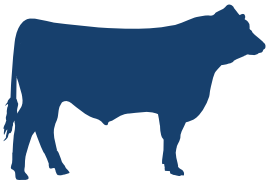
Zoonotic Diseases of Agricultural Animals
By Species

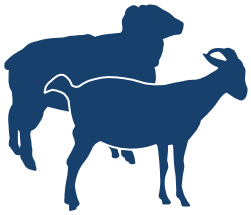
Zoonotic diseases include a wide range of bacteria, viruses and other microorganism that can cause illness in animals and people. The table below highlights several important zoonoses of livestock and poultry. Most zoonoses can be prevented when proper precautions are taken.

Cattle



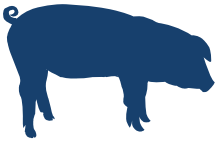
- Anthrax
- Bovine papular stomatitis
- Bovine spongiform encephalopathy
- Bovine tuberculosis (*M. bovis*)
- Brucellosis (*Brucella abortus)*
- Campylobacteriosis
- Chlamydiosis
- Colibacillosis (*Escherichia coli)*
- Cryptosporidiosis
- Cysticercosis/Taeniasis
- Dermatophilosis (rain scald)
- Dermatophytosis (ringworm)
- Echinococcosis
- Giardiasis
- Leptospirosis
- Listeriosis
- Mites (mange/acariasis)
- Pseudocowpox
- Q fever
- Rabies
- Salmonellosis
- Streptococcosis
- Vesicular stomatitis

Sheep and Goats



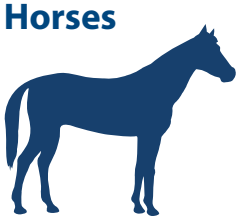
- Anthrax
- Bovine tuberculosis (*M. bovis)*
- Brucellosis (*Brucella melitensis)*
- Campylobacteriosis
- Caseous lymphadenitis
- Chlamydiosis
- Colibacillosis (*Escherichia coli*)
- Contagious ecthyma (orf)
- Cryptosporidiosis
- Cysticercosis/Taeniasis
- Dermatophilosis
- Dermatophytosis (ringworm)
- Echinococcosis
- Giardiasis
- Leptospirosis
- Listeriosis
- Mites (mange/acariasis)
- Q fever
- Rabies
- Ringworm
- Salmonellosis
- Toxoplasmosis
- Tularemia
- Vesicular stomatitis

Pigs



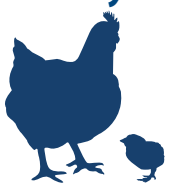
- Ascariais (*Ascaris suum*)
- Brucellosis (*Brucella suis)*
- Campylobacteriosis (*C. coli*)
- Colibacillosis (*Escherichia coli*)
- Cryptosporidiosis
- Cysticercosis/Taeniasis
- Erysipelas
- Giardiasis
- Hepatitis E
- Japanese encephalitis
- Leptospirosis
- Methicillin-resistant *Staphylococcus aureus* (MRSA)
- Nipah virus infection
- Salmonellosis
- Streptococcosis (*S. suis)*
- Swine influenza
- Toxoplasmosis
- Trichinellosis
- Trichuriasis
- Vesicular stomatitis
- Yersiniosis

Horses



- Anthrax
- Brucellosis (*Brucella abortus)*
- Colibacillosis (*Escherichia coli*)
- Dermatophilus (rainrot)
- Equine encephalitis viruses (EEE, WEE, VEE)
- Giardiasis
- Glanders
- Hendra
- Leptospirosis
- Methicillin-resistant *Staphylococcus aureus* (MRSA)
- Pasteurella (bites)
- Rabies
- *Rhodococcus equi*
- Ringworm
- Salmonellosis
- Sporotrichosis
- *Streptococcus equi*
- Vesicular stomatitis
- West Nile fever

Poultry



- Avian influenza
- Avian mycobacteriosis (*M. avium*)
- Campylobacteriosis
- Colibacillosis (*Escherichia coli*)
- Cryptococcosis (*C. neoformans)*
- Erysipelas
- Favus/avian ringworm (*Microsporum gallinae)*
- Fowl mites (*Dermanyssus gallinae, Ornithonyssus sylvarium)*
- Histoplasmosis
- Newcastle disease
- Psittacosis
- Salmonellosis

Learn more about zoonotic diseases at www.cfsph.iastate.edu

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