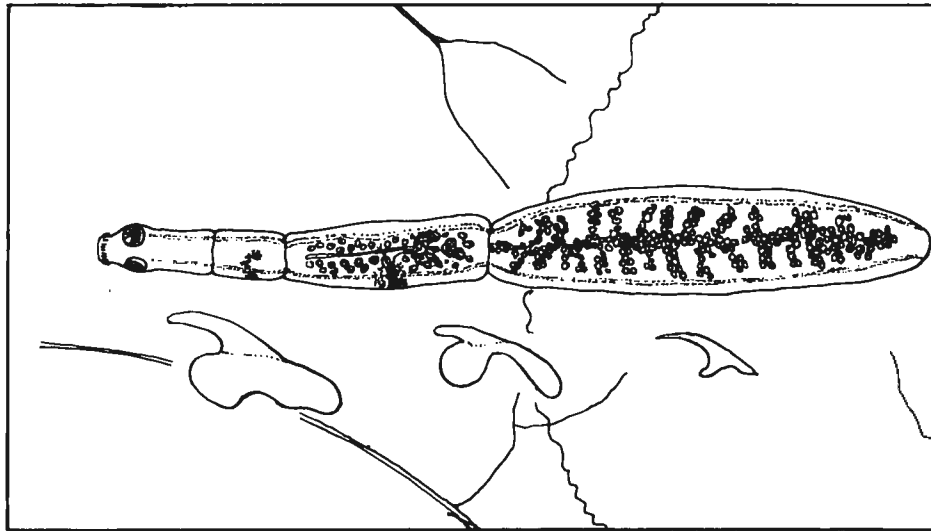


**A Bibliography of the Parasites,
Diseases and Disorders of Several
Important Wild Ruminants of the
Northern Hemisphere**

**by Kenneth A. Neiland and
Clarice Dukeminier**

Reindeer and Caribou, Genus, Rangifer
Moose, Genus Alces
Sheep and Related Mountain Game
Deer, Genus Odocoileus



ALASKA DEPARTMENT OF FISH AND GAME

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AND DISORDERS OF SEVERAL IMPORTANT WILD
RUMINANTS OF THE NORTHERN HEMISPHERE**

Reindeer and caribou, genus Rangifer
Moose, genus Alces
Sheep and related mountain game
Deer, genus Odocoileus

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INTRODUCTION

The following bibliographies are part of a series started when the senior author first became involved in wildlife disease studies in Alaska in 1959. The big game fauna of Alaska is particularly rich. It includes representatives of genera found here and there throughout the northern hemisphere (i.e. *Alces*, *Rangifer*, *Ovis*, *Cervus*, *Bison*, *Ovibos*, *Odocoileus* and *Oreamnos*). Some of these genera (i.e. *Cervus*, *Ovibos* and *Bison*) became extinct in Alaska in earlier times and have been recently reintroduced from other areas. *Rangifer* is present in two forms: indigenous caribou and introduced reindeer. All of the wild ruminants in Alaska, except *Odocoileus*, evidently are originally derived from immigrants from the Old World. Accordingly, it may be supposed that, in many instances, the enzootic diseases and parasites of this rich host-fauna may bear considerable similarity to those of wild ruminants in Eurasia or elsewhere. While domestic animal husbandry is not extensive in Alaska, there are one or two areas where game (e.g. *Alces*, *Bison*) ranges overlap those of domestic species (i.e. cattle and horses). This may already have added to the complexity of the pathogen faunas seen in the wild ruminants in such areas. Therefore, in order to better understand the potential health problems of Alaskan wildlife, it was, and continues to be, necessary to review the world literature and not just those few titles specifically on Alaskan studies.

The full titles of the periodicals and other publications cited for the references are presented in the appendix. The first sections of several bibliographies proper list the general sources we consulted. Each bibliography is divided into major categories according to the kind of pathogen (e.g. protozoa, helminth, etc.) which is the primary or only topic of each reference cited. In some cases very brief annotations are included. References are cited under only one category, regardless of the number of different pathogen categories individually included. We will appreciate any corrections, additions or other suggestions that anyone may care to make. We would particularly like to thank the staff of the

Arctic Health Research Center library for their considerable help. We must also acknowledge the considerable help provided by earlier bibliographers cited in the section on general sources. This work was financed in part by Federal Aid in Wildlife Restoration Project W-17-R.

