A Bibliography of Fisheries Biology in North and South Dakota

1. Aadland, L. T. 1982
Artificial reefs as a fishery management tool to improve sport fishing in North Dakota reservoirs.

M. S. Thesis, N. Dak. State Univ. and also North Dakota Game and Fish Dept., Dingell-Johnson Div. Report No. A-1086

Evaluation of effects of artificial reefs made of tires and Christmas trees on fish and fishing in Jamestown Reservoir. Includes data on periphyton, crayfish, forage fish, food habits of fish, a creel census and limnological data.
Key words: Jamestown Reservoir, artificial reef

2. Aadland, L. 1987
Food habits, distribution, age and growth of chinook salmon, and predation on newly stocked chinook smolts in Lake Sakakawea, North Dakota.

Ph.D. Thesis, University of North Dakota

A study of predation on newly stocked chinook salmon smolts and food habits, depth distribution and dispersion of smolts. Includes food habits of all sizes and ages of chinook salmon in relation to smelt.
Key words: chinook salmon, food habits, rainbow smelt, predation

3. Aadland, L., G. Van Eeckhout and J. Peterka. 1983
Artificial reefs: New hope for old reservoirs.

North Dakota Outdoors. 45(10):22-23

Popular article based on Aadland MS thesis (1982).
Key words: Jamestown Reservoir, artificial reef

4. Abbott, G.A. 1925
A chemical investigation of the water of Devils Lake, North Dakota.

Proc. Ind. Acad. Sci. 34:181-184.

Historical description and experiments with fish as well as chemical analyses.
Key Words:Devils Lake, water chemistry, limnology

5. Ackerman, G., and M.S. Boussu. 1968
A floating trap net for use in reservoirs.

U.S. Fish & Wildl. Serv. Commercial Fish. Rev. 30(12):62-64.

Describes net used in Lake Oahe.
Key Words:sampling equipment, Oahe

6. Addison, W.D., and R.A. Ryder. 1970
An indexed bibliography of North American Stizostedion (Pisces, Percidae) species.

Research information paper (Fisheries) No. 38. Research Branch, Ontario Dept. of Lands and Forests.
Key Words: bibliography, Stizostedion

7. Ahokas, R.A. 1973
Salinity tolerance and osmoregulation in two species of euryhaline teleosts, Culeae inconstans (Kirtland), and Fundulus diaphanus (Lesueur).

Ph.D. Thesis, Univ. North Dakota.

Results of controlled physiological experiments at different salt concentrations in aquaria.
Key Words: stickleback, banded killifish, osmoregulation

8. Albin, R. 1965
Rate of colonization by periphyton algae on artificial substrate as compared to the natural population.

M.A. Thesis, Univ. of South Dakota

Key Words: algae, periphyton

9. Alex, L.M.
An analysis of fish utilization at four Middle Missouri sites.

M.A. Thesis, Univ. of Wisconsin, Madison

Archeological study of excavated sites in South Dakota.

Key Words:native fishing, history

10. Allen, D.B. 1986
Stocking density, strain preference, and feeding method evaluation of cage reared rainbow trout (Salmo gairdneri) in eastern South Dakota.

M.S. Thesis, South Dakota State University

Key Words:rainbow trout, stocking, feeding method, cage culture

11. Allum, M.O., and E.J. Hugghins. 1959
Epizootics of fish lice Argulus biramosus, in two lakes of eastern South Dakota.

Jour. Parasit. 45(4-sect.2):33 (Abstract 58).
Key Words:fish lice, Argulus

12. Anderson, C.P., J.E. Erickson, J. Ross and J.C. Underhill. 1977
Revised distribution records of some Minnesota fishes. Proc. Minn. Acad. Sci. 43(2):3-6.

Good information on Red River tributaries in Minnesota.
Key Words: Minnesota, Red River, fishes

13. Anderson, D. 1982
Turmoil in Lake Darling.

North Dakota Outdoors 44(11): 8-10.

Popular article about management of northern pike, walleye and smallmouth bass fishery in Lake Darling.
Key Words:Lake Darling, management, northern pike, walleye, smallmouth bass

14. Anderson, D.W. 1966
A study of the productivity and plankton of Devils Lake, North Dakota.

M.S. Thesis, University of North Dakota.

Limnological study in 1965 and 1966 on primary productivity, plankton and water chemistry.
Key Words:Devils Lake, limnology, plankton

15. Anderson, D.W. 1969
Factors affecting phytoplankton development and autotrophism in a highly mineralized, holomictic northern prairie lake.

Ph.D. Thesis, University of North Dakota.

Study of primary productivity, bottom fauna, plankton and water chemistry in Devils Lake.
Key Words:Devils Lake, limnology, plankton, benthos

16. Anderson, D.W. 1969
Factors affecting phytoplankton development and autotrophism in a highly mineralized holomictic northern prairie lake.

N.D. Water Resources Research Inst. Research Project Technical Completion Report WI-341-004-69.

Same as Ph.D. thesis above.
Key Words:Devils Lake, limnology

17. Anderson, D. W., and R. Armstrong. 1966

Zooplankton-phytoplankton relationships in Devils Lake, North Dakota.

Proc. N. Dak. Acad. Sci. 20:158-168.

Study based on plankton samples collected every two weeks during ice free season and monthly under ice cover.
Key Words:Devils Lake, plankton, limnology

18. Anderson, D.W., and D.W. Larson 1968
A bottom-type emergence trap for rough water conditions.

Limnol. Oceanogr. 13(1):181-182.

Trap rests on the bottom and consists of a funnel leading into an inverted jar with an air bubble to catch emerging chironomidae.
Key Words:sampling equipment, benthos

19. Anderson, R.S., C.J. Schwindel and J.A. Leitch 1986
Regional economic impact of the Devils Lake fishery.

Fisheries 11(5):14-17

Economic study of dollar value of Devils Lake fishery
Key Words:Devils Lake, economic value, fishery

20. Anon. 1983
Oahe tagged walleyes.

North Dakota Outdoors 45(10):8.

Describes Carlin Disc Dangler fish tag used in South Dakota that might be recovered below Garrison Dam.
Key Words: Oahe, fish marking, walleye

21. Applegate, R.L. 1971
Eutrophication of the eastern South Dakota Lake district.

pp. 19-24 in South Dakota Environment: its pollution and preservation. S. Dakota State Univ. Publ.
Key Words: eutrophication

22. Applegate, R.L. 1973
Corixidae (water boatmen) of the South Dakota Glacial Lake District.

Entomol. News 84:163-170.
Key Words: corixidae

23. Applegate, R.L. 1978
Muskies.

South Dakota Farm and Home Research 30(1):11-13.
Key Words: muskellunge

24. Applegate, R.L. 1981
Food selection of muskellunge fry.

Prog. Fish. Cult. 42:136-139.
Key Words: muskellunge, food

25. Applegate, R.L. 1983
Bidens achenes cause mortality in young muskellunge and walleyes.

Prog. Fish. Cult. 45(2):107.

Bidens is the common "beggar-tick."
Key Words: muskellunge, walleye, Bidens

26. Applegate, R.L., and R.A. Fike 1979
Winter limnological conditions in a prairie pothole lake and the application of molecular oxygen.

Completion Report, Project A-059-S DAK Water Resources Inst., S.D. State Univ., Brookings.
Key Words: limnology, aeration, pothole lakes

27. Applegate, R.L., A.C. Fox, and V.J. Starostka 1968
A water core plankton sampler.

Jour. Fish. Res. Board Canada 25:1741-1742.

New plankton sampler made from section of irrigation pipe and plankton net attached.
Key Words:sampling equipment, plankton

28. Applegate, R.L., and R.W. Kieckhefer 1977
Ecology of Corixidae (water boatmen) in Lake Poinsett, South Dakota.

Amer. Midland Naturalist 97(1):198-208.

Study includes discussion of importance of corixids as fish food in Lake Poinsett.
Key Words:Lake Poinsett, corixidae

29. Applegate, R.L., and W.L. Kruckenberg. 1980
First-year growth and food of largemouth bass in a South Dakota barrow pit stocked with fathead minnows.

Prog. Fish. Cult. 40:7-8.

Food of young-of-the-year bass did not include minnows until late in summer. Gives growth of bass by months.
Key Words:largemouth bass, fathead minnow, food, growth

30. Applegate, R.L., A.J. Repsys and J.B. Smith 1973
Dissolved organic matter, seston, and zooplankton cycles in Lake Poinsett, South Dakota.

Proc. S. Dak. Acad. Sci. 52:28-46.

Organic matter, seston, and zooplankton cycle described from January 1968 through November 1968. Lake Poinsett is a large natural lake in eastern South Dakota. Effects on feeding of young-of-the-year fish discussed.
Key Words:Lake Poinsett, zooplankton, limnology

31. Armstrong, R. 1965
Uptake of glycine and phenylalanine by some fresh water invertebrates.

M.S. Thesis, University of North Dakota.

Uptake of glycine from Devils Lake water and English Coulee water by Tubifex and Chironomus at different salinities by C14 methods.
Key Words: invertebrates, Devils Lake

32. Armstrong, R., D.W. Anderson and E. Callender. 1967
Primary productivity measurements at Devils Lake, North Dakota.

Proc. N. Dak. Acad. Sci. 20:136-149.

Part of an extensive limnological study in the 1960's when the lake was at a low level without a permanent fish population. Includes production by higher plants, littoral algae, planktonic algae and chemical studies.
Key Words:Devils Lake, limnology, primary productivity

33. Armstrong, R., and R.A. Tubb. 1967
Uptake of glycine and phenylalanine by some fresh water invertebrates.

Proc. N. Dak. Acad. Sci. 21:103-111.

Inconclusive laboratory experiments on Tubifex and Chironomus.
Key Words: invertebrates, Devils Lake

34. Aronow, S. 1957
On the postglacial history of the Devils Lake region.

N. Dak. Jour. Geol. 65:410-427.
Key Words:Devils Lake, geology

35. Asafo, C.K. 1970
Food, age and growth of the yellow perch, Perca flavescens (Mitchill), in Oahe Reservoir, South Dakota.

M.S. Thesis, Iowa State University
Key Words:yellow perch, age and growth, Oahe

36. Atkinson, T.R. 1912
Proposed diversion of Mouse River to Devils Lake

Fifth Biennial Report, State Engineer 1911-1912, pp. 20-22.

First proposed "Garrison Diversion."
Key Words:Devils Lake, Garrison Diversion

37. Atton, F.M. 1959
The invasion of Manitoba and Saskatchewan by carp.

Trans. Amer. Fish. Soc. 88(3):203-205.

"The history of carp introduction and establishment in the Nelson River drainage is reviewed. Present distribution (1957) and possible points of invasion are shown. The rate of movement is examined and the importance of infertile and cold water as an ecological barrier is suggested."
Key Words: carp, Manitoba, Saskatchewan, distribution

38. Atton, R.M., and R.P. Johnson 1955
First records of eight species of fishes in Saskatchewan.

Can.Field Naturalist 69:82-84.

Includes golden shiner, common shiner and blackside darter in the Souris River in Saskatchewan.
Key Words: Saskatchewan, fishes

39. Audubon, M.R. 1897
Audubon and his journals. Vols. I and II. The Missouri River Journals - 1843.

Charles Scribner and Sons Publication, New York. pp. 447-537 (Vol. I) and pp. 1-95 (Vol. II).
Key Words: history

40. Babcock, E.J. 1903
Water resources of the Devils Lake region.

N. Dak. Geol. Survey, Second Biennial Report.

Key Words:Devils Lake

41. Bach, R.N., and R.W. Stuart 1946
Missouri River Basin Studies, Oahe and Garrison Reservoir.

North Dakota Game and Fish Dept., Bismarck.
Key Words:environmental impact, Oahe, Garrison Reservoir, Sakakawea

42. Backhaus, T. 1988
The tracking of fish 1080.

North Dakota Outdoors 51(1):2.

Popular article describing a walleye sonic tagging and movement study in Jamestown Reservoir and capture of a walleye in the reservoir in May 1987 with a sonic tag in its abdomen implanted in May 1981.
Key Words:Jamestown Reservoir, sonic tag, fish marking

43. Bailey, R.M. 1954
Distribution of the American cyprinid fish Hybognathus hankinsoni with comments on its original description.

Copeia 1954(4):289-291.

Clarification of description, and description and distribution of the brassy minnow, which occurs in the Missouri River and Red River drainages in North Dakota.
Key Words:brassy minnow, Missouri River, Red River

44. Bailey, R.M. 1959
Distribution of the American cyprinid fish, Notropis anogenus.

Copeia 1959(2):119-123.

Cites specimens collected in Sheyenne River near Lisbon, N.D., by Woolman in 1892.
Key Words:Sheyenne River, pugnose shiner

45. Bailey, R.M. 1959
Parasitic lampreys (Ichthyomyzon) from the Missouri River, Missouri and South Dakota.

Copeia 1959(2):162-163.

Ichthyomyzon unicuspis, Hubbs and Trautman, was collected in the Missouri River at Vermillion, South Dakota, in 1925 by Hugener.
Key Words: lamprey, Missouri River, parasite

46. Bailey, R.M., and M.O. Allum 1962

Fishes of South Dakota.

Misc. Publ. Mus. of Zool. Univ. of Michigan.

Thorough annotated list of collections of South Dakota fishes, includes zoogeography and discussion on hybridization, intergradation, synonomy, etc.
Key Words: fishes, South Dakota

47. Bailey, R.M., and F.B. Cross 1954
River sturgeons of the American genus Scaphirhynchus: characters, distribution, and synonymy.

Mich. Acad. of Sciences, Arts and Letters 39:169-208.

Includes taxonomy and distribution in the Missouri River system of shovelnose and pallid sturgeon.
Key Words:Missouri River, pallid sturgeon, shovelnose sturgeon

48. Baldwin, K. and J. Hey 1972
Aquatic ecology study (preoperational survey) of the Missouri River near the George Neal Station, Sioux City, Iowa, July 1971-June 1972.

Iowa Public Service Company, Sioux City, Iowa.
Key Words:aquatic ecology, power plant

49. Baldwin, K., and J. Hey 1973
Aquatic ecology study of the Missouri River near the George Neal station, Sioux City, Iowa, July 1972-May 1973.

Iowa Public Service Company, Sioux City, Iowa.
Key Words:aquatic ecology, power plant

50. Banek, T. J. 1983
Feeding habits of rainbow smelt (Osmerus mordax) from Lake Oahe, South Dakota.

M.A. Thesis, Univ. of South Dakota.

Data from stomach samples.
Key Words:rainbow smelt, food habits

51. Banek, T.J., and J.C. Schmulbach 1984
Feeding habits of rainbow smelt (Osmerus mordax) in Lake Oahe, South Dakota.

Proc. S. Dak. Acad. Sci. 63:120 (abstract).

Smelt were selective planktivores and took young-of-the-year smelt also.
Key Words:rainbow smelt, Oahe, food habits

52. Bangham, R.V. 1951
Parasites of fish in the Upper Snake drainage and in Yellowstone Lake, Wyoming.

Zoologica 36(3):213-217.

Results of parasite study of fishes in Jackson Hole area and Yellowstone Lake, Wyoming, 1950. Parasites of the Rocky Mountain whitefish, cutthroat trout, mountain sucker, rosyside sucker, longnose sucker, longnose dace, Bonneville Spring dace, Utah chub, Silverside minnow and Rocky Mountain bullhead are reported.
Key Words: parasite, Yellowstone Lake

53. Barica, J. 1974
Extreme fluctuations in water quality of fish kill lakes: effect of sediment mixing.

Water Research 8:881-888.
Key Words:water quality, sedimentation, fish kill

54. Barkoh, A. 1984
Food selectivity of bluegill and green sunfish fry.

M.S. Thesis, South Dakota State University

Zooplankton and cladoceran egg cases were fed to green sunfish and bluegills for the first 31 and 30 days after hatching to examine food selectivity. The guts were then examined for food selected.
Key Words: food, bluegill, green sunfish, fry, zooplankton

55. Barkoh, A., and T. Modde 1987
Feeding behavior of intensively cultured bluegill fry.

Prog. Fish. Cult. 49:204-207.

Results of experiments feeding zooplankton to bluegill in tanks for 30 days. Guts were examined for contents and length of fish reported.
Key Words: bluegill, food habits

56. Barrett, W.W. 1900
Fish culture in North Dakota.

Trans. Amer. Fish. Soc. 1899:62-64.
Key Words:fish culture

57. Barton, J.R. 1972
Bibliography on the physical alteration of the aquatic habitat (channelization) and stream improvement.

Brigham Young Univ., Provo, Utah.

Contains 450 references from 1800's to 1972.
Key Words: bibliography, channelization, stream improvement

58. Batema, D.L. 1979
Aquatic invertebrates and water chemistry of strip-mine ponds in western North Dakota.

M.S. Thesis, University of North Dakota.

Limnological study included water chemistry and a broad range of invertebrates in small strip-mine ponds.
Key Words: limnology, water chemistry, invertebrates, pond

59. Bauer, D.L. 1988
The effect of grass carp introduction on aquatic vegetation and existing fish populations in two small prairie lakes.

M.S. Thesis, South Dakota State University
Key Words:grass carp

60. Baxter, G.T., and J.R. Simon 1970970 1970
Wyoming fishes.

Wyoming Game & Fish Dept. Bull. No. 4 (revised, 1970). 168 pp.

Gives distribution of fishes in subbasins of the Missouri River drainage in Wyoming upstream from North Dakota.
Key Words: Wyoming, fishes

61. Beal, C.D. 1967 1967
Life history information on the blue sucker, Cycleptus elongatus (LeSueur), in the Missouri River.

M.A. Thesis, Univ. of South Dakota.

Length-weight, condition, sexual dimorphism, fecundity, sex ratios and reproduction of blue suckers from tailwaters of Gavins Point Dam, from the Missouri River upstream from Lewis and Clark Reservoir and from the James River, South Dakota from 1966 to 1967.
Key Words:blue sucker, Missouri River, life history

62. Beck, R.D. 1985
Growth, survival and reproductive success of largemouth bass stocked with select forage fishes in South Dakota ponds.

M.S. Thesis, South Dakota State University
Key Words:largemouth bass, growth, survival, reproduction, pond

63. Beckman, L.G. 1969
Distribution and relative abundance of juvenile fishes in Lakes Oahe and Sharpe, South Dakota.

Proc. S. Dak. Acad. Sci. 48:197
Key Words: Oahe, Lake Sharpe, juvenile fish

64. Beckman, L.G. 1987
Relative abundance and distribution of young-of-the-year fishes and minnows in Lake Sharpe, South Dakota, 1967-1975.

pp. 30-45 in Limnological and fishery studies on Lake Sharpe, a main-stem Missouri River reservoir, 1964-1975. U.S. Fish & Wildl. Serv., Tech. Rept. 8.
Results of weekly or biweekly catches with a bag-seine or trawl in summer from 1967-1975.
Key Words:young-of-the-year, Lake Sharpe

65. Beckman, L.G., and J.H. Elrod 1971
Apparent abundance and distribution of young-of-the-year fishes in Lake Oahe, 1965-1969.

in G.E. Hall(ed.), Reservoir Fishery and Limnology, Amer. Fish. Soc., Spec. Publ. No. 8, pp. 333-347.

Data on young-of-the-year of 32 species in Lake Oahe.
Key Words:young-of-the-year, Oahe

66. Beckman, W.C., and J.H. Kutkuhn 1953
A partial bibliography on reservoirs.

Prog. Fish. Cult. 15(3):135-144.

Contains 219 references to fisheries in reservoirs including several North and South Dakota citations.
Key Words: bibliography, reservoir

67. Beebe, J., and C. O'Neil 1970
A survey of helminth burdens from four species of fish from South Dakota.

Proc. S. Dak. Acad. Sci. 49:175.
Key Words: parasite

68. Beem, M.D. no date
Building cages for fish farming.

Cooperative Ext. Serv., S. Dak. State University, Brookings, SD, 57007.
Key Words:fish farming, cage culture

69. Beem, M.D. no date
Fish farming?

Cooperative Ext. Serv., S. Dak. State University, Brookings, SD, 57007.
Key Words:fish farming

70. Bell, T.N. 1960
Algal flora of the Gavins Point Reservoir.

M.S. Thesis, Univ. of South Dakota.

From 13 collecting trips made in Gavins Point Reservoir (Lewis and Clark Reservoir) in 1959 and 1960.
Key Words: algae, Lewis and Clark Reservoir, Gavins Point Reservoir

71. Bell, T.N. 1961
Algal flora of the Gavins Point Reservoir.

Proc. S. Dak. Acad. Sci. 40:125-131.
Key Words: algae, Gavins Point Reservoir, Lewis and Clark Reservoir

72. Benda, R.S., K. Clodfelter and R. Koth 1979
Survey for rainbow smelt, Osmerus mordax, in Lake Audubon, Coleharbor, North Dakota, 1979.

Coop. Fish. Res. Unit, S. Dak. State Univ., Brookings. 26 pp. mimeo.

Smelt were caught in a small mesh gillnet, seine and trawl.
Key Words:Lake Audubon, rainbow smelt

73. Benda, R.S., R.J. Krska, and J.R. Wahl 1981
Growth rates of seven species of fish in the upper James River, South Dakota.

Proc. S. Dak. Acad. Sci. 60:83-91.

Data on northern pike, goldeye, walleyes, largemouth bass, yellow perch, green sunfish and white crappies were given.
Key Words:James River, growth

74. Benda, R.S., J.R. Wahl and R.J. Krska 1980
Survey for gizzard shad(Dorosoma cepedianum) in the upper James River, South Dakota.

Project Completion Report to the Water and Power Resources Service, Bismarck, ND.
Key Words:gizzard shad, James River

75. Benfield, E.F., and J.R. Webster (eds.) 1978
Current perspectives of river-reservoir ecosystems.

N. Amer. Benthological Soc., Publ. 1, Blacksburg, Virginia, USA.
Key words: reservoir

76. Benson, N.G. 1968
Review of fishery studies on Missouri River mainstem reservoirs.

Research Report No. 71. U.S. Dept. of Interior. FWS series.

"The six mainstem Missouri River Reservoirs are described, and information available through 1964 on plankton, water chemistry, fish populations and water management is discussed....." (author)
Key Words:Missouri River, reservoir, fishes, limnology

77. Benson, N.G. 1973
Evaluating the effects of discharge rates, water levels, and peaking on fish populations in Missouri River main stem impoundments.

pp. 683-689 in Man Made Lakes: Their Problems and Environmental Effects. W.C. Ackerman, G.F. White, and E.B. Worthington, (eds.) Geophys. Monograph Series, Vol 17. Am. Geophys. Union,Washington, D.C.
Key Words:water elevation, water level control, Missouri River

78. Benson, N.G. 1976
Water management and fish production in Missouri River main stem reservoirs.

pp. 141-147 in Instream Flow Needs, Vol 2. J.F. Orsborn, and C.H. Allman, (eds.) Amer. Fish. Soc., Washington, D.C.
Key Words:water level control

79. Benson, N.G. 1980
Effects of post-impoundment shore modifications on fish populations in Missouri River reservoirs.

Fish and Wildlife Service Research Report No. 80.

Describes shoreline modifications in Fort Peck, Sakakawea, Oahe, Sharpe, Francis Case and Lewis and Clark Reservoirs and effects on fishes. Points out that fish population data collected before reservoir shores have reached a reasonable degree of stability do not provide a reliable estimate of the ultimate species composition.
Key Words:shore modification, Missouri River, reservoir

80. Benson, N.G. 1982

Some observations on the ecology and fish management of reservoirs in the United States.

Can. Water Res. Jour. 7:1-25.
Key Words: reservoir, fisheries management

81. Benson, N.G., ed. 1988
The Missouri River, The Resources, Their Uses and Values.

North Central Division, Amer. Fish. Soc. Spec. Publ. No. 8.

A symposium of ten papers.
Key Words:Missouri River, development, economics

82. Benson, N.G., and B.C. Cowell 1967
The environment and plankton density in Missouri River reservoirs.

in Reservoir Fishery Resources Symposium, Southern Div., Amer. Fish. Soc., Athens, GA.

Fort Peck, Garrison, Oahe, Big Bend, Fort Randall and Gavins Point Reservoirs described in terms of morphometry, chemistry, water exchange rate, temperature, turbidity and plankton.
Key Words:Missouri River, plankton, reservoir

83. Benson, N.G., and P.L. Hudson 1975
Effects of a reduced Fall drawdown on benthos abundance in Lake Francis Case.

Trans. Amer. Fish. Soc. 104(3):526-528.

Numbers of benthic organisms in May increased more than threefold during years of reduced drawdown, abundance in September did not increase.
Key Words:Lake Francis Case, benthos, drawdown

84. Berard, E.E. 1979
Fish introductions into Lake Sakakawea and Missouri River mainstem system.

North Dakota Outdoors 41(12):4-6.

Historical summary of fish introductions; includes the crustaceans Mysis relicta and Pontoporeia affinis.
Key Words:Missouri River, reservoir, Sakakawea, introduction

85. Berg, L.N. 1989
Evaluation of a power plant reservoir as a fingerling walleye rearing facility.

M.S. Thesis, South Dakota State University.

At Big Stone power plant.
Key Words:Big Stone, walleye, rearing

86. Berner, L.W. 1951
Limnology of the lower Missouri River.

Ecology 32(1):1-12.

Limnology of the Missouri River in the state of Missouri waters.
Key Words:Missouri River, limnology

87. Berry, C.R., Jr. 1987
Aquaculture at a steam electric generating plant: A summary of 10 years of study.

pp. 161-178 in Proceedings Waste Management for the Energy Industries. N. Dak. Mining and Mineral Resources Research Institute, Univ. of N. Dak.

Summary of a number of studies on various fishes in a heated reservoir at Big Stone Power Plant in eastern South Dakota.
Key Words: aquaculture, Big Stone, heated effluent

88. Berry, C.R., and A. Valdes-Gonzalez 1980
Eggs and early larval development of the Utah chub.

Report for the U.S. Water and Power Resources Service, Bismarck, N.D. Mimeo. 55 pp.
Key Words:Utah chub, development, eggs

89. Berry, C.R., Jr., C. Waltner, and J.D. Wolters 1989
Studying glacial lake walleyes.

S. Dak. Conservation Digest 56(2):17-19.

Popular article on genetics of Blue Dog Lake walleyes with deformed or missing fins.
Key Words:Blue Dog Lake, walleye, genetics

90. Bettross, E.A. 1989
Evaluation of the Big Stone power plant cooling reservoir as a source of largemouth bass and bluegill broodstock.

M.S. Thesis, South Dakota State University.
Key Words:Big Stone, largemouth bass, bluegill, reproduction

91. Bettross, E.A. and D.W. Willis 1988
Seasonal patterns in sampling data for largemouth bass and bluegills in a northern Great Plains impoundment.

The Prairie Naturalist 20(4):193-202.
Sampling effectiveness of electrofishing and trap netting, May to September, 1987, measured in terms of catch-per-unit of effort and proportional stock density in Big Stone power plant cooling pond.
Key Words:sampling equipment, electrofishing, Big Stone, largemouth bass, bluegill

92. Bich, J.P., and C.G. Scalet 1977
Fishes of the Little Missouri River, South Dakota.

Proc. S. Dak. Acad. Sci. 56:163-177.

A study May-July, 1976, to determine distribution and relative abundance of fish species in the South Dakota portion of the Little Missouri River. Twenty-two species were collected, including northern pike, golden shiner, largemouth bass and Iowa darter, new to the Little Missouri River, and sturgeon chub, green sunfish and sauger, new records for the river in South Dakota.
Key Words:Little Missouri River, fishes

93. Bihrle, C., and P. Hedrick 1987
Zander project setback.

North Dakota Outdoors 49(10):9.

Ten thousand zander fry destroyed after possibility of disease virus discovered.
Key Words: zander

94. Biology Committee 1976
Biology Committee Report, Appendix C.

International Garrison Diversion Study Board Report to the International Joint Commission, 392 pp.

Committee report to International Joint Commission on environmental effects of the Garrison Diversion Unit.
Key Words:Garrison Diversion, environmental impact, interbasin transfer

95. Bishop, S.C. 1912
Handbook of Salamanders.

Cornell Univ. Press.

Describes Devils Lake, N.D., as type locality of Ambystoma tigrinum diaboli.
Key Words:Devils Lake, salamander

96. Blinn, D.W. 1972
Seasonal notes on plankton algae of East Stump Lake, North Dakota.

The Prairie Naturalist 4(1):17-21.

Results of a study made in 1971.
Key Words:Devils Lake, Stump Lake, plankton

97. Bliss, Q.P. 1977
Fish larvae entrainment and distribution.

pp. 209-225 in The evaluation of thermal effects in the Missouri River near Cooper Nuclear Station (Operational Phase) January-December, 1976. (Project No. 5501-07666) Report by NALCO Environmental Sciences for Nebraska Public Power District, Columbus, NE.
Key Words:fish larvae, entrainment, heated effluent

98. Bliss, Q.P. 1977
Fish larvae entrainment and distribution study.

pp. 75-95 in S.R. Carter, (ed.), Missouri River monitoring: fisheries and drift population effects of the Fort Calhoun Station. NALCO Environmental Series, Bulletin 2, Omaha Public Power District, Omaha, NE.
Key Words: entrainment, heated effluent

99. Blouin, E.F., A.D. Johnson, D.G. Dunlap and D.K. Spiefel 1984
Prevalence of black spot (Neascus pyriformis tremotoda: Diplostomatidae) of fishes in Brule Creek, South Dakota.

Proc. Helminthol. Soc. Wash. 51(2):357-359.
Key Words: parasite, black spot

100. Boehmer, R.J. 1973
Ages, lengths and weights of paddlefish caught in Gavin's Point Dam tailwaters, Nebraska.

Proc. S. Dak. Acad. Sci. 52:140-146.

Method of aging and age and growth of 57 paddlefish caught in 1972 and 1973.
Key Words: paddlefish, age and growth, Gavins Point Dam

101. Boehmer, R.J., L. Mutchler and Sr. M. Diggins 1975
Benthic macroinvertebrates of Lake Yankton, South Dakota.

Proc. S. Dak. Acad. Sci. 54:229-237.

Bottom fauna study in a lake in the Missouri River flood plain immediately downstream from Gavins Point Dam, South Dakota.
Key Words:Lake Dakota, Missouri River, benthos

102. Bondurant, D.C., and R.H. Livesey 1967
Operational problems associated with a basin reservoir system.

pp. 47-55 in Reservoir Committee of the Southern Division, Reservoir Fisheries Resources Symposium, Amer. Fish. Soc., Washington, D.C.

The operation of the Missouri River reservoir system is described.
Key Words:Missouri basin, reservoir, management

103. Boreman, J. 1977
Impacts of power plant intake velocities on fish.

U.S. Fish & Wildl. Serv. FWS/OBS-76/20.1.
Key Words: entrainment

104. Bothroyd, P.N. 1978
Review of carp distribution in the Souris River.

Environment Canada, Winnipeg, Manitoba. Mimeo. Report, 7 pp.
Key Words: distribution, Souris River, carp

105. Boussu, M.F. 1955
Experimental alteration of a panfish population by netting.

Dingell-Johnson Report 55-1, F-1-R-4 Job 1. S. Dak. Dept. of Game, Fish and Parks.
Key Words: panfish, fish control

106. Bradwisch, W.A. 1968
Effects of intensive black bullhead, Ictalurus melas, removal from selected eastern South Dakota lakes, 1968.

Dingell-Johnson Report 68-12 4-29-R-2 S. Dak. Dept. of Game, Fish and Parks.
Key Words:black bullhead, fish control

107. Bradwisch, W.A. 1969
Effects of intensive black bullhead, Ictalurus melas, removal from selected eastern South Dakota lakes.

Bureau of Comm. Fish. Proj. 4-29-R. Completion Report. S. Dak. Dept. of Game, Fish and Parks.
Key Words:black bullhead, fish control

108. Bragg, T.B., and A.K. Tatschl 1977
Changes in floodplain vegetation and land use along the Missouri River from

1826 to 1972.

Environ. Management 1(4):343-348.
Key Words:flood plain vegetation

109. Brandt, R.L. 1978
Fungal control methods, diet and water temperatures used to culture paddlefish, Polyodon spathula.

M.S. Thesis South Dakota State University.

Development of hatchery technology.
Key Words: paddlefish, fish culture

110. Brannon, M.A. 1910
First annual report of the Biological Station to the Governor of North Dakota for the seasons 1909-1910.

Pub. Doc. 33, Bismarck, N.D. 1910:1-29.

Annual report of University of North Dakota Biological Station at Devils Lake.
Key Words:Devils Lake

111. Brannon, M.A. 1911
Factors influencing the flora of Devils Lake, North Dakota.
Int. Rev. Geol. Hydrobiol. 4:291-299.
Key Words:Devils Lake, flora

112. Brannon, M.A. 1912
Second and third annual reports of the Biological Station to the Governor of North Dakota.

Publ. Doc. 35, Fargo, N.Dak. 1912:1-36.

Limnology and fishes in the Missouri River and Devils Lake, Sweetwater Lake, and Garber, Jarvis, Carpenter and Big Spring Lakes, N.D.
Key Words:Devils Lake, limnology, fishes

113. Branson, B.A. 1966
Histological observations on the sturgeon chub, Hybopsis gelida (Cyprinidae).

Copeia 1966(4):872-876.
Key Words:sturgeon chub

114. Brashier, C.K., C.L. Churchill and G.L. Leidahl 1973
Effects of silt and silt removal in a prairie lake.

U.S. Environmental Protection Agency Rept.
EPA-R3-73-037.
Key words: sedimentation, limnology

115. Brown, C.J.D. 1951
The paddlefish in Fort Peck Reservoir, Montana.

Copeia 1951 (3):252.

Now abundant in upper end of Fort Peck Reservoir. There is no authentic record of paddlefish in Montana before 1946.
Key Words:paddlefish, Fort Peck Reservoir

116. Brown, C.J.D. 1955
A record size pallid sturgeon, Scaphirhynchus albus, from Montana.

Copeia 1955(1):55.

The pallid sturgeon was caught in the Missouri River near the mouth of the Tongue River. It weighed 38 pounds and was 66 inches long.
Key Words:pallid sturgeon, Missouri River, Tongue River

117. Brown, C.J.D. 1962
A preliminary list of Montana fishes

Proc. Montana Acad. Sci. 22:21-26.

Gives basins where species found. Says this is the first statewide list for Montana since Henshall, 1906.
Key Words: Montana, fishes

118. Brown, C.J.D. 1968
Bibliography of Montana fishes.

Proc. Montana Acad. Sci. 28:85-95.

Contains 108 citations of published papers on Montana fishes, no typewritten or mineographed reports; no Dingell-Johnson reports.
Key Words: bibliography, Montana, fishes

119. Brown, C.J.D. 1971
Fishes of Montana.

Big Sky Books, Montana State Univ., Bozeman, Mont.

Gives distribution of Montana fishes by river basins and stations upstream from North Dakota. Includes keys, descriptions, life histories and illustrations.
Key Words: fishes, Montana

120. Brown, C.J.D., and B.J. Graham 1953
Observations on the longnose sucker in Yellowstone Lake.

Trans. Amer. Fish. Soc. 83:38-46.

Includes food habits, spawning, age and growth and distribution.
Key Words:longnose sucker, Yellowstone Lake

121. Brown, C.J.D., and R.A. Hayes 1950
Age and growth of certain fishes from Ft. Peck Reservoir.

Unpubl. ms., Montana State College, Bozeman, Mont.
Key Words:Fort Peck Reservoir, age and growth

122. Brown, W. 1930
The food of the suckers of South Dakota.

M.S. Thesis, South Dakota State University.
Key Words: food, suckers

123. Bry, E. 1964
Fish in early days.

North Dakota Outdoors 27(2):14

Short popular historical account of early hatcheries and management.
Key Words:fishery management, hatchery

124. Bry, E. 1972
The Crown Butte Story.

North Dakota Outdoors 34(12):2-4.

Popular description and history of fishery management of the Crown Butte Reservoir.
Key Words:Crown Butte, fisheries, fishery management

125. Bry, E. 1972
North Lemmon Lake.

North Dakota Outdoors 35(1):22-25.

Popular description and history of fishery management of North Lemmon Lake.
Key Words:North Lemmon Lake, fisheries

126. Bry, E. 1980
The story of chinook salmon in North Dakota.

North Dakota Outdoors 43(5):2-5.

Popular historical account, 1976-1980.
Key Words: Sakakawea, chinook salmon

127. Bry, E. 1981
Salmon run disappointing.

North Dakota Outdoors 44(5):20.

Cites state record of 23 1/2 lbs for a chinook taken in 1981.
Key Words: Sakakawea, chinook salmon

128. Buck, H. 1956
Effects of turbidity on fish and fishing.

Trans. Twenty-first N. Amer. Wildlife Conf. 21:249-261.
Key Words: turbidity

129. Bryce, D. 1924
The rotifers and gastrotrichia of Devils and Stump Lakes, North Dakota.

Jour. Quekett Micro. Club, London, 81-108.

Sixty-four species of Rotifera and Gasterotricha from this area described. Has a useful bibliography and description and history of the work of the former Biological Station.
Key Words:Devils Lake, rotifera, gastrotricha, limnology, Stump Lake

130. Buchli, G.L. 1969
Distribution, food and life history of tiger salamanders in Devils Lake, North Dakota.

M.S. Thesis, Univ. of North Dakota.

Study of all phases of life history, includes parasites of Devils Lake salamanders.
Key Words:Devils Lake, salamander

131. Buchli, G.L. 1969
Distribution, food and life history of tiger salamanders in Devils Lake, North Dakota.

N. Dak. Water Resources Research Inst., Research Project Tech. Completion Report WI-341-005-69.
(Same as MS Thesis, UND)
Key Words:Devils Lake, salamander

132. Burczynski, J.J., G. Marrone and P. Michaletz 1986
Hydroacoustic assessment of the abundance and distribution of rainbow smelt in Lake Oahe.

S. Dak. Dept. of Game, Fish and Parks, Pierre, S.Dak. 26 pp.
Key Words:rainbow smelt, Oahe

133. Burczynski, J.J., P.H. Michaletz and G.M. Marrone 1987
Hydroacoustic assessment of the abundance and distribution of rainbow smelt in Lake Oahe.

N. Amer. Jour. of Fishery Management 7(1):106-116.

Report of hydroacoustic assessment of smelt by dual-beam processing and echo integration techniques in 1983-1985. Numerical estimates were obtained with confidence limits. Distribution of smelt was temperature limited.
Key Words:rainbow smelt, Oahe

134. Burgess, R.L., W.C. Johnson, and W.R. Keammerer 1973
Vegetation of the Missouri River floodplain in North Dakota.

Technical Completion Report, Office of Water Resources Research Project No. A-022-NDAK.
Key Words:flood plain vegetation

135. Burnham, B.L., and J.J. Peterka 1975
Effects of saline water from North Dakota lakes on survival of fathead minnow (Pimephales promelas) embryos and sac fry.
Jour. Fish. Res. Board Canada 32(6): 809-812.

Results of laboratory experiments of the effects of various dilutions of water from North Lake George, South Lake George, North Alkaline Lake and Kelly's slough on fathead minnows.
Key Words: salinity, fathead minnow, osmoregulation

136. Burress, R.M. and D.A. Kreiger 1982
Aquatic biota of bank stabilization on the Missouri River.

U.S. Army Corps of Engineers, Tech. Rept. E-82-6.
Key Words:bank stabilization, Missouri River

137. Burroughs, R.D. 1961
The natural history of the Lewis and Clark Expedition.

Mich. State Univ. Press, East Lansing, Mich. xii + 340 pp.
Key Words: history

138. Busiahn, T.R. 1977

Food, growth, and reproduction of white crappies, (Pomoxis annularis) and black crappies (P. nigromaculatus) in Lake Poinsett, South Dakota.

M.S. Thesis, South Dakota State University.

Food habits and age and growth studies with emphasis on predation in zooplankton and abundance of zooplankton.
Key Words:white crappie, black crappie, food, growth, reproduction

139. Business Research Bureau 1960
Recreational survey of Lewis and Clark Lake and Fort Randall Reservoir.

Business Res. Vureau, School of Business, Univ. of South Dakota, Vermillion.
Key Words:creel survey, Lewis and Clark Reservoir, Fort Randall Reservoir

140. Butler, M.G. 1990
Functional diversity among aquatic invertebrates in prairie lakes and ponds.

Proc. N. Dak. Acad. Sci. 44:12
Key Words: invertebrates

141. Buttz, H.R., and H.L. Holloway, Jr. 1987
Microsporidia on ninespine sticklebacks.

Proc. N. Dak. Acad. Sci. 41:57.

Describes microsporidia in sticklebacks from Saskatchewan River and Lake Winnipeg, Canada.
Key Words: parasite, stickleback

142. Cada, G.F. 1977
The entrainment of larval fishes at two nuclear power plants on the Missouri River in Nebraska.

Ph.D. Dissertation, Univ. of Nebr., Lincoln NE.
Key Words: entrainment

143. Cada, G.F. and G.L. Hergenrader 1980
An assessment of sampling mortality of larval fishes.

Trans. Amer. Fish. Soc. 107(2):269-274.

Study near two nuclear power plants on the Missouri River in Nebraska.
Key Words:fish larvae, mortality

144. Cada, G.F., and G.L. Hergenrader 1980
Natural mortality rates of freshwater drum larvae in the Missouri River.

Trans. Amer. Fish. Soc. 109:479-483.

Instantaneous total mortality rates in a channelized stretch of the Missouri River near Blair and Brownville, Nebraska, estimated from analysis of cumulative catch curves.
Key Words: mortality, freshwater drum, fish larvae, Missouri River

145. Callender, E. 1968
The postglacial sedimentology of Devils Lake, N.D.

Ph.D. Thesis, Univ. of North Dakota.

Detailed study of water chemistry and sedimentation in Devils Lake during low water conditions in 1965.
Key Words:Devils Lake, water chemistry, sedimentation

146. Callender, E., and R. Armstrong. 1967
A preliminary study of some calcium mineral equilibria in the water-sediment system of Devils Lake, North Dakota.

Proc. N. Dak. Acad. Sci. 20: 157-158 (abstract).

From observations made in Devils Lake in 1965 and 1966. (See Callender, Ph.D. Thesis)
Key Words:Devils Lake, water chemistry, sedimentation

147. Carbine, W.F. 1966
Commercial fishery potential of the Missouri Basin.

Minutes of the 144th meeting of the Missouri Basin Inter-Agency Committee, April, 1966, Append. 8. 14 pp.
Key Words:commercial fishery, Missouri River

148. Carlson, D.M., W.L. Pflieger, L. Trial and P.S. Haverland. 1985
Distribution, biology and hybridization of Scaphirhynchus albus and S. platorynchus in the Missouri and Mississippi Rivers.

Environ. Biol. of Fishes. Vol. 14(1): 51-59

Study made in Missouri waters but good reference on hybridization and other features of these two species found in North and South Dakota.
Key Words:pallid sturgeon, shovelnose sturgeon, Missouri River

149. Carlson, D.R. 1966
Age and growth of the stonecat, Noturus flavus Rafinesque, in the Vermillion River.

Proc. S. Dak. Acad. Sci. 45:131-137.

Fish from Vermillion River, South Dakota were aged, and age and growth determinations made from bleached preparations of the fifth vertebrae.

Key Words: stonecat, age and growth, Vermillion River

150. Carlson, D.R. 1967
Stomach content analysis of the stonecat, Noturus flavus Rafinesque, in the Vermillion River.

Proc. S. Dak. Acad. Sci. 46:145-152.

Results of analyses of 47 stonecats captured June 1964.
Key Words: stonecat, food, Vermillion River

151. Carlson, P. 1982
Monetary values of freshwater fish and fish counting guidelines.

North Dakota Outdoors 45(4):14.

Popular article citing accepted values of fish recommended by the American Fisheries Society in case of fish kills or similar problems.
Key Words:fish kill, economics, monetary value

152. Carminati, J.J. 1983
Adapting a standard creel census method for a large freshwater reservoir.

M.S. Thesis, Univ. of North Dakota, also North Dakota Game & Fish Dept., Dingell-Johnson Division, Report No. A-1096-A.

Creel census in downstream end of Lake Sakakawea developed as a method of conducting a creel census of the entire reservoir.
Key Words:creel survey, Sakakawea

153. Carter, S.R. 1976
Macroinvertebrate entrainment study.

pp.47-76 in D.L. Wetzel (ed.) Operation environmental monitoring in the Missouri River near Fort Calhoun Station, July, 1975, through December, 1975. (Project No. 5501-06392). Semiannual report by NALCO Environmental Sciences for Omaha Public Power District, Omaha, Nebr. Harrow 1977.
Key Words: entrainment

154. Carter, S.R., K.R. Bazata and D.L. Andersen 1982
Macroinvertebrate communities of the channelized Missouri River near two nuclear power stations.

pp. 147-182 in L.W. Hesse, G.L. Hergenrader, H.S. Lewis, S.D. Reetz and A.B. Schlesinger, (eds.), The Middle Missouri River, The Missouri River Study Group. Box 934, Norfolk, NE.

Macroinvertebrates (largely aquatic insects) as affected by conditions in the Missouri River near two nuclear power plants in 1973-1977.

Key Words:Missouri River, invertebrates, channelization

155. Carufel, L.H. 1957
The bullhead.

North Dakota Outdoors 19(10):10-11.

Semipopular life history of black, brown and yellow bullheads.
Key Words:black bullhead, brown bullhead, yellow bullhead

156. Carufel, L.H. 1958
Tentative check list for fishes of North Dakota.

North Dakota Outdoors 21(5):10-11, 16.

Check list with supporting citations.
Key Words: fishes, North Dakota

157. Carufel, L.H. 1960
Evaluation of commercial fishing by use of a questionnaire.
Prog. Fish. Cult. 22(4):181-184.

Describes North Dakota commercial fisheries and method of obtaining commercial catch data from mailed questionnaires.
Key Words:commercial fishery, catch data

158. Carufel, L.H. 1961
Observations on the life history and taxonomy of the sauger (Stizostedion canadense, Smith) in Garrison Reservoir, North Dakota.

M.S. Thesis, Mont. State Univ., Bozeman, Mont.
Key Words: sauger, Sakakawea, life history, Garrison Reservoir

159. Carufel, L.H. 1963
Life history of saugers in Garrison Reservoir.

Jour. Wildl. Mgt. 27:450-456.

Study made in 1959 and 1960 reports age and growth, condition, fecundity, sex ratios, maturity and time of spawning of saugers from Garrison Reservoir and from the tailrace of Garrison Dam.
Key Words:Garrison Reservoir, Sakakawea, sauger, life history

160. Carufel, L.H., and A. Witt, Jr. 1963
Range extension of the gizzard shad (Dorosoma cepedianum) into North Dakota.

Copeia 1963(1):178.

Carufel collected gizzard shad in the Missouri River 2.5 miles below Garrison

Dam, October 16, 1955. Gizzard shad were found at the foot of Garrison Dam then, but the northern limit is now Lake Sharpe and they are not found in Oahe at present.
Key Words:gizzard shad, Garrison Dam, Missouri River

161. Cassity, R.S. 1979
A comparison of age and growth of walleyes, Stizostedion vitreum vitreum (Mitchill), in Lakes Audubon and Sakakawea, North Dakota, 1978.

M.S. Thesis, Univ. of North Dakota, also North Dakota Game & Fish Dept., Dingell-Johnson Division, Report No. 1331.

Comparison of age composition, growth rates, length-weight and condition factors of walleye in Lakes Sakakawea and Audubon. Lake Sakakawea walleyes had faster growth and better condition.
Key Words: walleye, Sakakawea, Lake Audubon, age and growth

162. Cernohous, L. 1983
Fish mortality by the use of explosives in Oahe Reservoir.

North Dakota Outdoors 46(1): 2-6.

Popular article on effect of explosives on fish in Lake Oahe.
Key Words: Oahe, explosives

163. Cernhous, L. 1983
Fish mortality caused by the use of explosives in Oahe Reservoir, North Dakota.

U.S. Fish and Wildlife Service Habitat Resources, Bismarck Field Office (mimeo)

Examines effect on fish by explosives used to dig a trench for a pipeline crossing.
Key Words: Oahe, explosives, mortality

164. Cherko, I., L.G. Harrow and A.B. Schlesinger 1975
Larval fish in the Missouri River: seasonal and distributional patterns at Fort Calhoun nuclear power station.

Proc. Nebr. Acad. of Sci. 85:9-10.

Based on samples taken 0.2 mile upstream from Fort Calhoun Power Plant May through August 1974.
Key Words:Missouri River, fish larvae

165. Cherko, I., L.G. Harrow, and A.B. Schlesinger 1976
Monitoring of the Missouri River ichthyoplankton population between Sioux City, Iowa, and Rulo, Nebraska: Interception sampling at seven

locations.

Proc. Nebr. Acad. Sci. 86:11-12.

Results of samples taken in July 1975 by following the same body of water downstream through the seven stations. There was a significant decrease in numbers and density of fish larvae.
Key Words:channel catfish, Missouri River

166. Cherko, I., L.G. Harrow, and A.B. Schlesinger 1976
Long term exposure to effluents of the Fort Calhoun nuclear power station: effect upon survival and development of age in Ictalurus punctatus.

Proc. Nebr. Acad. Sci. 86:11.

Results of monitoring fish in live boxes in discharge downstream from the plant. Controls were taken upstream from the plant.
Key Words:Missouri River, ichthyoplankton

167. Cherko, I., L.G. Harrow, and A.B. Schlesinger 1976
Cold shock in fish: the feasibility of simulating a power plant trip at the Fort Calhoun nuclear power station.

Proc. Nebr. Acad. Sci. 86:10-11.

A "trip" or sudden power plant outage would suddenly expose fish that might be acclimated to heated effluent to cold water. This report is a result of an experimental exposure of fish to such a sudden change in water temperature.
Key Words:cold shock, heated effluent

168. Choudury, A., C.A. Ottinger, T.A. Dick,
and H.L. Holloway, Jr. (no date)
Bibliography of Polypodium hydriforme.

Manuscript (H.L. Holloway), Dept. of Biology, Univ. of N. Dakota, Grand Forks, ND, 58202.

This parasite of sturgeons and paddlefish has been studied as a possible problem in interbasin transfer of biota through the Garrison Diversion Unit.
Key Words: parasite, sturgeon, paddlefish, bibliography

169. Christopher, S.G., E.A. Bettross, and D.W. Willis 1990
A proposed standard weight (Ws) equation for sauger.

The Prairie Naturalist 22(1):41-48

Length-weight data for sauger was summarized from 49 data sets from 33 populations in 16 states and 2 Canadian provinces to develop a new standard weight (Ws) equation.

Key Words: sauger, standard weight

170. Churchill, E.P., Jr. 1927
Distribution of certain newly recorded fish of South Dakota. Bull.

Ecol. Soc. Amer. 8: 6-7.
Key Words: fishes, distribution, South Dakota

171. Churchill, E.P. 1944
The effect of the effluent from the Sioux Falls sewage treatment plant on the fauna of the Big Sioux River.

Proc. S. Dak. Acad. Sci. 24:43-53..

Lists plankton, bottom fauna, birds, and fishes to indicate effects of pollution.
Key Words: pollution, Big Sioux River

172. Churchill, E.P. and T. Mitchill. 1937
Intestine length and food in certain minnows.

Proc. S. Dak. Acad. Sci. 17: 74-76.

Results of a study of ratio of intestine length to body length of 11 species of minnow to the type of food taken. There was a tendency of minnows with short intestines to utilize animal food rather than plant food.
Key Words: minnows, intestine length, food

173. Churchill, E.P.,Jr., and W.H. Over. 1938
Fishes of South Dakota.

South Dakota Dept. of Game & Fish., Pierre, S.D. 87 pp.

Includes keys and discussion of abundance, habitat, distribution and food habits of South Dakota species.
Key Words: fishes

174. Claflin, T.O. 1963
Age and growth of the goldeye, Hiodon alosoides (Rafinesque), in the Missouri River.

M.A. Thesis, Univ. of South Dakota.

An age and growth study on goldeye collected in 1962 and 1963 in Lewis and Clark Lakes and in the Missouri River immediately downstream from Gavins Point Dam.
Key Words: goldeye, age and growth

175. Claflin, T.O. 1966

A limnological investigation of the Aufwuchs community in two main stem Missouri River reservoirs.

Ph.D. Thesis, Univ. of South Dakota.
Study made in Lewis and Clark and Lake Francis Case reservoirs.
Key Words:Lewis and Clark Reservoir, Lake Francis Case, aufwuchs, limnology

176. Claflin, T.O. 1968
Reservoir Aufwuchs on inundated trees.

Trans. Amer. Microscopical Soc. 87(1):97-104.

Aufwuchs or periphyton and bottom fauna studies in Lewis and Clark Lake (Gavins Point Reservoir) and Lake Francis Case (Fort Randall Reservoir), S. Dak.
Key Words:Lewis and Clark Reservoir, aufwuchs

177. Clamby, G.K., H.L.Holloway, Jr., J.B.Owen and J.J.Peterka 1983
Potential transfer of biota between drainage systems having no natural flow connections.

Tri-College University Center for Environmental Studies, Fargo, ND.

A study of possible transfer of biota from the Missouri River drainage to Hudson Bay drainage through the Garrison Diversion Unit. Contains several chapters on various types of organisms.
Key Words:Garrison Diversion, interbasin transfer

178. Clamby, G.K., and J.B. Owen. 1983
Potential transfer of fish species from the Missouri River Basin to the Hudson Bay Basin via the Garrison Diversion Unit.

pp. 17-36 in Clamby, G.K., H.L. Holloway, Jr., J.B. Owen and J.J. Peterka. Potential transfer of biota between drainage systems having no natural flow connections. Tri-College University Center for Environmental Studies, Fargo, ND.
Key Words:Garrison Diversion, interbasin transfer

179. Clamby, G.K., J.J. Peterka and J.B. Owen. 1983
Aquatic biota transfer.

pp. 5-16 in Clamby, G.K., H.L. Holloway, Jr., J.B. Owen and J.J. Peterka. Potential transfer of biota between drainage systems having no natural flow connections. Tri-College University Center for Environmental Studies, Fargo, ND.

A study of the Garrison Diversion Unit.
Key Words:interbasin transfer, Garrison Diversion

180. Clark, S.W. 1990
Population/biomass estimates and relative abundance indices of adult common carp in Arrowwood and Sand Lake National Wildlife Refuges.

M.S. Thesis, South Dakota State University.
Key Words:population estimate, biomass, carp, Arrowwood, Sand Lake

181. Clark, S.W., and D.W. Willis 1989
Size structure and catch rates of northern pike captured in trap nets with two different mesh sizes.

The Prairie Naturalist 21(3):157-162.

Work done at Arrowwood National Wildlife Refuge, N.D., and Sand Lake National Wildlife Refuge, S.D., with 13 or 25 mm. bar measure mesh sizes.
Key Words:northern pike, trap net

182. Claypool, D. 1981
The habitat of plains killifish, (Fundulus kansae), in the lower Yellowstone River drainage.

Proc. Mont. Acad. Sci. 40:25-30.

Five tributaries of the lower Yellowstone with the plains killifish and four tributaries without this species were studied to determine the nature of the habitat favoring the fish. The killifish was present in tributaries with a clay-silt substrate and not present in tributaries with a sandy substrate. This species might be present in N. Dak. if there are tributaries to the Yellowstone or Missouri River with the proper habitat.
Key Words:plains killifish, Yellowstone River

183. Clifford, T.J. 1969
Summer movement of bigmouth buffalo in Lake Poinsett, South Dakota.

M.S. Thesis, South Dakota State University.

Buffalo were marked with styrofoam floats and tracked visually during daylight hours.
Key Words:Lake Poinsett, bigmouth buffalo

184. Clifford, T.J. 1969
An estimate of the standing crop and angler harvest of the walleye sport fishery of Lake Poinsett, South Dakota.

Proc. S. Dak. Acad. Sci. 48:151-156.

Walleye were tagged with Floy tags in the spring of 1968 and numbers estimated by mark and recapture and angler returns in 1968. Standing crop was estimated based on average weight.

Key Words:Lake Poinsett, walleye, mark and recapture

185. Clodfelter, K.C. 1982
Growth, food habits, and the relative effectiveness of stocking rainbow trout (Salmo gairdneri) in south-central South Dakota.

M.S. Thesis, South Dakota State University.

An analysis of effectiveness of stocking rainbows in 47 stock ponds made in 1977 and 1978. Growth rates, condition and food reported.
Key Words:rainbow trout, stocking, growth

186. Clothier, W.D. 1955
Investigations of fish parasites.

Dingell-Johnson Report 55-8, F-1-R-4, Job 9, S. Dak. Dept. of Game, Fish and Parks.
Key Words: parasite

187. Clothier, W.D. 1957
Lake Alvin fisherman harvest studies.

Dingell-Johnson Report 57-5, F-1-R-6, S. Dak. Dept. of Game, Fish and Parks.
Key Words:Lake Alvin, creel survey

188. Clothier, W.D. 1957
Chemical rehabilitation of lakes, 1956.

Dingell-Johnson Report 57-9, F-2-D, S. Dakota Dept. of Game, Fish and Parks.
Key Words:fish control

189. Clothier, W.D. and M.F. Boussu. 1954
Creel and test net study, Angostura Reservoir, Fall River County, 1953.

Dingell-Johnson Report 54-2, F-1-R-3, S. Dak. Dept. of Game, Fish and Parks.
Key Words:creel survey, Angostura Reservoir

190. Clothier, W.D., and M.F. Boussu. 1954
The 1953 voluntary warden creel census.

South Dakota Conservation Digest 21(5):8-11.
Key Words:creel survey

191. Cochran, A. 1975
A selected, annotated bibliography on fish and wildlife implications of Missouri Basin water allocation.

Inst. of Behavioral Science, Univ. of Colorado. 71 pp.

Bibliography has 209 entries.
Key Words: bibliography, water allocation

192. Coker, R.E., and J.B. Southall 1915
Mussel resources in tributaries of the upper Missouri River.

Report of the U.S. Commisssioner of Fisheries for 1914, Appendix 4, U.S. Bureau of Fisheries, No. 812.

Results of explorations for mussels in James and Vermillion Rivers, Red River at Fargo and Sheyenne River at Lisbon.
Key Words:Missouri River, mussels

193. Comita, G.W. 1977
The reduction of primary productivity in Brewer Lake (Reservoir) by periodic hypolimnetic discharge.

Proc. N. Dak. Acad Sci. 31(I):2 (abstract).

Results of three years monitoring, one year before hypolimnetic discharge and two years following reduction of fish kills and primary productivity reported after discharges.
Key Words:Brewer Lake, hypolimnetic discharge, primary productivity

194. Comita, G.W. 1978
Brewer Lake primary productivity measurements and effects of bottom discharges during years of precipitation extremes.

Proc. N. Dak. Acad Sci. 32 (I):40 (abstract).

Gives results from 1974 through 1977.
Key Words:Brewer Lake, hypolimnetic discharge, primary productivity

195. Comita, G.W. 1979
The seasonal photosynthetic blooms in Brewer Lake, N.D., derived from five years' data.

Proc. N. Dak. Acad Sci. 33:46 (abstract).

Two pulses were observed each of the five years, Pulse I from mid-April to about 1 June, Pulse II from near 1 June to about 1 October.
Key Words:Brewer Lake, algae

196. Comita, G.W. 1980
Changes in ammonia-nitrogen and related photosynthetic blooms in Brewer Lake, Erie, North Dakota, based on six years of measurements.

Proc. N. Dak. Acad Sci. 34:24.

Six years of data starting in 1974 show two photosynthetic blooms each year. Photosynthesis was correlated with pH, temperature, Chlorophyll-A, CO_2 and NO_3 nitrogen.
Key Words:Brewer Lake, limnology, algae

197. Comita, G.W., and D.L. Henegar. 1975
Brewer Lake, 1974 photosynthesis and related measurements.
Proc. N. Dak. Acad Sci. 29(I):4.

Gross photosynthesis was related to transparency, community respiration, integral net photosynthesis and chlorophylls. Other parameters were also measured.
Key Words:Brewer Lake, limnology, algae

198. Comita, G.W., and W.C. Whitman 1976
Biological resources of the Dunn County coal gasification project study area, an interim report.

Dept. of Zoology and Dept. of Botany, N. Dak. Agric. Exper. Sta., NDSU, Fargo.

Gives methods of study including limnological and seine samples.
Key Words:coal gasification, limnology

199. Comita, G.W., and E.W. Wolf. 1967
Photosynthetic production and energy conversion in Spiritwood Lake, North Dakota.

Proc. N. Dak. Acad Sci. 21:77-92.

Contains good description of the lake and chemical, physical determinations and light and dark bottle measurements of photosynthesis and respiration from Nov. 1965 to Nov. 1966.
Key Words:Spiritwood Lake, photosynthesis, limnology

200. Congdon, J.C. 1969
The fish population of Lake Poinsett, South Dakota as indicated by the catch of four types of gear.

M.S. Thesis, South Dakota State University.

Systematic sampling with otter trawl, electric shocker, trap net and gill nets gave results differing significantly with season, times of day, location within the lake and type of gear. These factors could be a source of sample bias and possibly affect interpretation of results in any study.
Key Words:otter trawl, shocker, trap net, gill net

201. Conway, C.M., and L.E. Shubert. 1977
Algae, nutrients and the Devils Lake ecosystem.

Proc. N. Dak. Acad. Sci. 31 (I):2 (abstract).

High concentrations of N and P contribute to massive blue-green algae blooms.
Key Words:Devils Lake, water chemistry, plankton

202. Conway, C.M., and L.E. Shubert. 1978
Seasonal and spatial variations of algal productivity in the Devils Lake ecosystem.

Proc. N. Dak. Acad. Sci. 32 (I):38.

Primary productivity of Devils Lake water determined by bioassay methods.
Key Words:Devils Lake, primary productivity, plankton

203. Cool, K.L. 1976
Oahe irrigation project impacts on fish, wildlife, and recreation.

S. Dak. Dept. Wildlife, Parks and Forestry. 29 pp.
Key Words:environmental impact, Oahe Diversion Unit

204. Coon, D.M. 1981
The pilot field survey on Lake Oahe for proposed 316 demonstration.

Unpublished report prepared for Basin Electric Power Coop., 1717 E. Interstate Ave., Bismarck, N.D. 58501.

The pilot field survey on Lake Oahe for proposed field demonstration. Contains data on smelt in Lake Oahe.
Key Words:rainbow smelt, Oahe

205. Cooper, J.G. 1870
Notes on the fauna of the Upper Missouri.

Amer. Natur. 3:294-299.

Limited historical value for Missouri basin.
Key Words: fishes, Missouri River

206. Cooper, J.G. 1870
The fauna of Montana Territory. IV. Fishes.

Amer. Natur. 3:125-127.

Limited historical value for Missouri Basin.
Key Words: fishes, Missouri River

207. Cooper, J.L. 1971
The northern pike in Fort Peck Reservoir, Montana.

Proc. Mont. Acad. Sci. 31:53-61.

The range of northern pike was extended into Ft. Peck reservoir by introduction, and pike were present in catches in the 1950's and early 1960's. Difficulties in maintenance of a fishable populations are fluctuating water levels and lack of shoreline vegetation.
Key Words:northern pike, Fort Peck Reservoir

208. Cooper, J.L. 1973
Vertical distribution patterns of goldeye, Hiodon alosoides, in Fort Peck Reservoir, Montana.

NOAA Fishery Bulletin, 71(2):473-478.
Key Words: goldeye, Fort Peck Reservoir

209. Copes, F.A. 1965
Fishes of the Red River tributaries in North Dakota.

M.S. Thesis, Univ. of North Dakota.

Results of collections in 1964 in the Pembina, Tongue, Park, Forest, Turtle, Goose, Elm, Rush, Maple, Sheyenne and Wild Rice Rivers, all tributaries of the Red River of the North.
Key Words:Red River, fishes

210. Copes, F.A., and R.A. Tubb. 1966
Fishes of the Red River tributaries in North Dakota.

Institute for Ecological Studies, Univ. North Dakota. Research Report No. 1.

From collections made during spring, summer and fall of 1964 in Pembina, Tongue, Park, Forest, Wild Rice, Goose, Elm, Rush, Maple and Sheyenne Rivers.
Key Words:Red River, fishes

211. Cordero, D.I. 1982
Lake Sakakawea, shoreline erosion investigations, Garrison Dam, North Dakota.

Report to U.S. Army Corps of Engineers, Omaha District, Omaha, Nebraska.
Key Words: Sakakawea, shore modification

212. Cowell, B.C. 1967
The copepoda and cladocera of a Missouri River reservoir: a comparison of sampling in the reservoir and the discharge.

Limnol. Oceanography 12:125-136.

Results of samples by an automatic plankton sampler installed in the

powerhouse of Gavins Point Dam and samples taken with two nets in Lewis and Clark Reservoir indicated that the automatic sampler can be used to monitor changes in species composition and densities of copepoda and cladocera. Discharges from the upstream Fort Randall Reservoir appear to have more influence in standing crops in Lewis and Clark Reservoir than water exchange rates or inflow from tributary creeks.
Key Words: plankton, cladocera, copepoda, Gavins Point Reservoir

213. Cowell, B.C. 1970
The influence of plankton discharges from an upstream reservoir on standing crops in a Missouri River Reservoir.

Limnol. Oceanogr. 15:427-441.

Presents comparative data from automatic plankton samplers in the powerhouse of Gavins Point Dam and Fort Randall Dam immediately upstream. Population densities of copepoda and cladocera were consistently greater in the upstream reservoir.
Key Words: plankton, Fort Randall Reservoir, Gavins Point Reservoir

214. Cowell, B.C., and P.L. Hudson. 1967
Some environmental factors influencing benthic invertebrates in two Missouri River Reservoirs.

pp. 541-555 in Reservoir Fishery Resources Symposium. Southern Div., Amer. Fish. Soc.

In shallow Lewis and Clark Lake, water temperature and depth related factors regulate abundance of Hexagenia nymphs; water level fluctuations and wind and wave action are responsible for small Hexagenia populations in Lake Francis Case. Chironomids are three times more abundant in Lake Francis Case.
Key Words: benthos, Lewis and Clark Reservoir, Francis Case Reservoir

215. Cox, U.O. 1896
A report upon the fishes of southwestern Minnesota.

U.S. Comm. Fish Fish., Annual Rept. (1894):605-616.
Key Words: fishes, Minnesota

216. Cox, U.O. 1897
A preliminary report on the fishes of Minnesota.

Minn. Geol. Nat. Hist. Surv., Zool. Ser. III:1-93.

Includes fish caught in the Red River and tributaries.
Key Words: fishes, Red River

217. Cross, F.B., and D.G. Huggins 1975
Skipjack herring, Alosa chrysochloris, in the Missouri River Basin.

Copeia 1975(2):382-385.

Summary of records for this fish which extends as far upstream as near Yankton and Vermillion, S.D.
Key Words:skipjack herring, Missouri River

218. Cross, F.B., and A.L. Metcalf. 1963
Records of three lampreys (Ichthyomyzon) from the Missouri River.

Copeia 1963:187.

Ichthyomyzon castaneus from the Missouri River, North Dakota, collected in 1913, and discusses other early collections from the Missouri.
Key Words: lamprey, Missouri River

219. Cross, G.H. 1973
Wildlife, ecology, and planning in a proposed irrigation development in North Dakota.

Ph.D. Thesis, N. Dak. State Univ.
Key Words: irrigation, development

220. Cross, S.L.C. 1978
Starvation of fathead minnows, Pimephales promelas Rafinesque, at different temperatures and salinities.

M.S. Thesis, Univ. of North Dakota.

Results of physiological experiments in aquaria on fatheads from Devils Lake.
Key Words:Devils Lake, fathead minnow

221. Cvancera, A.M. 1964
Clines in three species of Lampsilis(Pelecypoda:Unionidae).

Malacologia 1(2):215-255.
Key Words: mussels

222. Cvancara, A.M. 1967
Distribution and ecology of mussels in the Red River Valley, Grand Forks to Drayton.

Proc. N. Dak. Acad Sci. 20:156-157 (abstract).

Results of collections in 1965 at 49 stations in Red River and its tributaries. Thirteen species were found.
Key Words:Red River, mussels

223. Cvancara, A.M. 1967

Mussels of the Red River Valley in North Dakota and Minnesota and their use in deciphering drainage history.

pp. 187-196 in W.J. Mayer-Oakes, (ed.), Life in Land and Water. Proc. 1966 Conf. Environ. Studies, Glacial Lake Agassiz Region, Univ. Manitoba Press, Winnipeg.
Key Words: mussels, Red River

224. Cvancara, A.M. 1970
Mussels (Unionidae) of the Red River Valley in North Dakota and Minnesota, USA.

Malacologia 10(1):57-92.
Key Words: mussels, Red River

225. Cvancara, A.M. 1970
Illustrated key to the genera and species of North Dakota mussels.

Univ. N. Dakota, Contrib. Inst. Ecolog. Studies No. 3.

Key covers the 14 species of mussels known to occur in North Dakota. Illustrated with photographs and drawings of key characters.
Key Words:North Dakota, mussels

226. Cvancera, A.M. 1970
Distribution of lake mussels as determined with SCUBA.

Proc. N. Dak. Acad. Sci. 24(I):5 (abstract)
Key Words: mussels, SCUBA

227. Cvancera, A.M. 1972
Lake mussel distribution as determined with SCUBA.

Ecology 53(1):154-157.
Key Words: mussels, SCUBA

228. Cvancara, A.M. 1975
Aquatic malacogeography of North Dakota.

Proc. N. Dak. Acad. Sci. 27(II):68-82.

Lists and gives distribution of aquatic mollusks presently known in North Dakota and suggests that they delineate three provinces in the state. Includes discussion of factors affecting distribution. Bibliography.
Key Words:North Dakota, molluska

229. Cvancara, A.M. 1976

Aquatic mollusks in North Dakota during the last 12000 years.

Canadian Jour. Zoo. 54(10):1688-1693.
Key Words: mussels

230. Cvancara, A.M. 1977
Comparison of mussels (Bivalvia:Unionacea) collected during high and low water in the Red River of the North.

The Prairie Naturalist 9(3 and 4):54-56.
Key Words:Red River, mussels

231. Cvancara, A.M. 1979
Larger lake than stream mussels (Bivalvia:Unionacea) an exception to the rule in northwestern Minnesota.

Proc. N. Dak. Acad. Sci. 33:23
Key Words: mussels

232. Cvancara, A.M. 1983
Aquatic mollusks of North Dakota.

N. Dak. Geol. Survey, Report Invest. No. 78, 141 pp.
Key Words: mussels, molluska

233. Cvancara, A.M., J.P. Bluemle and M.E. Bluemle 1975
Variations of shell dimensions and shell and body weights of Anodonta grandis Say and Lamsilis radiata (Gmelin) (Bivalvia:Unionidae), Sheyenne River, North Dakota.

Proc. N. Dak. Acad. Sci 29(I):5.
Key Words: mussels, Sheyenne River

234. Cvancara, A.M., J.P. Bluemle and M.E. Bluemle 1978
Variations in shell dimensions and shell and body weights of Anodonta grandis Say and Lampsilis radiata (Gmelin)(Bivalvia: Unionidae), Sheyenne River, North Dakota.
Proc. N. Dak. Acad Sci. 29(II):7-18.

Results of collections in 1966, 1973, and 1974 from 27 stations spanning 511 river miles.
Key Words: mussels, Sheyenne River

235. Cvancara, A.M., D.J. Brown, D.K. Cudworth and T.R. Klett 1981
Mass mortality of mussels from slumping along the Red River near Crookston, Minnesota.

The Prairie Naturalist 13(1):13-14.

Key Words: mussels, Red River

236. Cvancara. A.M., and J.M. Erickson 1968
Mussel distribution and ecology, Forest River, North Dakota.
Proc. N. Dak. Acad Sci. 22(I):17 (abstract).

Results of sampling 22 stations on the Forest River in 1965 and 1966. Six species were found.
Key Words: mussels, Forest River

237. Cvancara, A.M., J.M. Erickson and J.J. Delimata 1972
Present and past mollusks of the Forest River, North Dakota.

Proc. N. Dak. Acad. Sci. 25(II):55-65.

Results of study in 1965, 1966, and 1967 through 1970.
Key Words: mussels, Forest River, molluska

238. Cvancara, A.M., and P.G. Freeman. 1975
Species diversity and distribution of mussels (Bivalvia: Unionacea) in Lake Ashtabula, southeastern North Dakota.

Proc. N. Dak. Acad Sci. 29(I):5.

Results of survey made in 1974. Four species found.
Key Words:Lake Ashtabula, mussels

239. Cvancara, A.M., and P.G. Freeman 1978
Diversity and distribution of mussels (Bivalvia: Unionacea) in a eutrophic reservoir, Lake Ashtabula, North Dakota.

Nautilus 92(1):1-9.
Key Words: mussels, Lake Ashtabula, Red River

240. Cvancara, A.M., and S.S. Harrison 1966
Distribution and ecology of mussels in the Turtle River, North Dakota.

Proc. N. Dak. Acad Sci. 19:128-146.

Four species were found in 1964.
Key Words:Turtle River, mussels

241. Cvancara, A.M., R.G. Heetderks and F.J. Iljana 1967
Local distribution of mussels, Turtle River, North Dakota.

Proc. N. Dak. Acad Sci. 20:149-155.

Study made in 1965 to associate distribution and orientation with ecologic factors.

Key Words: mussels, Turtle River

242. Cvancara, A.M., R.O. Norby and J.B. Van Alstine 1976
Mollusks of the Sheyenne River, North Dakota, USA: present and past.

Malacol. Rev. 9:25-38.
Key Words:Sheyenne River, molluska, mussels

243. Cvancara, A.M., and J.R. Reid 1977
Invertebrates of southwestern North Dakota: Aquatic mollusks.

REAP Report No. 77-6, Univ. of N. Dakota, Grand Forks.
Key Words: invertebrates, molluska

244. Cvancara, A.M., and J.B. Van Alstine 1977
Aquatic mollusks in southwestern North Dakota.

Proc. N. Dak. Acad. Sci. 31(I):3.

Results of collections at 85 stations south and west of Missouri River in 1967, 1968, 1969 and 1976.
Key Words: molluska

245. Cvancara, V.A. 1964
Age and growth of the northern redhorse, Moxostoma macrolepidotum (Lesueur), in the Missouri River.

M.A. Thesis, Univ. of South Dakota. 27 pp.

Standard age and growth study of redhorses taken in Lewis and Clark Reservoir in 1962 and 1963.
Key Words:age and growth, northern redhorse, Missouri River, Lewis and Clark Reservoir

246. Cvancara, V.A. 1968
Some comparative aspects of the uricolytic enzymes and arginase in Missouri River fresh-water fishes.

Ph. D. Dissertation, University of South Dakota.

Laboratory physiological study of 19 species of fish from the Lewis and Clark Reservoir or Burbank Lake, South Dakota.
Key Words:Lewis and Clark Reservoir, uricolytic enzyme, arginase

247. Dalstad, N.L. and F.L. Leistritz 1974
Selected bibliography on coal-energy development.

Dept. of Agi. Economics, N. Dak. Agr. Exper. Sta., N.Dak. State Univ.

Key Words: bibliography, coal development, energy

248. Damann, K.E. 1951
Missouri River Basin plankton study.

Public Health Serv., Environmental Health Center, Cincinnati, Ohio, August, 1951, 100 pp. (mimeo.)

Report of the plankton survey made in the Missouri River Basin during July, August, and September, 1950.
Key Words: plankton

249. Deacon, J.E., G. Kobetich, J.D. Williams, and S. Contreras 1979
Fishes of North America endangered, threatened, or of special concern: 1979.

Fisheries 4(2):29-44.
Key Words: threatened, endangered

250. DeGroot, E.W. 1980
Devils Lake - past, present and future.

North Dakota Outdoors 43(1):8-14.

Good description of past and present conditions in Devils Lake.
Key Words:Devils Lake

251. DeGroot, E.W. 1982
What's happening to Devils Lake?

North Dakota Outdoors 45(5):2-6.

Popular article on the history of geological history and water levels in Devils Lake back to 10,000 years ago, with its effect on nutrient concentrations, fish kills, watershed protection and relation to Garrison Diversion.
Key Words:Devils Lake, fish kill, Garrison Diversion

252. Dekker, B. 1983
Little river "cats."

North Dakota Outdoors 45(9):8-9.

Popular article on catfishing in Little Missouri River.
Key Words:Little Missouri River, channel catfish

253. Devlin, E.W. 1982
Developmental studies on the fathead minnow (Pimephales promelas Rafinesque).

Ph. D. Dissertation, North Dakota State University, Fargo, N.D.

Laboratory study of pre-hatching embryology of fathead minnow; the effects of toluene on three age groups of fathead minnows and effects of toluene on pre-hatching development of the fathead.
Key Words:fathead minnow, embryology, development

254. Dewald, G.W. 1971
Karyotypes for two species of North Dakota cyprinids.

Proc. N. Dak. Acad. Sci. 25(I):6 (abstract).

Karyotypes of Rhinichthyes atratulus Hermann (blacknose dace) and R. cataractae Valenciennes (longnose dace).
Key Words: karyotypes, longnose dace, blacknose dace

255. Di Lauro, M.N. 1982
Culture of channel catfish in east-central South Dakota dugout ponds.

M.S. Thesis, South Dakota State University.
Key Words:channel catfish, pond

256. Dillon, J.C. 1988
Production of triploid rainbow trout for evaluation in South Dakota waters.

M.S. Thesis, South Dakota State University.

Triploid embryos were produced by heat shock and fish were reared and stocked into ponds and survival and performance evaluated.
Key Words:rainbow trout, triploid

257. Disrud, D.T. 1968
Wetland vegetation of the Turtle Mountains of North Dakota.
Ph.D. Thesis, North Dakota State University, Fargo, N.D.
Key Words:flood plain vegetation, Turtle Mountains

258. Dixon, K.M. 1986
Secondary production of macroinvertebrates from selected habitats of the unchannelized Missouri River.

M.A. Thesis, Univ. of South Dakota.

Study made between Gavins Point Dam and Sioux City, Iowa. Ephemeroptera, trichoptera and diptera were collected in various types of aquatic habitat and total biomass and production estimated.
Key Words: limnology, secondary production, invertebrates

259. Doesken, W.G. 1960

The food habits of certain cyprinidae (minnows) of the Vermillion River drainage system, Clay County, South Dakota.

M.A. Thesis, Univ. of South Dakota.

Seasonal food habits of red shiner and fathead minnow were studied near Vermillion, S.D.
Key Words:food habits, red shiner, fathead minnow

260. Dotson, P.A. 1964
A revised list of the fishes of North Dakota.

North Dakota Game and Fish Dept. 15 pp.
Key Words: fishes

261. Downing, J.A. 1975
Hydrophytes, plankton, and water chemistry related to recreational development at Lake Metigoshe, North Dakota.

M.S. Thesis, South Dakota State University.
Key Words: hydrophyte, plankton, Lake Metigoshe

262. Downing, J.A., and J.J. Peterka 1975
Phytoplankton response to hydrophyte removal and nutrient enrichment in Lake Metigoshe, North Dakota.

Proc. N. Dak. Acad. Sci. 29(I):7 (abstract).

Results of experiments with nutrients added in chambers with hydrophytes present and hydrophytes removed. No difference in phytoplankton resulted.
Key Words:Lake Metigoshe, phytoplankton, nutrients

263. Drewes, H.G. 1984
Factors affecting water quality and macroinvertebrate distribution within a small Black Hills stream.

M.S. Thesis, South Dakota State University.

Water quality and macroinvertebrates were sampled in Slate Creek, a trout stream in the Black Hills. Stations were upstream and downstream from a source of disturbance from landscaping and cattle on the stream.
Key Words:Black Hills, Slate Creek, invertebrates

264. Dryer, M. 1982
Garrison Dam tailrace creel census.

U.S. Fish and Wildl. Serv., Bismarck, File Report
Key Words:creel survey, tailrace, Garrison Dam

265. Duncanson, H.H. 1909
Observations on the shifting of the channel of the Missouri River since 1883.

Science 29:869-871.
Key Words:Missouri River, stream alteration

266. Dunn, E.R. 1940
The races of Ambystoma tigrinum.

Copeia 1940(3):154-162.

Describes Devils Lake, N.D. as type locality of Ambystoma tigrinum tigrinum.
Key Words:Devils Lake, salamander

267. Duru, C., and A.D. Johnson 1979
Neascus pyriformis, the black-spot trematode of fishes in Brule Creek, South Dakota.

Proc. N. Dak. Acad. Sci. 33:83.

First report of this parasite from fishes in South Dakota, although it has been reported from fishes in North Dakota.
Key Words: parasite, black spot

268. Dyke, S. 1987
Food habits, age and growth and depth distribution of rainbow smelt, Osmerus mordax (Mitchill), in Van Hook Arm of Lake Sakakawea, North Dakota.

M.S. Thesis, University of North Dakota.

Study of depth distribution, food habits and age and growth of rainbow smelt in the Van Hook Arm of Lake Sakakawea, North Dakota, in 1983 and 1984.
Key Words:rainbow smelt, Sakakawea

269. Dymond, J.R. 1947
A list of the freshwater fishes of Canada east of the Rocky Mountains with keys.

Misc. Publ. Royal Ont. Museum Zool., 1.
Key Words: fishes, Canada

270. Eastgate, A. 1918
Planting fish in an alkaline lake.

Trans. Amer. Fish. Soc. 47(3):89-91.

Brief description of acclimating fish to high salt concentrations in Devils

Lake. Includes observations on decline of fish populations in Devils Lake since first observed by author in 1886.
Key Words:Devils Lake, alkaline, osmoregulation

271. Ebbers, M.A., P.J. Colby and C.A. Lewis 1988
Walleye-sauger bibliography.

Minn. Dept. of Natural Resources, Investigational Report No. 396, St. Paul, Minn. and Ontario Ministry of Natural Resources, Contribution No. 88-02, Box 50, Maple, Ont. LOJ/EO
Key Words: bibliography, walleye, sauger

272. Eddy, S. 1966
Minnesota and the Dakotas.

Ch. 10, pp. 301-315 in Limnology in North America, D.G. Frey (ed.), Univ. Wisc. Press, Madison, Wisc.

Discusses limnology of this area; includes Devils Lake.
Key Words: limnology, Devils Lake

273. Eddy, S., R.C. Tasker and J.C. Underhill 1972
Fishes of the Red River, Rainey River, and Lake of the Woods, Minnesota, with comments on the distribution of species in the Nelson River drainage.

Bell Museum of Nat. Hist., Univ. of Minn. Occ. paper 11, 24 pp.

Annotated list of fishes in the Red River and tributaries in Minnesota.
Key Words:Red River, fishes

274. Eddy, S, and J.C. Underhill 1959
Recent changes and corrections for the Minnesota fish fauna.
Copeia 1959(4):342-343.

Brings list of fishes in Minnesota drainages up to date.
Key Words:Red River, fishes

275. Edman, J. 1960
Mosquito study, Lewis and Clark Reservoir, Summer 1959.

Nebraska State Dept. of Health, Div. of Sanitation, 28 pp. mimeo.
Key Words: mosquito, Lewis and Clark Reservoir

276. Edmondson, C.M. 1920
Protozoa of the Devils Lake complex, North Dakota.

Trans. Amer. Microsc. Soc. 39:167-198.
Key Words:Devils Lake, protozoa

277. Edmunds, G.F., S.L. Jensen, and L. Berner 1976
The mayflies of North and Central America.

University of Minnesota Press.
Key Words: ephemeridae

278. Eigenmann, C.H. 1894
Results of explorations in western Canada and northwestern United States.

Bull. U.S. Fish. Comm. 1892(1894)12:101-132.

Reports on fish found in the Red River at Winnipeg.
Key Words: fishes, Red River

279. Eisenlohr, W.S., Jr. 1969
The water budget of a prairie pothole.

Quaternary Geology and Climate. National Acad. of Sci. Publication 1701. 61-64.
Key Words:pothole lakes, hydrogeology

280. Eisenlohr, W.S., Jr. 1975
Hydrologic investigations of prairie potholes in North Dakota.

U.S. Geol. Surv., Professional Paper 585-A. 102 pp.
Key Words:pothole lakes, hydrogeology

281. Eisenlohr, W.S., Jr., and C.E. Sloan 1968
Generalized hydrology of prairie potholes on the Coteau du Missouri.

U.S. Geol. Surv., circ. 558, 12 pp.
Key Words:pothole lakes, hydrogeology

282. Elliott, M.C., and J.R. Reid 1989
Modeling shoreline erosion trends in Lake Sakakawea.

Proc. N. Dak. Acad. Sci. 43:45.

Outlines development of a model for predicting shoreline bank erosion.
Key Words: Sakakawea, shore modification

283. Ellis, M.M. 1940
Mine-waste pollution of Bear Butte Creek, Black Hills, South Dakota.

U.S. Fish & Wildl. Serv., Spec. Scientific Report No. 12.
Key Words:Black Hills, pollution, Bear Butte Creek

284. Elrod, J.H. 1974
Abundance, growth, survival, and maturation of channel catfish in Lake Sharpe, South Dakota.

Trans. Amer. Fish. Soc. 103(1):53-58.

Contains data from 1964 through 1972. Lake Sharpe is a reservoir on the Missouri River impounded by Big Bend Dam.
Key Words:channel catfish, Lake Sharpe

285. Elrod, J.H., and T.J. Hassler 1969
Estimates of some vital statistics of northern pike, walleye and sauger populations in Lake Sharpe, South Dakota.

U.S. Fish and Wildl. Serv., Tech. Paper No. 30, 17 pp.

Relative abundance, age composition, sex ratio, growth rate, survival and relative year-class strength of these species in Lake Sharpe during the first three years of impoundment (1964-1966).
Key Words:Lake Sharpe, northern pike, walleye, sauger

286. Elrod, J.H., and T.J. Hassler 1971
Vital statistics of seven fish species in Lake Sharpe, South Dakota, 1964-69.

in Gordon Hall (ed.), Reservoir Fisheries and Limnology. Spec. Publ. No. 8, Amer. Fish. Soc., Wash. D.C.

Abundance, age composition and year-class strength, growth, recruitment and survival of river carpsucker, goldeye, carp, shorthead redhorse, bigmouth buffalo, smallmouth buffalo and blue sucker.
Key Words:Lake Sharpe, river carpsucker, goldeye, carp, shorthead redhorse, bigmouth buffalo, smallmouth buffalo, blue sucker

287. Elrod, J.H., F.C. June, and L.G. Beckman 1987
Biology of the walleye in Lake Sharpe, South Dakota, 1964-1975.

pp. 46-60 in Limnological and fishery studies on Lake Sharpe, a mainstem Missouri River Reservoir, 1964-1975, U.S. Fish & Wildl. Serv., Tech. Rept. 8

Reports growth, year-class strength, mortality, sex ratios, reproduction and food.
Key Words:Lake Sharpe, walleye

288. Elsen, D.S. 1977
Distribution of fishes in the James River in North Dakota and South Dakota prior to Garrison and Oahe Diversion projects.

M.S. Thesis, University of North Dakota.

A study of the distribution of fishes in the James River in North and South Dakota in 1975. Changes in the habitat in the James River and possible changes in the distribution of fishes as a result of operation of Garrison Diversion are examined.
Key Words:James River, fishes, Garrison Diversion, Oahe Diversion

289. Elser, A.A., M.W. Gorges and L.M. Morris 1981
Distribution of fishes in southeastern Montana. 132 pp.

Proc. Mont. Acad. Sci. 40:44 (abstract).

Gives distribution of fishes in Little Missouri and Yellowstone Rivers. This is an update of Brown's Fishes of Montana.
Key Words: Montana, fishes, Little Missouri River, Yellowstone River

290. Elser, A.A., R.C. McFarland, and D. Schwehr 1977
The effects of altered stream flow on fish of the Yellowstone and Tongue Rivers, Montana.

Montana Dept. Natur. Resources, Water Resources Div. Tech. Rept. 8.
Key Words:Yellowstone River, Tongue River, stream flow

291. Erickson, V. 1969
A brief history of fishing.

North Dakota Outdoors 32(1):8-13.

Illustrated popular article on development of fishing from most primitive to modern.
Key Words: history

292. Erskine, C. 1973
Landslides in the vicinity of Fort Randall Reservoir, South Dakota.

U.S. Geological Survey Professional Paper 675.
Key Words:shore modification, Fort Randall Reservoir

293. Evenhuis, B.L. 1970
Seasonal and daily food habits of goldeye, Hiodon alosoides (Rafinesque), in the Little Missouri Arm of Lake Sakakawea, North Dakota.

M.S. Thesis, University of North Dakota. also North Dakota Game & Fish Dept., Dingell-Johnson Division, Report No. 1309.

Stomachs of 495 goldeye from Little Missouri Arm, Lake Sakakawea in the summer of 1969 contained microcrustacea and insects. Microcrustacea were the staple food through the entire summer, but terrestrial insects appeared to be preferred during the limited times they were available. Low numbers of aquatic insects in Lake Sakakawea were considered as possibly a cause of poor goldeye growth there.

Key Words: Sakakawea, food habits, goldeye, plankton

294. Evermann, B.W. 1893
The ichthyologic features of the Black Hills region.

Proc. Indiana Acad. Sei. (1892):73-78.
Key Words:Black Hills, fishes

295. Evermann, B.W. 1893
Description of a new sucker, Pantosteus jordani, from the upper Missouri Basin.

Bull. U.S. Fish Comm., 12(1892):51-56.
Key Words: suckers

296. Evermann, B.W., and U.O. Cox. 1896
Report of the fishes of the Missouri River Basin.

Report U.S. Fish Comm. 20:325-429.

Reports on fish in North Dakota and the James River in South Dakota.
Key Words: fishes, James River, Missouri River

297. Evermann, B.W., and E.L. Goldsborough 1907
A checklist of the freshwater fishes of Canada.

Proc. Biol. Soc. Washington 20:89-119.

Reports on fish in the Souris and Red River of the North in Manitoba.
Key Words: Manitoba, Red River, Souris River, fishes

298. Evermann, B.W., and J.T. Scovell 1895
The fishes of the Missouri River Basin.

Proc. Indiana Acad. Sci. (1895):126-130.

A short general description of what was known of fish distribution in the basin at that time.
Key Words:Missouri River, fishes

299. Ewing, R.R. 1989
Production and flow cytometric identification of triploid walleyes.

M.S. Thesis, South Dakota State University.
Key Words: walleye, genetics, triploid

300. Faler, M.P. 1987
First year growth and survival of walleye in power plant evaporation and

holding reservoirs.

M.S. Thesis, South Dakota State University.

Study in Big Stone Power Plant and holding reservoirs in 1982.
Key Words: walleye, Big Stone

301. Farmer, C.E.W. 1973
Natural and cultural controls of water quality along the Devils Lake chain, North Dakota, and biological characteristics of the two terminal lakes in the chain.

Ph.D. Thesis, University of North Dakota.

Limnological study; has good history of the lake area.
Key Words: limnology, Devils Lake

302. Farmer, C.E., L.M. Winczewski, K.T. Killingbeck, G.E. Johnson, R.D. Ludtke, R.D. Pilatzke, A. Carmichael and J.P. Jorgenson 1974
Environmental impact assessment of the Homme Dam and Reservoir, North Dakota.

Inst. for Ecolog. Studies, Research Report No. 7.
Key Words:environmental impact, Homme Reservoir

303. Farmer, P.J. 1974
Age and growth, population structure, and relative abundance of several fish species in Lake Ashtabula, North Dakota, 1972.

M.S. Thesis, University of North Dakota. Also North Dakota Game & Fish Dept., Dingell-Johnson Division, Report No. 1321.

Age and growth of northern pike, walleye, yellow perch, black bullhead, white bass, white sucker, crappies, smallmouth bass, golden shiner, tadpole madtom and orange-spotted sunfish in Lake Ashtabula in 1972.
Key Words:age and growth, Lake Ashtabula

304. Farrell, J.R., and M.A. Tesar 1982
Periphytic algae in the channelized Missouri River with special emphasis on apparent optimal temperatures.

pp. 85-123 in The Middle Missouri River, L.W. Hesse, et al., (eds.). The Missouri River Study Group, Box 934, Norfolk, NE. 78701.

Study of effects of heated water from power plant on periphytic algae in the Missouri River.
Key Words:heated effluent, periphyton, Missouri River

305. Fedoruk, A.N. 1969

Checklist of and key to the freshwater fishes of Manitoba.

Manitoba Dept. Mines Nat. Resources, Canada Land Inventory. Project Report 6.

Checklist and key to Manitoba fishes, the majority of which are in contiguous North Dakota drainages.
Key Words: fishes, Manitoba, key

306. Feick, D., and J.J. Peterka 1978
Benthic invertebrates of Felton Creek, Minnesota.

Proc. N. Dak. Acad. Sci. 32(II):3-9.

A measure of standing crop and kinds of benthic invertebrates found in channelized and unchannelized portions of a small tributary of the Red River in Minnesota.
Key Words: benthos, Red River, Felton Creek

307. Feldman, R.M. 1963
Distribution of fish in the Forest River of North Dakota.

Proc. N. Dak. Acad. Sci. 17:11-19.

Distribution of fish at 9 stations in the old lake bed of Lake Agassiz and in old lake beach areas.
Key Words:Forest River, fishes

308. Felix, T.P. 1967
Movement of forage fishes in a South Dakota stream.

M.S. Thesis, South Dakota State University.

A study of movements of shortnose dace, stone rollers, creek chubs and white suckers in 1966 and 1967 in the headwaters of the Yellowbank River, a tributary of the Minnesota River in eastern South Dakota. Fish were captured and recovered by electrofishing and marked by fin clipping.
Key Words:shortnose dace, stoneroller, creek chub, white sucker, electroshock, fin clips, movement

309. Fike, R.A. 1979
Winter limnological conditions in a prairie pothole lake and the application of molecular oxygen.

M.S. Thesis, South Dakota State University.

Limnological and chemical tests of effectiveness of oxygen forced under the ice as a means of preventing winter kill of fish.
Key Words: limnology, winterkill

310. Fisher, H.J. 1962

Some fishes of the lower Missouri River.

The Amer. Midland Naturalist 68(2):424-429.

Report of fish collections made in 1945 in Missouri River between the Iowa-Missouri line and the mouth.
Key Words: fishes, Missouri River

311. Fisher, W.L., J.J. Charbonneau and M.J. Hay 1986
Development of management programs and measurement of economic values.

pp. 5-10 in G.E. Hall and M.J. Van Den Avyle(eds.), Reservoir fisheries management strategies for the 80's. Reservoir Committee, Southern Division, Amer. Fish. Soc.
Key Words:economic value

312. Fivizzani, A.J., T.P. McCreery, and T. Hoffnagle 1989
Temporal aspects of thyroid control in chinook salmon, Oncorhynchus tshawytscha

Aquaculture 82(1-4):376 (abstract)
Key Words:chinook salmon, thyroxine

313. Fogle, N.E. 1964
Summation of four years of creel census, July, 1959, thru June, 1963, on Oahe tailwaters.

Dingell-Johnson Report 64-1, F-1-R-13 (Job 12A)S. Dak. Dept. of Game, Fish and Parks.
Key Words:creel survey, Oahe

314. Foley, D.A., A.D. Weidemann, and G.W. Comita 1980
Efficiency of utilization of ph AR during photosynthesis in blue-green algae in the upper three meters of Brewer Lake (Reservoir), Erie, N.D.

Proc. N. Dak. Acad. Sci. 34:41.

Measurements made at four sampling depths.
Key Words: limnology, bluegreen algae, Brewer Lake

315. Forstie, M.D. 1979
Parasites of fish from the James and Sheyenne Rivers, Jamestown Reservoir complex and Lake Ashtabula.

M.S. Thesis, University of North Dakota.

Fifty one species of parasites indentified from 14 species of fishes from Arrowwood, Jim and Mud lakes, Jamestown Reservoir and the lower James River, and Lake Ashtabula and the lower Sheyenne River in North Dakota in 1976 and 1977.

Key Words: parasite, James River, Sheyenne River, Lake Ashtabula

316. Forstie, M.D., and H.L. Holloway, Jr. 1977
Parasitemia of yellow perch in North Dakota.

Proc. N. Dak. Acad. Sci. 31(I):8.

Results of examination of yellow perch from Jamestown Reservoir and Arrowwood Lake. A trypanosome previously unrecognized in North Dakota was found.
Key Words: parasite, yellow perch

317. Forstie, M.D., and H.L. Holloway, Jr. 1984
Parasites of fish from the James and Sheyenne Rivers, Jamestown Reservoir complex, and Lake Ashtabula in North Dakota.

The Prairie Naturalist 16(1):11-20.

Parasites of fish from the James and Sheyenne River, Jamestown Reservoir complex, and Lake Ashtabula, North Dakota. Examined 520 fish from these waters in 1976 and 1977.
Key Words: parasite, James River, Sheyenne River, Lake Ashtabula

318. Forstie, M.D., H.L. Holloway, Jr. and C.E. Smith 1978
Myofibrogranuloma in North Dakota walleye, Stizostedion vitreum.

Proc. N. Dak. Acad. Sci.32 (I):44.

Found in a fish obtained from Wood Lake.
Key Words: disease, walleye, Wood Lake

319. Fourberg, J.T. 1980
Relative abundance and distribution of fishes in the lower James River, Yankton County, South Dakota, with emphasis on immature fish and gear selectivity.

M.A. Thesis, Univ. of South Dakota.
Key Words: fishes, James River, channel catfish, river carpsucker, shorthead redhorse, gizzard shad, freshwater drum, emerald shiner, red shiner

320. Fraser, J.C. 1972
Water levels, fluctuation, and minimum pools in reservoirs for fish and other aquatic resources - an annotated bibliography.

FAO Fish. Tech. Paper No. 113
Key Words: bibliography, water elevation

321. Friberg, D.V. 1972

Paddlefish abundance and harvest within a population lacking recruitment, Big Bend Dam tailwaters, 1961-71, South Dakota.
U.S. Natl. Mar. Fish. Serv., Report 4-61-R. 16 pp.
Key Words: paddlefish, Big Bend Reservoir

322. Froebel, C. 1870
Notes on some observations made in Dakota in 1864-1865.

Proc. N.Y. Lyc. Nat. Hist. 8:64-73.
Key Words: history

323. Fuchs, E.H. 1967
Life history of the emerald shiner, Notropis atherinoides, in Lewis and Clark Lake, South Dakota.

Trans. Amer. Fish. Soc. 96:247-256.

Age and growth, seasonal growth, differences in growth between areas and sexes, length-weight, reproduction, food habits, population dynamics and mortality trends.
Key Words:Lewis and Clark Reservoir, emerald shiner

324. Fuglestad, E. 1924
The life cycle of copepoda.

M.S. Thesis, University of North Dakota.

Study of duration of life and number of molts of copepoda in Devils Lake and in the laboratory.
Key Words:Devils Lake, copepoda, limnology

325. Funk, J.L., and J.W. Robinson 1974
Changes in the channel of the lower Missouri River and effects on fish and wildlife.

Missouri Dept. of Conservation, Aquatic series No. 11, Jefferson City.
Key Words:Missouri River, alteration

326. Gabel, J.A. 1974
Species and age composition of trap net catches in Lake Oahe, South Dakota, 1963-67.

U.S. Fish & Wildl. Serv. Tech. Paper No. 75, 21 pp.

The relative abundance and age composition of twenty-seven species are reported from trap net catches.
Key Words: Oahe

327. Gabel, J.A. 1974

An experimental trap net fishery, Lake Oahe, South Dakota, 1965.

U.S. Fish & Wildl. Serv. Tech. Paper, No. 82, 9 pp.

Description and catches of experimental trap nets in Lake Oahe in 1965.
Key Words:fish samples, trap net, Oahe

328. Galtsoff, P.S. 1924
Limnological observations in the Upper Missouri, 1921.

U.S. Dept. Interior, Fish & Wildl. Serv. Fish. Bull. 39:347-438.
Key Words: limnology, Missouri River

329. Garlasco, C.C., R.L. Newell, and E.A. Wells 1978
Abundance and depth distribution of zooplankton in Renner and Beaver Bays, Lake Sakakawea, North Dakota, 1976-1977.

Proc. N. Dak. Acad. Sci. 32(II):20-28.

Samples taken with a plankton trap six times during 1976-77 in a deep bay and a shallow bay.
Key Words: Sakakawea, zooplankton

330. Gasaway, C.R. 1970
Changes in the fish population in Lake Francis Case in South Dakota, in the first 16 years of impoundment.

U.S. Bur. Sport Fish. Wildl., Tech Paper No. 56, 30 pp.

Population changes for shovelnose sturgeon, gizzard shad, goldeye, northern pike, river carpsucker, smallmouth buffalo, bigmouth buffalo, carp, emerald shiner, channel catfish, black bullhead, white bass, largemouth bass, green sunfish, bluegill, white crappie, black crappie, yellow perch, walleye, sauger, freshwater drum, and miscellaneous species are reported and discussed.
Key Words:population dynamics, Francis Case Reservoir

331. Gasaway, C.R. 1971
Estimating the costs of sustained stocking of northern great plains reservoirs.

pp. 65-85 in R.J. Muncy and R.V. Bulkley (eds.), Proc. North Central Warmwater Fish Cult. Management Workshop, Iowa State Univ., Ames, Ia.
Key Words: stocking, economics

332. Gastler, G.F., and A.L. Moxon 1948
Composition of Missouri River water samples taken at monthly intervals from May 15 to September 15, 1947.

Proc. S. Dak. Acad. Sci. 27:32-35.

Results of samples taken in 1947 at Fort Pierre, S.D., analyzed for calcium, magnesium, sodium, potassium, carbonates and solids compared with samples from the James River near Redfield, S.D.
Key Words:water chemistry, Missouri River

333. Gengerke, T.W. 1972
Food habits of fish in a multispecies farm pond.

M.S. Thesis, South Dakota State University.

Food habits of yellow perch, bluegill and black crappie in 1970 and 1971, with electivity indices, number of fish and standing crop estimates.
Key Words:yellow perch, bluegill, black crappie, food habits, pond

334. Gengerke, T.W. and J.G. Nickum 1972
The plankton and benthos of Abbey Pond, 1970 and 1971.

Proc. S. Dak. Acad. Sci. 51:96-110.
Key Words: plankton, benthos, pond

335. Gengerke, T.W., J.G. Nickum and W.C. Thorn 1972
The physical-chemical limnology of a South Dakota farm pond, 1965-1971.

Proc. S. Dak. Acad. Sci. 51:111-121.
Key Words: limnology, pond

336. German, D.R., and L. Haertel 1979
The macroscopic benthos of Lake Cochrane, South Dakota.

Proc. N. Dak. Acad. Sci. 33:74 (abstract).

Bottom samples taken with an Ekman dredge; gives number of generations of principal species.
Key Words:Lake Cochrane, benthos

337. Gilbraith, D.M. 1987
Evaluation of largemouth bass and bluegill stocking strategies in South Dakota ponds.

M.S. Thesis, South Dakota State University.

An evaluation of split and simultaneous stocking of bass and bluegills. Survival, growth and reproductive success were compared and production of fathead minnows and bluegills as prey for bass are reported.
Key Words:bass-bluegill, largemouth bass, bluegill, stocking, pond

338. Gilbraith, D.M., M.J. Schwalbach, and C.R. Berry 1988
Preliminary report on the status of the pallid stgurgeon, Scaphirhynchus

albus, a candidate endangered species.

Cooperative Fish and Wildlife Research Unit, U.S. Fish and Wildlife Service. Dept. of Wildlife and Fisheries Sciences, S. Dak. State Univ., Box 2206, Brookings, S.D. 57007.

Extensive (76 pp.) review of status of pallid sturgeon, with emphasis on the Missouri River.
Key Words:pallid sturgeon, status

339. Gillespie, D.M. 1966
Population studies of four species of mollusks in the Madison River, Yellowstone National Park.

Montana State University.
Key Words: molluska, Madison River

340. Girard, C. 1858
The fishes of the Pacific Railroad Surveys.

Pacific Railroad Report VI(4):9-34 and X:1-400.

Report on a collection of fish from the Missouri River near Ft. Union.
Key Words: fishes, Missouri River

341. Gloss, S.P. 1969
Water quality changes under ice cover in northern prairie lakes.

M.S. Thesis, South Dakota State University.
Key Words: winter, water quality

342. Glover, R.D. 1968
An experimental stocking of smallmouth bass in peripheral Black Hills streams, 1968.

Dingell-Johnson Report 68-9, F-15-R-3 (Job 3). S. Dak. Dept. of Game, Fish and Parks.
Key Words:smallmouth bass, Black Hills

343. Gordon, R.D., and R.L. Post. 1965
North Dakota water beetles.

North Dakota Insects, Publ. No. 5, Dept. of Entomology, North Dakota State University, Fargo, N.D.
Key Words:water beetles, North Dakota

344. Gould, G., and J.C.S. Schmulbach 1973
Relative abundance and distribution of fishes in the Missouri River, Gavins Point Dam to Rulo, Nebraska.

Final Report, Missouri River Inventory, U.S. Army Corps of Engineers, Omaha District, Omaha, Nebraska. 60 pp.
Key Words: fishes, Missouri River, Gavins Point Dam

345. Gould, G.R. 1975
Macroinvertebrate Aufwuchs communities on natural substrates in the unchannelized Missouri River, South Dakota.

M.A. Thesis, Univ. of South Dakota.

Study made downstream from Gavins Point Dam near Vermillion, SD.
Key Words: aufwuchs, limnology, unchannelized

346. Gould, W.R. 1969
First record of the trout-perch, Percopsis omiscomaycus, from Montana.

Proc. Mont. Acad. Sci. 29:51.

Twenty were collected from lower St. Marys Lake (Saskatchewan drainage) Glacier County, Montana,in July, 1968.
Key Words: trout-perch

347. Gould, W.R. 1979
The identity of Hybognathus nuchalis (Cyprinidae) in Montana.

Proc. Mont. Acad. Sci. 38:11-12.

The species formerly known as Hybognathus nuchalis in Montana now is designated as H. argyritis.
Key Words:Mississippi silvery minnow, western silvery minnow

348. Gould, W.R. 1981
First records of the rainbow smelt (Osmeridae), sicklefin chub (Cyprinidae) and white bass (Percichthyidae) from Montana.

Proc. Mont. Acad. Sci. 40:9-10.

Smelt were first collected in the Missouri River in Montana in 1979, and were later taken 1.6 km. below Ft. Peck dam and in the Yellowstone River just below the intake. White bass were taken in the lower Yellowstone. Both species were thought to stem from introductions into Lake Sakakawea. The sicklefin chub is considered native.
Key Words:rainbow smelt, sicklefin chub, white bass, fishes

349. Gould, W.R., and C.J.D. Brown 1966
The distribution of Hybognathus (Cyprinidae) in Montana.

Proc. Mont. Acad. Sci. 26:54-56.

Distribution of the brassy minnow Hybognathus hankinsoni, Hubbs, the plains minnow, H. placitus, Girard, and the silvery minnow, H. nuchalis, Agassiz, in the Missouri and Yellowstone Rivers in central and eastern Montana reviewed from University of Montana collections.
Key Words:brassy minnow, plains minnow, silvery minnow, Montana

350. Gould, W.R., and C.J.D. Brown 1968
Fishes of the genus Semotilus (Cyprinidae) from Montana.

Copeia 1968(3):628-629.

Gives distribution of creek chub (S. atromaculatus) and pearl dace (S.margarita) in Missouri River drainage in Montana.
Key Words:creek chub, pearl dace

351. Graham, K., and P. Bonislawsky 1978
An indexed bibliography of the paddlefish (Polyodon spathula).

Missouri Dept. of Conservation, Columbia, Mo.
Key Words: paddlefish, bibliography

352. Graham, L.K. 1966
Limnology of three farm ponds in south-central South Dakota.

M.S. Thesis, South Dakota State University.

Limnological study, no fish data.
Key Words: limnology, ponds

353. Graham, L.K., E.J. Hamilton, T.R. Russell and C.E. Hicks 1986
The culture of paddlefish - a review of methods.

pp. 78-94 in J.G. Dillard, L.K. Graham, and T.R. Russell, eds. The Paddlefish: Status, Management and Propagation. Amer. Fish. Soc., N.C. Div., Spec. Publ. 7, Columbia, MO.
Key Words:fish culture, paddlefish

354. Graham, P.J., R.F. Penkal, and L.G. Peterman 1979
Aquatic studies of the Yellowstone River.

Bur. Reclamation Report No. REC-ERC-79-8. 80 pp.
Key Words:Yellowstone River

355. Graham, R.J. 1961
Biology of the Utah chub in Hebgen Lake, Montana.

Trans. Amer. Fish. Soc. 90(3):269-276.

Hebgen Lake is on Madison River a tributary of the Missouri River upstream from Lake Sakakawea.
Key Words:Utah chub, Hebegen Lake

356. Greichus, Y.A., M.R. Hannon, A.C. Fox and R.L. Applegate 1969
Survey of pesticide residues in the Lake Poinsett ecosystem.

Proc. S. Dak. Acad. Sci. 48:157-162.

Results of analyses of flesh of several fish species, plankton and two species of fish-eating birds.
Key Words:Lake Poinsett, pesticide

357. Gries, J.P. 1971
Hydrogen ion concentration in surface and underground waters, Black Hills, South Dakota.

Proc. S. Dak. Acad. Sci. 50:57-60.
Key Words:water chemistry, Black Hills

358. Gries, J.P., D.W. Niven, and T.J. Crooks 1968
Recharge of the Pahasapa limestone aquifer from stream losses.

Proc. S. Dak. Acad. Sci. 47:56-61.
Key Words:Black Hills

359. Groen, C.L. 1973
A creel census survey of the Missouri River sport fishery.
M.A. Thesis, University of South Dakota, Vermillion.
Key Words:creel survey, Missouri River

360. Groen, C.L., and J.C. Schmulbach 1978
The sport fishery of the unchannelized and channelized Middle Missouri River.

Trans. Amer. Fish. Soc. 107(3):412-418.

Results of sport fishery survey and creel census from Gavins Point Dam to Rulo, Nebraska. This stretch of river included three types of habitat; the tailrace of the dam, a section of unchannelized river, and a section of channelized river. Comparisons of catches and fishing effort in the various habitats are made.
Key Words: channelized, unchannelized

361. Grondahl, C.R. 1978
North Dakota endangered and threatened species list.

N. D. Chapter Wildl. Soc., Draft mimeo. Report, 18 pp.
Key Words: endangered, threatened

362. Grover, J.H. 1969
Feasibility of introducing coldwater fish into Lake Sharpe, South Dakota.

Ph.D. Thesis, Iowa State University, Ames.
Key Words:Lake Sharpe, salmonids

363. Guthrie, P.A., R.L. Newell and E.A. Wells 1978
Benthic macroinvertebrates of the Renner-Beaver Bay area, Lake Sakakawea, North Dakota.

Proc. N. Dak. Acad. Sci. 32(II):10-19.

Samples were taken in 1976 and 1977 with a Ponar grab. Results indicated a slightly eutrophic condition, but generally good water quality.
Key Words: benthos, Sakakawea

364. Guy, C.S. 1990
Population dynamics of largemouth bass and panfish in South Dakota ponds.

M.S. Thesis, South Dakota State University.
Key Words:largemouth bass, panfish, pond

365. Guy, C.S., E.A. Bettross and D.W. Willis 1989
A proposed standard weight (Ws) equation for sauger.

S. Dak. Dept. of Game, Fish and Parks. Fisheries Completion Report 89-8.
Key Words:standard weight, sauger

366. Guy, C.S., E.A. Bettross and D.W. Willis 1990
A proposed standard weight (Ws) equation for sauger.

The Prairie Naturalist 22(1):41-48.
Key Words:standard weight, sauger

367. Haddix, M.H. and C.C. Estes 1976
Lower Yellowstone River fishery study.

Final Report to U.S. Bureau of Reclamation by Montna Dept. of Fish and Game, Helena. 81 pp.
Key Words:Yellowstone River, fishes

368. Hadley, W.D. 1982
Draft environmental impact statement on the proposed introduction of forage fish into Fort Peck Reservoir.

Montana Dept. of Fish, Wildlife and Parks.
Key Words:Fort Peck Reservoir, introduction, environmental impact

369. Haertel, L. 1972
Ecological factors influencing the production of algae in northern prairie lakes.

U.S. Office of Water Resources Tech., Completion Report A-028-S. Dak.
Key Words: algae

370. Haertel, L. 1976
Nutrient limitations of algal standing crops in shallow prairie lakes.

Ecology 57(4):664-678.

Nutrient levels, algal standing crops related to circulation of bottom sediments by wind.
Key Words: algae, nutrients

371. Haertel, L. 1977
Effects of zooplankton grazing on nuisance algal blooms.

U.S. Office of Water Resources Technology. Completion Report A-047-S. Dak.
Key Words: zooplankton, algae

372. Haertel, L. 1977
Comparative eutrophication and production measurements in prairie lakes.

Proc. S. Dak. Acad. Sci. 56:105-124.

Results of trophic status evaluations in Enemy Swim, Pickerel, Cochrane, Hendricks, Blue Dog and Bitter Lakes in eastern South Dakota in 1974 and 1975.
Key Words: nutrients, productivity, Enemy Swim Lake

373. Haertel, L. 1979
Impact of zooplankton grazing on prairie lake algal standing crops and water transparency.

Proc. N. Dak. Acad. Sci. 33:13 (abstract)

Results of experiments in polyethylene containers and gut examinations of grazing zooplankton in eastern South Dakota.Suggests that algal blooms may be partially subject to control by zooplankton.
Key Words: algae, zooplankton

374. Haertel, L. and D. Jongsma 1982
Effect of winterkill on the water quality of prairie lakes.
Proc. S. Dak. Acad. Sci. 61:134-151.

Transparency, water chemistry, algal and zooplankton abundance were studied following winterkills and winters of no winterkills.
Key Words: winterkill, water quality, algae, zooplankton

375. Hagen, H.K. 1955
Creel census and fish population studies in the Black Hills.
Dingell-Johnson Report 55-6 (Job 7). S. Dak. Dept of Game, Fish and Parks.
Key Words:Black Hills, creel survey

376. Hahn, D.R. 1972
Cage culture of black bullheads, Ictalurus melas (Rafinesque), in North Dakota.

M.S. Thesis, University of North Dakota, also North Dakota Game & Fish Dept., Dingell-Johnson Division, Report No. 1310.

Final report in this study of feasibility of commercial rearing of black bullheads in cages in North Dakota. Cage culture was not considered profitable here because of low market value and poor food conversion. Water temperatures were an important factor.
Key Words:black bullhead, cage culture

377. Hahn, D.R. 1974
The biological and economic aspects of cage rearing rainbow trout, Salmo gairdneri Richardson, in North Dakota.

Ph. D. Thesis, University of North Dakota, also North Dakota Game & Fish Dept., Dingell-Johnson Division, Report No. 1324.

Rainbow trout were fed comercial fish food and reared in floating cages in the summers of 1972 and 1973 in Gravel and Hooker Lakes in the Turtle Moutains. Fish were fed at controlled percentage of body weight and controlled densities. Records of temperatures, mortality, growth food conversion, flesh analyses and results of taste tests are presented. Cost analyses and returns on investments were computed. It was indicated that commercial cage rearing of rainbow trout in North Dakota would be uneconomic or marginal at best.
Key Words:rainbow trout, cage culture

378. Hall, C.B. 1982
Movement and behavior of walleye, Stizostedion vitreum vitreum (Mitchill), in Jamestown Reservoir, North Dakota, as determined by biotelemetry.

M.S. Thesis, University of North Dakota, also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. A-1088.

Study of movements and depth preferences of walleye in Jamestown Reservoir in 1980 and 1981. Radiotags were implanted in body cavity of the fish in 1980, but the range proved insufficient. Ultrasonic tags were implanted in 1981 and seven walleyes were successfully

tracked.
Key Words: biotelemetry, walleye, Jamestown Reservoir

379. Hall, G.E., and M.J. Van Den Avyle, eds. 1986
Reservoir Fisheries Management Strategies for the 80's

Proceedings of a symposium held in Lexington, Ky., June 13-16, 1983.
Reservoir Committee, Southern Division, Amer. Fish. Soc.

Major reference source for reservoir fisheries research and management.
Key Words:fisheries management, reservoirs

380. Halseth, R.A., and D.W. Willis 1989
Unusually high condition of black crappies in the Sand Lake National Wildlife Refuge, South Dakota.

The Prairie Naturalist.

Sand Lake refuge is on the James River in north-east South Dakota. High condition of crappies was attributed to periodic winterkill and no fishing.
Key Words:black crappie, condition, winterkill

381. Halseth, R.A., D.W. Willis and B.R. Murphy 1990
Proposed standard weight (Ws) equation for inland chinook salmon.

Progress Report No. 90-7, South Dakota Dept. of Game, Fish and Parks, Pierre, S.D.
Key Words:standard weight, chinook salmon

382. Hamilton, E.W. 1959
Review of Ephemeridae (Ephemeroptera) in the Missouri River watershed with a key to the species.

Iowa State Jour. Sci. 33:443-474.
Key Words:Missouri River, ephemeridae

383. Hammer, D.A. 1968
Snapping turtle life history on Lacreek Refuge, South Dakota.

M.S. Thesis, South Dakota State University.
Key Words:snapping turtle, life history, Lacreek Refuge

384. Hankinson, T.L. 1929
Fishes of North Dakota.

Papers, Mich. Acad. Sci., Arts and Letters X(1928):439-460.

The only ichthyological survey of North Dakota previous to this one was

Woolman, 1896 - Woolman also includes the Red River. Says that Red River tributaries in Minnesota are different than in North Dakota, clearer with bottoms of sand, while N. D. tributaries of the Red River are mud. Has annotated list of 57 species collected from N.D. plus a further annotated list of 17 species that have been collected in waters adjacent to or connecting with North Dakota waters that might occur in North Dakota.
Key Words: fishes, Red River, Devils Lake, Missouri River

385. Hannon, M.R. 1969
Ecological and trophic distribution of pesticides in Lake Poinsett, South Dakota.

M.S. Thesis, South Dakota State University.

Insecticide residues were measured in water, bottom sediment, zooplankton, benthic algae, crayfish and fish.
Key Words:Lake Poinsett, pesticide, pollution

386. Hannon, M.R., Y.A. Greichus,
R.L. Applegate, and A.C. Fox 1970
Ecological distribution of pesticides in Lake Poinsett, South Dakota.

Trans. Amer. Fish. Soc.99(3):496-500.

Results of analyses of water, bottom sediments, zooplankton, benthic algae, crayfish, aquatic insects and fish for a wide array of pesticides.
Key Words:Lake Poinsett, pesticide, pollution

387. Hansen, D.R. 1971
Stream channelization effects of fishes and bottom fauna in the Little Sioux River, Iowa.

pp. 29-51 in E. Schneberger and J. Funk, eds., Stream Channelization, a Symposium. North Central Division, Amer. Fish. Soc., Spec. Publ. No. 2.
Key Words: fishes, benthos, channelized

388. Hansen, D.R. and R.J. Muncy 1971
Effects of stream channelization on fishes and bottom fauna in the Little Sioux River.

Completion Report of Project No. A-035-1A. Iowa State Water Resources Research Inst., Ames, Iowa.
Key Words: fishes, benthos, channelized

389. Hansen, M.D. 1975
The seasonal diversity of microorganisms in channelized and unchannelized portions of the Missouri River.

M.A. Thesis, University of South Dakota, Vermillion, S.D. 130 pp.

Study in the Missouri River between Gavins Point Dam to Rulo, Nebraska. Primarily on diatoms and protozoa.
Key Words: channelized, unchannelized, diatoms, protozoa

390. Hansen, M.D. and R.D. Dillon 1973
Measurements of the species diversity of planktonic and microbenthic organisms.

Missouri River Environmental Inventory, Final Report. Dept. of Biol., Univ. of South Dakota, Vermillion. 120 pp.
Key Words: plankton, benthos, Missouri River

391. Hansen, M.D. and R.D. Dillon 1974
The diversity of microorganisms in channelized and unchannelized portions of the Missouri River.

Proc. S. Dak. Acad. Sci., 53:254-259.

A comparison of plankton and benthic microorganisms in the channelized and unchannelized portions of the Missouri River between tailwaters of Gavins Point Dam and Rulo, Nebraska in 1972 and 1973.
Key Words: microorganisms, channelized, unchannelized, Missouri River

392. Hanson, B.A. and G.A. Swanson 1987
The aquatic coleoptera of Cottonwood Lake wetlands.

Proc. N. Dak. Acad. Sci. 41:30.

Beetle collections from study area in Stutsman County.
Key Words: coleoptera, benthos

393. Hanson, D.A. 1978
Chemical and physical characteristics of the James River from Arrowwood Refuge to the outflow of Jamestown Dam, North Dakota.

M. S. Thesis, N. Dak. State Univ.

A study of chemical and physical characteristics of water entering and flowing through the Arrowwood Refuge Lakes and flowing though the Jamestown Reservoir in 1975 and 1976.
Key Words: Arrowwood, Jamestown Reservoir, limnology

394. Hanzel, D.A. 1959
The distribution of the cutthroat trout (Salmo clarki) in Montana.

Proc. Mont. Acad. Sci. 19:32-71.

A detailed report with maps. This species is rarely found in the mainstem of the Missouri River. It is largely confined to parts of most

primary drainages of the river from Three Forks to the mouth of the Musselshell. It occurs frequently in the Yellowstone River for about 90 miles downstream from Yellowstone Park.
Key Words:cutthroat trout, Montana

395. Harberg, M.C. 1984
Feeding behavior, food consumption, growth, and survival of hybrid grass carp (Hypophthalmichthys nobilis X Ctenopharyngodon idella) in South Dakota.

M.S. Thesis, South Dakota State University.

Plant preference, feeding behavior, daily consumption, growth and survival evaluated at Gavins Point National Fish Hatchery, Yankton, South Dakota.
Key Words:grass carp, food

396. Harberg, M.C., and T. Modde 1985
Feeding behavior, food consumption, growth and survival of hybrid grass carp in two South Dakota ponds.

N. Amer. Jour. of Fish. Management 5(3B):457-464.

Gives results of field observations in selectivity for various aquatic plant species. Hybrids were less effective in controlling aquatic plants than grass carp.
Key Words:grass carp, food

397. Harris, S.C. and R.B. Carlson 1977
Distribution of hydropsychidae (Trichoptera) in sandhill streams of North Dakota.

Proc. N. Dak. Acad. Sci. 31(II):23-27.

Collections in tributaries of Sheyenne River in southeastern North Dakota.
Key Words: hydropsychidae, Trichoptera, benthos

398. Harrison, H.M., and E.B. Speaker 1954
An annotated list of the fishes in the streams tributary to the Missouri River in Iowa.

Proc. Iowa Acad. Sci. 61:511-523.
Key Words: Iowa, fishes

399. Harrold, J.F., Jr. 1978
Relation of sample variations to plate orientation in the Hester-Dendy plate sampler.

Prog. Fish. Cult. 40(1):24-25.

Study made in Knife River near Stanton, S.D., indicated that orientation of

Hester-Dendy sampler affected results.
Key Words:Hester-Dendy, sampling equipment, limnology, Knife River

400. Harrow, L.G., I. Cherko, and A.B. Schlesinger 1975
Seasonal and distributional patterns of ichthyoplankton in the Missouri River.

Environ. Sci. Bull. 1, Omaha Publ. Power Dist., Omaha, NB. 19 pp.
Key Words: ichthyoplankton, Missouri River

401. Harrow, L.G., R.C. King, Q.P. Bliss and P.A. Kline 1977
The effects of entrainment and impingement at the Fort Calhoun Station on the fisheries of the channelized Missouri River.

Environmental Series Bulletin 3. Omaha Public Power District, Omaha, NE
Key Words: entrainment, impingement

402. Harrow, L.G., and A.B. Schlesinger 1974
Impingement of Missouri River fish at Ft. Calhoun nuclear power station.

Proc. Nebr. Acad. Sci. 84:9 (abstract)

Gives summary of fish impacted on screens during sample periods in 1973.
Key Words: impingement

403. Harrow, L.G., and A.B. Schlesinger 1980
The larval fish recruitment study.

Omaha Public Power District, Omaha, NB. 92 pp.
Key Words:fish larvae

404. Hartung, J.V. 1968
An investigation of the littoral macrobenthos of Lake Kampeska, Codington County, South Dakota.

M.A. Thesis, Univ. of South Dakota.
Key Words: benthos, Lake Kampeska

405. Hassler, T.J. 1969
Biology of the northern pike in Oahe Reservoir, South Dakota, 1959 through 1965.

Tech. Paper 29, U.S. Bureau of Sport Fisheries and Wildlife, 12 pp.

Catches were dominated by the 1959 and 1962 year classes; the 1964 year class was missing. Since impoundment, large year classes have been associated with a rise in water level above previous high levels in spring and continuation of the higher level through early summer.

Key Words: Oahe, northern pike, water levels

406. Hassler, T.J. 1970
Environmental influences on early development and year-class strength of northern pike in Lakes Oahe and Sharpe, South Dakota.

Trans. Amer. Fish. Soc. 99(2):369-375.

Ova and larval stages of northern pike in Lakes Oahe and Sharpe were killed by sudden drops in temperature. Good year classes were associated with stable to rising water levels and temperature and calm weather.
Key Words: Oahe, Lake Sharpe, northern pike, water levels

407. Hatcher, M.P., J.K. Neel, J.F. Erdei and H.O. Hartung 1958
Effects of Missouri River basin control on water quality.

Jour. Amer. Water Works Assoc. 50(9):1185-1200.
Key Words:water allocation, stream flow, water quality

408. Hauber, A.B. 1970
Phytoplankton dynamics of two northern prairie lakes and possible relations to dissolved nutrients.

M.S. Thesis, South Dakota State University.
Key Words: phytoplankton, limnology, nutrients

409. Hausle, D.A. 1976
The introduction of selected fish species into the Missouri River reservoirs of South Dakota.

S. Dak. Dept. of Game, Fish and Parks F-15-R-11
Key Words: introduction, reservoirs

410. Havey, K.A. 1973
Effects of a smelt introduction on growth of landlocked salmon at Schoodic Lake Maine.

Trans. Amer. Fish. Soc. 102(2):392-397.

Smelt (Osmerus mordax) introduction increased growth rate and size of Atlantic salmon in Maine.
Key Words:rainbow smelt, Atlantic salmon

411. Hayden, F.W. 1863
On the geology and natural history of the upper Missouri.

Trans. Amer. Phil. Soc. 12:1-218

Key Words: history, geology

412. Hayden, J.F. 1972
A limnological investigation of a meromictic lake (Medicine Lake, South Dakota) with special emphasis on pelagic primary productivity.

M. A. Thesis, Univ. of South Dakota.
Key Words: limnology, primary productivity

413. Heimstra, N.W., D.K. Damkot, and N.G. Benson 1969
Some effects of silt turbidity on behavior of juvenile largemouth bass and green sunfish.

Tech. Paper 20 of the U.S. Bureau of Sport Fisheries and Wildlife.

Results of observations in aquaria under clear water and 4-6 JTU(Jackson Turbidity Units) and 14-16 JTU for 30 days.
Key Words: turbidity, largemouth bass, green sunfish

414. Held, J.W. 1966
The food habits of the shovelnose sturgeon, Scaphirhynchus platorhynchus (Rafinesque), in the Missouri River.

M.A. Thesis, Univ. of South Dakota.

Sturgeon were collected from upstream end of Lewis and Clark Reservoir and in the unaltered Missouri River about 23 miles downstream from Gavins Point Dam.
Key Words:shovelnose sturgeon, Lewis and Clark Reservoir, food habits, Missouri River

415. Held, J.W. 1969
Some early summer foods of the shovelnose sturgeon in the Missouri River.

Trans. Amer. Fish. Soc. 98(3):514-517.

Studies made in the Missouri River upstream and downstream from Gavins Point Reservoir.
Key Words:Gavins Point Reservoir, shovelnose sturgeon, food

416. Held, J.W. 1971
Some ecological aspects of the fathead minnow, Pimephales promelas R., in North Dakota saline lakes.

Ph.D. Thesis, N. Dak. State Univ., Fargo, N.D.

Study done in ten alkaline lakes in Kidder County and Stutsman County. Water chemistry of the pothole lakes, general life history, food habits and age and growth of minnows reported, also includes some data on parasitism.

Key Words:pothole lakes, alkaline, water chemistry, fathead minnow, parasite

417. Held, J.W., and J.J. Peterka 1974
Age, growth and food habits of the fathead minnow, Pimephales promelas, in North Dakota saline lakes.

Trans. Amer. Fish. Soc. 103(4):743-756.

Microcrustacea were the most important food of fathead minnows, which were abundant in 9 or 10 saline lakes in south central North Dakota. Most fathead minnows matured and spawned during their second summer and then died, only one in 2100 that were aged had three annuli. Length-weight relationship of the minnows and parasitism by Ligula intestinalis are reported.
Key Words:fathead minnow, age and growth, food habits, parasite

418. Helms, D.R. 1975
Variations in the abundance of channel catfish year classes in the Upper Missouri River and causative factors.

Iowa Fisheries Research Technical Series 75-1.
31 pp.
Key Words:channel catfish, year class, Missouri River

419. Hembree, C.H., R.A. Krieger and P.R. Jordan 1964
Chemical quality of surface waters, and sedimentation in the Grand River drainage basin, North and South Dakota.

U.S. Geolog. Surv., Water-Supply Paper No. 1769.
Key Words:Grand River, water chemistry, sedimentation

420. Henderson, N.E., and R.E. Peter 1969
Distribution of fishes of Southern Alberta.

Jour. Fish. Res. Board Canada 26(2):325-328.

Documented review of fish distribution in drainages including Milk River, a tributary of the Missouri River upstream from North Dakota.
Key Words:Milk River, fishes

421. Hendrickson, J.C. 1990
Salinity and fish reproduction in the Devils Lake Basin, North Dakota.

M.S. Thesis, N. Dak. State Univ.
Key Words:Devils Lake, salinity, reproduction

422. Henegar, D.L. 1958
A summary of eight years of chemical fish control in North Dakota.

North Dakota Game and Fish Department. 9 pp.
Key Words:fish control

423. Henegar, D.L. 1961
Determination of minimum lethal levels of toxaphene as a piscicide in lakes of North Dakota.

M.S. Thesis, South Dakota State University

Results of treatments of 16 lakes in North Dakota with various concentrations of toxaphene in 1959 and 1960.
Key Words:fish control, toxaphene

424. Henegar, D.L. 1966
Minimum lethal levels of toxaphene as a piscicide in North Dakota lakes.

U.S. Fish and Wildlife Serv., Investigations in Fish Control, Resource Publ. No. 7. pp. 1-16.

Sixteen lakes were treated with concentrations of toxaphene ranging from 0.005 to 0.035 ppm and results determined by test netting for fish before and after treatment. Size, depth, volume and basic chemical parameters reported.
Key Words:fish control, toxaphene

425. Henegar, D.L. 1969
"Swimmers Itch."

North Dakota Outdoors. 31(12):22-23.

Popular article on cause of swimmers itch, control of snail host and other protective measures.
Key Words: parasite, swimmers itch

426. Henegar, D.L. 1972
Trout rearing in North Dakota.

North Dakota Outdoors. 34(10):18-21.

Non-technical description of aspects in trout rearing in North Dakota including stocking ratios, transportation, selection of waters, water chemistry, dissolved oxygen, water temperature, bottom types, production per acre, sources of trout and expected costs and returns.
Key Words:rainbow trout, fish culture

427. Henegar, D.L. 1982
International Joint Commission - Biology Study Committee Summary.

in Symposium on implications of Garrison Diversion Unit, Proc. N. Dak. Acad.

Sci. 36:21.

One page summary of waterfowl and fisheries affected by the Garrison Diversion Unit.
Key Words:Garrison Diversion, fisheries

428. Henegar, D.L., and D.C. Duerre 1964
Modified California fish distribution units for North Dakota.

Prog. Fish. Cult. 26(4):188-190.

Describes fish distribution unit used in North Dakota as modified from Macklin, R., 1959. in Prog. Fish. Cult. 21(2):81-85.
Key Words: hatchery, stocking

429. Henley, D.T. 1981
Movement and distribution of esocids and forage fishes in a power plant cooling reservoir.

M.S. Thesis, South Dakota State University.

Fish movement study with ultrasonic tags at Big Stone Power Plant cooling reservoir.
Key Words:Big Stone, esocidae, forage fish

430. Henley, D.T. and R.L. Applegate 1982
Seasonal distribution of esocids in a power plant cooling reservoir.

Prog. Fish. Cult. 44:40-41.

Distribution of northern pike and muskellunge implanted with ultrasonic transmitters in summer, fall, winter and spring in Big Stone Power Plant cooling reservoirs.
Key Words:Big Stone, northern pike, muskellunge, ultrasonic

431. Henningson, Durham and Richardson 1976
Analysis of impingement at Fort Calhoun Station.

Supplement No. 1 to the Fort Calhoun Unit No. 2 Environmental Report. Report to the Omaha Public Power District, Omaha, NE. Henningson, Durham and Richardson, Santa Barbara, CA. 35 pp.
Key Words: impingement

432. Henshall, J.A. 1906
A list of the fishes of Montana with notes on the game fishes.

Bull. Univ. of Montana No. 34, Biol. Series No. 11:1-10.
Key Words: Montana, fishes

433. Hern, S.C., V.W. Lambo, F.A. Morris, M.K. Morris,
W.D. Taylor and L.R. Williams 1979
Distribution of phytoplankton in South Dakota lakes.

Environmental Monitoring and Support Laboratory, Office of research and Development, U.S. EPA, Las Vegas, Nevada.
Key Words: limnology, phytoplankton

434. Hesse, L.W. (ed.) 1982
The Missouri River channel catfish - 1974 to the present.

Nebr. Tech. Series, No. 11, 81 pp. Nebr. Game and Parks Commission, Norfolk, NE.
Key Words:channel catfish, Missouri River

435. Hesse, L.W. 1987
Taming the wild Missouri River: what has it cost.

Fisheries 12(2):2-9.

Significant legislation authorizing alteration of the Missouri River is reviewed and dollar costs outlined. Questions are raised about lost riverine resources and alternatives to impoundment and channelization are discussed.
Key Words:Missouri River, channelization

436. Hesse, L.W., Q.P. Bliss and G.J. Zuerlein 1982
Some aspects of the ecology of adult fishes in the channelized Missouri River with special reference to the effects of two nuclear power generating stations.

pp. 225-276 in L.W. Hesse, et al., The Middle Missouri River, The Missouri River Study Group. Box 934, Norfolk NE, 68701.

Gives relative abundance, movement of tagged fish, impingement data and length-weight of more common fish species in river near the nuclear plants. Fecundity determinations, food habits and standing crops of certain species are given.
Key Words:Missouri River, marking and recovery, movement, age and growth

437. Hesse, L.W., G.R. Chaffin and J. Brabander 1989
Missouri River mitigation: a system approach.

Fisheries 14(1):11-15

Mitigation of effects of channelization.
Key Words:Missouri River, channelization

438. Hesse, L.W., G.L. Hergenrader,, H.S. Lewis,
S.D. Reetz and A.B. Schlesinger, (eds.) 1982

The Middle Missouri River. A collection of papers on the biology with special reference to Power Station effects.

The Missouri River Study Group. c/o Larry W. Hesse, Norfolk, NE 68701.

A collection of eleven papers on biology of the Missouri River with emphasis on power staion effects. There are chapters on hydrologic operations, water quality, phytoplankton, periphytic algae, zooplankton, macroinvertebrates, larval fishes and adult fishes.
Key Words:Missouri River, environmental impact, power plant

439. Hesse, L.W., and G.E. Mestl 1986
Unchannelized Missouri River secondary production studies.

Unpublished Report. Nebr. Game and Parks Commission, Norfolk, NE.
Key Words: unchannelized, production

440. Hesse, L.W., and B.A. Newcomb 1982
Effects of flushing Spencer Hydro on water quality, fish and insect fauna in the Niobrara River, Nebraska.

N. Amer. Jour. of Fishery Mgt. 2(1):45-52.
Key Words:Niobrara River, water quality

441. Hesse, L.W., and B.A. Newcomb 1982
On estimating the abundance of fish in the upper channelized Missouri River.

N. Amer. Jour. Fishery Mgt. 2(1):80-83.

Good estimates of numbers of carp, river carpsucker, freshwater drum, goldeye, bigmouth buffalo, northern pike and channel catfish marked and recovered by electrofishing in 1979 and 1980 near Blair, Nebraska and in 1980-1981 near Tekamah, Nebraska.
Key Words:Niobrara River, population estimate, marking and recovery, Missouri River

442. Hesse, L.W., B. Newcomb and J. Klammer 1980
Missouri River fishes and estimates of abundance..

Project Report No. 2-359-R-1 (NOAA) Nebraska Game and Parks Commission, Lincoln, NE
Key Words:population estimate, Missouri River

443. Hesse, L.W., A.B. Schlesinger, G.L. Hergenrader, S.D. Reetz, and H.S. Lewis 1982
Assessment of nuclear power plant effects on Missouri River biota, including a future river research rationale.

pp. 279-284 in L.W. Hesse, et al., The Middle Missouri River. The Missouri

River Study Group. Box 934, Norfolk, NE 68701.
Key Words:heated effluent, environmental impact

444. Hesse, L.W., J.C. Schmulbach, J.M. Carr, K.O. Keenlyne, D.G. Unkenholz, J.W. Robinson and G.E. Mestl 1989
Missouri River resources in relation to past, present and future stresses.

In D.P. Dodge, ed., Proceedings of the International Large River Symposium. Can. Spec. Publ. Fish. Aquat. Sci. 99
Key Words:environmental impact

445. Hesse. L.W., and C. Wallace 1976
The effects of cooling water discharges from Fort Calhoun and Cooper Nuclear Stations on the fishes of the Missouri River.

Unpubl. Ms., Nebr. Game & Parks Comm., Lincoln, NE 377 pp.
Key Words:heated effluent, environmental impact

446. Hesse, L.W., C.R.Wallace, and L. Lehman 1978
Fishes of the channelizeed Missouri River, age-growth, length-frequency, length-weight, coefficient of condition, catch curves and mortality of 25 species of channelized Missouri River fishes.

Nebraska Technical Series 4. Nebraska Game and Parks Commission, Norfolk, NE.
Key Words: channelized, age and growth, Missouri River

447. Hesse, L.W., C.W. Wolfe and N.K. Cole 1986
Biological aspects of the unchannelized Missouri River and its habitats.

Forty-eighth Midwest Fish and Wildlife Conference, Omaha, NE.
Key Words: unchannelized, Missouri River

448. Hesse, L.W., L. Zadina, R. Winter, L.A. Retelsdorf, and B. Newcomb 1979
Evaluation of the influence of tributaries to the Missouri River commercial fishery.

Unpublished final report, NOAA Project 2-283-R. Nebraska Game and Parks Commission, Norfolk, NE.
Key Words:commercial fishery

449. Hesse, L.W., G. Zuerlein, R. Vancil, L. Koziol, B. Newcomb, and L.A. Retelsdorf 1979
Niobrara-Missouri River fishery investigation.

Nebraska Technical Series 5. Nebraska Game and Parks Commission, Norfolk, NE.
Key Words:Niobrara River, fishery

450. Hey, J. and R. Baldwin 1974
Aquatic ecology study (Post-operational survey, Neal II) of the Missouri River near the George Neal Station.

Report for the Iowa Public Service Company, Briar Cliff College.
Key Words:Niobrara River, fishery

451. Hibbard, E.A. 1972
Vertebrates of the Missouri Valley of North Dakota.

Ph.D. Dissertation, N. Dak. State University
Key Words:power plant, aquatic ecology

452. Hieb, R.N. 1968
Observations on the life history of the goldeye, Hiodon alosoides (Rafinesque), in Moccasin Bay on the Little Missouri Arm, Garrison Reservoir, North Dakota.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. 1303.

Length-weight, age and growth, sex ratios and age at which sexual dimorphism appeared were studied. Spawning location, time and temperature were determined. Bothriocephalus cuspidatus Cooper, a parasitic helminth was found in the alimentary tract of 30 goldeye.
Key Words: Sakakawea, goldeye, age and growth, parasite

453. Higham, J.R. 1974
The commercial fishery in Lake Oahe, North and South Dakota, 1964-70.

U. S. Fish and Wildl. Serv. Tech paper No. 80. 15 pp.

Ten species are harvested in Oahe. The most important is bigmouth buffalo (63.8% of the total weight). Smallmouth buffalo ranked second and goldeye third. River carpsucker, and carp followed. Paddlefish, freshwater drum, channel catfish, blue sucker, and flathead catfish made up 3.8% of the total.
Key Words: Oahe, commercial fishery

454. Hildebrand, D.C. 1967
A survey of the commercial fisheries on the mainstem reservoirs of the upper Missouri River system.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. 1301.

A survey in 1966 of all commercial fisheries in Ft. Peck Reservoir, Lake Sakakawea, Lake Oahe, and Ft. Randall Reservoir. Methods of fishing, species caught, equipment and gear used, seasons, catch per unit of effort, licence requirements, habitats, costs and economics, markets, records required and problems were determined

from visits and interviews.
Key Words:commercial fishery, Sakakawea, Fort Peck Reservoir, Oahe, Fort Randall Reservoir

455. Hildebrand, S.F. 1932
On a new cyprinoid from South Dakota.

Jour. Wash. Acad. Sci. 22(9):258-260.
Key Words: cyprinidae

456. Hill, K.R. 1970
Feeding of black bullheads, Ictalurus melas (Rafinesque) in experimental cages.

M.S. Thesis, South Dakota State University.

Experiment to see if black bullheads could be grown economically in South Dakota and to determine mortality, growth and costs.
Key Words:fish culture, black bullhead

457. Hill, W.J. 1965
Observations on the life history and movement of the goldeye, Hiodon alosoides in Montana.

M.S. Thesis, Montana State Univ.
Key Words:life history, goldeye, Missouri River, Montana, Yellowstone River

458. Hill, W.J. 1966
Observations on the life history and movement of the goldeye (Hiodon alosoides) in Montana.

Proc. Mont. Acad. Sci. 26:45-53.

Gives distribution of goldeye in the Missouri River and Yellowstone River in Montana; also age and growth, sex ratios, time of spawning, fecundity and movement of marked fish in rivers.
Key Words:life history, goldeye, Missouri River, Montana, Yellowstone River

459. Hiltner, R.J. 1983
Comparison of walleye, Stizostedion vitreum vitreum (Mitchill), ecology and biology from three discrete areas of Lake Sakakawea, North Dakota.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. A-1096B.

Abundance, depth distribution, food habits, age and growth, and condition of walleye in Lake Sakakawea near Williston, in the Van Hook Arm, and near Riverdale were compared in 1982. Abundance and depth distribution of rainbow smelt from the above three areas in 1982

were also reported.
Key Words: walleye, Sakakawea

460. Hinks, D. 1943
The fishes of Manitoba.

Manitoba Dept. Mines & Natur. Resources, 102 pp.
Key Words: Manitoba, fishes

461. Hocutt, C.H., and E.O. Wiley,(eds.) 1985
The Zoogeography of North American Freshwater Fishes.

John Wiley and Sons, New York.

This major study of fish zoogeography in North America contains detailed documentation of the reasons for distribution of fishes in North and South Dakota basins.
Key Words: zoogeography

462. Hoffman, G.C., C.L. Milewski and D.W. Willis 1990
Population characteristics of rock bass in three northeastern South Dakota lakes.

Prairie Naturalist 22(1):33-40.

Catch rates, relative abundance, age, population structure, growth and condition for rock bass in Lake Kampeski, Pickerel Lake and Amsden Reservoir in northeastern South Dakota.
Key Words:Lake Kampeska, Pickerel Lake, Amsden Reservoir, rock bass

463. Hoffman, G.L. 1953
Parasites of fish of Turtle River, North Dak.

Proc. N. Dak. Acad. Sci. 7:12-19.

List of parasites found in 195 fish of 9 species of catostomidae, cyprinidae and percidae.
Key Words:Turtle River, Red River, parasite

464. Hoffman, G.L. 1954
The occurrence of Ornithodiplostomum ptychocheilus (Faust), (Trematoda: Strigeida) in fish and birds.

Jour. Parasit. 40:232-233.
Key Words: parasite

465. Hoffman, G.L. 1955
A Diplostomulum (Trematoda:Strigeida) in a tumor-like cyst on the brain of the stickleback, Eucalia inconstans.

Jour. Parasit. 40(Suppl.):32.
Key Words: parasite

466. Hoffman, G.L. 1955
The life cycle of Diplostomum (baeri) (Trematoda:Strigeida).

Jour. Parasit. 41(Suppl.):22.
Key Words: parasite

467. Hoffman, G.L. 1955
Neascus nolfi n. sp. (Trematoda:Strigeida) from cyprinid minnows with notes on the artificial digest recovery of helminth.

Amer. Midland Nat. 53(1):198-204.

Reports new species from creek chub and common shiner from the Turtle River, Red River drainage, North Dakota.
Key Words:Red River, parasite, creek chub, common shiner

468. Hoffman, G.L. 1956
The life cycle of Crassiphiala bulboglossa (Trematoda:Strigeida). Development of the metacercaria and cyst, and effect on the fish hosts.

Jour. Parasit. 42:435-444.
Key Words: parasite

469. Hoffman, G.L. 1957
Studies of the life cycle of Cryptocotyle concavum from the common sucker and experimentally in the chick.

Proc. N. Dak. Acad. Sci. 11:55-56

Eleven of 29 white suckers from the Turtle River, Grand Forks County, were found parasitized with this species. Other species of fish examined did not have the parasite.
Key Words:white sucker, parasite, Red River, Turtle River

470. Hoffman, G.L. 1958
Experimental studies on the cercaria and metacercaria of the strigeoid trematode, Posthodiplostomum minimum.

Exper. Parasit. 7:23-50.
Key Words: parasite

471. Hoffman, G.L. 1959
Studies on the life-cycle of Ornithodiplostomum plychocheilus (Faust), (Trematoda:Strigeoidea) and the "self-cure" of infected fish.

Jour. Parasit. 44:416-421.
Key Words: parasite

472. Hoffman, G.L. 1959
Studies on the life cycle of Apatemon gracilis Pellucidus (yamag.) [Trematoda:Strigeoidea].

Trans. Amer. Fish. Soc. 88(2):96-99.

From stickleback (Eucalia inconstans) collected from the English Coulee, Grand Forks, North Dakota.
Key Words:Red River, parasite, stickleback

473. Hoffman, G.L. 1967
Parasites of North American Freshwater Fishes.

Univ. Calif. Press, Berkeley, CA. 486 pp.
Key Words: parasite

474. Hoffman, G.L., and O.N. Bauer 1971
Fish parasitology in water reservoirs. A review.

in Reservoir Fisheries and Limnology, G.E. Hall, (ed.), pp. 495-511. Amer. Fisheries Soc. Special Publ. No. 8.

A review of 190 studies of fish parasites in reservoirs in the United States and other countries.
Key Words: parasite, reservoirs

475. Hoffman, G.L. and J.B. Hundley 1957
The life-cycle of Diplostomum baeri eucaliae n. subsp. (Trematoda: Strigeida).

Jour. Parasit. 43(6):613-627.
Key Words: parasite

476. Hoffman, G.R. 1978
Shore vegetation of Lakes Oahe and Sakakawea, Missouri River mainstem reservoirs.

Project Report, University of South Dakota, Vermillion, SD
Key Words:shoreline vegetation, Oahe, Sakakawea

477. Holloway, H.L., Jr. 1978
Worms in fish?

North Dakota Outdoors 40(8):11.

Philometra nodulosa found in cheek of white sucker from Cherry Creek near Williston.

Key Words:white sucker, parasite

478. Holloway, H.L., Jr. 1983
An update on a fish parasite and diseases considered by the International Joint Commission on the transbasin diversion of Missouri River water into the Hudson Bay Drainage.

pp. 38-63 in Clamby, G.K., H.L. Holloway, Jr., J.B. Owen, and J.J. Peterka. Potential transfer of biota between drainage systems having no natural flow connections. Tri-College Univ. Center for Environ. Studies, Fargo, N.D.

Contains information on Polypodium hydriforme, a parasite of paddlefish and sturgeons, and fish diseases in Garrison Diversion Unit area.
Key Words:Garrison Diversion, parasite, paddlefish, sturgeon

479. Holloway, H.L. Jr. 1986
Parasites of fishes in prairie lakes and potholes.

Proc. N. Dak. Acad. Sci. 40:33.
Key Words: parasite

480. Holloway, H.L., Jr. 1987
Parasitosis in relation to age of fish host.

Proc. N. Dak. Acad. Sci. 41:58.

A study of relationship between the ages of fishes and the degree of parasitosis by multiple regression using 800 fish of 9 species from four areas in North Dakota.
Key Words: parasite

481. Holloway, H.L. Jr. 1990
Population control of the eye fluke, Diplostomum spathaceum.

Trans. Amer. Microsc. Soc. 109():115.

Recommends not stocking young fish when snails are emitting cercariae, proper disposal of trash fish and control of snails.
Key Words:eye fluke, parasite, snails

482. Holloway, H.L., Jr., and H.R. Buttz 1988
Control of fish eye grubs in North Dakota.

North Dakota Outdoors 51(1):18.

Popular article on effects of fish eye grub, Diplostomum spathaceum, which has been found in several areas in North Dakota.
Key Words:eye fluke, parasite

483. Holloway, H.L., Jr., and M.D. Forstie 1979
Fish parasites from North Dakota lakes and streams.

Progr. Abstrs. Amer. Soc. Parasit. 61:
Key Words: parasite

484. Holloway, H.L., Jr., M.D. Forstie
and J.D. Reinisch 1977
Parasitemia of freshwater fish in North Dakota.

Progr. Abstr. Amer. Soc. Parasit. :52. ?? 61?
Key Words: parasite

485. Holloway, H.L., Jr., and N.T. Hagstrom 1979
Parasites in North Dakota fish and man.

North Dakota Outdoors 46(6):16-21.

Semipopular article describing effects of parasites of North Dakota fishes with a list and description of those that might have effects on man.
Key Words: parasite

486. Holloway, H.L., Jr., and N.T. Hagstrom 1981
Comparisons of four North Dakota impoundments and factors affecting the development of impoundment parasitofauna.

Prairie Naturalist 13(3-4):85-93.

Lake Audubon, Lake Tewaukon, Coal Mine Lake and Harvey Reservoir fishes examined for parasites in 1975.
Key Words: parasite

487. Holloway, H.L., Jr., and G.H. Leno 1983
Diplostomum spathaceum in ecologically different fish.

Proc. N. Dak. Acad. Sci. 37:84.

Twelve species of fish were divided into three groups: littoral species, pelagic-benthic species, or limnetic species. These ecological groups were compared statistically for incidence and mean numbers of the eye fluke.
Key Words:eye fluke, parasite

488. Holloway, H.L.,Jr., and C.A. Ottinger no date
Bibliography on immunology, hematology, and parasites of paddlefish.

Manuscript, H.L. Holloway, Dept. of Biology, Univ. of N. Dak., Grand Forks, N.D. 58202

Contains references on paddlefish dating from 1907 to 1988. Paddlefish parasites and diseased are of interest because of the possibility of biota transfer through the Garrison Diversion Unit in North Dakota.
Key Words: parasite, paddlefish, bibliography

489. Holloway, H.L., Jr., J.D. Reinisch, D.S. Elsen and J.B. Owen 1977
Nematodes of the genus Philometra in North Dakota fish.

Proc. N. Dak. Acad. Sci. 31(I):8 (abstract).
Key Words: parasite

490. Holloway, H.L.,Jr., and C.E. Smith 1978
Muscular necrosis of Stizostedion vitreum in North Dakota.

Amer. Zool. 18(3):611.

Walleye with muscular necrosis were collected in Wood Lake, Benson County, North Dakota.
Key Words: disease, walleye

491. Holloway, H.L.,Jr., and C.E. Smith 1982
A myopathy in North Dakota walleye, Stizostedion vitreum.

Jour. of Fish Diseases 1982(5):527-530.

Describes myopathy in walleye from Wood Lake, Benson County, North Dakota.
Key Words: disease, walleye

492. Holt, C.S., and P.A. Durkee. 1981
The distribution, ecology and growth of the chestnut lamprey, Ichthyomyzon castaneus, in the Clearwater River, Minnesota.

Jour. Minn. Acad. Sci. 49(2):35-38.
Key Words: lamprey

493. Houtcooper, W.C., D.J. Ode, J.A.Person, and G.M.Vandel III 1985 1985
Rare animals and plants of South Dakota.

The Prairie Naturalist. 17(3):143-165.

Includes annotated list of rare fishes.
Key Words: fishes

494. Hubbs, C.L. 1945
Corrected distributional records for Minnesota fishes.

Copeia 1945 (1):13-22.

Corrects distributional records of fishes in Minnesota basins up to 1945.
Key Words: fishes, Minnesota

495. Hudson, P.L. 1970
Quantitative sampling with three benthic dredges.

Trans. Amer. Fish. Soc. 99(3):603-607.

Tests of Ekman, Ponar and orange-peel dredges in Lewis and Clark Lake, South Dakota, indicated the Ponar was the most versatile of the three.
Key Words:sampling equipment, benthos

496. Hudson, P.L. 1971
The chironomidae (Diptera) of South Dakota.

Proc. S. Dak. Acad. Sci. 50:155-174.

Chironomidae form a major fish food organism in many waters.
Key Words: chironomidae

497. Hudson, P.L., and B.C. Cowell 1966
Distribution and abundance of phytoplankton and rotifers in a mainstem Missouri River reservoir.

Proc. S. Dak. Acad. Sci. 45:84-106.

Plankton study in Lewis and Clark Lake (Gavins Point Reservoir) in 1963 and 1964.
Key Words:Gavins Point Reservoir, Lewis and Clark Reservoir, phytoplankton, rotifera

498. Hudson, P.L., and G.A. Swanson 1972
Production and standing crop of Hexagenia (Ephemeroptera) in a large reservoir.

Stud. Nat. Sci.(Portales, NM) 1(4):42 pp.

Studies in Lewis and Clark Reservoir, South Dakota.
Key Words: ephemeroptera, Hexagenia

499. Hugghins, E.J. 1956
Ecological studies on a strigeid trematode at Oakwood Lakes, South Dakota.

Proc. S. Dak. Acad. Sci. 35:204-206.

The life cycle of Hysteromorpha triloba through a snail Gryaules hirsutus, the black bullhead Ictalurus melas, and the cormorant Phalocrocorox

auritus described in a small pothole near Brooking, South Dakota.
Key Words: cormorant, black bullhead, parasite

500. Hugghins, E.J. 1958
Studies on parasites of fishes in South Dakota.

Jour. Parasit. 44(4-Sect. 2):33 (abstract 68).
Key Words: parasite

501. Hugghins, E.J. 1959
Lernaeids and lernaeopodids (Arthropoda:Eucopepoda) from fishes in eastern South Dakota.

Jour. Parasit. 45(4-Sect. 2):34 (abstract 59).
Key Words: parasite

502. Hugghins, E.J. 1972
Parasites of fishes in South Dakota.

South Dakota Exper. Sta. Bull. 484:1-73.
Key Words:South Dakota, parasite

503. Hultgren, D.D., E.A. Wells and D.S. Dennis 1978
Seasonal occurrence of Lake Sakakawea phytoplankton.

Proc. N. Dak. Acad. Sci. 32(I):38 (abstract)

Cryptophyta or cyanophyta were generally the dominant algal group found.
Key Words: Sakakawea, phytoplankton

504. Hundley, J.B. 1958
Body and anchor development in Lernea cyprinaceae (Copepoda: Lernaediae).

M.S. Thesis, University of North Dakota.
Key Words:anchor worm, parasite, Lernea

505. Ikezaki, F.M. 1955
A new species of Gryodactylus (Trematoda:Monogenia) from the brook stickleback, Eucalia inconstans.

M.S. Thesis, University of North Dakota.

Recovered from brook stickleback from English Coulee on the University of North Dakota campus.
Key Words: parasite, stickleback, Red River

506. Ikezaki, F.M. and G.L. Hoffman 1957
Gyrodactylus eucaliae n. sp.(Trematoda: Monogenia) from the brook stickleback,

Eucalia inconstans.

Jour. Parasitol. 43(4):451-455
Key Words: parasite, stickleback

507. Institute for Ecological Studies 1974
Environmental impact assessment of Baldhill Dam and Lake Ashtabula, North Dakota.

Institute for Ecological Studies, University of North Dakota, Grand Forks, ND. Research Report
No. 8.
Key Words:Baldhill Dam, Lake Ashtabula, environmental impact

508. Jackson, J.P. and N. Stucky 1988
History relived on the Mighty Mo. (origin of the river to 1900).

pp. 3-12 in: Benson, N.G.(ed.) The Missouri River - The Resources, Their Uses and Value.
North Central Division, The American Fishery Society, Special Publ. No. 8.
Key Words: geology, history

509. James, M.E. 1934
Effect of 1934 drought on fish life.

Trans. Amer. Fish. Soc. 64:57-62.

Includes a brief summary of effects of drought on 17 midwestern states including South Dakota. About all that could be done in many cases was rescue of fish and transfer to other waters that were not drying up.
Key Words: drought, water elevation, fish kill

510. Janssen, S. 1979
Quantitative analysis of zooplankton in Lake Yankton.

Proc. N. Dak. Acad. Sci. 33:87 (abstract).

Based on weekly samples from September 9 to November 10, 1978.
Key Words: plankton, zooplankton, limnology

511. Jenkins, R.M. 1965
Bibliography on reservoir fishery biology in North America.
U.S. Bureau of Sport Fisheries and Wildlife, Research Report No. 68.

Contains 1210 references under 14 subject headings.
Key Words: bibliography, reservoirs

512. Jennings, D.K. 1979

An evaluation of aquatic habitat associated with notched dikes on the Missouri River.

M.S. Thesis, Univ. of Missouri, Columbia
Key Words:aquatic ecology, bank stabilization

513. Jensen, D. 1980
Devils Lake perch.

North Dakota Outdoors 43(5):22-24.

Popular article with useful historical data.
Key Words:Devils Lake, yellow perch

514. Jeppson, R.W. 1951
Analysis of basin-wide survey census techniques.

Midwinter conference of all Missouri River Basin Studies Personnel, January 29 to February 2, 1951, Billings, Montana.

Report on creel surveys in Missouri River basin conducted by office of River Basin Studies.
Key Words:creel survey

515. Johannes, S.I. 1969
Ecological factors affecting lateral distribution of goldeye, Hiodon alosoides (Rafinesque), in the Little Missouri Arm, Lake Sakakawea, North Dakota.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. 1308.

Goldeye were sampled at eight stations along the length of the Little Missouri Arm to study differences in sex ratios, spawning movements and other characteristics. The proportion of males increased gradually toward the upstream end of the arm. Sex ratios were also related to turbidity and progressive changes in temperature.
Key Words: goldeye, Sakakawea

516. John, K.R. 1959
Ecology of the Utah chub, Gila atraria, with special emphasis on vertebral curvatures in Two Ocean Lake, Teton National Park, Wyoming.

Ecology 40(4):564-571.

Gives detailed life history of Utah chub, a fish important in Garrison Diversion impact studies.
Key Words:Utah chub, Wyoming, life history

517. Johnson, D.H. 1963
The food habits of the goldeye, Hiodon alosoides, of the Missouri River and Lewis and Clark Reservoir, South Dakota.
M.A. Thesis, Univ. of South Dakota. 36 pp.

Specimens were taken in Lewis and Clark Reservoir and the tailwater area of Gavins Point Dam.
Key Words:Lewis and Clark Reservoir, food habits, goldeye

518. Johnson, G.E., A. Carmichael, J.C. Pigage, C.E. Farmer, T.J. O'Leary, W.F. Shirk, R.H. Bares, C. Godfread d 1974
Environmental impact assessment of Baldhill Dam and Lake Ashtabula, North Dakota.

Univ. N. Dak. Inst. Ecol. Studies. Research Report No. 8. 206 pp.
Key Words:environmental impact, Baldhill Dam, Lake Ashtabula

519. Johnson, J.L. 1960
Some limnological conditions relative to winter kill of fish in ice-covered representative farm ponds in eastern South Dakota.

M.S. Thesis, South Dakota State University.
Key Words: winterkill, limnology

520. Johnson, R.C. 1942
The distribution of Nebraska fishes.

Ph.D. Thesis, Univ. Michigan, Ann Arbor.
Key Words: Nebraska, fishes

521. Johnson, S.D. 1980
Zooplankton and ichthyoplankton in a South Dakota power plant cooling reservoir.

M.S. Thesis, South Dakota State University

In Big Stone power plant cooling reservoir.
Key Words:Big Stone, zooplankton, ichthyoplankton

522. Johnson, S.R. 1987
Effects of organic enrichment and artificial aeration of walleye fry, Stizostedium vitreum vitreum, growth and survivorship.

M.S. Thesis, University of North Dakota.

An experimental study of effects of organic enrichment, artificial aeration and fish predation on abundance and size structure of zooplankton and on growth and abundance of walleye fry.
Key Words:walleye fry, zooplankton, aeration

523. Johnson, W.E. 1964
Quantitative aspects of the pelagic, entomostracan zooplankton in a multibasin lake system over a 6-year period.

Verh. Inst. Ver. Limnology 15:727-734.
Key Words: zooplankton

524. Jones, W.E., and J.H. Selgeby 1974
Invertebrate macrobenthos of Lake Oahe, 1968-69.

U.S. Dept. of the Int. Fish and Wildlife Service. Tech. Paper No. 73. 11 pp.

"Benthos of Lake Oahe, as determined from about 450 samples collected during open water season in 1968 and 1969 was dominated by oligochaetes and chironomids; Caenis (Ephemeroptera) and Chaoborus(Diptera) were occasionally abundant." (authors)
Key Words: benthos, Oahe

525. Jordan, D.S. 1878
Report on the collection of fishes made by Dr. Elliot Coues, U.S.A., in Dakota and Montana during the seasons of 1873 and 1874.

Bull. U.S. Geol. Surv. Territ. 5:777-799.
Key Words: fishes, Montana

526. Jordan, D.S., and B.W. Evermann. 1896-1900
The fishes of North and Middle America.

Bull. U .S. Nat. Museum No. 47, in four parts, 3313 pp.
Key Words: fishes, history

527. Jordan, D.S., and S.E. Meek 1885
List of fishes collected in Iowa and Missouri in August, 1884, with descriptions of three new species.

Proc. U.S. Nat. Museum, 8:117.
Key Words: fishes, history

528. Jorde, D.G. 1977
Souris River study: July 1973 to June 1975.

Proc. N. Dak. Acad. Sci.(I):15 (abstract).

Samples at 15 stations along the length of the Souris River in the United States to determine general water quality and identify sources of pollution. (See Jorde, 1978.
Key Words: limnology, Souris River, pollution

529. Jorde, D.G. 1978
Water quality in the Souris River and its modification by wildlife refuge impoundments.

Inst. for Ecol Studies, Univ. of N. Dak., Research Report No. 25, 53 pp.

Limnological study of pollution in Souris River in North Dakota in 1973-1975. Gives background data useful in studying causes of fish kills in this area.
Key Words:Souris River, limnology, pollution

530. Jorde, D.G. 1978
The giant what?

North Dakota Outdoors 41(4):24-25.

Popular article describing biology of giant kidney worm, Dioctophyma renale, found in North Dakota. Frogs and fish are intermediate hosts.
Key Words: parasite, frogs

531. Jorgensen, R.A., S.K. Eleeson, K.L. Thvedt, J.E. Tesch, C.A.Wilkey and W.R. Dorband 1979
Winter ecology of five prairie aquatic ecosystems.

Proc. N. Dak. Acad. Sci. 33:102 (abstract).

Brief comparative limnological study of Grass Lake, Marindahl Lake, Clay Creek, Lewis and Clark Reservoir and Gavins Point tailwaters in South Dakota in January, 1979.
Key Words:Lewis and Clark Reservoir, Gavins Point Reservoir, limnology

532. Joseph, T.W. 1976
Populations of invertebrate organisms and their consumption by rainbow trout (Salmo gairdneri) and walleye (Stizostedion vitreum) in Gravel Lake, North Dakota.

Ph.D. Thesis, Univ. of N. Dak.

Bottom fauna study at various depths and ecological zones in Gravel Lake in the Turtle Mountains. Gives food habits, age and growth and competition between walleye and rainbow trout.
Key Words: benthos, limnology, rainbow trout, walleye, food habits

533. Joseph, T.W. 1977
An indexed annotated bibliography of the rare fishes of the upper Missouri River System.

Biological Services Program, FWS/OBS 78/13 October, 1977. U.S. Fish & Wildl. Serv., Dept. of Interior.

An annotated bibliography of 590 entries cross-indexed by subjects. Contains many unpublished reports by state agencies on North and South Dakota fishes and related subjects.
Key Words: bibliography, Missouri River, fishes

534. June, F.C. 1970
Atresia and year-class abundance of northern pike, Esox lucius, in two Missouri River impoundments.

Jour. Fish. Res. Board Canada, 27(3):587-591.

Widespread atresia in northern pike ovaries was associated with low year-class abundance in three successive years, 1966-68, in Lake Oahe and Lake Sharpe, South Dakota, two large Missouri River impoundments. Atresia was associated with fluctuations in water temperature and water level that apparently interrupted spawning. - (author)
Key Words:northern pike, Oahe, Lake Sharpe, atresia

535. June, F.C. 1971
The reproductive biology of northern pike, Esox lucius, in Lake Oahe, an upper Missouri River storage reservoir.

In G.E. Hall (ed.), Reservoir Fisheries and Limnology, Amer. Fisheries Soc. Special Publ. No. 8, pp. 53-71.

Describes ovaries and ova during reproductive cycle, number of ova, variation in time of spawning, size and age of spawners and sex ratios of spawning northern pike in Lake Oahe.
Key Words: Oahe, northern pike, spawning

536. June, F.C. 1974
Ecological changes during the transitional years of final filling and full impoundment (1966-1979) of Lake Oahe, an upper Missouri River storage reservoir.

U.S. Fish & Wildl. Serv. Tech. Report No. 71.

Gives data and trends in water discharge, water level, sedimentation, turbidity, transmissivity, temperature, specific conductance, dissolved oxygen, and plankton.
Key Words: Oahe, limnology

537. June, F.C. 1976
Changes in young-of-the-year fish stocks during and after filling of Lake Oahe, an upper Missouri River storage reservoir, 1966-74.

U.S. Fish & Wildl. Serv. Tech. paper 87, 25 pp.

Data on catches of young-of-the-year fishes from July to September, 1966 to 1974.
Key Words: Oahe, young-of-the-year

538. June, F.C. 1977
Reproductive patterns in seventeen species of warm water fishes in a Missouri River Reservoir.

Environ. Biol. Fish. 2:285-296.
Key Words: reproduction, reservoirs

539. June, F.C. 1981
Adult fish stocks of Lake Sharpe, South Dakota, 1964-1975.

U.S. Fish & Wildl. Serv. Tech. Paper, (no number).
Key Words:Lake Sharpe

540. June, F.C. 1987
Physical, chemical, and biological characteristics of Lake Sharpe, South Dakota, 1966-1975.

pp. 1-20 in Limnological and fishery studies on Lake Sharpe, a main-stem Missouri River reservoir, 1964-1975. U.S. Fish & Wildl. Serv. Tech. Rept. 8.

Includes summary of physical and chemical limnology and phytoplankton, zooplankton and benthos in the reservoir but not fisheries.
Key Words: benthos, plankton

541. June, F.C. 1987
Early life history and winter mortality of gizzard shad in Lake Sharpe, South Dakota.

pp. 75-83 in Limnological and fishery studies on Lake Sharpe, a main-stem Missouri River reservoir, 1964-1975. U.S. Fish & Wildl. Serv. Tech. Rept. 8.

Lake Sharpe is the northern limit of distribution of gizzard shad in the Missouri River.
Key Words:gizzard shad, Lake Sharpe

542. June, F.C., L.G. Beckman, J.H. Elrod, G.K. O'Bryan, and D.A. Vogel 1987
Limnological and fishery studies on Lake Sharpe, a main-stem Missouri River reservoir, 1964-1975.

U.S. Dept. Interior Fish & Wildl. Serv., Tech. Rept. 8.

Contains six papers which are annotated separately.
Key Words:Lake Sharpe, limnology

543. Jurgens, T.J. 1968

A survey of pollution on selected streams in the Black Hills of South Dakota.

M.S. Thesis, South Dakota State University.

A study of seven streams in the Black Hills affected by mine wastes or organic wastes as indicated by benthic fauna above and below sources of pollution.
Key Words: pollution, Black Hills

544. Kallemeyn, L.W. 1968
Survival, growth and food habits of brook trout introduced into an eastern South Dakota stream.

M.S. Thesis, South Dakota State University.

Study of trout introduced into a spring-fed stretch of South Fork Yellow Bank River, a tributary of Minnesota River in eastern South Dakota.
Key Words:brook trout, Yellow Bank River

545. Kallemeyn, L.W. 1975
The relative abundance and standing crop of fishes on an eastern South Dakota stream.

Proc. S. Dak. Acad. Sci. 54:162-171.

Study of standing crop and abundance of fishes in the south fork of Yellow Bank River throughout 12 months of the year.
Key Words: fishes, Yellow Bank River

546. Kallemeyn, L.W. 1983
Status of the pallid sturgeon.

Fisheries 8(1):3-9.

Gives status of pallid sturgeon in Montana, North Dakota, South Dakota and lower Missouri and Mississippi River states.
Key Words:pallid sturgeon, distribution

547. Kallemeyn, L.W., and J.F. Novotny 1977
Fish and fish food organisms in various habitats of the Missouri River in South Dakota.

U.S. Fish & Wildl. Serv. Biol. Surv. Prog. FWS/OBS-77/25. 100 pp.

A comparative study of a stretch of the natural unaltered river with the effects of engineering structures on the river for erosion control and navigation on benthos, periphyton, plankton and larval and adult fish.
Key Words:Missouri River, benthos, periphyton, plankton, stream alteration

548. Kannowski, P.B., (ed.) 1979
Fish and wildlife resources technical paper, James River Basin, North and South Dakota.

Inst. for Ecolog. Studies, Research Report No. 29

Broad description of fish and wildlife problems in the basin. Describes impacts of proposed development and potential solutions.
Key Words:James River, fishes, wildlife

549. Kathrein, J.W. 1957
Enemy Swim Lake fisherman harvest study.

Dingell-Johnson Report 57-6 F-1-R-6, Job 9. S. Dak. Dept. of Game, Fish and Parks.
Key Words:Enemy Swim Lake, creel survey

550. Kathrein, J.W. 1958
Enemy Swim Lake fisherman harvest study.

Dingell-Johnson Report 57-6 F-1-R-6, Job 10. S. Dak. Dept. of Game, Fish and Parks.
Key Words:Enemy Swim Lake, creel survey

551. Kawatski, J.A. 11966
The effects of municipal wastes upon the eucopedodan and cladoceran populations in a section of the Vermillion River.

M.A. Thesis, Univ. of South Dakota.

Study of the effects of unprocessed domestic sewage at Vermillion, SD, on copepods and cladocera.
Key Words: pollution, cladocera, copepoda, Vermillion River

552. Kawatski, J.A., and J.C. Schmulbach 1967
Effects of municipal waste upon the eucopepodan and cladoceran populations of the lower Vermillion River.

Proc. S. