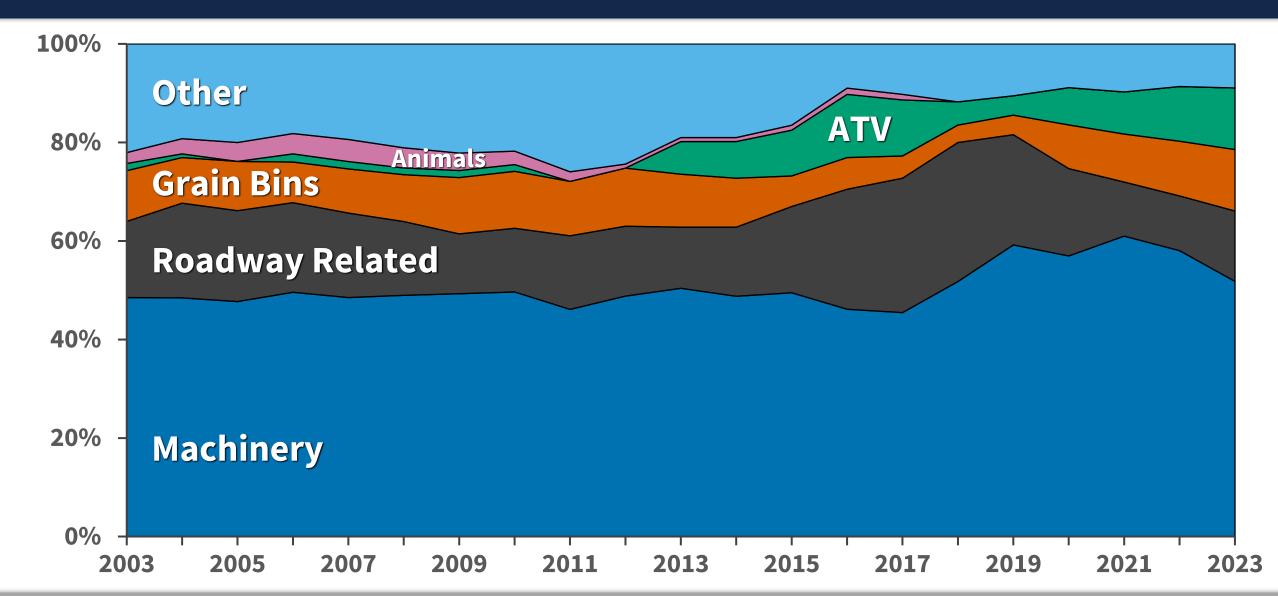


Average Number of Fatal Injuries



ILLINOIS

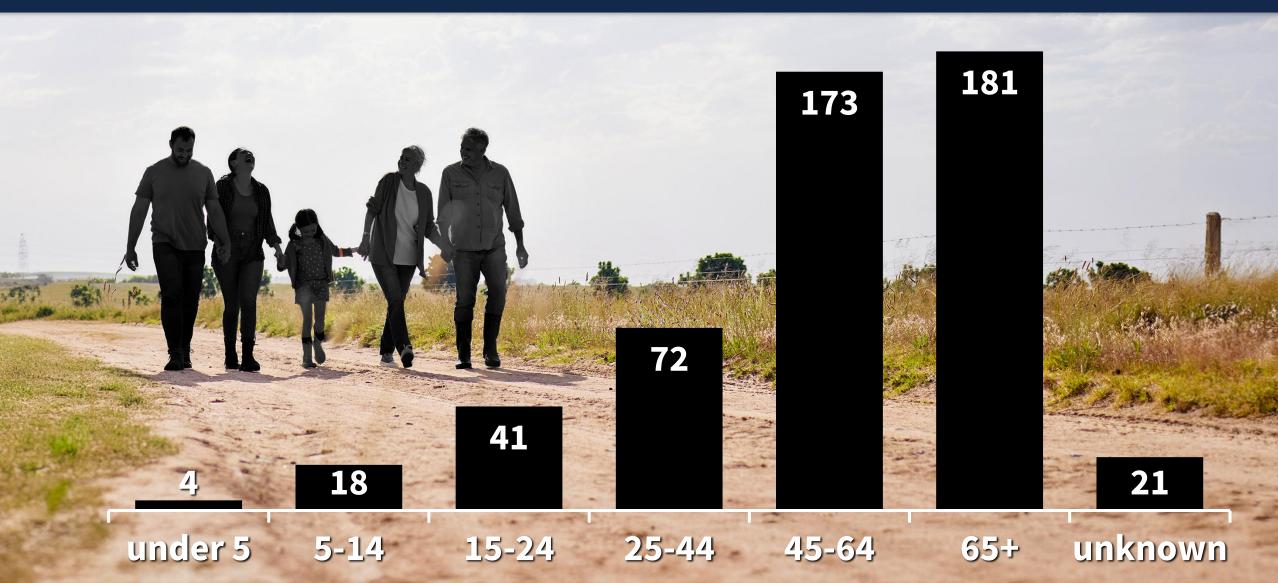
