Working Safely on Farms



Maximizing the benefits while reducing the risks

Objectives

- Discuss the benefits of working on a farm
- Explore the challenges/risks to working on farms
- Contrast the risk to youth working in agriculture with other occupations
- Discuss strategies for addressing these challenges and risks
- Determine how to balance the risks and benefits

The Numbers

- ~893,000 children live on farms
- More than half of them work on the farm
- Over 265,000 hired youth work on farms (non-resident)

Perceived benefits

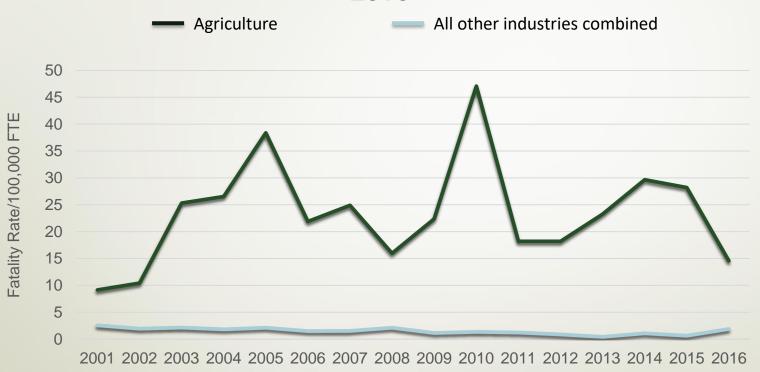
- Instills a passion, love and respect for land
- Lifelong friendships
- Work/bond with family
- Teaches about the life/death cycle
- Builds character
- Instills a good work ethic
- Teaches responsibility
- Better health
- Lots of room for kids to play
- Have the best pets

Challenges/Risks

- Injury/death
- Keeping friends/visitors safe
- Child care
- Creating fun
- Isolation
- Instilling a love for farming safely
- Keeping family in harmony
- Young workers

Working Youth

Fatality Rates in Agriculture vs All Other Industries, 2001-2016



Source: Fatal injury totals were generated by NIOSH researchers with restricted access to the Bureau of Labor Statistics (BLS) Census of Fatal Occupational Injuries (CFOI) microdata; additional information at www.bls.gov/iif/oshcfoi1.htm

Working Youth Injuries/Fatalities

Transportation incidents

Causes:



Young Workers

- Have less experience
- Engage in risky behavior
- Influenced by peers
- Don't often "speak up"
- Behaviors off the job
 can impact safety
 (sleep, emotional health,
 substance abuse, etc.)



How can we address these challenges and risks?

Youth Working in Agriculture

- Work at younger ages & in more hazardous jobs
- Developing bodies 2 coordination, balance, reach
- Developing brains
 attention span, impulse control, decision making
- Fatigue, substance use, and distracted behaviors



What's in a number (age)?

Despite the designation of age 18 as an adult by legal standards in many jurisdictions, there is nothing magical about this age in terms of psychological and physical development. We know that the human body, especially the brain, continues to develop and mature up to age 25, and sometimes beyond.

David Schwebel, PhD
Child Development Specialist, Professor of Psychology
University of Alabama – Birmingham

Top 5 Injury Statistics:

A child dies in an agriculturerelated incident about every 3 days

Agriculture is one
of the most dangerous
occupations in our nation,
and the only worksite in the
U.S. where children of any
age can be present.

Every day, about 33 children are injured in an agriculture-related incident

The number
of ag-related
youth worker
fatalities is higher
than all other
industries
combined.

Many
agricultural
work-related injuries
and deaths are
associated with children
doing work that does
not match their
developmental
level

60% of child ag-related injuries happen to children who are not working

Source: 2019 NCCRAHS Resource Brochure:

www.cultivatesafety.org/resources

Before Assigning Work

- Assess the worker's ability to perform the task, regardless of their age.
- Assessment includes, but is not limited to
 - physical and cognitive abilities
 - experience with similar or precursor tasks
 - successful demonstration of current task 4-5 times under supervision
- Supervisors must also provide training, supervision and enforce policies.

Working Youth



- Used by supervisors/parents
- Assign tasks based on ability
- Mobile friendly website
 - Interactive
 - Read
 - Download
 - Print



Can youth do this job safely?

Youth must be able to do/have all of the following to

- · Reach and operate controls while wearing a seatbelt · Strength to repeatedly operate controls
- Tall enough for good field of vision when seated on tractor
- Understand and consistantly repeat a 10-step process Recognize a hazard, problem solve, and respond
- · React quickly to hazards
- Mature enough to consistently do what is expected
- Think through actions and consequences before acting
- Avoid loose clothing, clothes with strings, tie back long hair · Comply with the working outdoors guideline
- Safely demonstrate the job 4 to 5 times
- Maintain two-way communication link



Note: Ensure tractor is sized appropriately for youth. Youth

must be 16+ years to drive an articulated tractor. See <u>Tracto</u> Operations Chart for quidance.

