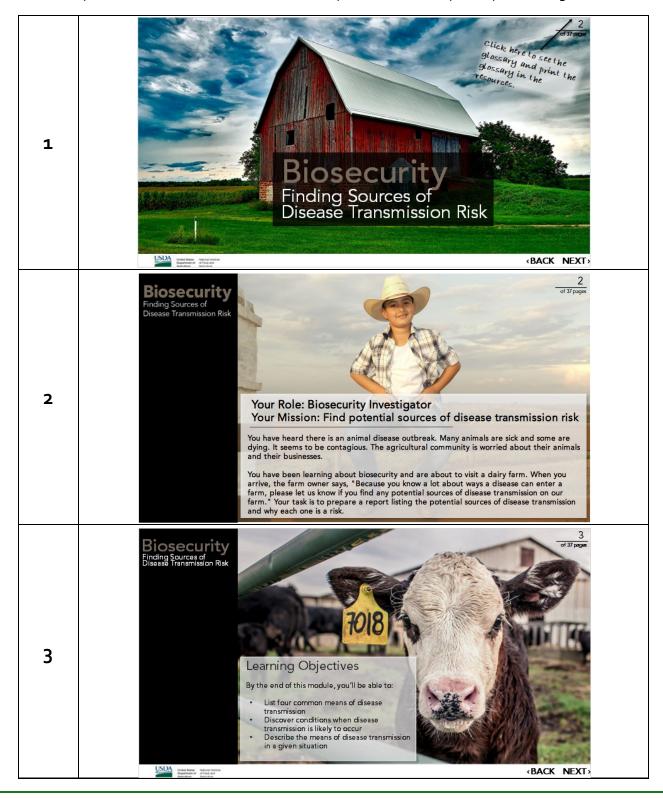
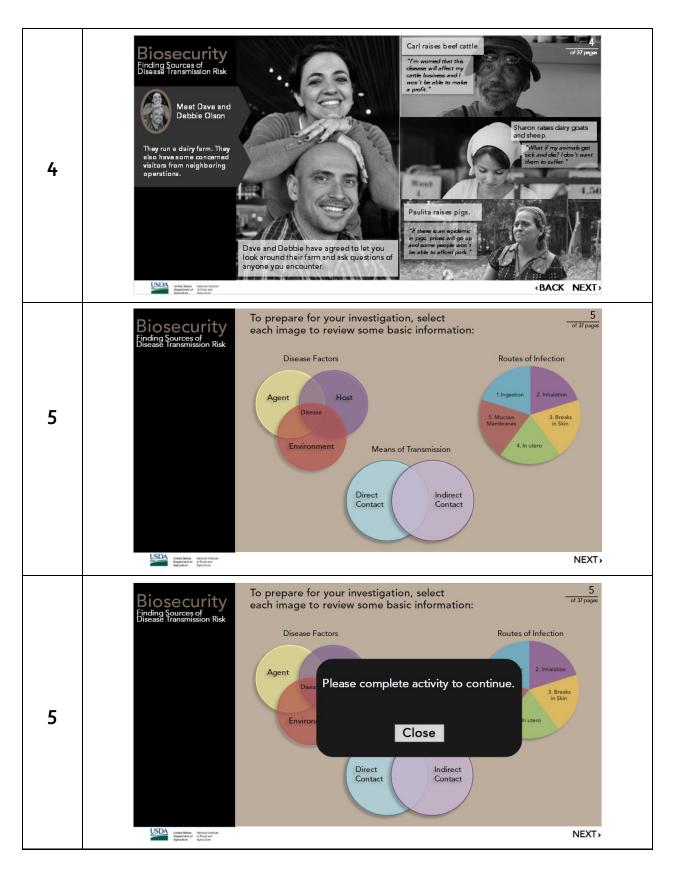


HFHA Biosecurity Learning Module 3 Screenshots: Finding Sources of Disease Transmission

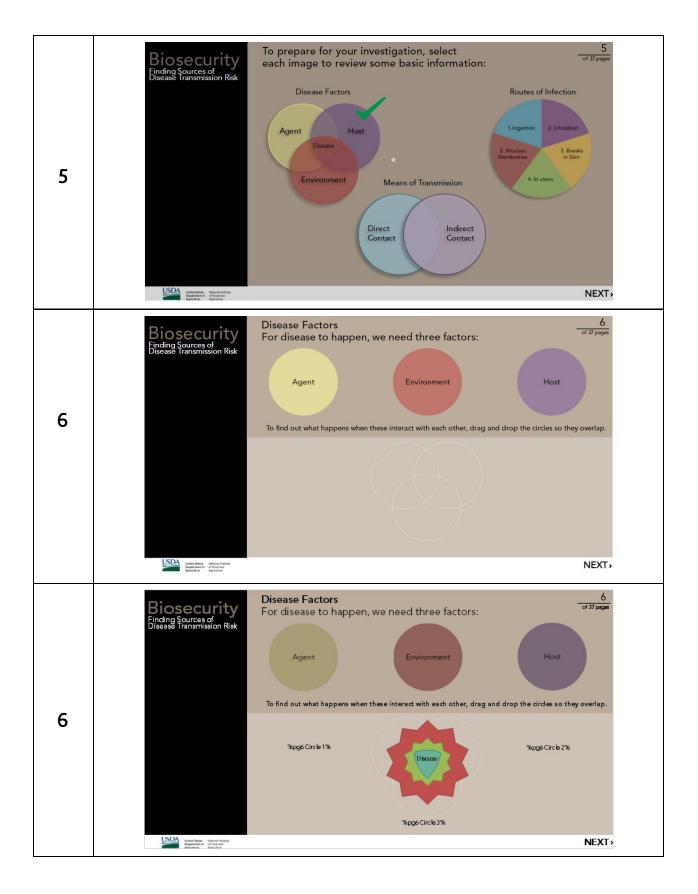
Screenshots of all module layers. Each screen is numbered in the order it appears in the module. Section 2 (separate document) includes accessibility screenshots for participants using screen readers.