PART I. REINDEER AND CARIBOU, GENUS RANGIFER

It may be that the genus *Rangifer* in its wild (caribou) and domesticated (reindeer) forms will ultimately prove to be the most important ruminant in Alaska. This will only come about through skillful management as failures in the past here and abroad amply testify. Relatively little work has been done on the diseases, whether parasitic or infectious, of *Rangifer* in North America and much of that is of a somewhat cursory nature. In Eurasia, however, the intensive development of the reindeer industry has provided the impetus for the production of a considerable literature dealing with the afflictions of this species. Considering the origins of *Rangifer* in North America, there is every reason to suppose that there should be substantial similarity between rangiferine disease problems in the new and old worlds. Rangiferine brucellosis, which is caused by the same organism, i.e. *Brucella suis* type 4, here and abroad is but one of several examples that could be cited.

Because many state, provincial, federal and academic groups are currently engaged in various research and management activities dealing with North American reindeer and caribou, it seems worthwhile to provide them with easy access to our bibliographic endeavors. Exhaustion of a small supply of the bibliography in a preliminary mimeographed form suggests that it will prove of interest to workers in the field.

While it is our opinion that we have included the great majority of the titles published through June 1969, there may well be items that we have overlooked. We have made no special effort to include items (e.g. administrative reports, theses, popular articles, etc.) which are not bona fide scientific publications (i.e. articles in established professional scientific journals).

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PART II. MOOSE, GENUS ALCES

The importance of moose in North America, both for sporting and subsistence purposes, needs little additional documentation. By contrast, the literature on the diseases, etc. of *Alces* spp. is, by and large, comparatively sparse and lacking in depth. A brilliant exception to this mild criticism are the papers of Anderson and his co-workers who have clearly implicated a nematode parasite of deer as the agent of a long-known, serious neurological disorder of moose. Because of their ability to generally thrive in close contact with man and his animals, moose are also potentially important as reservoirs of diseases or parasites of man or domestic animals. For example, various tapeworms, including the agent of hydatid disease, develop as larvae in moose or other wild or domestic ruminants and mature in wild or domestic canines. Altogether it seems particularly obvious that the disorders of this host species merit a great deal more attention than they have thus far obtained. Perhaps this modest bibliographic endeavor will expedite such studies.

While it is our opinion that we have included the great majority of the titles published through March 1969, there may well be items that we have overlooked. We have made no special effort to include items (e.g. administrative reports, theses, popular articles, etc.) which are not bona fide scientific publications (i.e. articles in established professional scientific journals).

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PART III. SHEEP AND RELATED MOUNTAIN GAME

Because some of the best known examples of significant limitations of natural populations by disease and related factors involve wild sheep, it has seemed particularly important to find out what is known about all diseases and parasites of wild sheep, and not just those that are of a more sensational and serious nature at the present time. We make no claim that the following collection of titles is substantially complete. However, we know of no other bibliography of comparable coverage. As noted in the title, we have also included titles pertaining to other mountain-game species. This was done on a casual basis, no special attempt being made to search out material on non-ovine forms (e.g. ibex, mountain goat, markhor, etc.). We hope the bibliography will be of at least small help to those concerned with the subject matter and that they will call to our attention the, no doubt, many items we may have overlooked, particularly in the Eurasian literature.

While it is our opinion that we have included the great majority of the titles published through March 1969, there may well be items that we have overlooked. We have made no special effort to include items (e.g. administrative reports, theses, popular articles, etc.) which are not bona fide scientific publications (i.e. articles in established professional scientific journals).