Intermittent supervision progressing to

Adult Responsibilities

- Ensure tractor is mechanically sound and safety features are in place, including ROPS
- Review developmental guidelines to verify youth's ability to
- operate tractor
- Demonstrate how to safely drive tractor · Provide appropriate training
- Educate youth to mount tractor using 3 points of contact
- · Ensure work area is free from as many hazards as possible
- · Educate youth on avoiding/addressing remaining hazards
- · Ensure youth does not operate tractor after dark/in bad weather · Train youth to call an adult if equipment malfunctions

16+ years Periodic supervision

Supervision

Hazards



Protective Strategies

periodic













Ability



Operating a Tractor

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Youth must be able to do/have all of the following to perform this job safely:

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Supervision

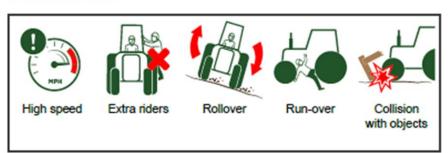
Note: Ensure tractor is sized appropriately for youth. Youth must be 16+ years to drive an articulated tractor. See <u>Tractor</u> <u>Operations Chart for guidance</u>.

14-15 Intermittent supervision progressing to

years periodic

16+ years Periodic supervision

Hazards



Protective Strategies



Respiratory

protection

(if needed)

Printing & Customizing



Accidents

Resources

Search / Operating a Tractor / Guideline Save-Print

Operating a Tractor



Back To Full Guideline

PDF Options

Select a PDF skin tone, and then the equipment color. Then download or print the PDF that previews on the left.

Skin Tone Light

Equipment Color

Download

Print

Description

Work guideline to help adults protect and supervise youth while operating a tractor.

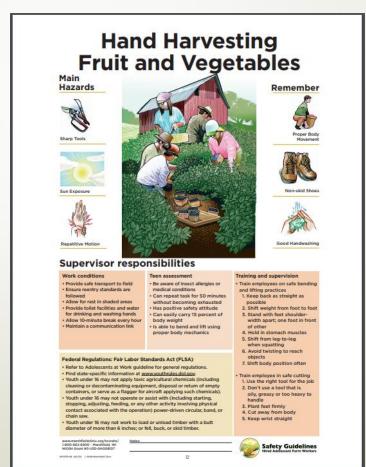
Related Resources

DOI: https://doi.org/10.21636/nfmc.nccrahs.youthwork.operatetractor.g.2017

Hired Youth

Safety Guidelines for Hired Adolescent Farm Workers

- Training tip sheets
- Safety posters
 - Work conditions
 - Teen characteristics
 - Training & supervision info
 - Fair Labor Standards Act
 - Hazards
 - Things to remember
- English & Spanish



Regulatory Agencies in Ag

- The Occupational Safety and Health Administration
- The Environmental Protection Agency
- State Codes: Department of Transportation
- Code of Federal Regulations
 - 29CFR1928.51 and 29CFR1928.57
- Department of Labor
 - Hazardous Occupations Order in Agriculture









Hazardous Occupations Orders in Agriculture (HOOA)

- In 1968, U.S. Department of Labor declared eleven agricultural tasks too hazardous for youth younger than 16.
- The law does not apply to youth younger than age 16 who are employed, either with or without compensation, by their parents or legal guardian.
- 14 & 15 year olds can be exempt from certain portions of the law. This exemption applies to agricultural tractors & specific types of farm machinery.

AgHO's: 11 Hazardous Tasks



6. LADDER and SCAFFOLD Working from a ladder or scaffold (painting, repairing, or building structures, pruning trees, picking fruit,

AGRICULTURAL WORK CLASSIFIED AS HAZARDOUS

bucking, skidding,

loading, or unloading

of more than 6 inches.

timber with a butt diameter

etc.) at a height of over 20 feet.

LEARN MORE AT: www.agsafety4youth.info

ammonia.

transferring, or

applying anhydrous

AgHO's Penalties



- Penalties can be strict if youth are subjected to hazardous occupations.
- Youth are not penalized for the infractions, but the employer can be.
- The penalty to the employer for the first offense can be up to a \$10,000 fine for a willful violation.
- For a second offense, up to a \$10,000 fine and/or imprisonment for not more than six months can be assessed.