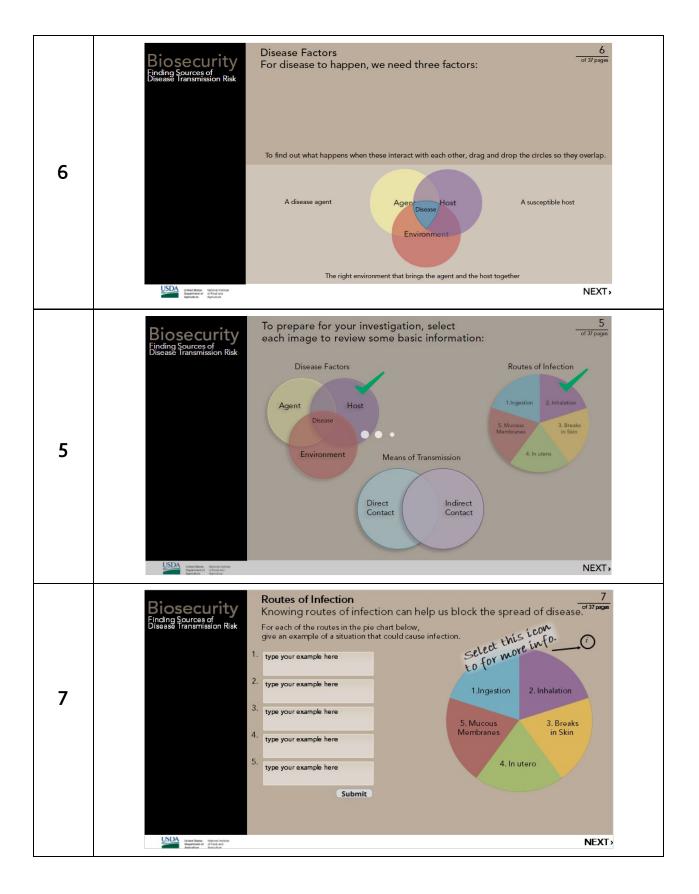




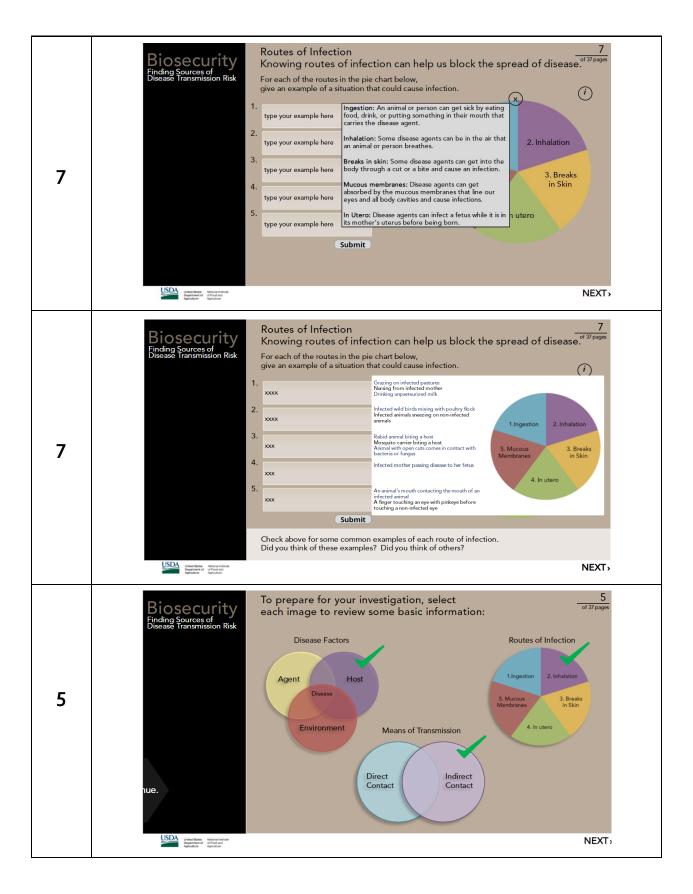


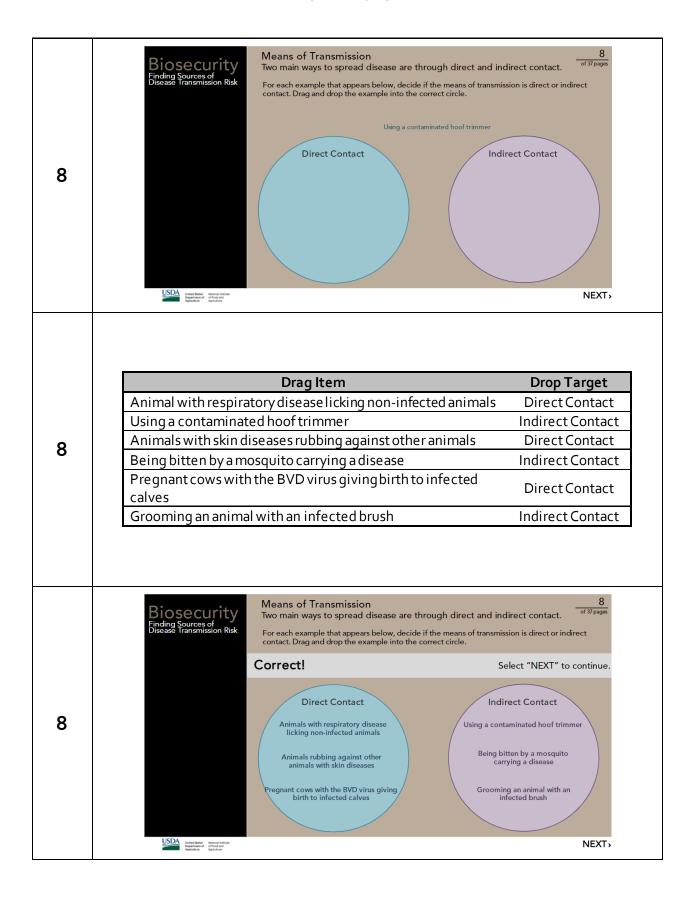




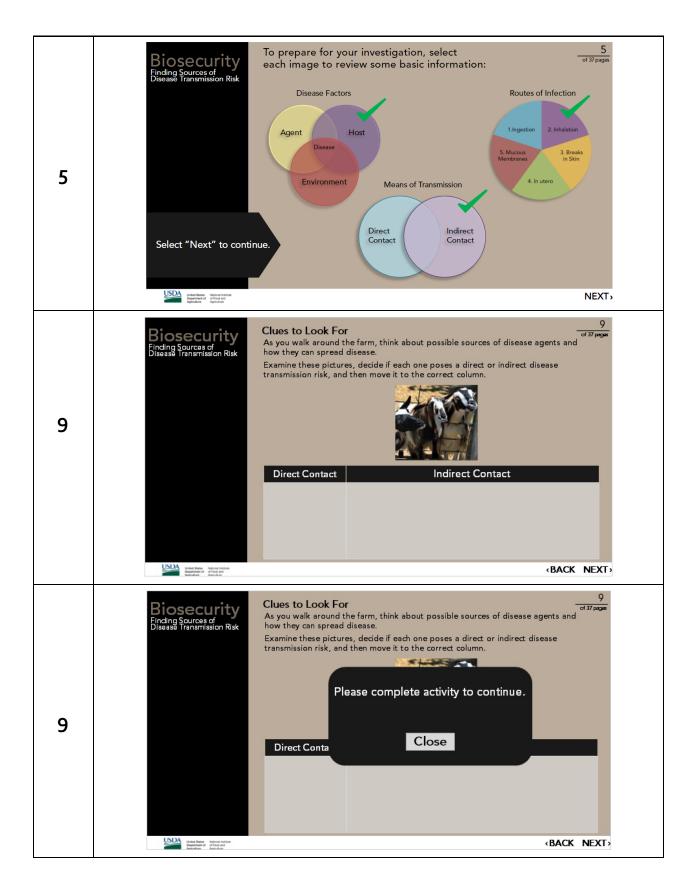


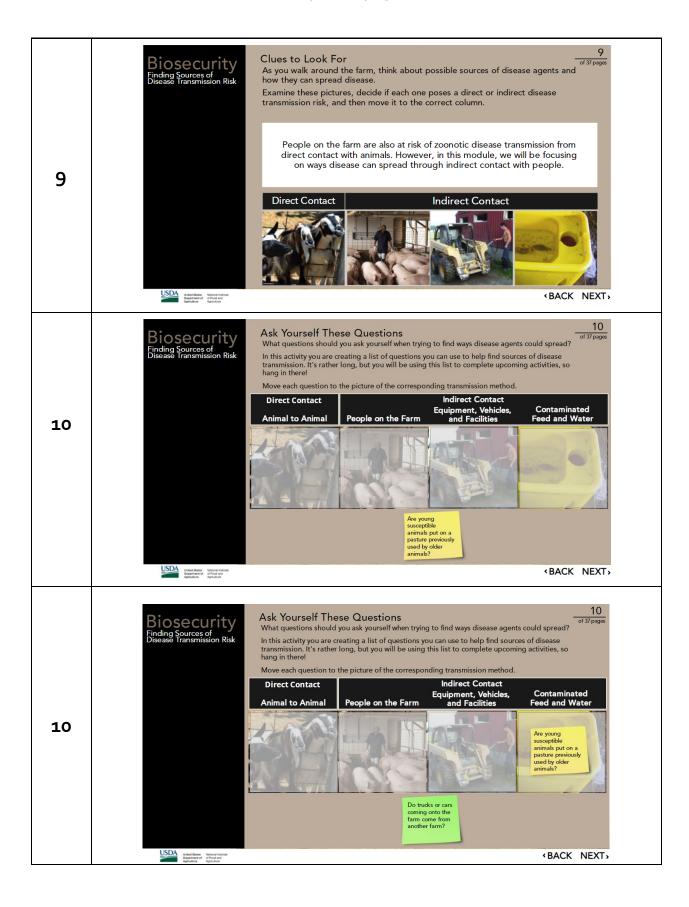




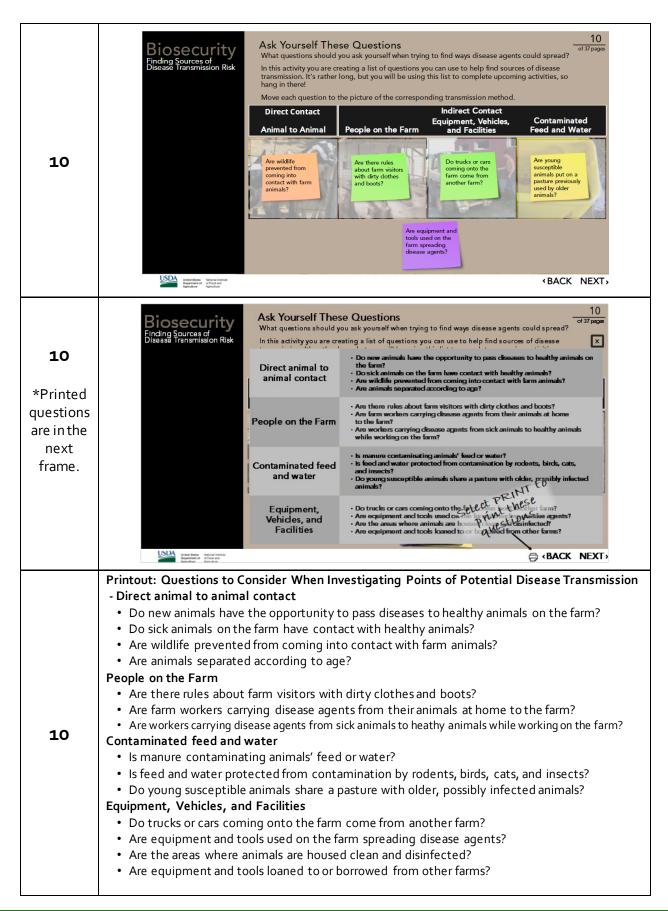


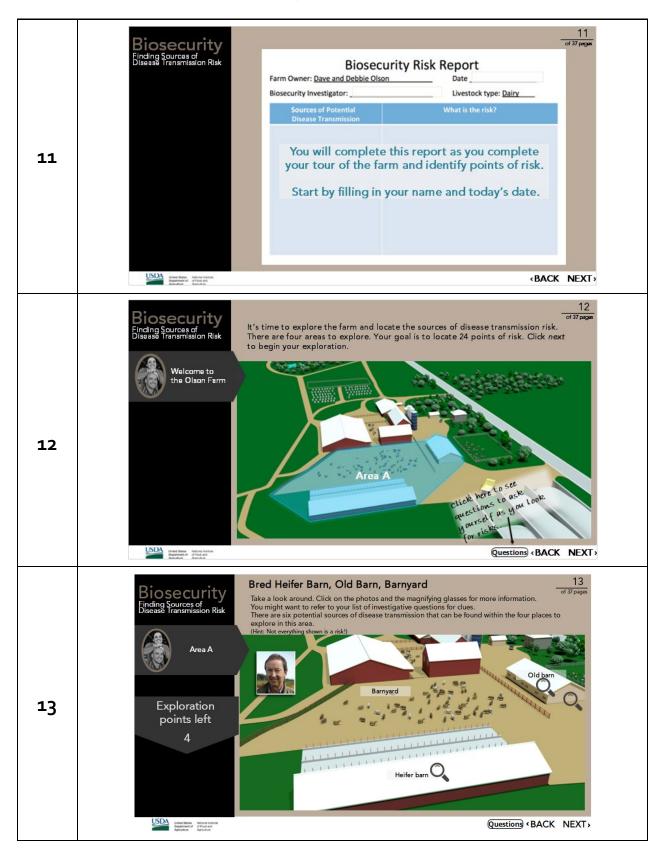


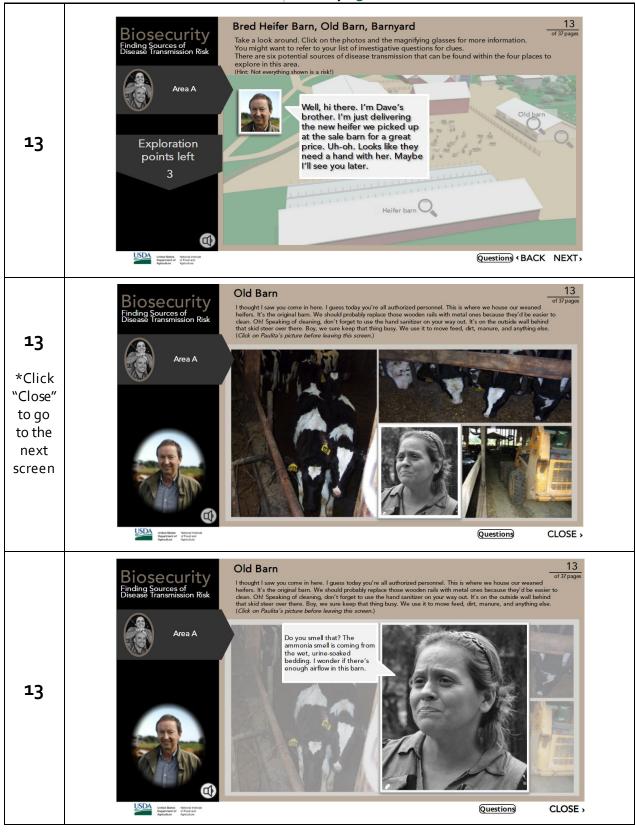


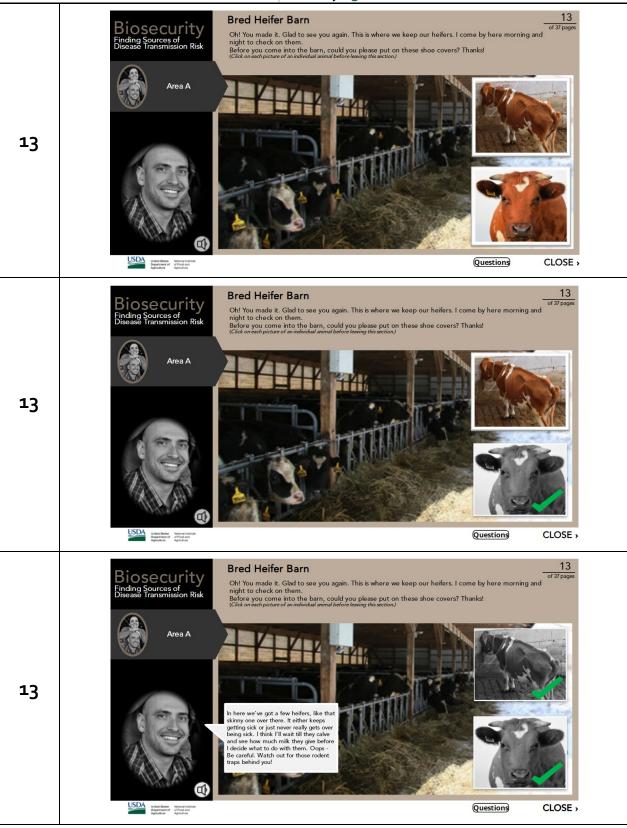


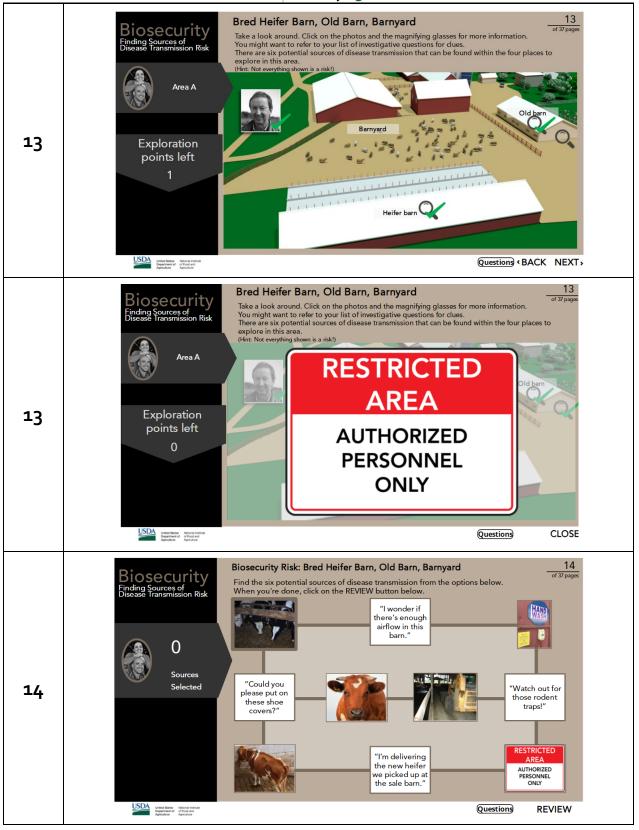


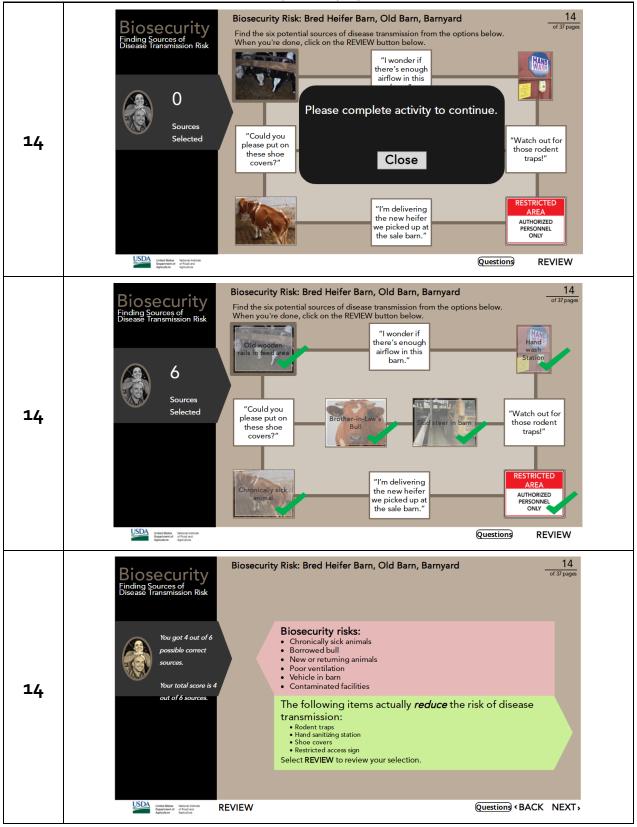




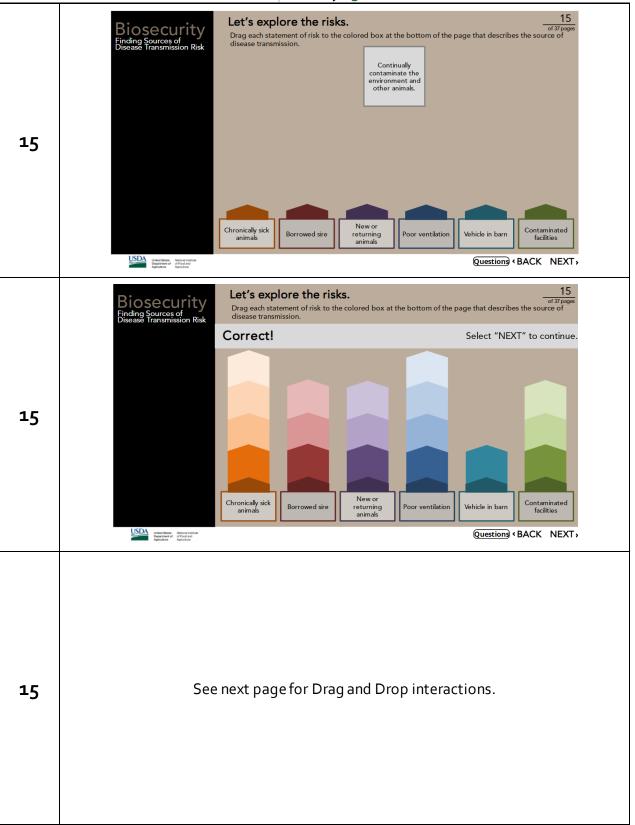






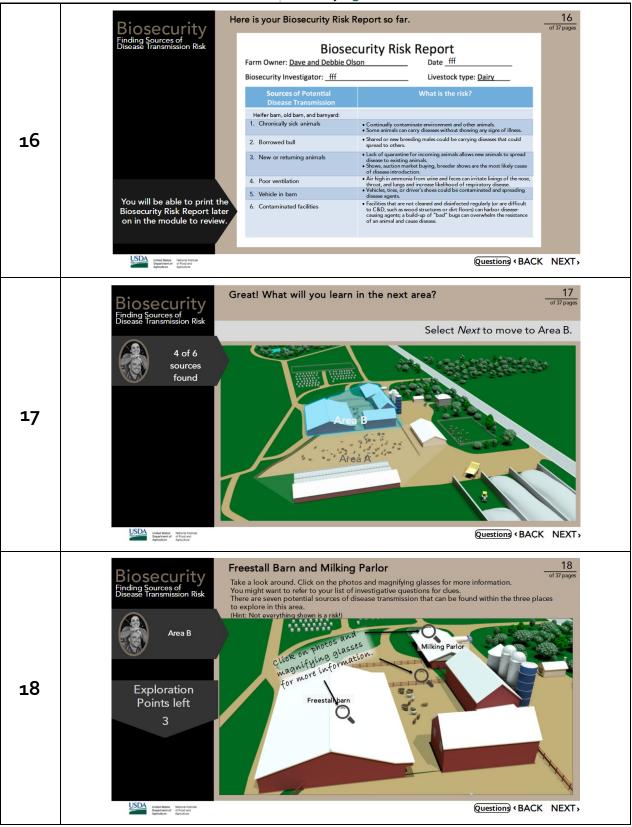


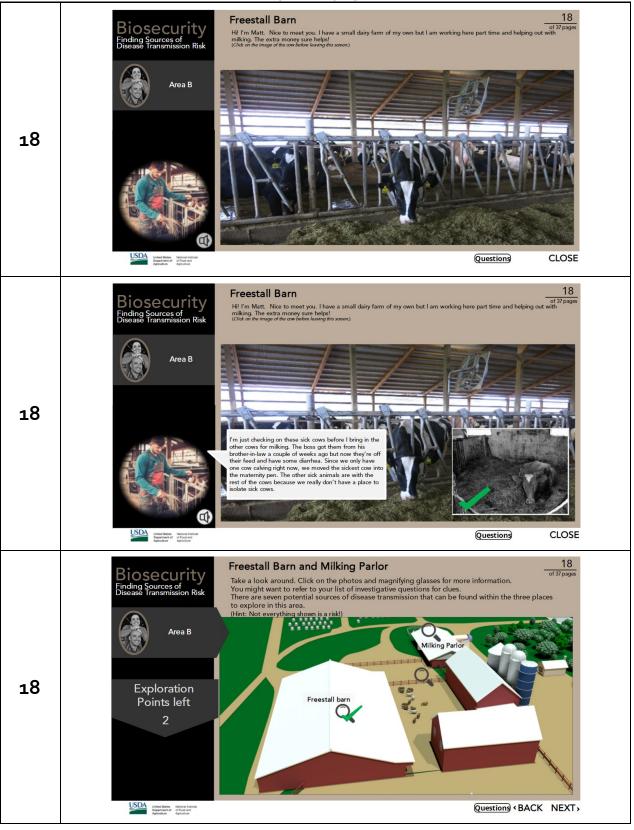


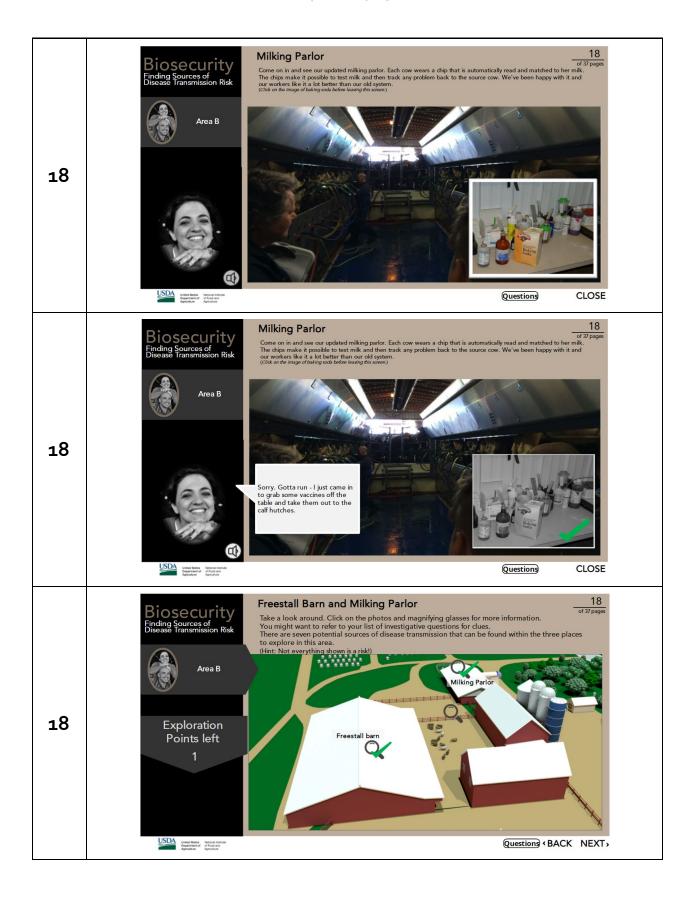




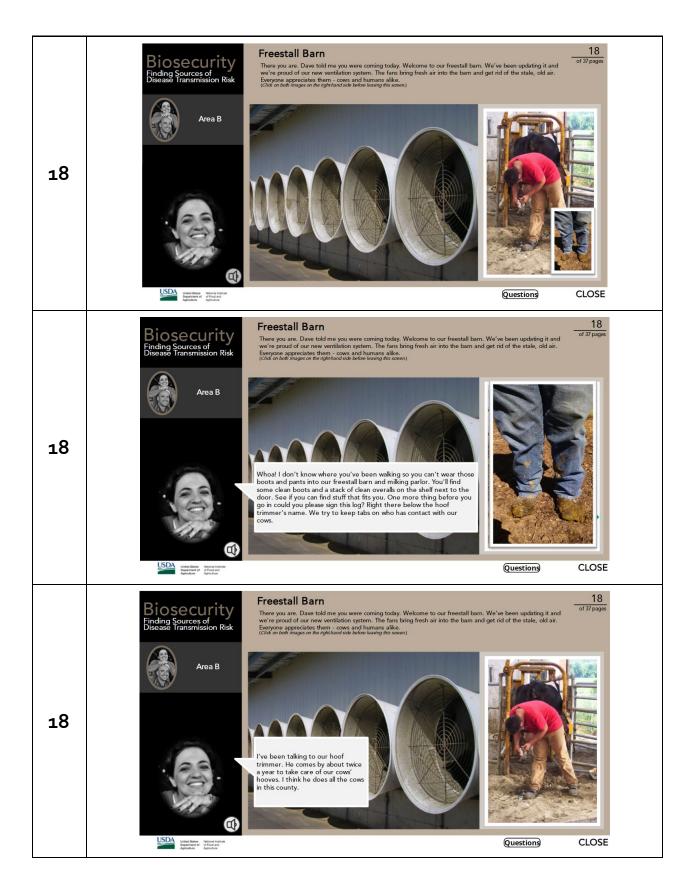
	Drag Item	Drop Target
	Continually contaminate the environment and	Chronically sick animals
	other animals.	
	Large pig farms usually control air quality with	Poorventilation
	automatic fans because it's so important.	
	Fairly common practice in small beef and dairy	Borrowed sire
	herds but not common in large dairy or beef	
	herds. Purchasing livestock from auction yards is a	Now or roturning animals
	high-risk activity and good way to introduce	New or returning animals
	diseases to a herd	
	Concrete and metal facilities, such as used in	Contaminated facilities
	large scale pig farms, make cleaning and	
	disinfecting easier.	
	Lack of quarantine for incoming animals	New or returning animals
	allows new animals to spread disease to	
	existing animals.	
	Chronically ill or carrier animals may exist in	Chronically sick animals
	large beef cattle herds because cows may only be seen closely during calving, calf weaning,	
