

AGRITOURISM AND FAIRS

Animal and Public Health Education

WHAT IS AGRITOURISM?

- Any agricultural-related activity that brings visitors to a farm
- Examples include:
 - Working farm with petting zoo
 - Farm tours
 - "Goat yoga"
 - Pick-Your-Own
 - Winery tours & tastings
 - Corn maze





WHY AGRITOURISM?

- Farmers can market their products directly to consumers
 - Can be more profitable than selling to retail or other indirect means
- Consumers value on-farm experiences
 - Family activity
 - Educational opportunity
 - Confidence in "buying local"
- A rapidly growing trend in the Northeast!



AGRITOURISM: A GROWING TREND

State	Farms in 2007	Farms in 2012	% Increase
MA	154	287	86%
СТ	101	237	135%
RI	43	68	58%
NH	88	190	116%
VT	109	155	42%
ME	112	270	141%

(\$ millions) California 169.9 New York 100.6 Pennsylvania 86.0 Michigan 58.8 Massachusetts 47.9 46.9 Wisconsin Ohio 46.6 Washington 45.1 44.2 Oregon 41.7 Virginia

Top States in Direct

Consumer Sales

Value-added Products

In the United States overall, the share of farms producing and selling such products was 4.5 percent. The top states in percent of farms were Vermont (14 percent), New Hampshire (13 percent), Maine (11 percent), Rhode Island (11 percent), and Alaska (10 percent).

FAIRS — ROLE IN AGRITOURISM

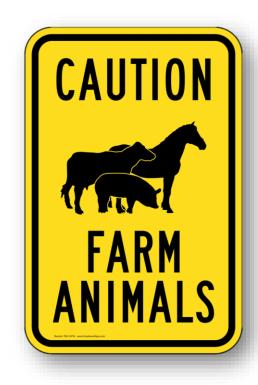
- Also provide that public-livestock interaction
- Allows for similar opportunities for public education and interaction with food origins and farming in general
- Poses similar health risks to naïve public

CHALLENGES WITH AGRITOURISM

- Farmers want to offer true picture of agriculture and farm-fresh products
- However, also inviting risk
 - Lack of public understanding of a "working farm"
 - Farm equipment, animal behaviors, etc.
 - Public can bring disease to the farm
 - Exposure of visitors to potential pathogens on the farm
 - Through animal contact or food served on-farm
 - E. coli, Salmonella, Campylobacter, Orf, Rabies, Ringworm, parasites, etc.

HAZARDS TO ANIMALS

- Foreign Objects
 - Metal objects such as jewelry
 - Plastic objects such as trash
- Dangerous Foods
 - Excess sugar such as ice cream and candy
 - Foreign or uncooked food
- Injury
- Disease



HAZARDS TO ANIMALS — DISEASE RISK

- Avian and Swine Flu
 - Risk of animals contracting flu virus from ill visitors
- Porcine Epidemic Diarrhea (PED)
 - Public may have pigs at home, wear same clothing/footwear
- While not as likely, always have to be concerned about diseases we don't have in this country (i.e. Foreign Animal Diseases)
 - Foot-and-Mouth Disease, African Swine Fever, Classical Swine Fever, Highly Pathogenic Avian Influenza
 - International travelers



HAZARDS TO PEOPLE

- Physical Injury
 - Animals
 - Bite, Kick, Scratch, Spitting
 - Environment
 - Equipment
- Pathogen Exposure
 - Direct animal contact
 - E. coli, Salmonella, Orf, Ringworm, Rabies
 - Indirect contact
 - Contaminated food products, fences



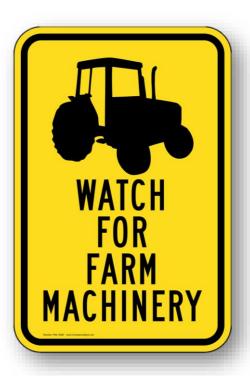


Table 1. Types of germs commonly found in farm animals.

