

Ensuring Safety on the Agritourism Farm



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2019 Virginia Agritourism Conference
April 4, 2019

**University
of
North Carolina**



**North Carolina
State University**

**East Carolina
University**

**North Carolina
A&T State
University**

Mission

To promote the health & safety of farmers, fishers, foresters, their workers & their families through research, prevention/intervention & education/outreach.

Simply speaking: Our job is keep fishermen, foresters, and farmers safe and healthy!

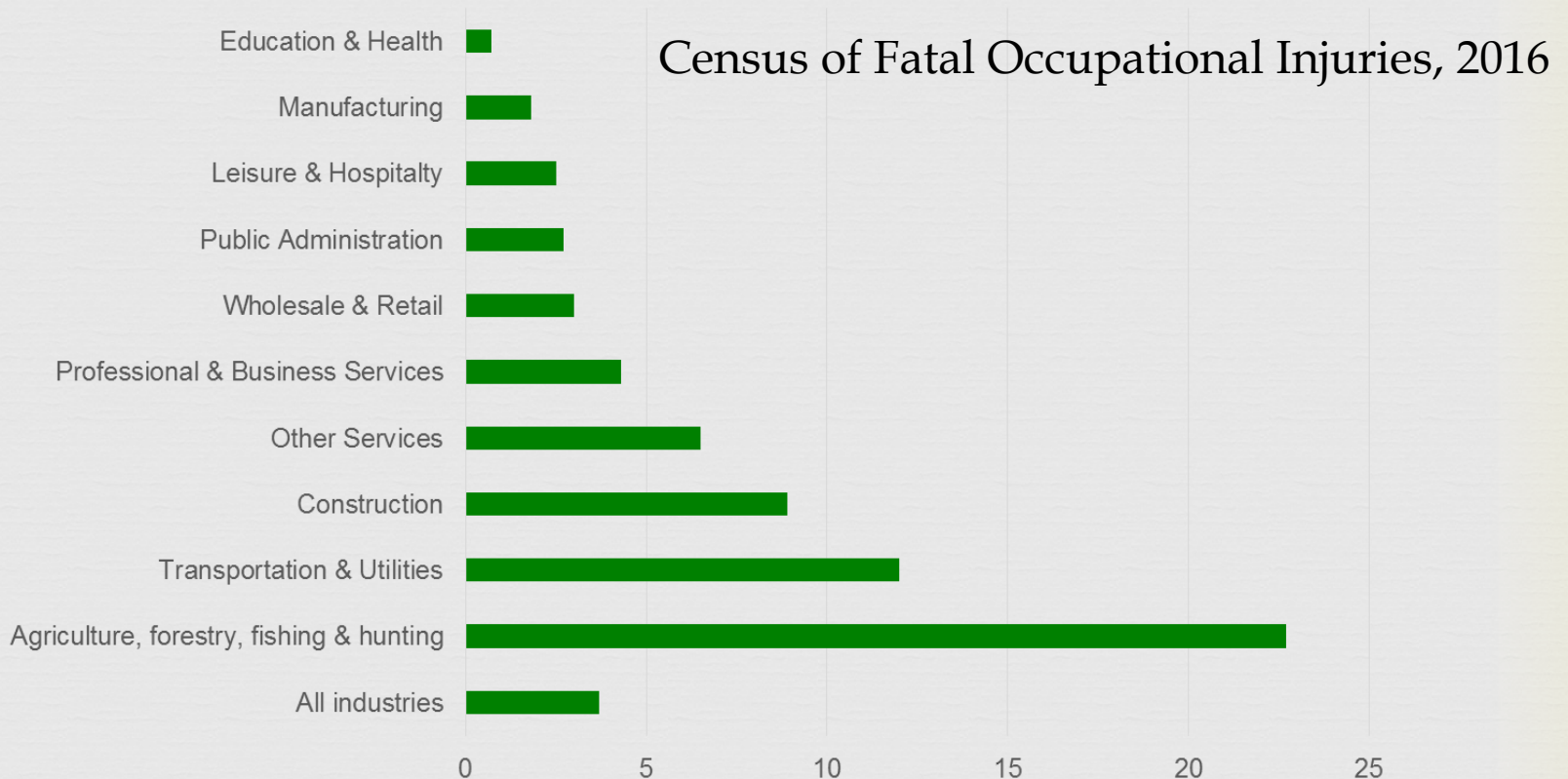


Let's chat about....