	vaccination, and transport.	
	Vehicles, tires, and/or driver's shoes could be	Vehicle in barn
	contaminated and spread disease agents.	
15	Facilities that are not cleaned and disinfected	Contaminated facilities
	regularly (or have surfaces difficult to clean	
	and disinfect, such as wood or dirt) can harbor	
	disease-causing agents.	De une de la companya
	Very common practice with small pig farms, sheep, and goats.	Borrowed sire
	Air high in ammonia from urine and feces can	Poorventilation
	irritate linings	
	of the nose, throat, and lungs	
	and increase likelihood of respiratory disease.	
	Mostly a problem for dairy cattle. Beef,	Contaminated facilities
	sheep, and goats are outside a lot.	
	Taking animals to and from livestock shows is	New or returning animals
	,	Chronically sick animals
		Paarvantilation
	5	
		Chronically sick animals
	culled as they should be.	,
	Water condensation on windows is an	Poorventilation
	indication of poor ventilation.	
	and increase likelihood of respiratory disease. Mostly a problem for dairy cattle. Beef, sheep, and goats are outside a lot. Taking animals to and from livestock shows is a major health risk. Some animals can carry diseases without showing any signs of illness. Possibly a problem for confined animals. Shared or new breeding males could be carrying diseases that could spread to others. Sheep and goats with foot rot are often not culled as they should be. Water condensation on windows is an	New or returning animalsChronically sick animalsPoor ventilationPentagon 14Chronically sick animals