Percentage of Fatal Injuries



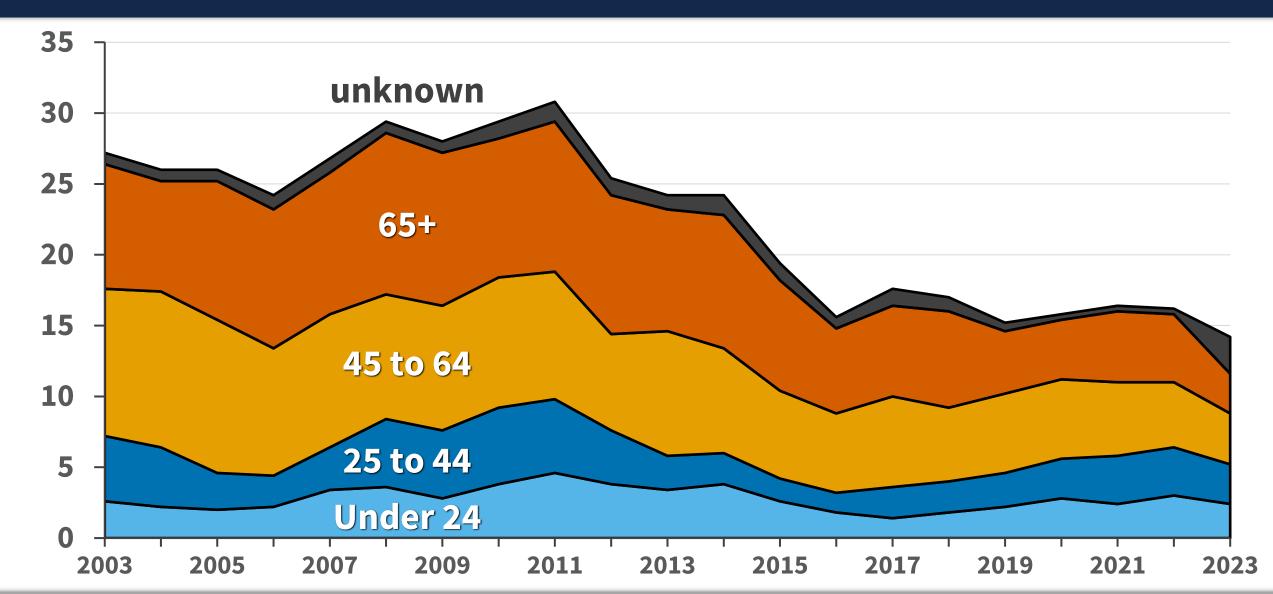


The Generational Impact

Fatal Farm Injuries Across Age Groups (1999-2019)