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PART IV. DEER, GENUS ODOCOILEUS

The present bibliography dealing with *Odocoileus* is fourth in the series. The Sitka black-tailed deer, *Odocoileus hemionus sitkensis* Merriam, is more or less abundant throughout southeastern Alaska, where it is indigenous, and on the islands of Prince William Sound and Kodiak Island where it was introduced. It is the most important wild ruminant in these areas, both in numbers and annual hunter-harvest. Throughout their Alaskan range, deer are known to undergo severe, periodic population declines. While those seem principally to involve adverse combinations of weather and food supply, there is no good reason to suppose that pathogens do not sometimes aggravate and, therefore, contribute to losses. The scientific literature, specifically on the Sitka deer in Alaska, is small and two of the three titles of which we know contain unquestionably erroneous information. Therefore, at present our knowledge of what "might be" in Alaskan deer is based almost exclusively on what has been reported elsewhere.

While it is our opinion that we have included the great majority of the titles published through August 1970, there may well be items that we have overlooked. We have made no special effort to include items (e.g. administrative reports, theses, popular articles, etc.) which are not bona fide scientific publications (i.e. articles in established professional scientific journals).

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APPENDIX

Abbreviation	Publication Title
Acta chir. scand.	Acta Chirurgica Scandinavica. Stockholm.
Acta med. scand.	Acta Medica Scandinavica. Stockholm.
Acta medicin. Keijo	Acta Medicinalia in Keijo. Keijo.
Acta parasit. pol.	Acta Parasitologica Polonica. Warszawa.
Acta path. microbiol. scand.	Acta Pathologica et Microbiologica Scandinavica. Kjøbenhavn.
Acta Soc. R. scient. Upsaliensis	Acta Societatis Regiae Scientiarum Upsaliensis. Upsala.
Acta vet., Beogr.	Acta Veterinaria. Beograd.
Acta vet. scand.	Acta Veterinaria Scandinavica. Kjøbenhavn. (was: Nord. VetMed.)
Adv. vet. Sci.	Advances in Veterinary Science. New York.
Ala. Conserv.	Alabama Conservation. Montgomery.
Alaska Med.	Alaska Medicine. Anchorage.
Am. Forests	American Forests. American Forestry Association. Washington, D. C.
Am. J. Anat.	American Journal of Anatomy. Baltimore.
Am. J. Cancer	American Journal of Cancer. New York.
Am. J. Epidem.	American Journal of Epidemiology. (was: Am. J. Hyg.)
Am. J. Hyg.	American Journal of Hygiene. Baltimore, etc.
Am. J. Med.	American Journal of Medicine. New York.
Am. J. med. Sci.	American Journal of the Medical Sciences. Philadelphia.
Am. J. Path.	American Journal of Pathology. Boston, etc.
Am. J. Physiol.	American Journal of Physiology. Boston.
Am. J. publ. Hlth	American Journal of Public Health. New York.
Am. J. trop. Med.	American Journal of Tropical Medicine. Baltimore.
Am. J. trop. Med. Hyg.	American Journal of Tropical Medicine and Hygiene. Baltimore.
Am. J. vet. Res.	American Journal of Veterinary Research. Chicago.
Am. Midl. Nat.	American Midland Naturalist. Notre Dame.
Am. Midl. Nat. Monogr.	American Midland Naturalist Monograph. Notre Dame.
Am. Nat.	American Naturalist. Lancaster, Pa.
Am. vet. Rev.	American Veterinary Review. New York.
Anat. Rec.	Anatomical Record. Philadelphia.
Angew. Parasit.	Angewandte Parasitologie. Jena.
Ann. ent. Soc. Am.	Annals of the Entomological Society of America. Columbus, Ohio.
Ann. Rep. ent. Soc. Ontario	Annual Report of the Entomological Society of Ontario, Toronto.

- Ann. trop. Med. Parasit.
- Annls. Parasit. hum. comp.
- Appl. Microbiol.
- Arb. Reichs-Zent. Pelztier-
Rauchwaren- Forsch
- Arch. Protistenk.
- Arch. wiss. prakt. Tierheilk.
- Archs envir. Hlth.
- Arct. Circ.
- Arctic
- Arctica, Leningr.
- Ark. Zool.
- Arkans. Fm Res.
- Arkh. vet. Nauk
- Arkhang. Gub. Ved.
- Arkhangel'sk
- Atuagagaliutit: Grønlandsposten.
- Avtonom. Iakut.
- Bact. Proc.
- Berl. Munch. tierärztl. Wschr.
- Berl. tierärztl. Wschr.
- Bi-m. Bull. N. Dak. agric. Exp. Stn
- Biologist
- Birzh. Vedom.
- Biull. Zoopark. Zoosod.
- Brigham Young Univ. Sci. Bull.
- Br. J. Haemat.
- Br. J. Tuberc. Dis. Chest
- Bull. Acad. Méd.
- Bull. Brooklyn ent. Soc.
- Bull. Bur. Anim. Ind. U. S. Dep.
Agric.
- Bull. Br. Mus. (Nat. Hist.) Ent.
- Bull. Bur. Ent. U. S. Dep. Agric.
- Annals of Tropical Medicine and
Parasitology. Liverpool.
- Annales de Parasitologie Humaine et
Comparee. Paris.
- Applied Microbiology. Baltimore.
- Arbeiten der Reichs-Zentrale für
Pelztier- und Rauchwaren- Forschung.
Leipzig.
- Archiv für Protistenkunde. Jena.
- Archiv für Wissenschaftliche und
Praktische Tierheilkunde. Berlin.
- Archives of Environmental Health. Chicago.
- Arctic Circular. Ottawa.
- Arctic. Journal of the Arctic Institute of
North America. Montreal, New York, etc.
- Arctica. Leningrad.
- Arkiv för Zoologi. Uppsala.
- Arkansas Farm Research. Fayetteville.
- Arkhiv Veterinarnykh Nauk. S. Peterburg.
- Arkhangel'skie Gubernskie Vedomosti.
Arkhangel'sk.
- Arkhangel'sk. Arkhangel'sk.
- Atuagagaliutit: Grønlandsposten. Godthåb
- Avtonomnaia Iakutiia. Iakutsk.
- Bacteriological Proceedings. Society of
American Bacteriologists. Baltimore.
- Berliner und Munchener Tierärztliche
Wochenschrift. Berlin.
- Berliner Tierärztliche Wochenschrift.
Berlin.
- Bi-monthly Bulletin. North Dakota
Agricultural Experiment Station. Fargo.
- Biologist. Denver.
- Birzhevye Vedomosti. S. Peterburg.
- Biulletin Zooparkov i Zoosodov. Moskva.
- Brigham Young University Science Bulletin.
Provo.
- British Journal of Haematology. Oxford.
- British Journal of Tuberculosis (afterwards,
and Diseases of the Chest.)
- Bulletin de l'Académie de Médecine. Paris.
- Bulletin of the Brooklyn Entomological
Society. Lancaster, Pa.
- Bulletin. Bureau of Animal Industry. United
States Department of Agriculture.
Washington.
- Bulletin of the British Museum of Natural
History. London.
- Bulletin. Bureau of Entomology. United States
Department of Agriculture. Washington.