Why farm
health & safety
is important

Why is health & safety important?



Rate per 100,000 workers
US Department of Labor-Bureau of Labor Statistics

Why is health & safety important?



To avoid:

- ❧ Injury, illness or death of visitors &/or employees
- ❧ Negative publicity & loss of income
- ❧ Being sued
- ❧ Legal costs, time commitment & the stress and strain of dealing with the after math of an incident
- ❧ Increased liability and workers compensation insurance costs
- ❧ Property damage
- ❧ Loosing the farm



Why is health & safety important?



Visitors:

- ❧ Are unfamiliar with agriculture & associated risks
- ❧ Don't think rules apply to them or their children
- ❧ Are easily distracted
- ❧ Have little or no 'common' sense
- ❧ Don't listen to or read instructions



Why is health & safety important?



*Your livelihood & your future
depend on it !!!*



Planting seeds of thought about
health & safety on the farm



And the
Agritourism Farm

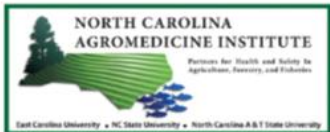


What's the most important part of your business plan?

Hint



Make the investment.
Stay safe. Stay healthy.



www.ncagromedicine.org



Programs & Resources to assist with farm health & safety



Health Screenings & Education



Blood Pressure Screening



Blood Glucose Screening



Vision Screening

Occupational Health Screenings & Prevention



Lung Function Testing



Respirator Selection



Respirator Fit Testing



Audiometric Testing

Eye Protection



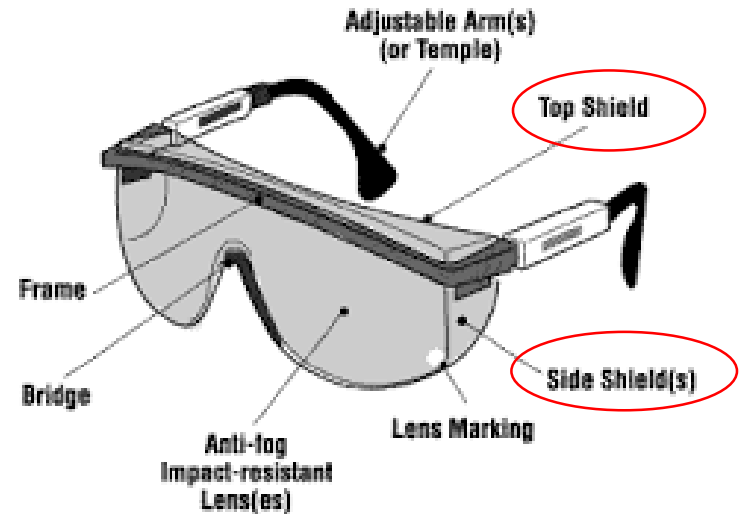
Impact & splash resistant



Over-the-glass (OTG) splash resistant



Tinted impact & splash resistant



What's the best type of hearing protection?