Species of Animal	Bacteria	Parasite	Fungus	Virus
Cattle	Campylobacter	Cryptosporidium	Dermatophytosis	•
	Salmonella		(Ringworm)	
	Escherichia coli O157:H7			
	Leptospira			
	Coxiella burnetii (Q fever)			
Sheep	Campylobacter			Soremouth
	Salmonella			
	Escherichia coli O157:H7			
	Coxiella burnetii (Q Fever)			
Goats	Campylobacter			Soremouth
	Salmonella			
	Escherichia coli O157:H7			
	Coxiella burnetii (Q Fever)			
Llamas	Campylobacter			•
	Salmonella			
	Escherichia coli O157:H7			
Pigs	Campylobacter		Dermatophytosis	Influenza
	Salmonella		(Ringworm)	
	Leptospira		, , ,	
	Yersinia enterocolitica			
Chickens, ducks,	Campylobacter		Dermatophytosis	Influenza
turkeys	Salmonella		(Ringworm)	
Rabbits		•	Dermatophytosis	
			(Ringworm)	

"MY ANIMALS LOOK HEALTHY"

Doesn't mean they are free of concern



Healthy-looking animals can still make people sick!



Table 2. Common symptoms in animals and humans.

Germ	Symptoms in Animals	Symptoms in Humans	
Campylobacter	Diarrhea (cattle, sheep, and goats may have abortions)	Diarrhea, cramping, fever	
Salmonella	Cattle may have fever, diarrhea, and abortion	Diarrhea, vomiting, fever	
E. coli	None	Bloody diarrhea, cramps	
Cryptosporidium Calves may have diarrhea and scours		Watery diarrhea, fever, nausea, vomiting	

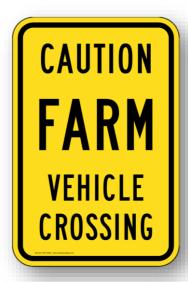
WHAT STEPS CAN BE TAKEN?

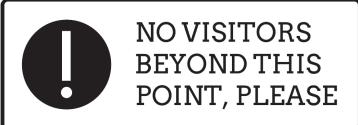
- Limit Exposure
- Limit Spread
- Keep it Clean
 - Animal AND public areas
- Protect the Fair



LIMIT EXPOSURE — WHAT TO AVOID

- Recommendations:
 - Don't allow visitors to go unattended
 - Don't allow visitors near sick or aggressive animals
 - Don't allow visitors to come in contact with newborn animals or animals in labor
 - Don't allow food or drink near animals





LIMIT SPREAD — WAYS TO SET UP

- Animal health principles to follow:
 - Assess animals everyday for health and suitability for public contact
 - Appropriate vaccination and treatment protocols
 - Consult a veterinarian!
 - Animal ID tags and records
- Visitor sign-in at entry good time to inform high risk visitors

WAYS TO SET UP — HIGH RISK VISITORS

- Children under 5 years, seniors, those with weakened immune systems, and pregnant women are at highest risk for disease
 - Educate and communicate the risks
 - Consider not allowing small children to hand feed
- Consider having someone to talk about risks and safety at entry to animal area
 - Importance of training employees!

WAYS TO MINIMIZE RISK

- Many resources available to learn the risks and assess the operation or fair
- Need to understand priorities and make improvements
 - Doesn't need to cost a lot!
 - Many simple improvements that can make a big impact
- Biosecurity!

WHY IS BIOSECURITY IMPORTANT?





- Biosecurity's goal is to:
 - Reduce infectious disease introduction and to minimize disease spread between animals on the farm
- Protects:
 - Animals
 - People
 - The Farm



Biosecurity

- Daily routine of reducing disease introduction and reducing disease spread amongst your animals
- Common sense practices to prevent:
 - Introduction from multiple sources
 - People, vehicles, equipment, other animals
 - O People from getting sick too!
- Make it happen <u>every</u> <u>day</u>!









Biosecurity – Key Components

- Controlling access to the animals
 - Enclosure boundaries, access points
 - Minimizes risk of disease introduction!
 - Visitor Records: Knowing who was on your farm when
- Footbaths, Personal Protective Equipment (PPE)
 - Prevents spread of disease, protects the visitor
 - Dedicated clothes/footwear for your animals
 - o For visitors:
 - Provide shoe covers or go through footbath





Veterinary Services



Biosecurity – Key Components

Feed and water sources

- Free feed on the ground outside can attract other birds
- Water from sources like a nearby pond where waterfowl visit

Pest control

- Songbirds and rodents can carry disease
- Can risk bringing disease to your flock











Biosecurity – Key Components

- Cleaning & Disinfection (C&D)
 - Everything from vehicles to equipment to animal facilities
 - Remove <u>ALL</u> dirt and organic debris
 - Rinse thoroughly
 - Some will get deactivated by remaining soap residue!
 - Ensure proper contact time





What Disinfectants Can I Use?

- Roccal
 - Ok for some bacteria, viruses
 - Inactivated by organic matter, hard water, soap residue!
- Virkon-S
 - Great for many bacteria, viruses, some fungi
- Household bleach (sodium hypochlorite 6%):
 - Great for many bacteria, viruses, fungi
 - Inactivated by organic matter, soap residue, sunlight!
- Purell hand sanitizer for hand disinfection
- Lysol spray for footwear









Six Steps to Remember













5 Know the Warning Signs of Infectious Bird Diseases.



6 Report Sick Birds.





Biosecurity — Keeping People Safe!

 Zoonotic Disease = A disease from animals that can pass to humans and make them sick

- Examples:
 - Rabies
 - o Salmonella
 - o Orf
 - Avian Influenza
- Can pass through direct contact, indirect contact, or foodborne











Zoonotic Disease Prevention

- Handle yourself just like you handle your animals!
 - Washing after handling
 - Have dedicated equipment (shoes, clothing)
 - Wear protective equipment when necessary (ex. cleaning activities)











Zoonotic Disease Prevention







FEDERAL VS. STATE INVOLVEMENT

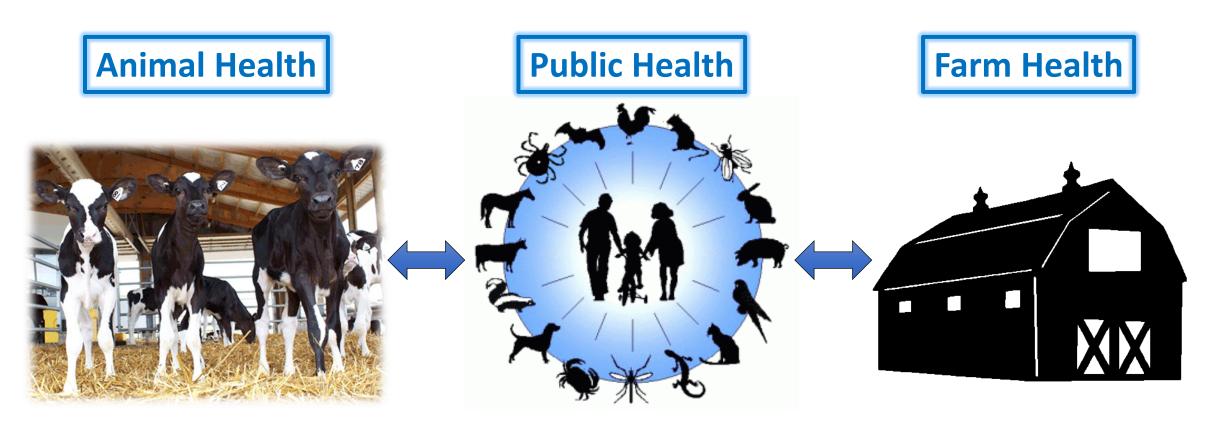
- As a Federal agency, what role do we play?
 - Public health disease outbreak prevention
 - Working with federal and state public health colleagues
 - No direct regulations for VS
 - Responsible for "safeguarding animal health"
 - Protecting agriculture in New England "nontraditional systems"





All About the Education

• Educating yourself and educating your visitors



All About the Education

Agritourism provides education to the public that they would get

nowhere else!

Animal husbandry

- Animal welfare
- Modern-day agricultural practices
- Dedicated farmers =
 - Healthy animals
 - Healthy products
 - Happy consumers!