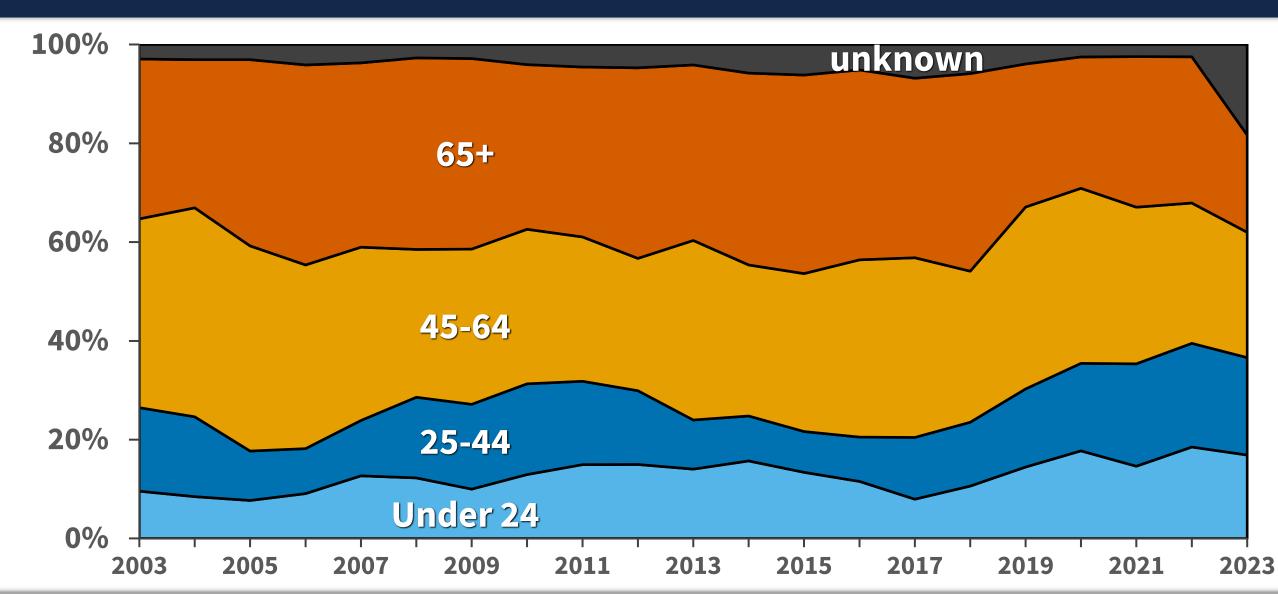


Number of fatal injuries by age



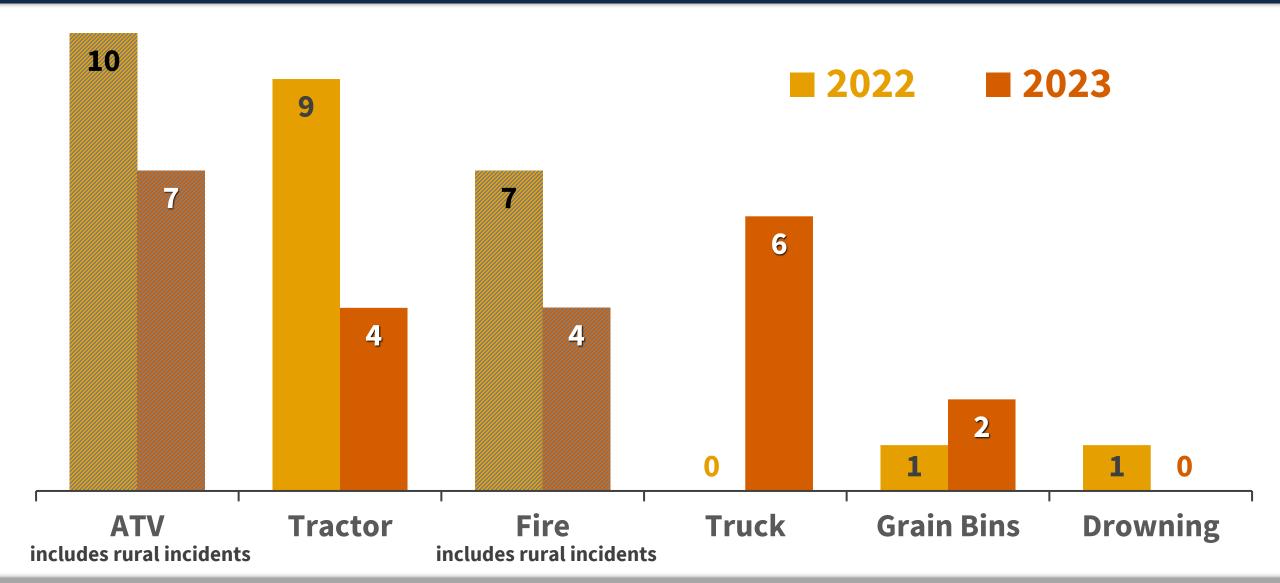


Percent of fatal injuries by age





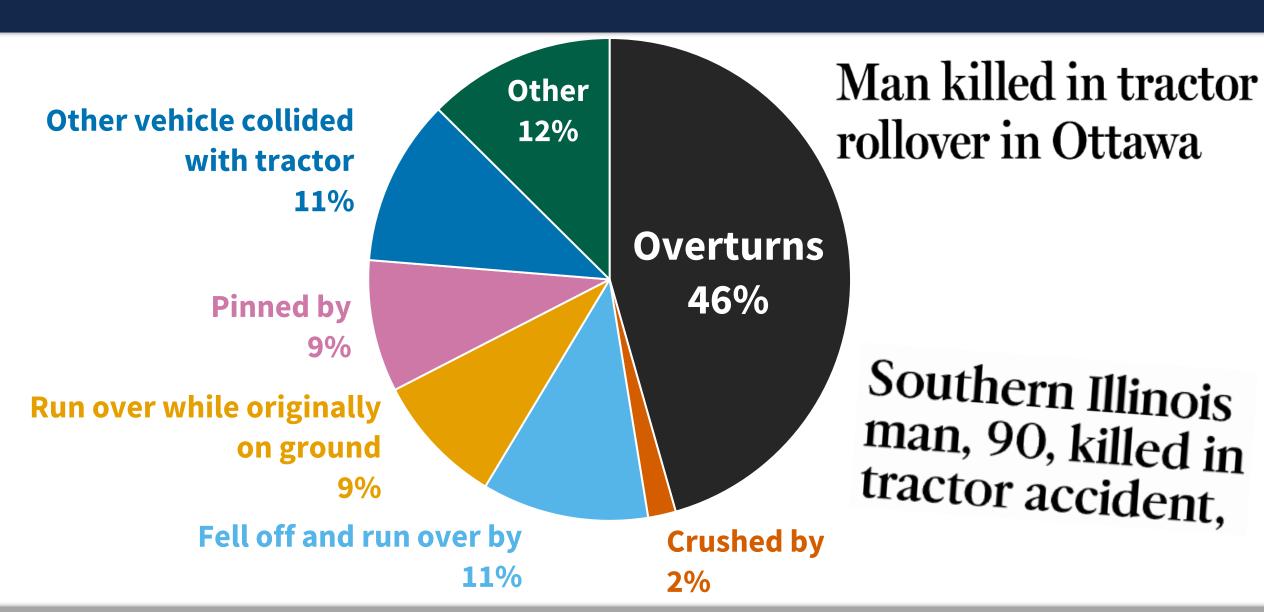