Safety Education



Farm Machinery Safety



Heat Stress & Sun Safety



Child Health & Safety



Hearing Conservation

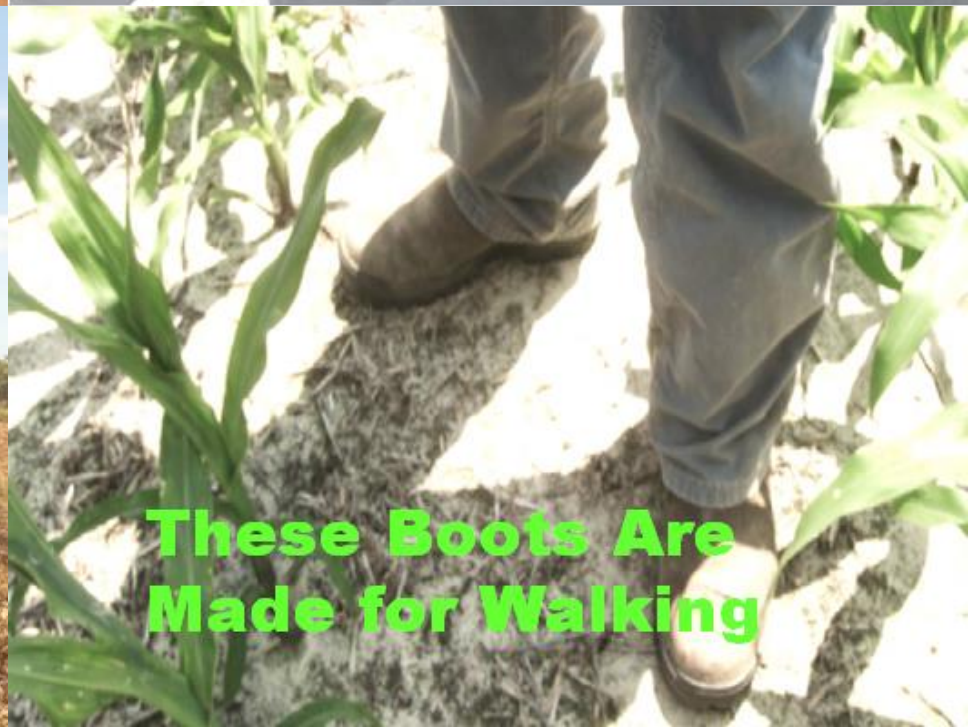


- Four modules designed to be delivered in 15-20 minutes as part of commodity meeting

- Interactive sessions with:

- PowerPoint
- Props
- Suggestions for simple changes farmers can make in their day-to-day routine to improve intake and activity level
- Healthy meal, snack &/or drink options





First on Scene

Purpose

To teach individuals who are first on scene at a farm incident how to respond safely

Target Audiences

- Farms
- EMS
- Fire



Farm Emergency Plan Template



NC Department of Agriculture and Consumer Services
North Carolina Agromedicine Institute
2014

PLAN LAST DATE UPDATED _____ Pre-FIRE UPDATED _____



**Promoting *Certified Safe Farms* in North Carolina
through AgriSafe health services, on-farm safety reviews and
education and outreach to farm families.
Funded through the NC Tobacco Trust Fund Commission.**



On-Farm Safety Review

- ✓ Equipment
 - ✓ Tractors
 - ✓ Combines
 - ✓ Augers
 - ✓ Implements (sprayers, discs, blades)
- ✓ Storage Structures
 - ✓ Chemical
 - ✓ Grain
 - ✓ Tobacco barns
- ✓ Livestock Structures
- ✓ Machine Shop
- ✓ Greenhouses



1 - TRACTORS

Make, Model	Point value									
	1	2	3	4	5	6	7	8	9	10
Year of manufacture or approximate age										
Hazards and recommendations (Enter corresponding points when recommendation applies)										
Operator station, access										
Remove clutter, obstacles	5									
Improve steps, handrails	5									
Improve seat	5									
Steering, brakes, controls										
Reduce play in steering (<20 deg)	5									
Replace tie rod ends, steering linkages	5									
Adjust brakes (<6" travel, >2" from floor, even)	5									
Ensure each control is functional	5									
Lighting, marking, mirrors *										
Provide 2 headlights	5									
Provide 1 red tail light, 2 red reflectors, 2 flashers	5									
Install/replace SMV emblem	5									
Install/replace mirror on left side	5									
ROPS, seatbelt **										
Install approved ROPS	20									
Install seatbelt (for tractors with ROPS only)	5									
PTO shield										
Install PTO master shield	5									
Front end loader										
Add counter weights	5									
Remove loader from tricycle tractor	20									
Mark hydraulic lines for flow direction	5									
Other hazards										
Replace tire(s)	5									
Replace muffler	5									
Install bypass start cover	5									
Other:										
Operation concerns (Enter "Yes" when applicable)										
Noise >85dB, use hearing protection										
* Inadequate lighting, do not use on road										
** No ROPS, use as stationary power source only										
Tricycle tractor, increased overturn hazard										
Keep foldable ROPS in UP position during operation										
Other:										
Hazard points, total										
Safety score (100% - Hazard points, total)										
This item is unsafe (<75%) - improve before use										



