

## Appendix 1

Selected zoonotic diseases of importance in the United States, 2015.

Disease	Agent	Means of transmission to humans	Most common species associated with transmission to humans	Nationally notifiable for human (H) or animal (A) cases	Severe or prolonged infection usually associated with immunosuppression	Deaths in humans reported
Acariasis (scabies)	<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 virus	Contact, aerosol	Poultry, pet birds	H, A	No	Yes
Babesiosis	<i>Babesia microti</i> and other <i>Babesia</i> spp	Vector	Cattle, rodents	A	Yes	Yes
Bartonellosis	<i>Bartonella henselae</i> , other <i>Bartonella</i> spp		Cats, other species possible	No	Yes	Rare
Baylisascariasis	<i>Baylisascaris procyonis</i>	Contact	Raccoons	No	No	Yes
<i>Bordetella bronchiseptica</i> infection	<i>Bordetella bronchiseptica</i>	Aerosol	Dogs, cats, swine, rabbits, guinea pigs, horses	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, feral pigs, dogs, horses	H, A	No	Yes
Campylobacteriosis	<i>Campylobacter jejuni</i> , other <i>Campylobacter</i> spp	Contact	Poultry, cattle, sheep, goats, swine, dogs, cats, mink, ferrets, hamsters, racoons, other wildlife	No	No	Yes
<i>Capnocytophaga</i> spp infection	<i>Capnocytophaga canimorsus</i> , <i>Capnocytophaga cynodegmi</i>	Contact	Dogs, cats	No	Yes	Yes
Chlamydiosis (mammalian)	<i>Chlamydomphila abortus</i> , <i>Chlamydomphila felis</i>	Aerosol, contact	Sheep, goats, llamas, cats, cattle	No	Yes, preganant women	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>Microsporum</i> spp, <i>Trichophyton</i> spp, <i>Epidermophyton</i> spp	Contact	Cats, dogs, cattle, goats, sheep, horses, rabbits, rodents	No	No	No
<i>Dipylidium</i> infection (tapeworm)	<i>Dipylidium caninum</i>	Vector	Dogs, cats	No	No	No
<i>Escherichia coli</i> 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> (multiple subtypes, called assemblages, exist, several of which can be transmitted to people)	Contact	Pigs, poultry, lambs, calves, birds, fish, crustaceans mollusks	No	No	Yes
Giardiasis	<i>Giardia intestinalis</i> ( <i>Giardia lamblia</i> )	Contact	Beavers and other wild rodents, dogs, cats, guinea pigs, ferrets, livestock	H	Yes	No
Hantaviral diseases	Hantaviruses	Aerosol	Rodents	H	No	Yes
Herpes B virus infection	Macacine herpesvirus	Contact	Macaque monkeys	No	No	Yes
Histoplasmosis	<i>Histoplasma capsulatum</i>	Aerosol	Bats, soil enriched with wild bird guano	No	Yes	Yes
Influenza	Influenza A viru	Contact, aerosol	Poultry, swine, ferrets	H, A	No	Yes

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## Appendix 1

Zoonotic diseases of importance in the United States, 2015 (continued).

Disease	Agent	Means of transmission to humans	Most common species associated with transmission to humans	Nationally notifiable for human (H) or animal (A) cases	Severe or prolonged infection usually associated with immunosuppression	Deaths in humans reported
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, raccoons	No	No	Rare
Leishmaniasis	<i>Leishmania</i> spp	Vector	Dogs, wild canids	A	No	Yes
Leptospirosis	<i>Leptospira</i> spp	Contact, aerosol	Rodents, swine, cattle, sheep, goats, horses, dogs	A	No	Yes
Listeriosis	<i>Listeria monocytogenes</i>	Contact	Cattle, sheep, goats, pigs, birds, dogs, cats	H	Yes, particularly pregnant women	Yes
Lyme disease	<i>Borrelia burgdorferi</i>	Vector	Small rodents, wild large mammals	H	Yes	Yes
Lymphocytic choriomeningitis	Arenavirus (lymphocytic choriomeningitis virus)	Contact, aerosol	Mice, hamsters, guinea pigs	No	Yes, particularly pregnant women	Rare
Monkeypox	Orthopoxvirus	Contact, aerosol	Nonhuman primates, rodents	A	No	Yes
Mycobacteriosis (nontuberculous)	<i>Mycobacterium avium</i> complex, <i>Mycobacterium marinum</i>	Aerosol, contact	Poultry, pet birds, aquarium fish reptiles	No	Yes	Yes
Pasteurellosis	<i>Pasteurella multocida</i> and other species	Contact	Dogs, cats, rabbits, rodents	No	Yes	Rare
Plague	<i>Yersinia pestis</i>	Vector, contact, aerosol	Rodents, cats, rabbits	H, A	Yes	Rare
Psittacosis (human) chlamydiosis (avian)	<i>Chlamydophila psittaci</i>	Aerosol, contact	Pet birds, poultry	H, A (poultry)	Yes	Yes
Q fever	<i>Coxiella burnetii</i>	Contact, aerosol, vector	Goats, sheep, cattle, rodents, rabbits, 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	Pet rats, wild rats	No	No	Yes
<i>Rhodococcus equi</i> infection	<i>Rhodococcus equi</i>	Aerosol, contact	Horses	No	Yes	Yes
Rocky Mountain spotted fever	<i>Rickettsia rickettsii</i>	Vector	Dogs, rabbits, rodents	H	No	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> spp	Contact	Dogs, cats, horses	H (certain drug-resistant strains of <i>S aureus</i> )	Yes	Yes
Streptococcosis	<i>Streptococcus</i> spp	Contact, aerosol	Swine, fish, other mammal	H (some forms)	No	Yes
Toxoplasmosis	<i>Toxoplasma gondii</i>	Contact	Cats	No	Yes	Yes
Trichinellosis	<i>Trichinella spiralis</i>	Contact	Feral pigs, swine	H, A	No	Rare
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>	Contact, aerosol	Cattle, swine, sheep, goats, bison, elk, deer, reindeer	H, A	No	Yes
Tularemia	<i>Francisella tularensis</i>	Vector, contact, aerosol	Rabbits, 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	Yes	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 APHIS reportable-diseases list.<sup>14,15</sup> 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.