Recent trends in farm fatalities



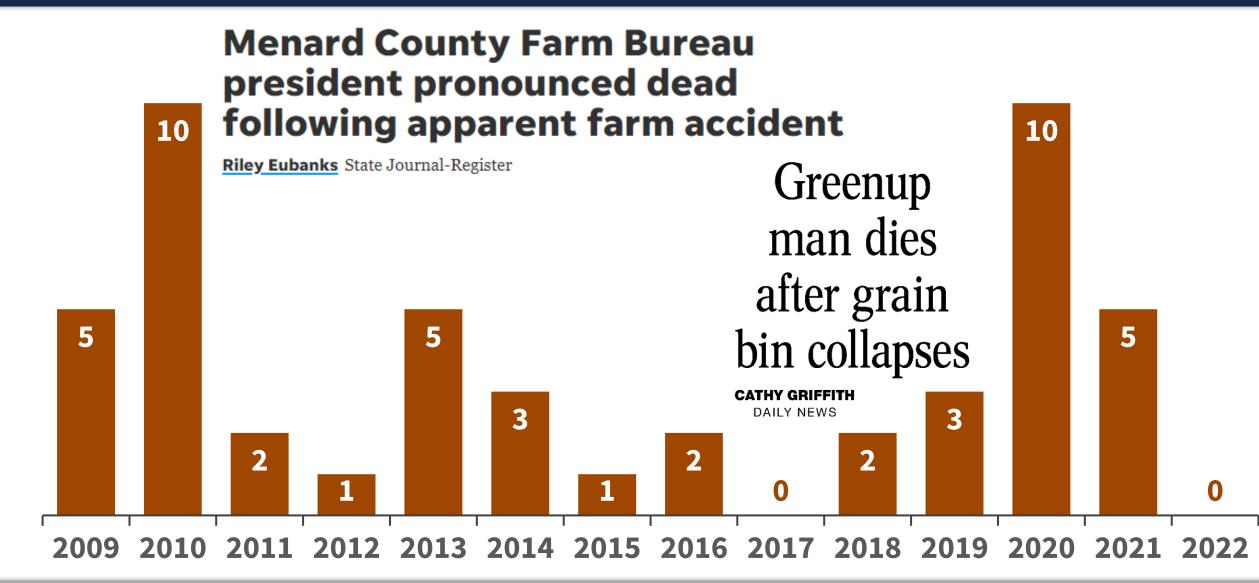




Tractors

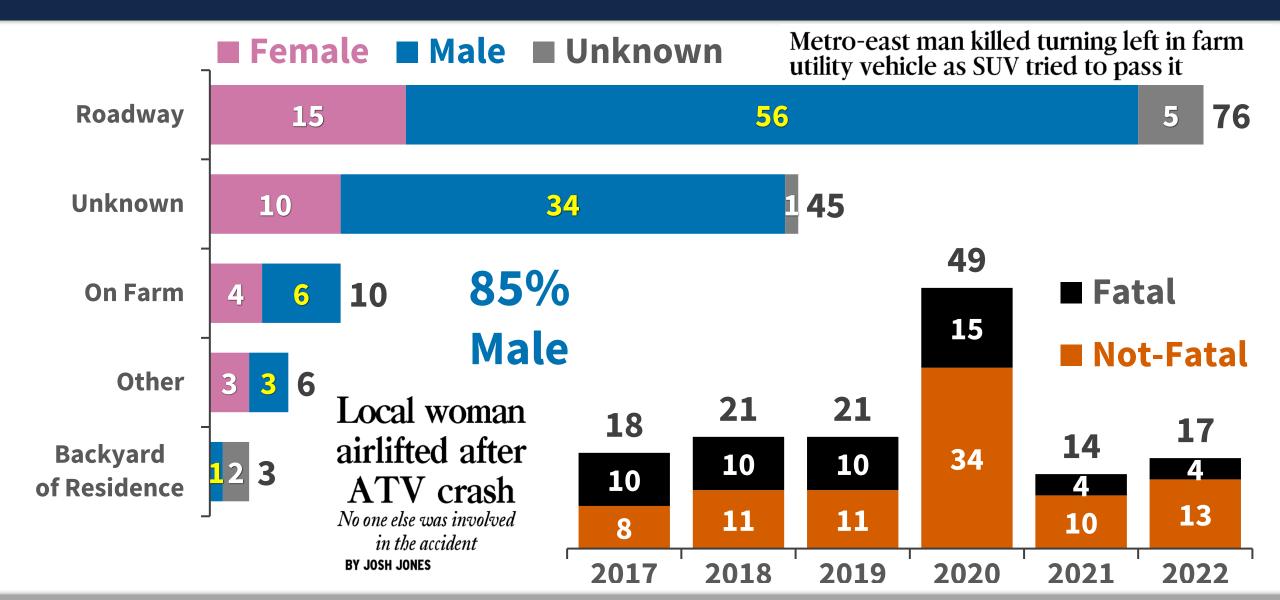


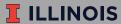
IL Grain Entrapment incidents over time