	Point value	1	2	3	4	5	6	7	8	9	10
Make, Model											
Type of machine											
Year of manufacture or approximate age											
Hazards and recommendations (Enter corresponding points when recommendation applies)											
Lighting, marking *											
Provide 1 red tail light, 2 red reflectors, 2 amber flashers	5										
Install/replace SMV emblem	5										
Improve wiring for lights	5										
Safety signs, decals											
Install/replace safety signs, decals	5										
Drive element guarding											
Install PTO shaft shield	10										
Install power intake master shield	10										
Install drive element shield(s)	10										
Hydraulic lines											
Replace worn hydraulic lines	5										
Mark lines for flow direction	5										
Other hazards											
Replace tire(s)	5										
Replace tie rod ends, steering linkages	5										
Install/replace jack stand	5										
Repair worn hitch, pin	5										
Install safety tow chain (for truck towing)	5										
Mark extremities with reflective tape	5										
Other:											
Operation concerns (Enter "Yes" when applicable)											
Noise >85dB, use hearing protection											
* Inadequate lighting, do not use on road											
Other:											
Hazard points, total											
Safety score (100% - Hazard points, total)											
This item is unsafe (<75%) - improve before use											



11 - STORAGE STRUCTURES

Structure description	Point value	1	2	3	4	5	6	7	8	9	10
Year of construction or approximate age											
Hazards and recommendations (Enter corresponding points when recommendation applies)											
Structure											
Improve structural integrity	5										
Improve wiring	10										
Improve lighting	5										
Access, ladders											
Child-proof ladder access	5										
Install ladder cage (>20 foot ladders)	5										
Drive systems											
Guard auger flightings	5										
Shield drive-elements	10										
Lockout/tagout											
Provide power lockout/tagout	10										
Other hazards											
Remove clutter	5										
Improve power line clearance (>18' from structure, 8' from the top of structure)	5										
Provide separation/protection for fuel/LP tank	5										
Provide fire extinguisher (10 lbs, ABC)	5										
Provide stairs with handrails (for bins and silos)	5										
Other:											
Operation concerns (Enter "Yes" when applicable)											
Dust exposure, wear respirator											
Noise >85dB, wear hearing protection											
Other:											
Hazard points, total											
Safety score (100% - Hazard points, total)											
This item is unsafe (<75%) - improve before use											





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

www.safeagritourism.com

<https://www.marshfieldresearch.org/nccrahs>

Website

www.safeagritourism.com



- Walkthroughs
- Checklists
- Resources
- Feedback



Integrating Safety into Agritourism

LOGIN /

Home

Walkthroughs ▾

Communicating with Guests

Resources

SafePlay

About Us

Feedback

ANIMAL SAFETY WALKTHROUGH (8 OF 11)

Review Picture



Review Question

In this picture, should there be a fence to separate the child from the animals?



Yes



No

◀ Back

Internet

Review Page

ANIMAL SAFETY WALKTHROUGH (8 OF 11)



Yes, there should be a fence.

Incorrect

Correction



Correction



Large animals are kept separated from visitors with a fence, and are not brought out of these venues for viewing.

Additional Guidelines and Recommendations

- Children are supervised while in animal areas.
- The fencing or barrier separating the visitors from animals is in good repair.
- Children cannot climb over, under or through the fence. If the fence does not meet these guidelines, adults need to ensure that children are kept away from the fence.