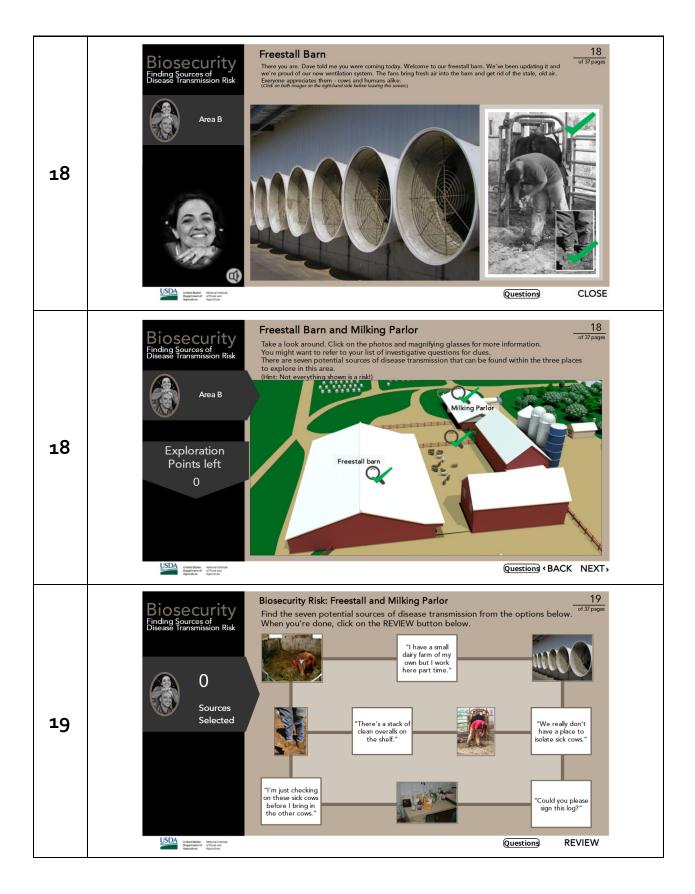




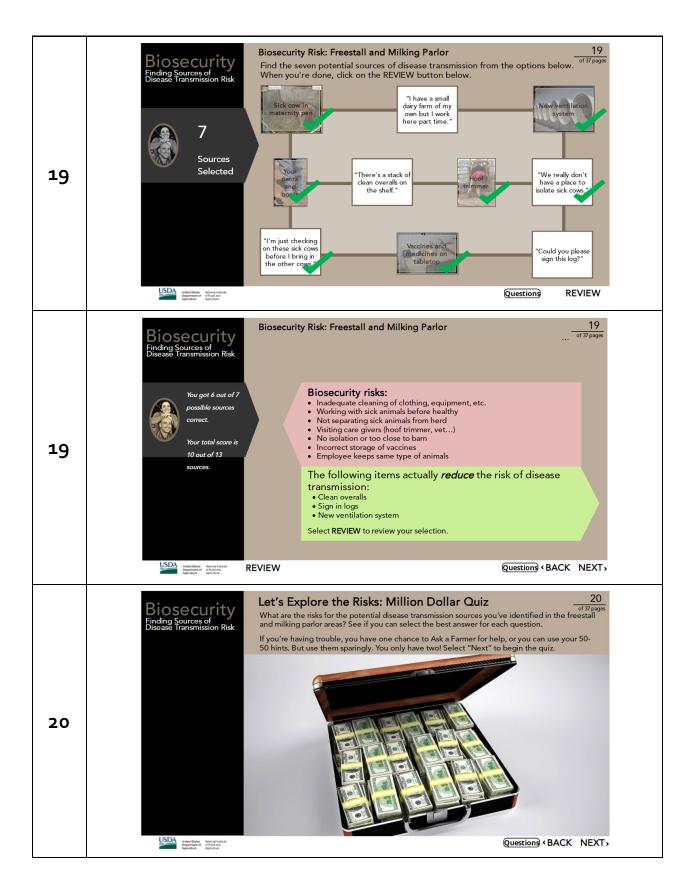




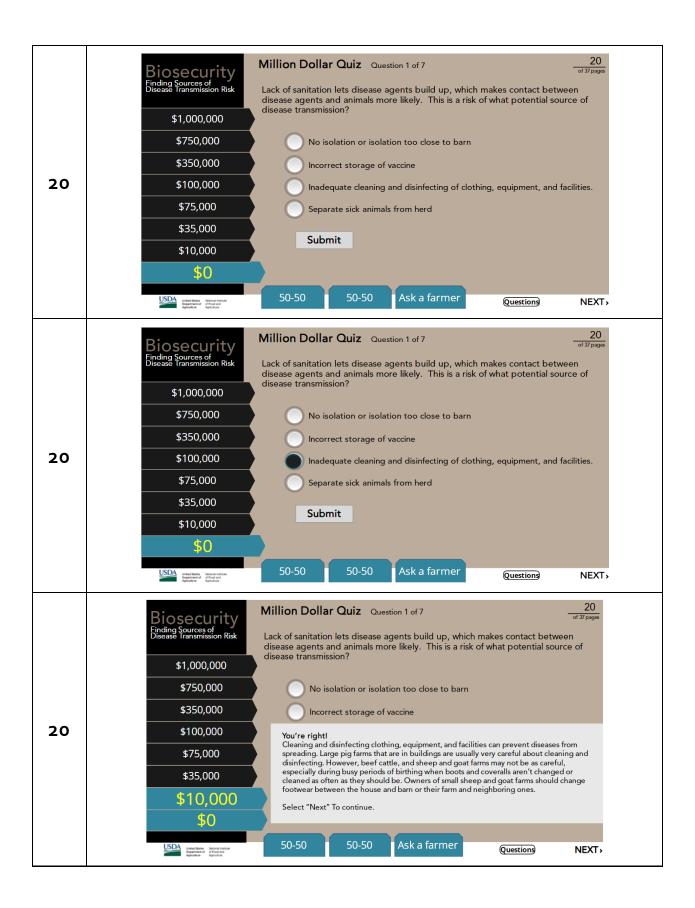








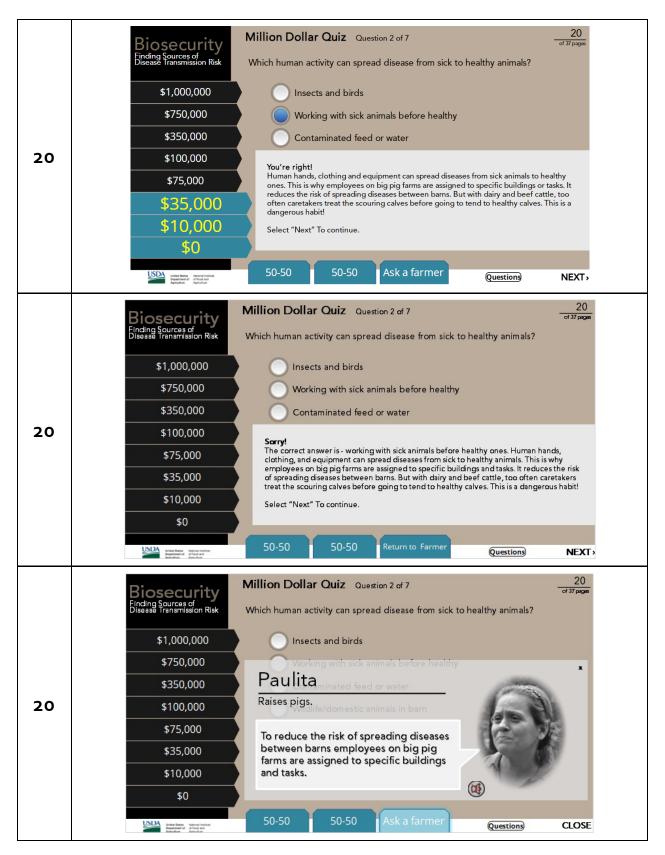




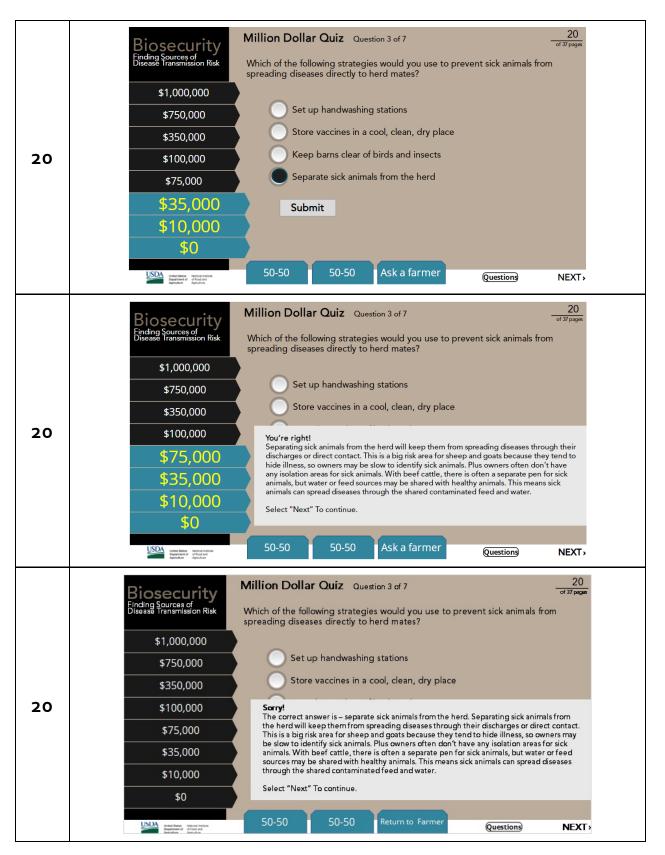


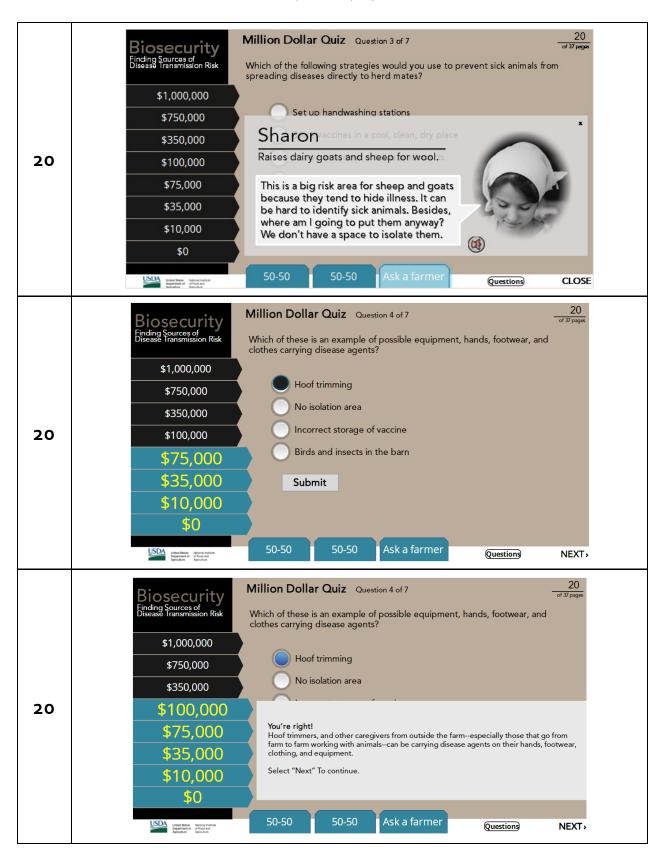
20	Biosecurity Finding Sources of Disease transmission Risk Million Dollar Quiz Question 1 of 7 20 \$1,000,000 \$1,000,000 Lack of sanitation lets disease agents build up, which makes contact between disease agents and animals more likely. This is a risk of what potential source of disease transmission? \$100,000 No isolation or isolation too close to barn \$100,000 Incorrect storage of vaccine \$100,000 The correct answer is - cleaning and disinfecting of clothing, equipment, and facilities. The correct answer is - cleaning and disinfecting can prevent diseases from spreading. Large pig farms that are in buildings are usually very careful about cleaning and disinfecting. However, beef, cattle, and sheep and goat farms should change footwear between the house and barn or their farm and neighboring ones. \$10,000 Select "Next" To continue.
	UND Return to Farmer Questions NEXT>
20	Biosecurity Million Dollar Quiz Question 1 of 7 20 Biosecurity Ending Surraes of Outstand Outstand Status Anticol Samitation lets disease agents build up, which makes contact between disease agents and animals more likely. This is a risk of what potential source of disease transmission? Status \$1,000,000 \$750,000 No isolation or isolation too dose to barn Image: Contract storage of vaccine \$100,000 \$350,000 No isolation or isolation too dose to barn Image: Contract storage of vaccine \$100,000 \$350,000 No isolation or isolation too dose to barn Image: Contract storage of vaccine \$100,000 \$350,000 No isolation or isolation too dose to barn Image: Contract storage of vaccine \$100,000 \$350,000 It sure gets busy during birthing season. Ijust don't have time to change in between births or when I run up to the house for a quick bite to eat! Image: Contract storage of the contract storage of the contract bits or when I run up to the house for a quick bite to eat! Image: Market
20	Million Dollar Quiz Question 2 of 7 Transmission Risk Million Dollar Quiz Question 2 of 7 Which human activity can spread disease from sick to healthy animals? \$1,000,000 \$1,000,000 \$750,000 \$350,000 \$100,000 \$355,000 \$100,000 \$355,000 \$100,000 \$100,000 \$355,000 \$100,000 \$0 \$0 \$0 \$0 \$0 \$0 \$







