Parasites, Pests and Pathogens of Concern in Southeast Alaska and Adjacent British Columbia

| Disease | Agent | Affects | Species Affected | Comments | Threat Level | References |
|-------------------------|--|--|---|--|--------------|---------------------|
| MAMMALS | | | | | | |
| Chronic Wasting Disease | a prion in saliva | | deer, moose, wapiti | Not yet reported from Alaska but needs monitoring | High | |
| Hantavirus | Sin Nombre virus | cardiopulmonary syndrome | rodents, shrews, humans | Several voles (<i>Microtus, Myodes</i>) have recently tested positive for hantaan- related virus in southeast Alaska | High | |
| Rabies | a virus | | bats, wolf, dog, lynx | | | |
| Tularemia | bacterium, <i>Francisella tularensis</i> , from tick-borne flea | | beaver, snowshoe hare | | | |
| Liver Tapeworm Cysts | cestode Taenia hydatigena | | deer, moose, wapiti; wolf-dog intermediate hosts | | | |
| Cystic Hydatid | cestode Echinococcus granulosus | | adult: wolf, dog; larval form (cyst): deer, wapiti, moose | monitor | | |
| Trichinosis | roundworm T. spiralis | | bears, wolf, fox, wolverine, lynx, seals, ground squirrel | | | |
| Lungworm | roundworm parasites (e.g., Dictyocaulus, Protostrongylus spp.); snail intermediate host for some, plants in others. | | deer, moose | | | |
| Dog Louse | Trichodectes canis | | wolf, dog | | | |
| Canine Parvovirus | a virus | | canines, cats, mustelids | | | |
| Canine Distemper | a virus | | domestic dog to wild canids, mustelids | | | |
| Contagious Ecthyma | a virus | | mountain goat, humans | | | |
| Foot and Mouth | a virus | | ungulates | Not yet reported in state; needs to be monitored | | |
| Lumpy Jaw | a bacterium | | moose, deer (?) | | | |
| Papillomas (warts) | a virus | | moose | | | |
| Moose Fly | biting fly Haematobosca alcis | | moose | | | |
| Cryptorchidism | unknown (genetic?) | Malformed genitalia causing sterility | deer | | | Latch et al. (2008) |
| BIRDS | | | | | | |
| Avian Influenza (H5N1) | virus passed through infected bird fecal droppings, saliva, and nasal discharges | | Mainly affects birds; can be passed to other animals and people | monitor | High | |
| West Nile Virus | mosquito-borne virus in migratory birds | | people | monitor | High | |
| AMPHIBIANS | | | | | | |
| Chytridiomycosis | fungi <i>Batrachochytrium</i> dendrobatidis | Spreads through water courses and amphibian-to-amphibian contact, and possibly by other mechanisms not yet fully understood. | frogs, toad | Recently reported in western toads in Southeastern. Associated with amphibian declines worldwide. | High | |

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| PLANTS | | | | | |
| a fungus | Chrysomyxa abietis | foliar rust | spruce | Not yet reported in Alaska; monitor | High |
| a root fungus | Phytophthora lateralis | roots | cedar | Not yet reported in Alaska; monitor | High |
| a fungus | Didymascella chamaecypari | | cedars | Not yet reported in Alaska; monitor | High |
| a fungal parasite | Seiridium cardinale | foliar and stem cankering | cedars | Not yet reported in Alaska; monitor | High |
| a fungus | Cistella japonica | stem canker | conifers(?) | Not yet reported in Alaska; monitor | High |
| a fungus | Taphrina betulina | foliar "witch's broom" | birch | Not yet reported in Alaska; monitor | High |
| pine wilt nematode | Bursaphelenchus xylophilus | wilt; sawyer beetles (Monochamus spp.) vector | spruce, pine | Not yet reported in Alaska; monitor | |
| Spruce Budworm | Choristoneura fumiferana | • | | | |
| Spruce Aphid | Elatobium abietinum | | | | |
| Western Black-headed | Acleris gloverana | | | | |
| Budworm | - | | | | |
| Hemlock Sawfly | Neodiprion tsugae | | | | |
| Spruce Beetle | Dendroctonus rufipennis | | | | |
| Western Balsam Bark Beetle | Dryocoetes confusus | | | | |
| Hemlock Dwarf Mistletoe | Arceuthobium tsugense | | | | |
| Spruce Broom Rust | Chrysomyxa arctostaphyli | | | | |
| Western Gall Rust | Peridermium harknessii | | shore pine | | |
| Sirococcus Shoot Blight | Sirococcus tsugae | | | | |
| Yellow-cedar Shoot Blight | Apostrasseria sp. | | | | |
| Tomentosus Root Disease | Inonotus tomentosus | | | | |
| Annosus Root & Butt Rot | Heterobasidion annosum | | | | |
| Armillaria Root Disease | Armillaria spp. | | | | |
| Spruce Needle Rust | Chrysomyxa ledicola | | | | |
| Gypsy Moth | Lymantria dispar | | | Not yet reported in Alaska; monitor | High |