AgHO's Exemptions

- Minors working on a farm owned or operated by a parent or legal guardian
- Minors 14 or 15 years of age completing a tractor and machinery certification program
 - Exempt for tasks 1 & 2
 - 4-H Extension program
 - Vocational / Ag Science program
- Student learner enrolled in an Ag Science classroom working as an apprentice under a written agreement with the ag employer
 - Exempt for tasks 1 6

Safety in Agricultural for Youth

A National Initiative



National Steering Committee









United States Department of Agriculture National Institute of Food and Agriculture









SAY: Project Vision

Sustainable and accessible national clearinghouse for agricultural safety & health curriculum for youth

Multiple programs/projects/activities that:

- Increase safety & health knowledge
- Reduce hazard and risk exposure youth have while on farms and ranches

September 2013 – August 2021



Web site hosted on eXtension's Ag Safety and Health Community of Practice website:

ag-safety.extension.org/SAY

SAY homepage is the hub to access all of the project activities with links to newsletters, websites of project partners, and MORE.

Teacher Resource Guides - Animal systems and Power, Structural and Technical Systems

Injury Risk Assessment Tools for Supervised Ag Experiences for FFA

Videos on how to use the Clearinghouse and integrate it into the classroom

Curriculum Alignment Submission Tool (CAST)

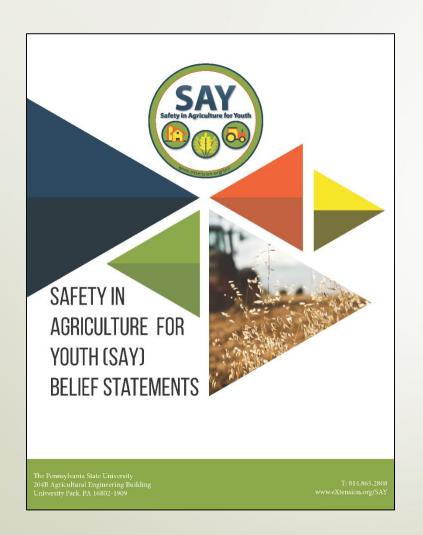
Clearinghouse evaluation - National Children's Center

www.ag-safety.extension.org/SAY

Expanding the Clearinghouse

The Curriculum Alignment Submission Tool (CAST) allows authors/programmer to submit their curriculum or resource to see if it aligns with the AFNR standards to be included in the Clearinghouse

Name of Submi	tter:
Name of Organi	zation:
	ii.
Email Address:	
Phone Number:	



.... An important goal of the committee is the articulation of consensus-based beliefs and principles that promote safety and health for youth working in agriculture. It is through these practices that we can collectively improve the safety and health of youth working in agriculture.

Working Youth and Supervisors

Adults/Supervisors

- Assign tasks
- Provide training
- Mitigate/address hazards
- Provide PPE
- Set boundaries and rules
- Enforce policies/procedures
- Provide a role model

Youth

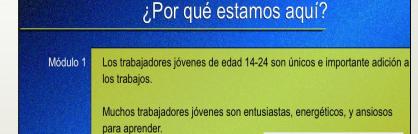
- Perform tasks
- Follow rules/guidelines
- Ask questions
- Wear PPE

Supervision Training

- Online, interactive training for supervisors of young workers in English and Spanish
- Raise awareness of risks
 - including factors not traditionally considered workplace hazards
- Build supervisor's skills to protect young workers

www.AgOSH.org





Como supervisor de trabajadores jóvenes, usted tiene la oportunidad de influir en las actitudes de los trabajadores jóvenes hacia la seguridad en la granja.

Training for Supervisors

- Participate in a study
 - Evaluate online training
 - Supervisors of young agricultural workers
 - English or Spanish
- Receive \$50
 - Complete Survey and Training
 - Complete a follow-up survey 6 months later
- You are eligible if you are:
 - At least 18 years old
 - Supervise workers between 14-21 years



Model Policy

- Background
- Details of policy
- Info on development
- Guidance for adapting policy

Updated 6.17.14



Model Policy: Youth Employment in Agriculture

Background

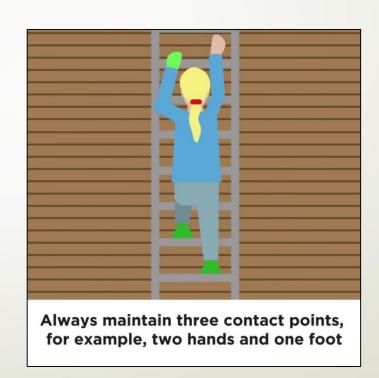
Agricultural operations are hazardous by nature and special protections need to be in place to protect youth and untrained workers from the hazards found in specific jobs, locations, and practices. With proper job training, adequate supervision, occupational health and safety education appropriate for the age and developmental level of the learner, and consistent enforcement of work rules, farm work can provide safe and valuable introductory work experiences, and important income opportunities. In many cases, farm work may provide the only introductory employment opportunities available for adolescents. These early employment experiences are increasingly important in motivating young people to seek a career in the industry and enter college programs in farming, food processing, food marketing, landscaping, horticulture, and other agricultural disciplines. Positive early work experiences, hands-on vocational educational training opportunities, and robust post-secondary education programs in agriculture and agribusiness are critical to the future of American agriculture and continuation of our abundant, diverse, safe, and economical food supply.

Ideally, youth will have developmentally- and age-appropriate agricultural work opportunities that can be performed safely and are within their physical, cognitive and emotional abilities. Young workers must be afforded extra protections from hazards or situations that would subject them to undue risk of injury or long-term health risks. The National Council of Agricultural Employers (NCAE) is the national trade association focusing exclusively on agricultural labor issues from the agricultural employer's viewpoint. Over 300 strong, NCAE members are growers, associations, and others whose business interests revolve around labor intensive agriculture. NCAE has a model workplace policy prohibiting unauthorized workers including underage children in the workplace. NCAE also has a 2010 "Youth policies in U.S. Agriculture" position paper. At the annual meeting of NCAE in Washington DC of February 2013, with 80 plus members in attendance, a panel with youth safety experts discussed the value of developing a model policy on youth employment that expands upon the earlier NCAE position statement. It was suggested that with more recent events surrounding regulatory proposals and more information about injuries experienced by youth working in agriculture, now is a good time to update, expand and promote a model position paper.

Through a series of teleconference calls, in-depth discussions were undertaken of relevant voluntary standards and regulations already in use and specific areas of concern regarding job assignments for youth. All drafts and updates were reviewed by members of the 20-person task force.

What Else?

- Supervision
- Child Development
- Benefits of Farm Work
- Communication Plan
- Bending, Lifting & Climbing
 - Videos
 - Fact Sheet



Additional Resources

CultivateSafety.org







Search Site

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Accidents

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AgInjuryNews

A publicly available interactive dataset of more than 3,000 farmrelated injury reports.

Visit Site



Safe Agritourism

Provides information and over 200 free resources to help Agritourism operators keep visitors safe.

Visit Site



Farm Mapper

Digitally identify and map hazards through a birds-eye or augmented reality view.

Visit Site



Safe Return to Work

Empowering clinicians to provide injured workers with effective and adaptive return to work options.

Visit Site



Safer Farm

Allows anyone the ability to accurately recognize and resolve potential farm hazards.

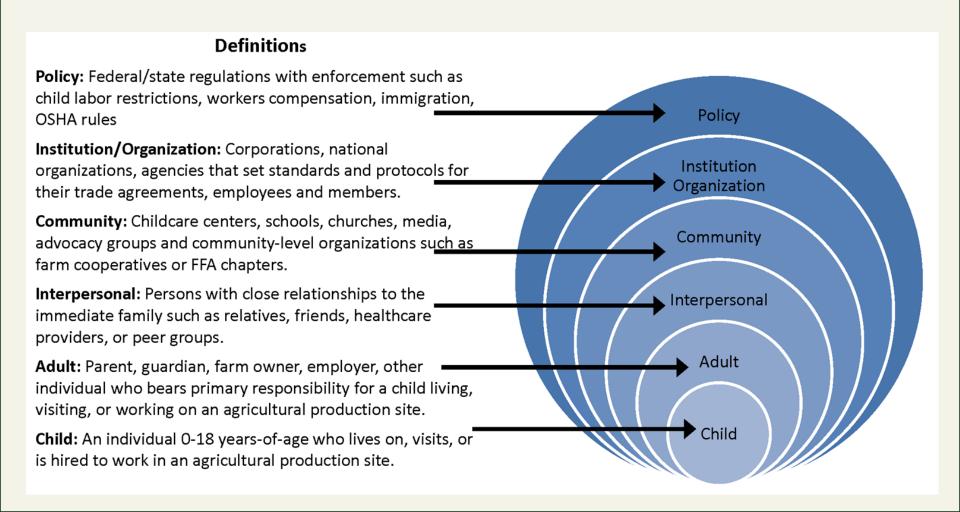
Visit Site





Revisiting the SEM

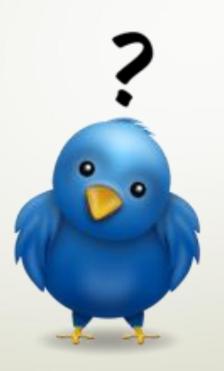
Who do we need to reach?



Interactive Activity

- Injury incident just occurred multiple scenarios
- News report about the incident
 - Each group has a different incident
- Media person requested follow-up interview
 - Provided a list of questions
 - Will "call back" to do interview
- 20 minutes to prep answers
- Reporter will "interview" each table

Questions?



Thank You to our Sponsors!







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