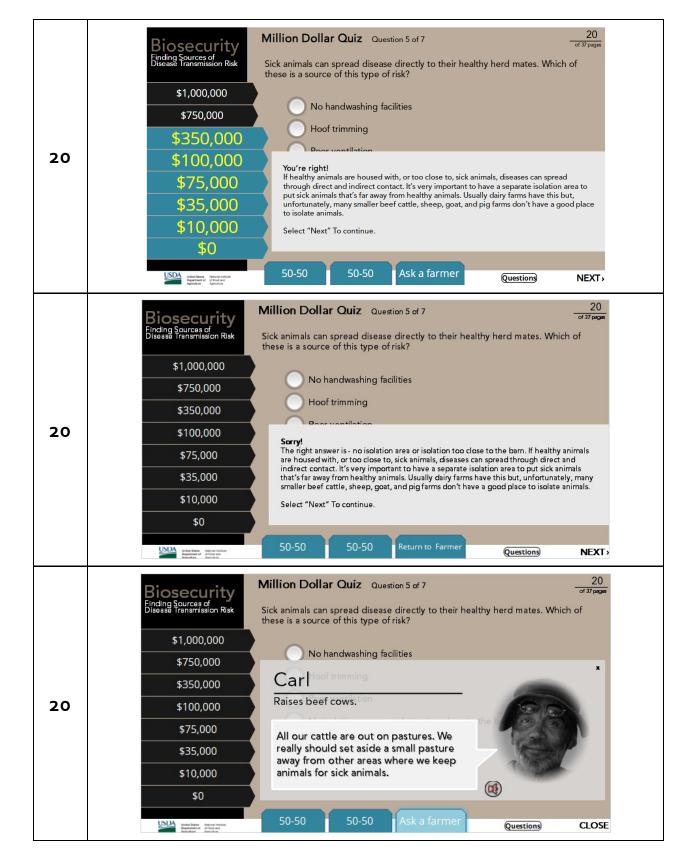




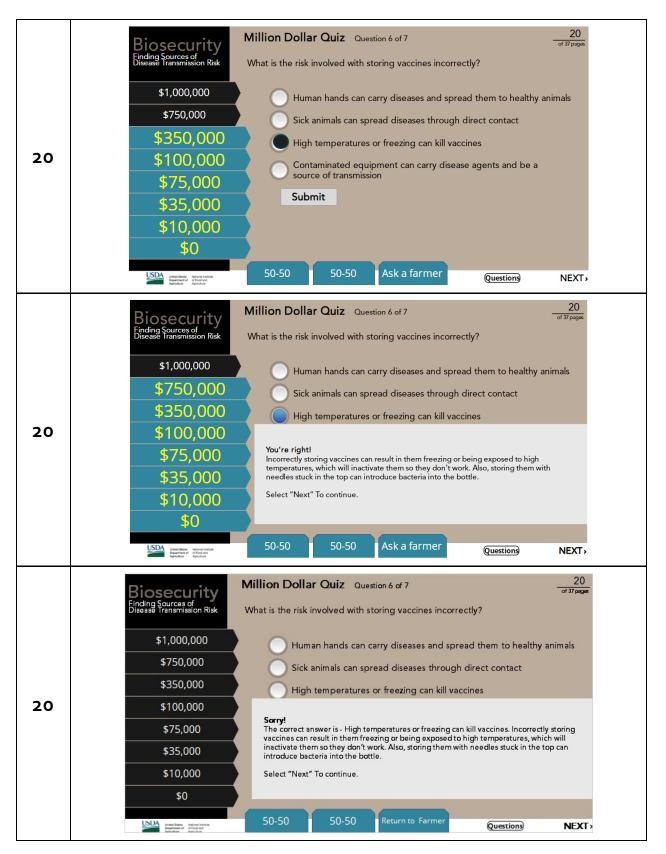


	Biosecurity Finding Sources of Disease Transmission Risk Which of these is an example of possible equipment, hands, footwear, and clothes carrying disease agents?
	\$1,000,000 \$750,000 Hoof trimming
	\$350,000 No isolation area
20	\$100,000
	\$75,000 Sorry! The correct answer is - hoof trimming. Hoof trimmers, and other caregivers from outside
	\$35,000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,000
	\$10,000 \$0
	VSDA balance Social SU-SU SU-SU Recurrico Parmer Questions NEXT >
	Biosecurity Million Dollar Quiz Question 4 of 7
	Finding Sources of Disease Transmission Risk Clothes carrying disease agents?
	\$1,000,000
	\$750,000 x
20	\$350,000 \$100,000 Baises dairy cowscrage of vaccine
	\$75,000
	\$35,000 I worry about these other people we hire to come treat our animals. How many
	\$10,000 other farms have they visited that day?
	\$0
	Number of the second
	Biosecurity Million Dollar Quiz Question 5 of 7
	Biosecurity Finding Sources of Disease transmission Risk Sick animals can spread disease directly to their healthy herd mates. Which of these is a source of this type of risk?
	\$1,000,000
	\$750,000 No handwashing facilities
20	\$350,000 Poor ventilation
20	\$100,000 \$75,000 No isolation area or isolation too close to the barn
	\$35,000 Submit
	\$10,000
	\$0
	Verticities Services Ser





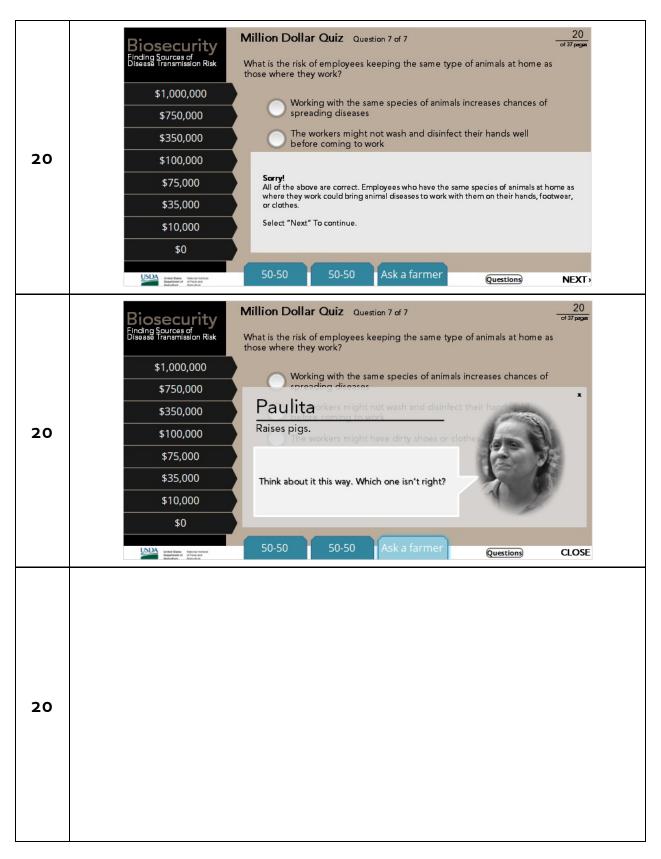




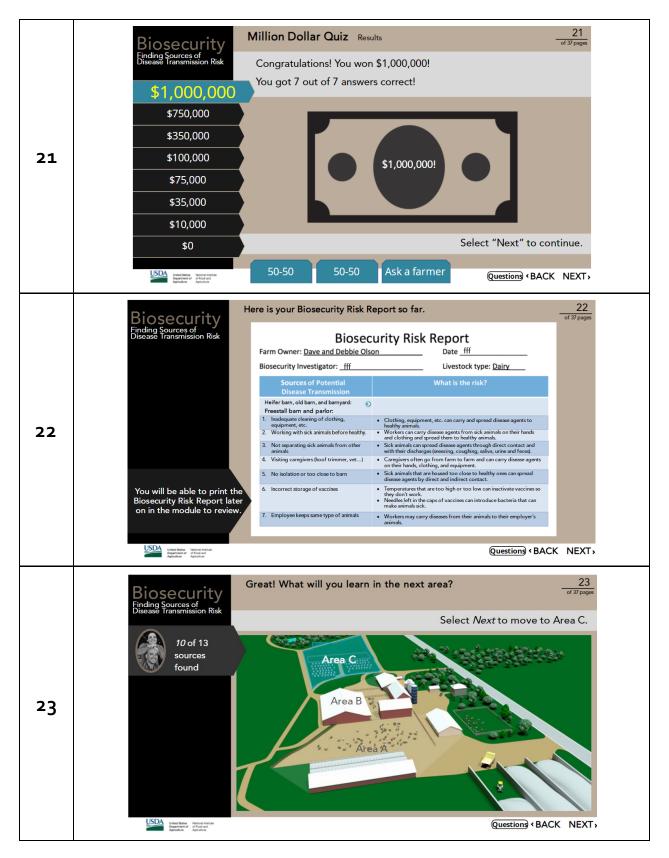


	Biosecurity Finding Sources of Disease Transmission Risk Million Dollar Quiz Question 6 of 7 What is the risk involved with storing vaccines incorrectly? 20 of 37 Page What is the risk involved with storing vaccines incorrectly?	
	vitatis the fisk involved with storing vacches incorrectly?	
	\$1,000,000	
	\$750,000 Sick animals can spread diseases through direct contact	
	\$350,000 Carl High temperatures or freezing can kill vaccines Raises beef cows.	
20	\$100,000 Contaminated equipment can carry disease ag	
	\$75,000 We keep our vaccines and medicines in a	
	\$35,000 special refrigerator, so no matter the season, we know they won't get too hot	
	\$10,000 or cold.	
	the second secon	
	Biospecturity Million Dollar Quiz Question 7 of 7	
	Biosecurity Finding Sources of Disease Transmission Risk What is the risk of employees keeping the same type of animals at home as	
	those where they work?	
	\$1,000,000 Working with the same species of animals increases chances of	
	\$750,000 spreading diseases The workers might not wash and disinfect their hands well	
20	• 550,000 before coming to work	
20	\$100,000 The workers might have dirty shoes or clothes	
	\$75,000 All of the above \$35,000	
	\$10,000 Submit	
	\$0	
	USDA Understand Arriver Arriver Sol-50 50-50 Ask a farmer Questions NEXT >	
	Biosecurity Million Dollar Quiz Question 7 of 7	
	Finding Sources of Disease Transmission Risk What is the risk of employees keeping the same type of animals at home as	
	\$1,000,000	
	\$750,000 Working with the same species of animals increases chances of spreading diseases	
	\$350,000 The workers might not wash and disinfect their hands well before coming to work	
20	\$100,000	
	\$75,000 All of the above are correct. Employees who have the same species of animals at home as	
	\$35,000 where they work could bring animal diseases to work with them on their hands, footwear, or clothes.	
	\$10,000 Select "Next" To continue.	
	\$0	
	S0-50 S0-50 Ask a farmer Question BACK NEXT	