Resources

- [Recommended Fencing](#)

Back


Next

Done

Internet

Correction Page

Agritourism Safety Checklist

Hands On! Safety Awareness: Checklist for Bus Tour										
 Compiled from www.aafagroutourism.com		Allredge Orchard	Carolyn's Country Cousins	Deanna Rose Children's Farmstead	Gieringer's Orchard	Renyer's Pumpkin Farm	Barn at Schwinn Produce Farm	Shatto Dairy	Walter's Pumpkin Patch	Weston Red Barn
1	Is the entrance to the farm clearly marked, wide enough to accommodate large vehicles and in good condition?									
2	Is there adequate parking space for the number of expected vehicles?									
3	Are activity areas and play areas located at least 75 feet from parking and traffic areas?									
4	Are trails, walkways and paths clearly marked, so visitors know where they lead?									
5	Are all paths and walking surfaces smooth, level and free of debris (including in corn or hay mazes)?									
6	Are the restroom facilities adequate to accommodate the expected number of guests?									
7	If portable restrooms are used, do they contain hand sanitizer or some method of "cleaning" hands?									
8	Do employees dress appropriately when serving food (plastic gloves, hat/hairnet, shirt covering armpits, etc.)?									
9	Are fire extinguishers clearly marked and located in several areas throughout the operation?									
10	Are exits clearly marked in buildings occupied by guests?									
11	Are chemicals, fuels, pharmaceuticals and power tools stored in locked areas inaccessible to guests?									
12	Is all machinery not in use stored out of sight of visitors?									
13	Does the farm offer shade, buildings &/or other shelter where visitors can go for relief from the weather?									
14	Are signs for playground rules posted at the entrance to the playground and next to playground equipment?									
15	Is there ground cover (cushioning material) beneath all playground structures that present a fall hazard?									
16	Do wagons used for hay rides have sturdy steps and railings? Is only one wagon pulled at a time?									
17	Are hand washing facilities available at the exit to animal areas, with signs posted advising guests to wash hands?									
18	Are signs posted near hazards to warn guests of danger?									

Topics Checklist

Enter date when completed

All farms do these:		Walkthrough	Checklist	Resources
1	Emergency Prep and Plan			
2	Traffic and Parking			
3	Handwashing and Restrooms			
4	Barriers and Fences			
5	Walkways, Surfaces and Structures			
All farms do these:		Information Pages	Checklist	Resources
6	Communicating with Guests			
7	Insurance Information (Discussion sheet replaces checklist)			
Do these if you have this activity:		Walkthrough	Checklist	Resources
8	Farmers' Market			
9	Hayride			
10	Corn Maze			
11	Play Areas			
12	Petting Zoos			
13	Large Animal Safety			
14	Inflatable Rides			
15	Food Safety			
16	Water and Attractive Nuisances			
17	Machine Safety			

Notes:

Emergency Preparation and Planning Checklist

Review Date: _____

Reviewed By: _____

No.	Inspection Item	Present	Needs Correction	Date Corrected
1	There is an established <u>procedure</u> to warn visitors of hazards that may be found in various areas of the operation (workers explain verbally when guests arrive, signs are posted, etc.).	<input type="checkbox"/>	<input type="checkbox"/>	
2	The operation has been <u>evaluated</u> for hazards for people with disabilities, such as steps and stairs. Accommodations are made (signage, parking stalls, smooth and wide walkways) for these guests. The operation complies with the Americans with Disabilities Act.	<input type="checkbox"/>	<input type="checkbox"/>	
3	There is emergency information posted by phones for easy access during an emergency. Maps are available with routes to the nearest clinic or hospital.	<input type="checkbox"/>	<input type="checkbox"/>	
4	The operation has an Emergency Response Plan, that is reviewed by owners and employees on a regular basis.	<input type="checkbox"/>	<input type="checkbox"/>	
5	A first aid kit with adequate <u>supplies</u> to respond to an emergency is easily accessible to all employees. The first aid kit is inspected regularly, resupplied, and the inspection documented.	<input type="checkbox"/>	<input type="checkbox"/>	
6	There are employees <u>trained</u> in basic first aid and CPR. All employees know where the first aid kits are located and how to respond in the event of an emergency.	<input type="checkbox"/>	<input type="checkbox"/>	
7	Employees are trained to inform guests to immediately report any illness or injuries. Employees are trained on the use of the Incident Policy and Incident Report forms.	<input type="checkbox"/>	<input type="checkbox"/>	
8	Employees have a method to contact other employees in other areas of the operation in case of emergency.	<input type="checkbox"/>	<input type="checkbox"/>	
9	Fire extinguishers are clearly marked and located in several areas throughout the operation.	<input type="checkbox"/>	<input type="checkbox"/>	
10	There is a fire evacuation plan and fire safety plan in place and all employees are trained on these plans.	<input type="checkbox"/>	<input type="checkbox"/>	
11	All exits are clearly marked and free of obstructions in areas where guests will be present. Guest areas have working smoke detectors.	<input type="checkbox"/>	<input type="checkbox"/>	
12	Employees verify that supervising adults are aware of which children they are responsible for and will be able to ensure that all children are accounted for in an emergency.	<input type="checkbox"/>	<input type="checkbox"/>	
13	All areas are monitored to ensure they are kept free of dust and other combustible materials that can cause fires. Fuels and flammable chemicals are appropriately marked and stored?	<input type="checkbox"/>	<input type="checkbox"/>	

- Policies & Procedures
- Evaluation/Observation
- Training
- Supplies

Traffic & Parking Safety Checklist



No.	Inspection Item	Present	Needs Correction	Date Corrected
1	Is there a sign approximately 1/2 mile from the turn off for your agritourism operation with the name and distance to the operation on it?			
2	Is the entrance to the agritourism operation clearly marked and wide enough to accommodate school buses and other large vehicles??			
3	Does the entrance to the operation have sufficient lighting, if operating at night, to light the entrance?			
4	Is the road/driveway at the entrance to the operation even and free of holes and dips?			
5	Are the parking areas where visitors are supposed to park clearly marked, with adequate space for the number of expected vehicles?			
6	Is the parking area far enough away from children's attractions and gathering areas to minimize danger to children?			
7	Are all parking areas free of brush, long grass, litter and other trip hazards?			
8	Are parking areas for the handicapped clearly marked?			
9	If the parking area is far from attractions, are there a drop off and pick up locations available and clearly marked?			
10	If large numbers of guest are expected, are workers (wearing bright/reflective clothing) directing traffic?			

Resources that can be used to address these checklist items are available at www.safeagritourism.com/Resources. These resources include signs, policies, forms, logs, and other items.

National children's center for Rural Agricultural Health safety www.marshfieldclinic.org/nccrph/
Funding provided by the National Institute for Occupational Safety and Health (NIOSH award no. SUS40K009568-04)

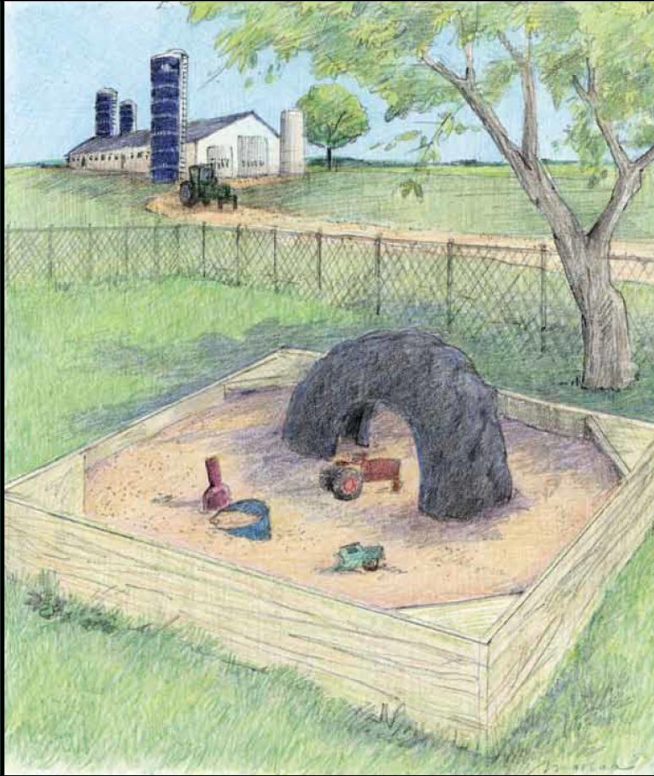
Checklist

Creating Safe Play Areas on Farms

Fourth Edition



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



 National
Farm Medicine
Center

 Marshfield Clinic
Research Foundation



https://www3.marshfieldclinic.org/nccrahs/?page=nccrahs_resources

Corn Box vs Sand Box???



Seeds of thought...



❧ Could the following things happen on your farm?

❧ What could you do to prevent them from happening?

Seeds of thought...



Four people were walking at night along the road to the entrance of a corn maze and were hit from behind. 19 year old male clipped by truck and thrown into two 21 year old girls. 23 year old male was hit and tossed onto windshield.



One had head and leg injuries; one had two broken legs, a broken arm, a broken neck and head lacerations; one had a concussion and broken ribs; the fourth had a neck injury.

Seeds of thought...



- ❧ 8 year-old suffers head injury when falls from slide
- ❧ Estranged grand-parent kidnaps child during daycare pumpkin patch visit
- ❧ Two middle-schoolers drown in farm pond
- ❧ Six year old falls into fire at birthday hotdog roast
- ❧ 14 year old breaks ankle walking back to car at road-side farm market



Seeds of thought...



- ❧ 30 injured including 12 children on holiday light show tractor ride when tractor stalled, rolled back down a hill and hit a tree, jackknifed and threw people off
- ❧ Woman sues strawberry farm for broken wrist sustained from tripping over a tent anchor
- ❧ 4 people hospitalized with E.coli from cider at agritourism farm
- ❧ 13 year old sexually assaulted during church youth group visit to corn maze



Child Health & Safety in Agritourism



Implementing
Agritourism Health and Safety Guidelines for Children
from the
National Children's Center for Rural and Agricultural Health and Safety

A Collaborative Project Of:



ECONOMIC BENEFIT
Pilot farm reduced annual
agritourism liability insurance
premium by ~\$400.00
or 25% of annual premium.

in conjunction with an agritourism farm in Eastern North Carolina



Clean it up!



Post the rules!



Signs, signs,
everywhere
signs



Post those rules!



Can these items be found easily?



Got Ponds? Get Prepared.



07/17/2012

Handwashing Stations



Wash hands / Lávese las manos

1



Wet Hands
Mójese las manos

2



Apply Soap
Apliquese jabón

3



Wash hands 10 to 15 seconds
Lávese las manos 10 a 15 segundos

4



Rinse hands
Enjuáguese las manos

5



Dry hands with a clean paper towel
Séquese las manos con una toalla de papel limpia

6



Throw away paper towel
Bote la toalla de papel



Double fence lines....

Protect the kids from the animals!

Protect the animals from the kids!





Tractors
Golf Carts
ATVs

Where are the
keys?

If your butt is not
in the seat, the
keys better not be
in the switch.



EMERGENCY CONTACT NUMBERS

EMS (Four Oaks) 911 919-963-3935

FIRE (Four Oaks) 911 919-963-2039

SHERIFF 911 919-989-5000

POISON CONTROL 1-800-222-1222

DOCTOR Stan Watson 919-963-3148 919-934-5149

VET Matt Frazier 910-578-8373

HOSPITAL Johnston Medical Center- 509 N Brightleaf Blvd Smithfield 919-934-8171

HOSPITAL Johnston Medical Center- 2138 NC Hwy 42 West Clayton 919-585-8000

ANIMAL CONTROL 919-934-8474

LAZY O FARM 3583 Packing Plant Road Smithfield, NC 27577

David and Tami Thompson 919-934-1132

Tami cell phone 919-631-7857

David cell phone 919-538-6743

Emergency Plan

Lazy O Farm 3583 Packing Plant Rd Smithfield, NC 27577

DIRECTIONS TO FACILITY

From Four Oaks,

From Smithfield,

OWNER/EMERGENCY CONTACT

Tami Thompson	David Thompson	Jamie Thompson
919-934-1132	919-934-1132	919-934-1132

EMERGENCY SIGNALS AND SAFE AREAS

Fire Code Hot Tamale Parking Lot 1 or Playground

Severe Weather Code Shazam Horse Barn

Tornado Code Tumbleweed Horse Barn

Missing Child-no threat Code Adam Playground

Child Abduction Amber Alert Playground

Lockdown-terror/weapon Code Groundhog Ground then nearest building

FIRE EXTINGUISHER LOCATIONS

FIRST AID KIT LOCATIONS

Horse Barn, Picnic shelter, beside silver cabinet

Tractors pulling hayride trailers

Maze entrance

*Master kits with eye wash, safety glasses, ear plugs, respirators

Not So Scary Alarm Signals

Pocket Card

EMERGENCY SIGNALS AND SAFE AREAS

Fire	Hot Tamale	Parking Lot 1
Severe Weather	Shazam	Horse Barn
Tornado	Tumbleweed	Horse Barn
Missing Child-no threat	Code Adam	Playground
Child Abduction	Amber Alert	Playground
Lockdown-terror/weapon	Groundhog	
	Ground then nearest building	

Words to the Wise



- ❧ Making health & safety improvements is a process
 - ❧ Some items can be corrected quickly; others take time
 - ❧ Some items can be corrected at low or minimal cost; others require an investment; include health & safety in operational costs
 - ❧ Train your staff

- ❧ You're not on your own
 - ❧ Use local, state & national resources – many are free or minimal cost
 - ❧ Don't re-invent the wheel – talk to & visit other farms to see what they've done &/or doing

Words to the Wise



- ❧ Involve insurance early on
 - ❧ It could save you money in underwriting
 - ❧ You will be more prepared should an incident occur

- ❧ Document, Document, Document
 - ❧ Before/ After corrections
 - ❧ Policies/Procedures
 - ❧ Staff Training

Words to the Wise



- ❧ Think about how you view health & safety on your farm
 - ❧ Visitor experience vs. liability
 - ❧ What level of liability are you willing to accept?
- ❧ Just because something hasn't happened yet, doesn't mean it won't (doesn't mean it will)
- ❧ You can do your best but you can't change human behavior

Words to the Wise



- ❧ Chat with your county emergency planner, local fire department and law enforcement office.
- ❧ Remember...you can not anticipate everything that everyone will do. Do anticipate that they will do it and be prepared to show that you did due diligence!
- ❧ Train your staff

Other Resources

Agritourism and Rural Recreation

- ❧ Agritourism Health and Safety Guidelines for Children
- ❧ Agritourism Policy and Procedures Guide
- ❧ Agritourism Worksite Guide
- ❧ All Terrain Vehicle (ATV) Safety
- ❧ Equestrian Safety
- ❧ Integrating Safety into Agritourism (Web site)
- ❧ Rural Water Safety



Childhood Agricultural Labor Regulations

- ❧ Child Labor Requirements in Agricultural Occupations
- ❧ Fact Sheet #40: Federal Youth Employment Laws in Farm Jobs (Web site)

Childhood Agricultural Work

- ❧ Benchmarking Report: Hiring and Safety Practices for Adolescent Workers in Agriculture
- ❧ Community-Based Agriculture: Safety Guidelines for Youth Working in Gardens '
- ❧ Cultivate Safety (Web site)
- ❧ Model Policy: Youth Employment in Agriculture
- ❧ North American Guidelines for Children's Agricultural Tasks
- ❧ Safety Guidelines for Hired Adolescent Farm Workers S
- ❧ Safety Guidelines for Youth Operating Farm Equipment



Let us know how we can help!



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