ATV/UTV Accidents in Rural Illinois (2017-2022)





Anhydrous Ammonia

5 dead after crash, anhydrous ammonia leak

ROB STROUD

rstroud@jg-tc.com

SCOTT PERRY

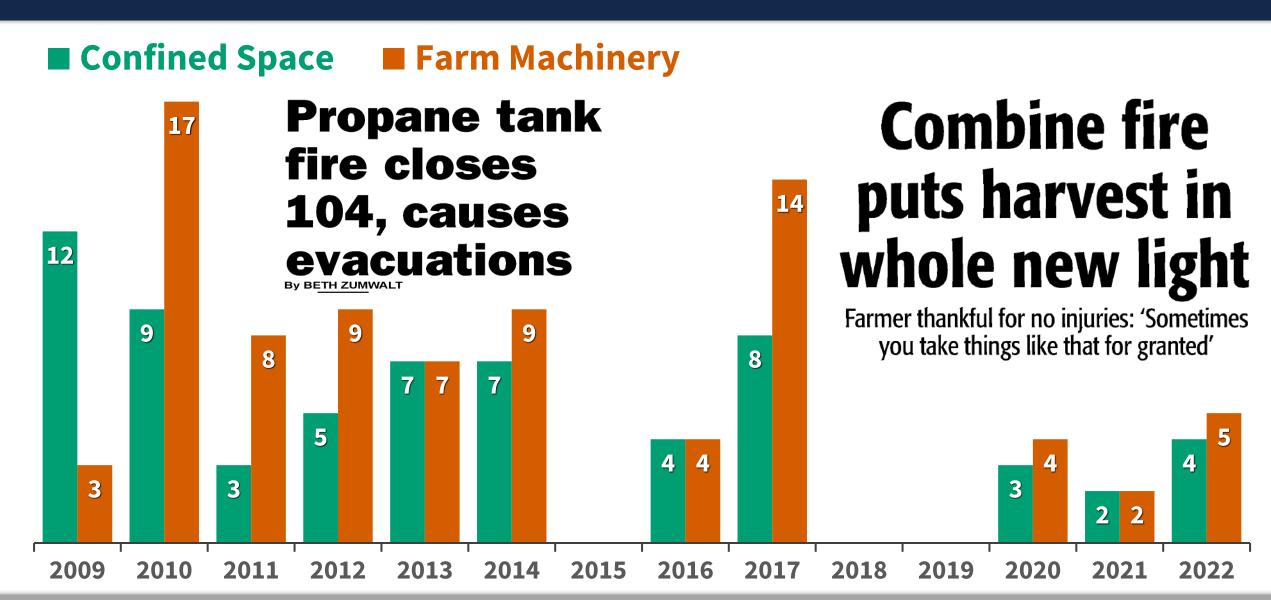
scott.perry@lee.net

Ammonia leak in Chicago suburb sends 37 people to hospitals





Farm Fires



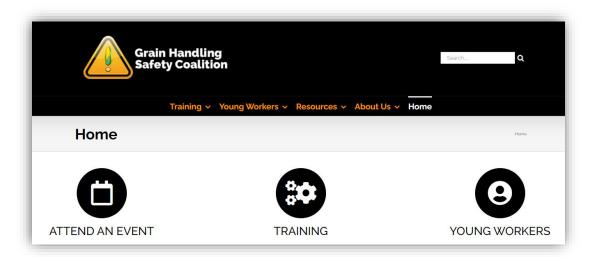
How surveillance information guides prevention initiatives

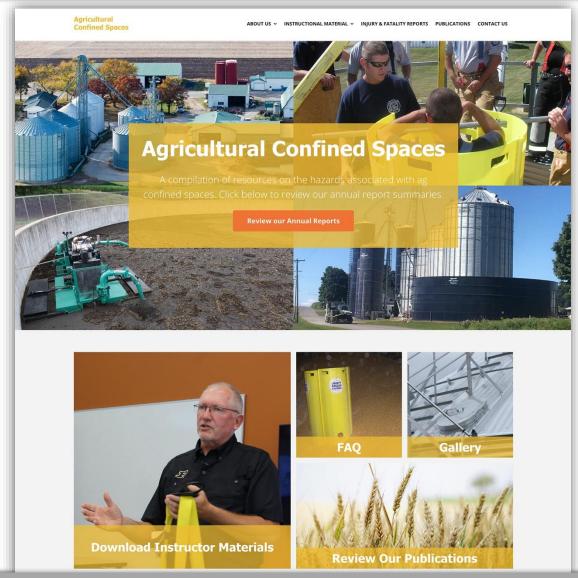


New Emphasis areas

Long term surveillance allowed for establishment focus areas:

Example: Grain Entrapments

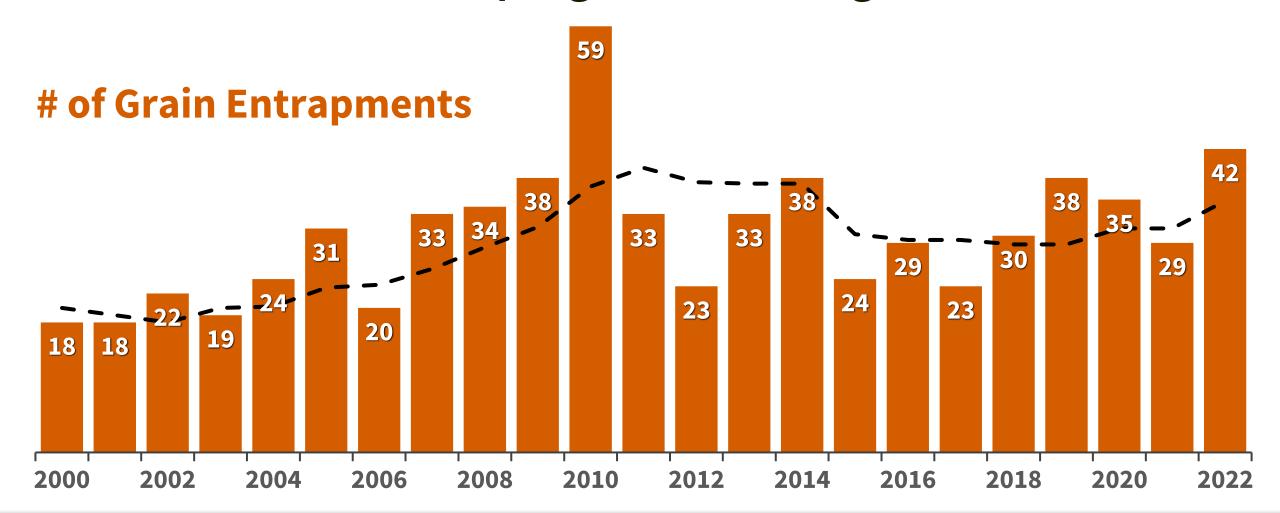






Track long-term progress

Are the initiatives and programs working





Track Demographics: Youth injuries

2022 Fact Sheet

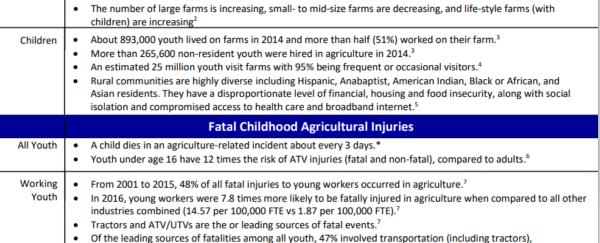
Childhood Agricultural Injuries



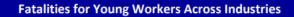
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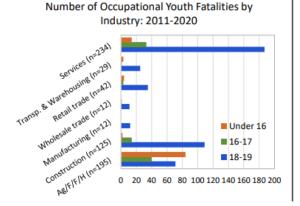
Agriculture had the leading number of occupational fatalities across industries for youth age 17 and younger from 2011-2020.

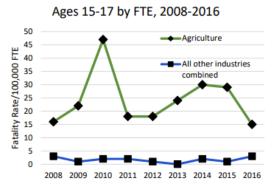
Population at Risk	
arms	 In 2021, there were approximately 2.01 million farms in the United States.¹ The number of large farms is increasing, small- to mid-size farms are decreasing, and life-style farms (with children) are increasing²
ildren	 About 893,000 youth lived on farms in 2014 and more than half (51%) worked on their farm.³ More than 265,600 non-resident youth were hired in agriculture in 2014.³ An estimated 25 million youth visit farms with 95% being frequent or occasional visitors.⁴ Rural communities are highly diverse including Hispanic, Anabaptist, American Indian, Black or African, and Asian residents. They have a disproportionate level of financial, housing and food insecurity, along with social isolation and compromised access to health care and broadband internet.⁵
	Eatal Childhood Agricultural Injuries



20% involved contact with machinery, and 13% involved violent contact with animals and other humans.8



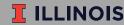




Ag/F/F/H = agriculture, forestry, fishing, and hunting; FTE = full-time equivalent; Transp. = transportation9. Data from US Bureau of Labor Statistics Census of Fatal Occupational Injuries.

- * From reported 115 agriculture-related deaths annually from 1995 to 2000.8
- ** From estimated 11,942 injuries in 2014.10
- † Household youth are youth who live on a farm.
- †† Converted from published 2005 dollars to 2022 dollars

NOTE: There is no central repository of childhood agricultural injuries. This fact sheet draws from the best available data.



Conduct programs

- Host Training &Outreach
- Secure funding



Events



Illinois Injury
Surveillance Efforts
July 16, 2024



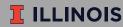
Farm Safety for Youth:
Keeping the Next
Generation Safe
August 20, 2024



Addressing Mental
Health and Stress in
Agriculture
September 17, 2024



Resources for Farmers
in Crisis
October 15, 2024



Conclusion

• The top three types of fatal injuries in Illinois are tractor-related, roadway-related, and grain bin.

Around half of the fatal incidents in Illinois

are machinery-related.

• Over one third (35%) of the victims are the elderly (over 65 years old)

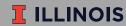


Conclusion

Surveillance is an important resource

- -Provide new focus areas
- -Support funding for new programs
- -Monitor progress

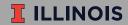




Conclusion

News clippings is an important source for tracking agricultural injuries

- -Tracks significant events occurring at rural communities.
- -Provides a glimpse into agricultural injuries
 - Is representative at fatality level.



Limitations

- The lack of any type of central required reporting/documentation process will continue to ensure under reporting of Ag-related incidents in Illinois
- News clippings by default means that number of incidents are under reported
- The data were limited due to the inability to conduct additional on-site investigations involving interviews with victims and witnesses



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