- Bull. Calif. Dep. Agric.
- Bull. ent. Res.
- Bull. Fla. agric. Exp. Stn
- Bull. hyg. Lab., Wash.
- Bull. Minn. agric. Exp. Stn.
- Bull. Mont. agric. Exp. Stn.
- Bull. Mus. Hist. nat., Paris
- Bull. N. Mex. Dep. Game Fish.
- Bull. natn. Mus. Can.
- Bull. Off. int. Epizoot.
- Bull. Ont. Res. Fdn.
- Bull. Pa Game Commrs
- Bull. publ. Mus., Milwaukee
- Bull. scient. Dep. Nord
- Bull. Soc. cent. Méd. vét.
- Bull. Soc. Path. exot.
- Bull. South. Calif. Acad. Sci.
- Bull. U. S. Dep. Agric.
- Bull. wildl. dis. Ass.
- Bull. Wyo. agric. Exp. Stn.
- Bull. Wyo. Game Fish Commn.
- Bull. Wyo. Game Fish Dep.
- Byull. nauchno-tekh. Inf.
Dal'nevost. nauchno-issled.
Inst. sel'. Khoz.
- Byull. nauchno-tekh. Inf. Iakut.
nauchno-issled Inst. sel'. Khoz.
- Bulletin of the California Department of
Agriculture. Sacramento.
- Bulletin of Entomological Research. London.
- Bulletin. Florida Agricultural Experiment
Station. Gainesville.
- Bulletin of the Hygienic Laboratory.
Washington.
- Bulletin. Minnesota Agricultural Experiment
Station. St. Paul.
- Bulletin of the Montana Agricultural
Experiment Station. Bozeman.
- Bulletin du Muséum d'Histoire Naturelle.
Paris.
- Bulletin. New Mexico Department of Game
and Fish. Santa Fe.
- Bulletin. National Museum of Canada.
Ottawa.
- Bulletin. Office International des
Epizoties. Paris.
- Bulletin. Ontario Research Foundation.
Toronto.
- Bulletin of the Pennsylvania Game
Commissioners. Harrisburg.
- Bulletin of the Public Museum. Milwaukee.
- Bulletin Scientifique de Département du Nord.
Lille, Paris.
- Bulletin (et Mémoires) de la Société
Central de Médecine Veterinaire. Paris.
- Bulletin de la Société de Pathologie
Exotique. Paris.
- Bulletin of the Southern California Academy
of Sciences. Los Angeles.
- Bulletin. United States Department of
Agriculture. Washington, D. C.
- Bulletin of the Wildlife Disease
Association. Ames, Iowa.
- Bulletin. Wyoming Agricultural Experiment
Station. Laramie.
- Bulletin. Wyoming Game and Fish
Commission. Laramie.
- Bulletin. Wyoming Game and Fish
Department. Laramie.
- Biulleten' Nauchno-tekhicheskoi
Informatsii Dal'nevostochnogo
Nauchno-issledovatel'skogo
Instituta Sel'skogo Khoziaistva.
Khabarovsk.
- Biulleten' Nauchno-tekhicheskoi
Informatsii Iakutskogo
Nauchno-issledovatel'skogo
Instituta Sel'skogo Khoziaistva.

- Byull. nauchno-tekh. Inf.
nauchno-issled. Inst. sel'.
Khoz. Krain. Sev.
- Byull. nauchno-tekh. Inf. vses.
Inst. eksp. Vet.
- Byull. Zoopark. Zoosod.
C. r. hebd. Séanc. Acad. Sci.
- C. r. mens. Séanc. Cl. Sci. math.
nat. Acad. pol. Sci. Lett.
- C. r. Séanc. Soc. Biol.
- Calif. Agric.
Calif. Conserv.
Calif. Fish Game
Calif. Vet.
Calif. Wool Grow.
Can. Ent.
Can. geogr. J.
Can. J. comp. Med.
- Can. J. publ. Hlth.
Can. J. Res.
Can. J. Res., Sect. D.
- Can. J. Zool.
Can. med. Ass. J.
- Can. vet. J.
Cancer Res.
Capper's Fmr
Centaur
- Ceylon vet. J.
- Circ. Bur. Anim. Ind. U. S. Dep.
Agric.
- Circ. Bur. Biol. Surv. U. S. Dep.
Agric.
- Circ. U. S. Dep. Agric.
- Coastal Cattleman
- Biulleten' Nauchno-tekhnicheskoi
Informatsii Nauchno-issledovatel'skogo
Instituta Sel'skogo Khoziaistva
Krainego Severa.
- Biulleten' Nauchno-tekhnicheskoi
Informatsii Vsesoiuznyi Institut
Eksperimental'noi Veterinarii.
- Biulleten' Zooparkov i Zoosodov. Moskva.
Comptes Rendus Hebdomadaires de Séances
l'Académie des Sciences. Paris.
- Compte Rendu Mensuel des Séances de la
Classe des Sciences Mathématiques
et Naturelles. Académie Polonaise des
Sciences et des Lettres. Cracovie.
- Compte Rendu des Séances de la Société de
Biologie. Paris.
- California Agriculture. Berkeley.
California Conservationist.
California Fish and Game. Sacramento.
California Veterinarian. San Francisco.
California Wool Grower. San Francisco.
Canadian Entomologist. Guelp, Ont., etc.
Canadian Geographical Journal. Montreal.
Canadian Journal of Comparative Medicine
(and Veterinary Science). Quebec.
Canadian Journal of Public Health. Toronto.
Canadian Journal of Research. Ottawa.
Canadian Journal of Research. Section D.
Zoological Sciences. Ottawa.
Canadian Journal of Zoology. Ottawa.
Canadian Medical Association Journal.
Toronto.
Canadian Veterinary Journal. Ottawa.
Cancer Research. Baltimore.
Capper's Farmer. Topeka.
Centaur. Sydney University Veterinary
Society. Sydney.
Ceylon Veterinary Journal. Colombo,
Peradeniya.
Circular. Bureau of Animal Industry.
United States Department of
Agriculture.
Circular of Bureau of Biological Survey, U. S.
Department of Agriculture. Washington,
D. C.
Circular. United States Department of
Agriculture. Washington.
Coastal Cattleman.

- Coll. Soc. Path. exot.
 Colo. Conserv.
 Conf. (X) parasit. Prob. Dis.
 nat. Foci
 Conserv. Volunt.
 Cornell Univ. agric. Exp. Stn
 Cornell Vet.
 Cslkà. Parasit.
 Dal'n Vost.
 Dokl. Akad. Nauk SSSR
 Dokl. vses. Akad. sel'-khoz. Nauk
 Dt. ent. Z.
 Dt. Jagd Ausgabe
 Dt. tierärztl. Wschr.
 Ecol. Monogr.
 Eesti Loodus
 Ent. Ber., Amst.
 Ent. Mitt.
 Ent. News
 Ent. Obozr.
 Ent. Rev., Wash.
 Ent. Tidskr.
 Entomologica am.
 Entomologist's mon. Mag.
 Exp. molec. Path.
 Expl. Parasit.
 Ezheg. Tob. Gub. Muz.
 Ezheg. zool. Muz.
 Fauna SSSR
 Finsk VetTidskr.
 Fla. Cattleman Dairy J.
 Collection de la Société de Pathologie
 Exotique.
 Colorado Conservation. Denver.
 The Tenth Conference on Parasitological
 Problems and Diseases with Natural
 Foci. USSR. (Washington, D. C.)
 Conservation Volunteer. St. Paul, Minn.
 Cornell University Agricultural Experiment
 Station. Ithaca, N. Y.
 Cornell Veterinarian. Ithaca.
 Ceskoslovenská Parasitologie. Praha.
 Dal'nii Vostock. Vladivostock.
 Doklady Akademii Nauk SSSR. Moskva,
 Leningrad.
 Doklady Vsesoyuznoi Akademii
 Sel'sko-khozyaistvennykh Nauk
 im. V.I. Lenina.
 Deutsche Entomologische Zeitschrift. Berlin.
 Deutsche Jagd Ausgabe.
 Deutsche Tierärztliche Wochenschrift.
 Hanover.
 Ecological Monographs. Durham, N. C.
 Eesti Loodus. Tallinn.
 Entomologisch Berichten. Nederlandsche
 Entomologische Vereeniging. Amsterdam.
 Entomologische Mitteilungen.
 Berlin-Dahlem.
 Entomological News. Academy of Natural
 Sciences. Philadelphia.
 Entomologicheskoe Obozrenie. Moskva.
 Entomological Review. Washington. (English
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Izv. russk. geogr. Obshch.	Izvestiya Russkogo Geograficheskogo Obshchestva. S. Peterburg.
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J. Colo.-Wyo. Acad. Sci.	Journal of the Colorado-Wyoming Academy of Science. Boulder.
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 Sev. Krai
 Sev. Listok
 Sev. Olenev.
 Sever

 Sib. Vopr.
 Sib. Zhizn'
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Conservation Department. Madison.
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