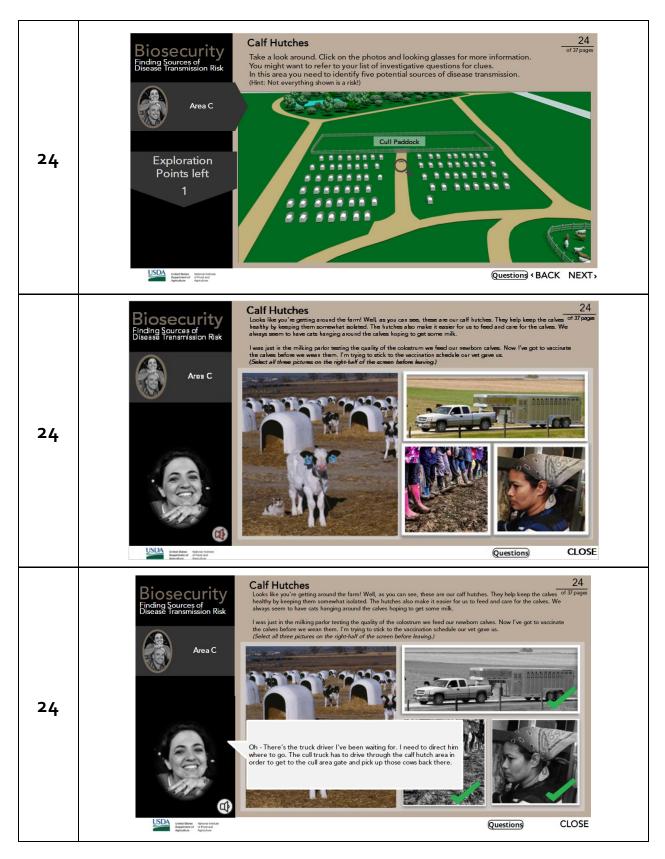




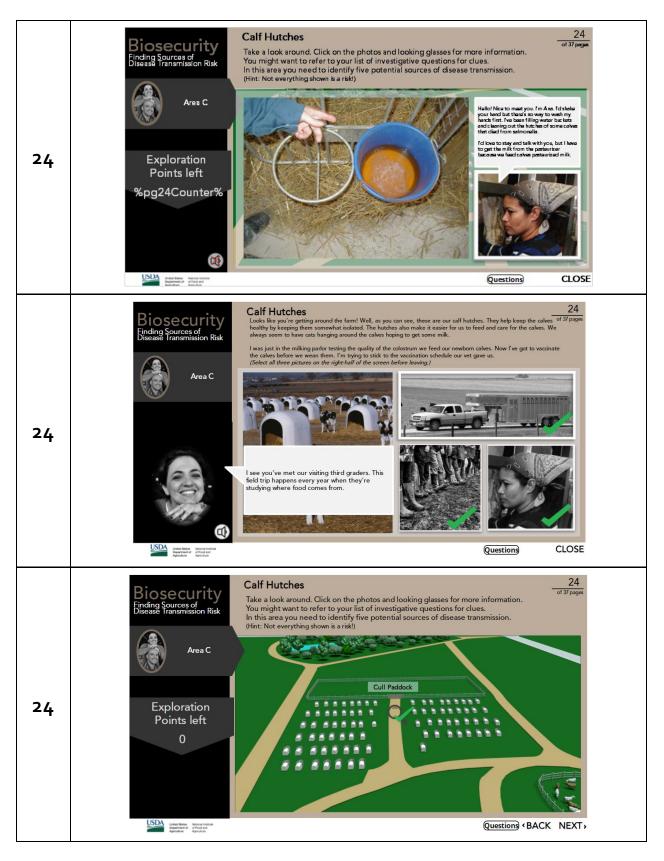




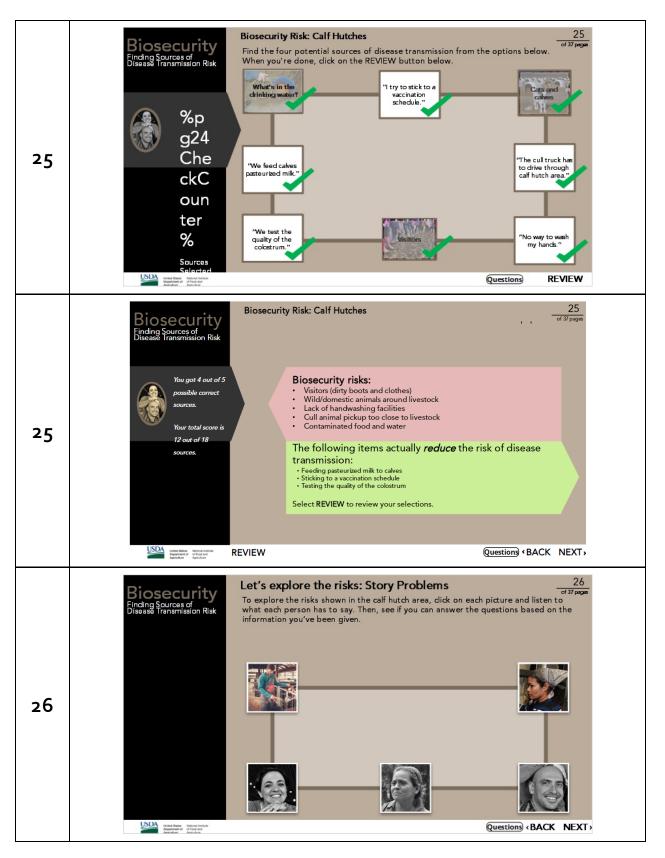




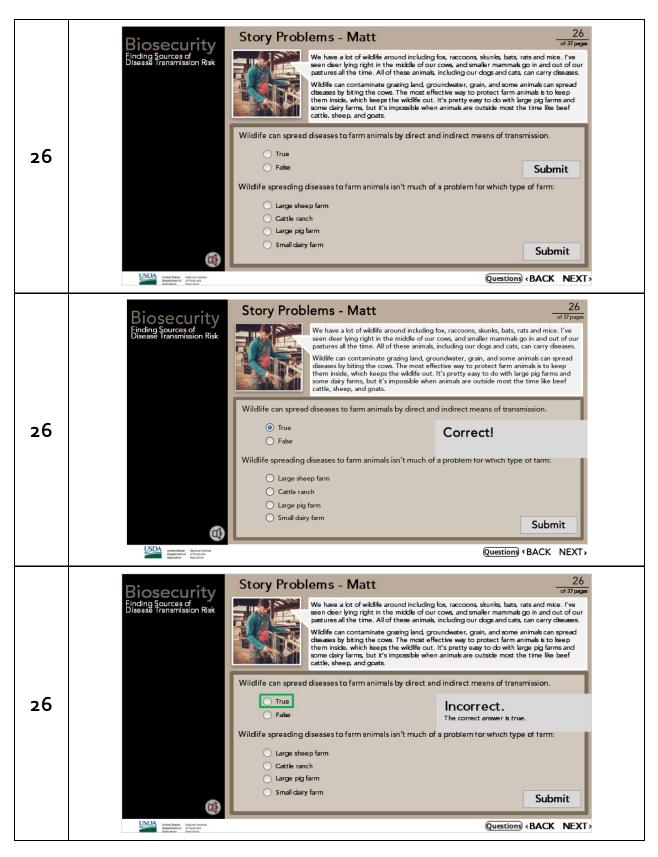




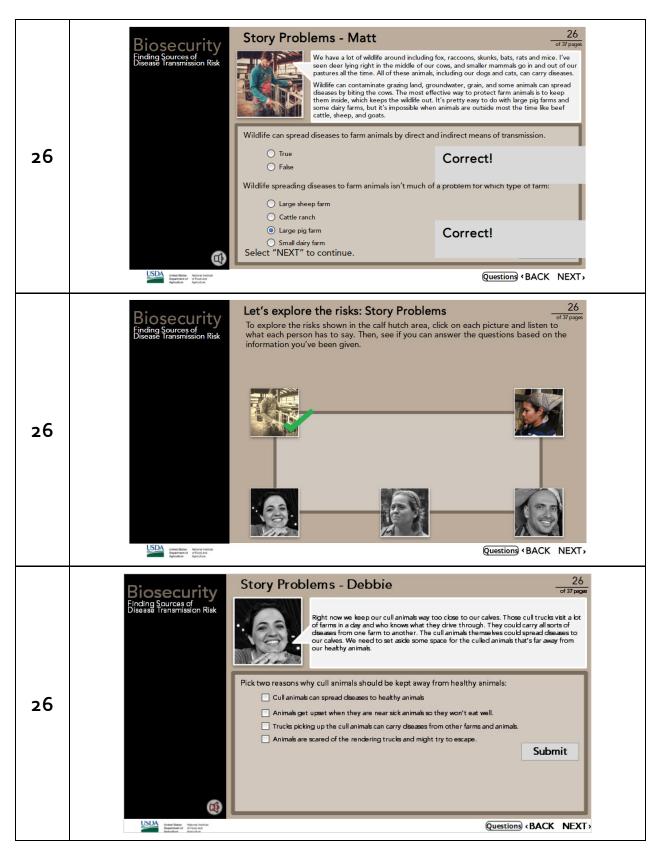




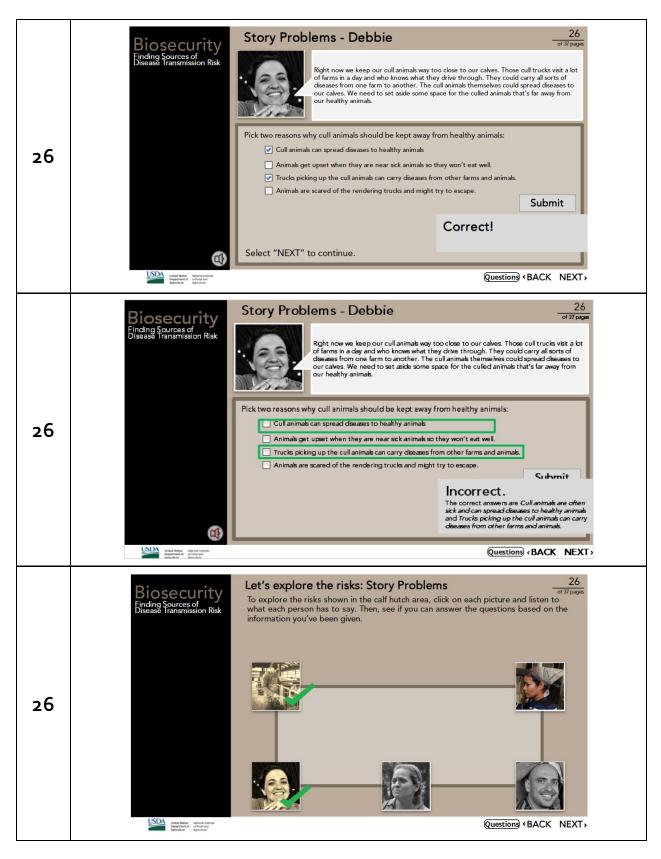




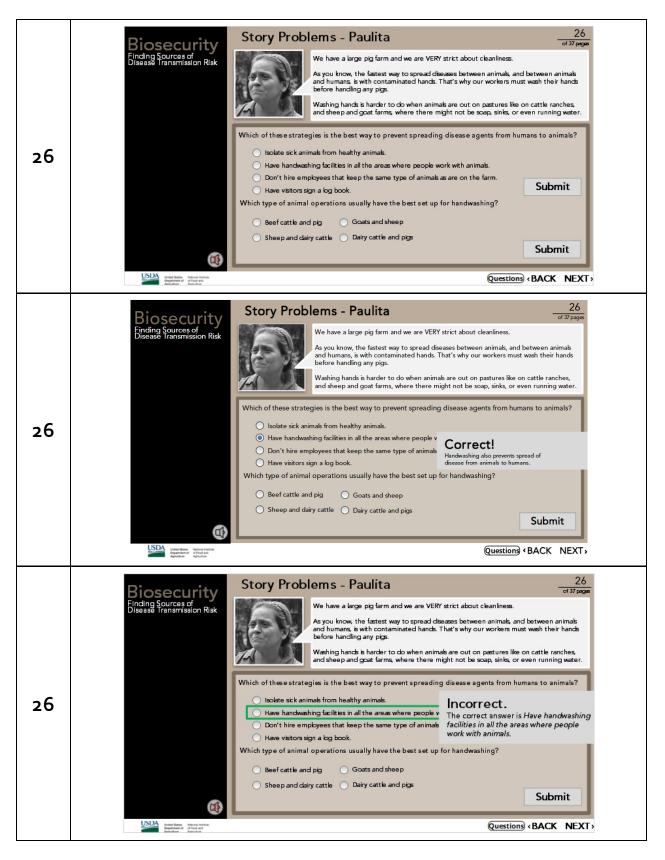




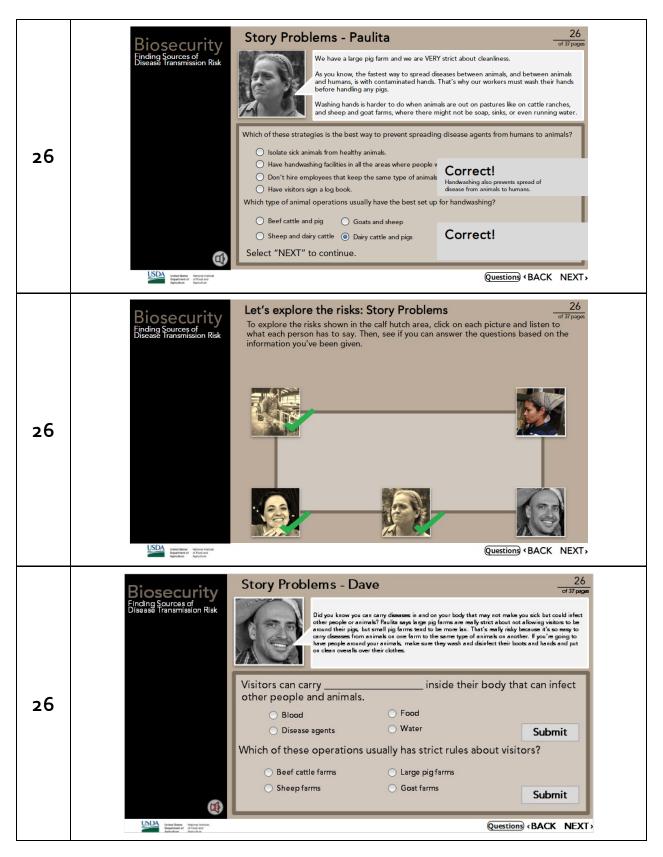








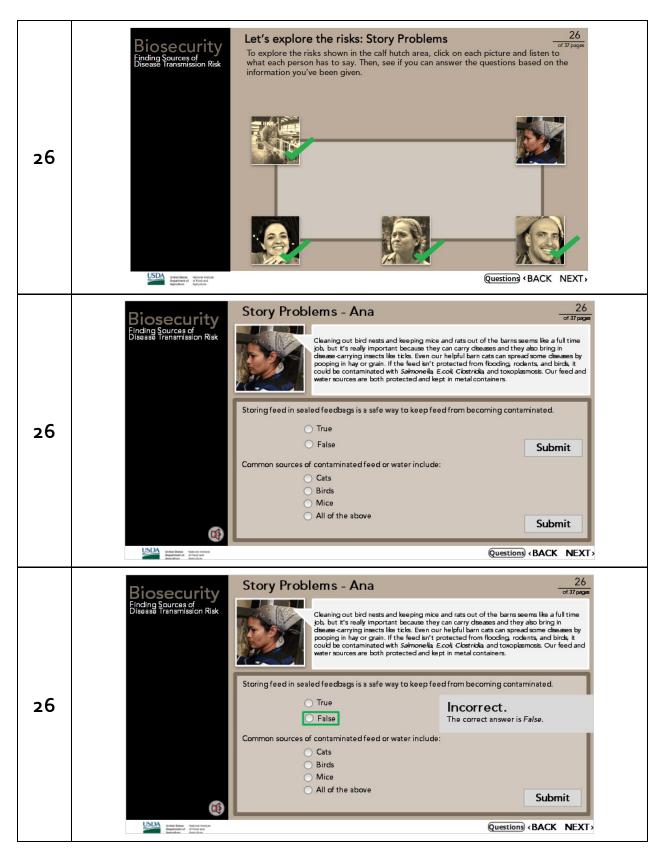




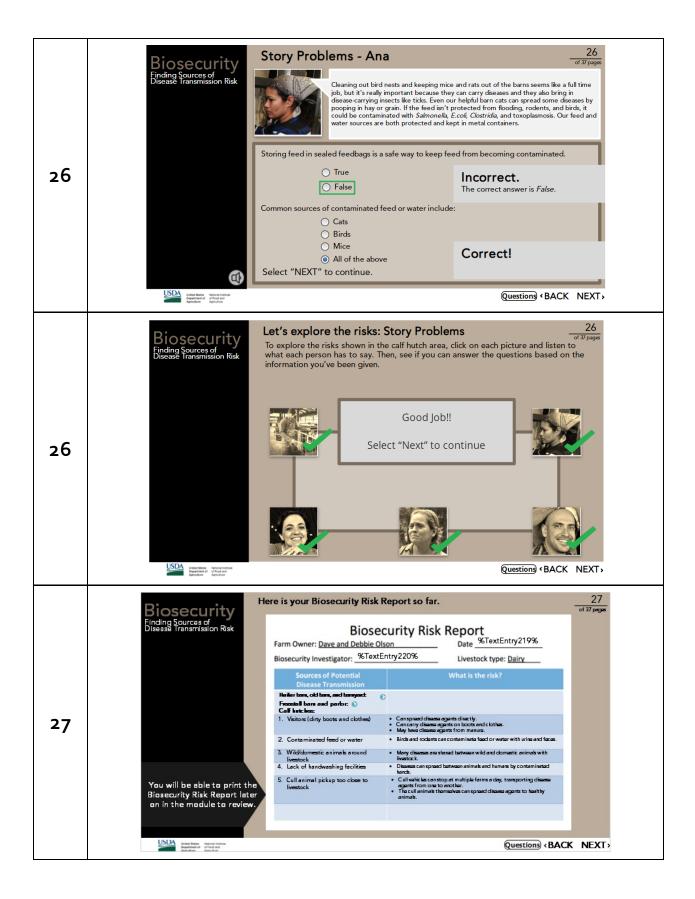


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26	Bisease Transmission Risk Story Problems - Dave 26 Bisease Transmission Risk For problems - Dave Story Problems - Dave Story Problems - Dave Visitors can carry cleases from animals Paulita says large pig farms are really stict about not allowing visitors to be to obter people a random fair pig farms and to be more lat. This really risky because it is to as a to any disease from animals on one farm to the same type of animals on another. If you're going to hand an order their pig. Lot small pig farms and to be more lat. This really risky because it is to as a to any disease from animals on one farm to the same type of animals on another. If you're going to hand an another. If you're going to hand so an order. If you're going to hand so an order. If you're going to hand so an order. If you're going to hand so an order their people and animals, make sure they wash and disinfect their body that can infect other people and animals. Blood Inside their body that can infect other people and animals. Blood Inside their body that can infect other people and animals. Blood Inside their body that can infect other people and animals. Blood Inside their clues about visitors? Blood Inside the pig farms Sheep
	Back NEXT>
26	Biosecurity Diseases fransmission Risk Story Problems - Dave 26 (17 page Will be apply of a marriely of a marriely and a page pig forms are melly strict about not allowing visitons to be accound their pige, but struell pig forms are melly strict about not allowing visitons to be accound their pige, but struell pig forms are melly strict about not allowing visitons to be accound their pige, but struell pig forms are melly strict about not allowing visitons to