

Appendix 1

Zoonotic diseases of importance in the United States, 2008

Disease	Agent	Means of transmission to humans	Most common species associated with transmission to humans ¹¹¹⁻¹¹³	Nationally notifiable for human (H) or animal (A) cases	Severe or prolonged infection usually associated with immunosuppression	Deaths in humans reported
Acariasis (mange)	<i>Sarcoptes scabiei</i> , <i>Notoedres cati</i> , and other species of mites	Contact	Dogs, cats, horses, goats, sheep, swine, birds	No	No	No
Anthrax	<i>Bacillus anthracis</i>	Contact, aerosol, vector	Cattle, sheep, goats, horses	H, A	No	Yes
Avian influenza	Highly pathogenic avian influenza viruses	Contact, aerosol	Poultry, pet birds	H,A	No	Yes
Babesiosis	<i>Babesia microti</i> and other species	Vector	Cattle, rodents	A	Yes	Yes
Baylisascariasis	<i>Baylisascaris procyonis</i>	Contact	Raccoons	No	No	Yes
<i>Bordetella bronchiseptica</i> infection	<i>Bordetella bronchiseptica</i>	Aerosol	Dogs, pigs, rabbits, guinea pigs	No	Yes	No
Brucellosis	<i>Brucella melitensis</i> , <i>Brucella abortus</i> , <i>Brucella suis</i> , <i>Brucella canis</i>	Contact, aerosol	Goats, cattle, swine, dogs, horses	H, A	No	Yes
Campylobacteriosis	<i>Campylobacter jejuni</i> , <i>Campylobacter fetus</i> , <i>Campylobacter coli</i>	Contact	Cattle, sheep, goats, pigs, dogs, cats, birds, mink, ferrets, hamsters	No	No	Rare
<i>Capnocytophaga canimorsus</i> infection	<i>Capnocytophaga canimorsus</i> , <i>Capnocytophaga cynodegmi</i>	Contact	Dogs, cats	No	Yes	Yes
Cat scratch disease	<i>Bartonella henselae</i>	Contact	Cats	No	Yes	Rare
Chlamydiosis (mammalian)	<i>Chlamydophila abortus</i> , <i>Chlamydophila felis</i>	Aerosol, contact	Sheep, goats, llamas, cats, cattle	No	No	Yes
Contagious pustular dermatitis (orf or contagious ecthyma)	Parapoxvirus	Contact	Sheep, goats	No	No	No
Cryptococcosis	<i>Cryptococcus neoformans</i>	Aerosol	Pigeons, other birds	No	Yes	Yes
Cryptosporidiosis	<i>Cryptosporidium parvum</i>	Contact	Cattle (typically calves)	H	Yes	Yes
Dermatophilosis	<i>Dermatophilus congolensis</i>	Contact, vector	Goats, sheep, cattle, horses	No	No	No
Dermatophytosis (ringworm)	<i>Microsporium</i> spp., <i>Trichophyton</i> spp., <i>Epidermophyton</i>	Contact	Cats, dogs, cattle, goats, sheep, horses, lagomorphs, rodents	No	Yes	No

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Dipylidium infection (tapeworm)	<i>Dipylidium caninum</i>	Vector	Dogs, cats	No	No	No
Escherichia coli O157:H7 infection	<i>Escherichia coli</i> O157:H7	Contact	Cattle, goats, sheep, deer	No	No	Yes

Echinococcosis	<i>Echinococcus granulosus</i> , <i>Echinococcus multilocularis</i>	Contact	Dogs, cats, wild canids	A	No	Yes
Ehrlichiosis or anaplasmosis	<i>Ehrlichia</i> and <i>Anaplasma</i> spp	Vector	Deer, rodents, horses, dogs	H	Yes	Yes
Equine encephalomyelitis	Togaviridae (eastern, western, and Venezuelan equine encephalomyelitis viruses)	Vector	Birds, horses	H, A	No	Yes
Erysipeloid	<i>Erysipelothrix rhusiopathiae</i>	Contact	Pigs, fish, crustaceans, and mollusks	No	No	Yes
Giardiasis	<i>Giardia intestinalis</i> (<i>Giardia lamblia</i>)	Contact	Thought to be highly species-specific and rarely transmitted from animals to humans	H	Yes	No
Hantaviral diseases	Hantaviruses	Aerosol	Rodents	H	No	Yes
Herpes B virus infection	Cercopithecine herpesvirus 1	Contact	Macaque monkeys	No	No	Yes
Influenza A	Influenza A virus	Contact, aerosol	Poultry, swine	H, A	No	Yes
Larval migrans: cutaneous (hookworm)	<i>Ancylostoma</i> spp	Contact	Dogs, cats	No	No	Rare
Larval migrans: visceral, ocular, neuro (roundworm)	<i>Toxocara canis</i> , <i>Toxocara cati</i>	Contact	Dogs, cats	No	No	Rare
Leishmaniasis	<i>Leishmania</i> spp	Vector	Dogs, wild canids	A	No	Yes
Leptospirosis	<i>Leptospira</i> spp	Contact, aerosol	Rodents, pigs, cattle, sheep, goats, horses, dogs	A	No	Yes
Listeriosis	<i>Listeria monocytogenes</i>	Contact	Cattle, sheep, goats, pigs, birds, dogs, cats	H	Yes	Yes
Lyme disease	<i>Borrelia burgdorferi</i>	Vector	Small rodents, wild mammals	H	No	No
Lymphocytic choriomeningitis	Arenavirus (lymphocytic choriomeningitis virus)	Contact, aerosol	Mice, hamsters, guinea pigs	No	Yes	Yes
Monkeypox	Orthopoxvirus	Contact, aerosol	Non-human primates, rodents	A	No	Yes
Mycobacteria (non-tuberculous)	<i>Mycobacterium avium</i> complex, <i>Mycobacterium marinum</i>	Aerosol, contact	Poultry, birds, aquarium fish, reptiles	No	Yes	Yes
Pasteurellosis	<i>Pasteurella multocida</i> and other species	Contact	Dogs, cats, rabbits, rodents	No	Yes	No

Plague	<i>Yersinia pestis</i>	Vector, contact, aerosol	Rodents, cats, lagomorphs	H, A	No	Yes
Psittacosis or chlamydiosis	<i>Chlamydophila psittaci</i>	Aerosol, contact	Pet birds, poultry	H	Yes	Yes
Q fever	<i>Coxiella burnetii</i>	Contact, aerosol, vector	Goats, sheep, cattle, rodents, lagomorphs, dogs, cats	H, A	No	Yes
Rabies	Lyssavirus	Contact	Cats, dogs, cattle and other domestic animals, wild carnivores, raccoons, bats, skunks, foxes	H, A	No	Yes
Rat bite fever	<i>Streptobacillus moniliformis</i> , <i>Spirillum minus</i>	Contact	Rodents	No	Yes	Yes
Rhodococcus equi infection	<i>Rhodococcus equi</i>	Aerosol, contact	Horses	No	Yes	Yes
Rocky Mountain spotted fever	<i>Rickettsia rickettsii</i>	Vector	Dogs, rabbits, rodents	H		Yes
Salmonellosis	<i>Salmonella</i> spp	Contact	Reptiles, amphibians, poultry, horses, swine, cattle, pocket pets, many species of mammals and birds	H	Yes	Yes
Sporotrichosis	<i>Sporothrix schenckii</i>	Contact	Cats, dogs, horses	No	Yes	Rare
Staphylococcosis	<i>Staphylococcus</i> species	Contact	Dogs, cats, horses	H (VRSA, VISA)	Yes	Yes (some forms)
Streptococcosis	<i>Streptococcus</i> species	Contact, aerosol	Swine, fish, other mammals	some forms H	No	Yes (some forms)
Toxoplasmosis	<i>Toxoplasma gondii</i>	Contact	Cats	No	Yes	Yes
Trichuriasis (whipworm infection)	<i>Trichuris suis</i> , <i>Trichuris trichiura</i> , <i>Trichuris vulpis</i>	Contact	Dogs, swine	No	No	Rare
Tuberculosis, bovine	<i>Mycobacterium bovis</i>	Aerosol, contact	Cattle, swine, sheep, goats	H, A	No	Yes
Tularemia	<i>Francisella tularensis</i>	Vector, contact, aerosol	Lagomorphs, pocket pets, wild aquatic rodents, sheep, cats, horses, dogs	H, A	No	Yes
Vesicular stomatitis	Vesicular stomatitis virus	Vector, contact, aerosol	Horses, cattle, swine, sheep, goats	A	No	No
West Nile fever	West Nile virus	Vector	Wild birds	H, A	No	Yes
Yersiniosis	<i>Yersinia enterocolitica</i>	Contact	Swine, many species of mammals and birds	No	No	No

Data regarding nationally reportable diseases were obtained from the CDC's nationally notifiable infectious diseases list, the World Organization for Animal Health (OIE) notifiable animal diseases list, and the

USDA Animal and Plant Health Inspection Service reportable diseases list.¹¹⁴⁻¹¹⁶ Cases may also be notifiable at the state level; state veterinarians or state public health veterinarians should be consulted for current listings of reportable diseases in specific areas.