be accound their pige, but struell pig forms are melly strict about not allowing visitons to accound their pige, but struell pig forms are melly strict about not allowing visitons to accound their pige, but struell pig forms are melly strict about not allowing visitons to accound their pige, but struell pig forms are melly strict about not allowing visitons to accound their pige, but struell pig forms are melly strict about not allowing visitons to accound their pige, but struell pig forms are melly strict about not allowing visitons to accound their pige, but struell pig forms are melly strict about not allowing visitons to accound their pige, but struell pig forms are melly strict about not allowing visitons to accound their pige, but struct other people and animals. Image: Disease agents Food Image: Disease agents Food Image: Disease agents Image: Disease agents Water The correct answer is disease agents Image: Disease agents Image: Disease agents Image: Disease agents Image: Disease agents Image: Disease agents Image: Disease agents Image: Disease agents Image: Disease agents Image: Disease agents Image: Disease
26	Story Problems - Dave 26 Git page Git page Disease framministion Risk Implicit propio or animals? Paulia says large pig farms are really stird about not allowing winters to give people or animals? Paulia says large pig farms are really stird about not allowing winters to give people animals? Paulia says large pig farms are really stird about not allowing winters to give people animals? Paulia says large pig farms are really stird about not allowing winters to give people animals? Paulia says large pig farms are really stird about not allowing winters to give people animals? Paulia says large pig farms are really stird about not allowing winters to give people animals? Paulia says large pig farms are really stird about not allowing winters to give people animals? Paulia says large pig farms are really stird about visitors? Visitors can carry inside their body that can infect other people and animals. Blood Food Disease agents Water Which of these operations usually has strict rules about visitors? Beef cattle farms Got farms Sheep farms Got farms<

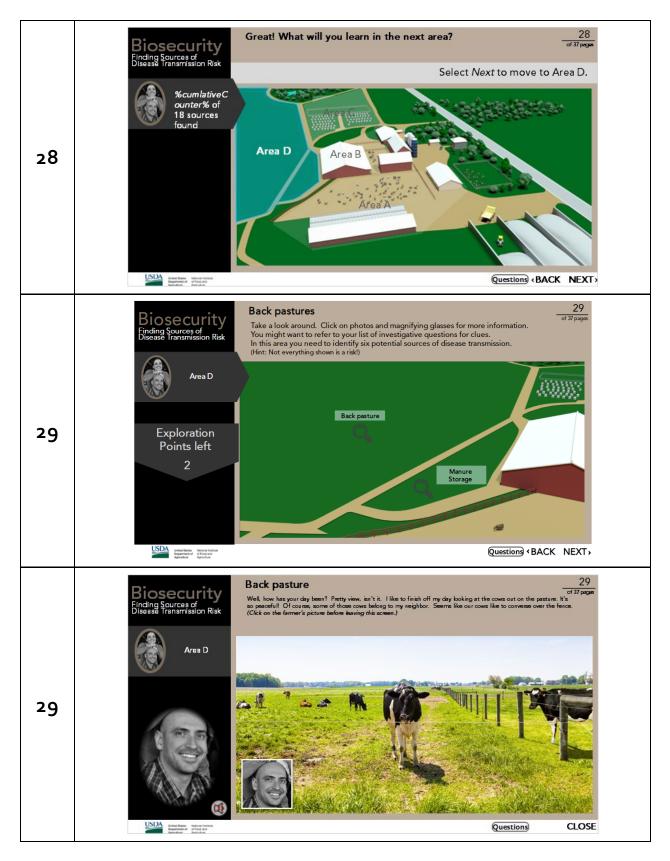


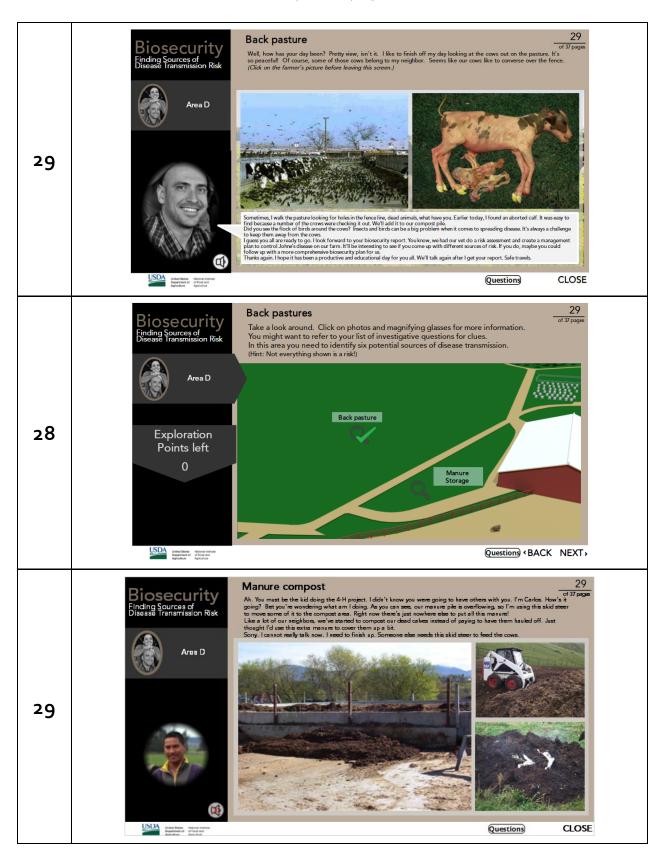


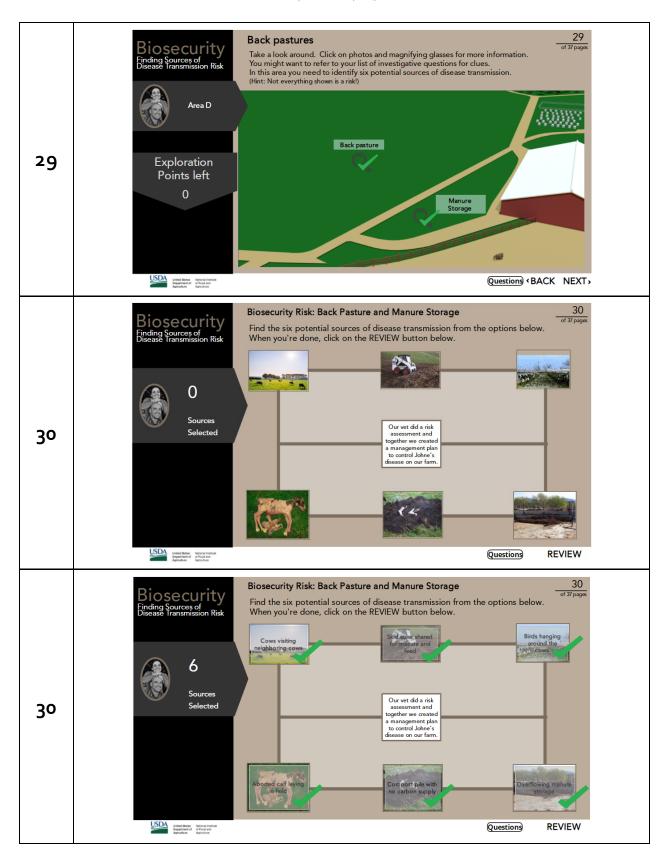


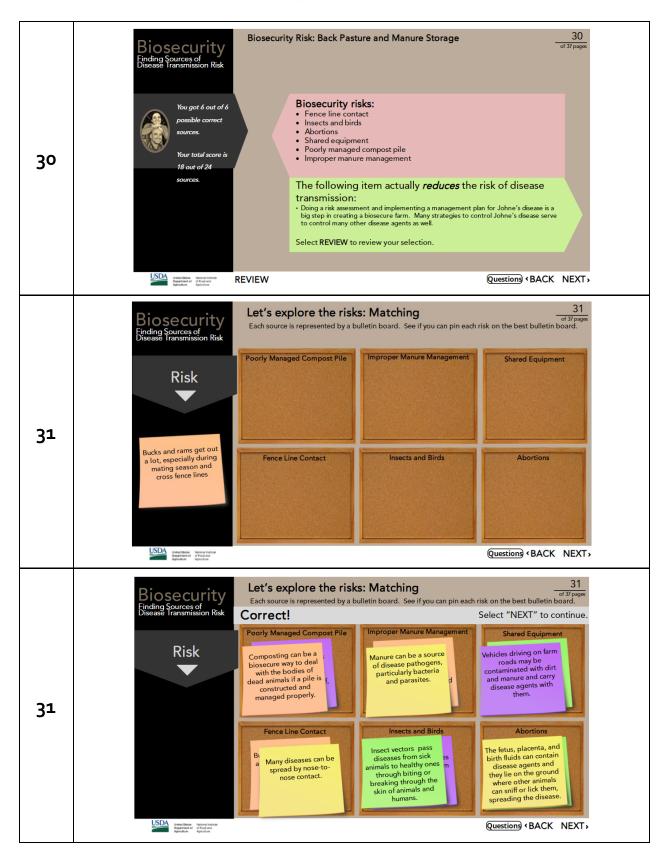




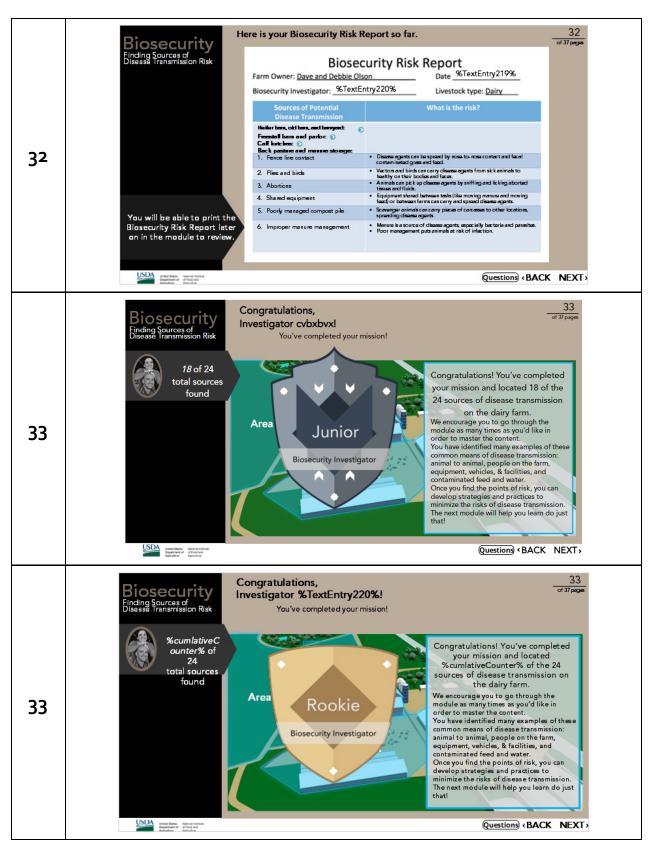




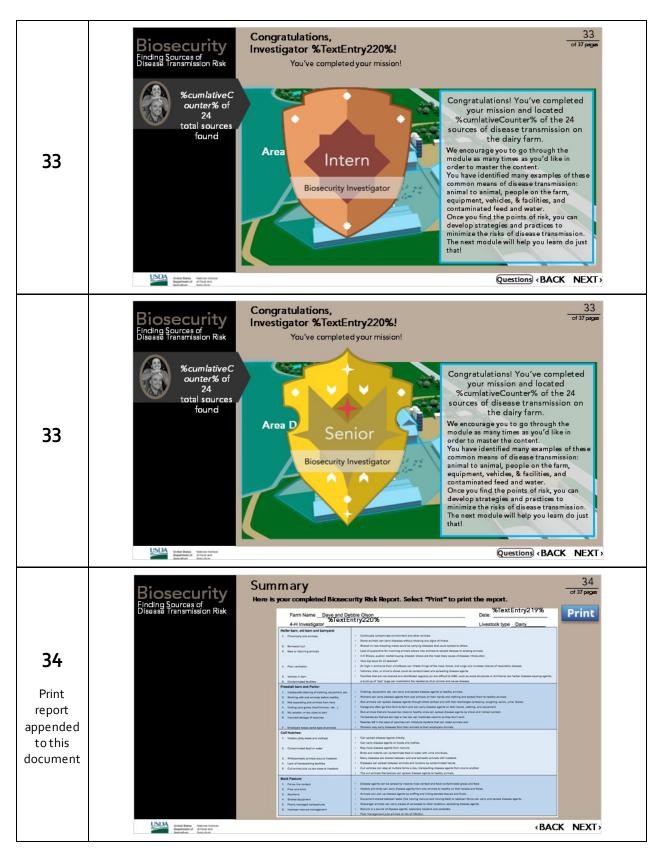


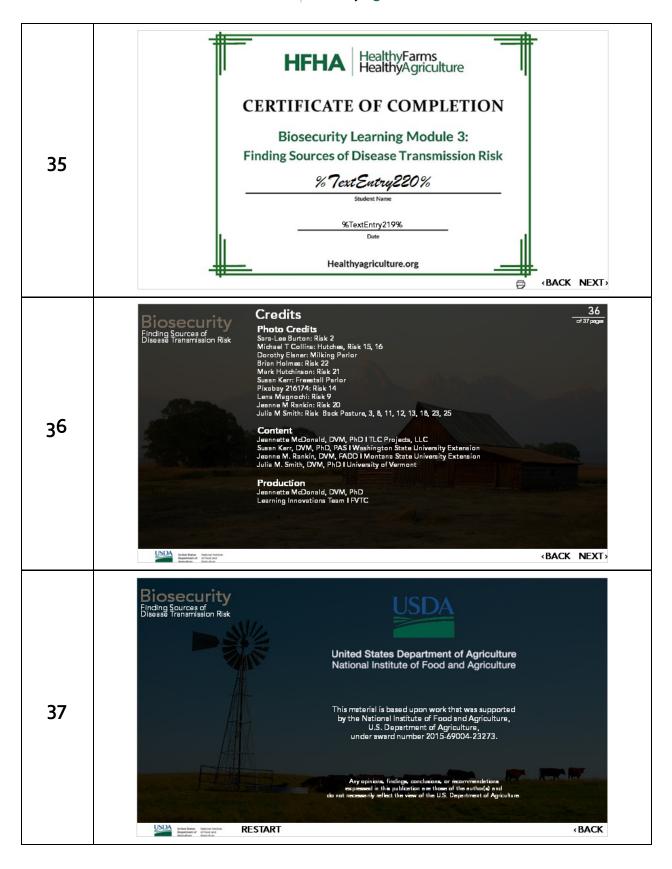














Biosecurity Risk Report

Farm Name	Dave and Debbie Olson	

Date: _____

	4-H Investigator Livestock type Dairy						
He	ifer barn, old barn and barnyard:						
1.	Chronically sick animals	•	Continually contaminate environment and other animals.				
		•	Some animals can carry diseases without showing any signs of illness				
2.	Borrowed bull	•	Shared or new breeding males could be carrying diseases that could spread to others.				
3.	New or returning animals	•	Lack of quarantine for incoming animals allows new animals to spread disease to existing animals.				
		•	4-H Shows, auction market buying, breeder shows are the most likely cause of disease introduction.				
		•	Very big issue for all species!!				
4.	Poor ventilation	•	Air high in ammonia from urine/feces can irritate linings of the nose, throat, and lungs and increase chance of respiratory disease.				
		•	Vehicles, tires, or driver's shoes could be contaminated and spreading disease agents.				
5.	Vehicle in barn	•	Facilities that are not cleaned and disinfected regularly (or are difficult to C&D, such as wood structures or dirt floors) can harbor disease-causing agents;				
6.	Contaminated facilities		a build-up of "bad" bugs can overwhelm the resistance of an animal and cause disease.				
Freestall barn and Parlor:							
1.	Inadequate cleaning of clothing, equipment, etc.	•	Clothing, equipment, etc. can carry and spread disease agents to healthy animals.				
2.	Working with sick animals before healthy	•	Workers can carry disease agents from sick animals on their hands and clothing and spread them to healthy animals.				
3.	Not separating sick animals from herd	•	Sick animals can spread disease agents through direct contact and with their discharges (sneezing, coughing, saliva, urine, feces).				
4.	Visiting care givers (hoof trimmer, vet)	•	Caregivers often go from farm to farm and can carry disease agents on their hands, clothing, and equipment.				
5.	No isolation or too close to barn	•	Sick animals that are housed too close to healthy ones can spread disease agents by direct and indirect contact.				
6.	Incorrect storage of vaccines	•	Temperatures that are too high or too low can inactivate vaccine so they don't work.				
		•	Needles left in the caps of vaccines can introduce bacteria that can make animals sick.				
7.	Employee keeps same type of animals	•	Workers may carry diseases from their animals to their employers animals.				
Ca	If Hutches:						
1.	Visitors (dirty boots and clothes)	•	Can spread disease agents directly.				
		•	Can carry disease agents on boots and clothes.				
2.	Contaminated feed or water	•	May have disease agents from manure.				
		•	Birds and rodents can contaminate feed or water with urine and feces.				
З.	Wild/domestic animals around livestock	•	Many diseases are shared between wild and domestic animals with livestock.				
4.	Lack of handwashing facilities	•	Diseases can spread between animals and humans by contaminated hands.				
5.	Cull animal pick up too close to livestock	•	Cull vehicles can stop at multiple farms a day, transporting disease agents from one to another.				
		•	The cull animals themselves can spread disease agents to heathy animals.				
Back Pasture:							
1.	Fence line contact	•	Disease agents can be spread by nose-to-nose contact and fecal contaminated grass and feed.				
2.	Flies and birds	•	Vectors and birds can carry disease agents from sick animals to healthy on their bodies and feces.				
3.	Abortions	•	Animals can pick up disease agents by sniffing and licking aborted tissues and fluids.				
4.	Shared equipment	•	Equipment shared between tasks (like moving manure and moving feed) or between farms can carry and spread disease agents.				
5.	Poorly managed compost pile	•	Scavenger animals can carry pieces of carcasses to other locations, spreading disease agents.				
6.	Improper manure management	•	Manure is a source of disease agents, especially bacteria and parasites.				
		•	Poor management puts animals at risk of infection.				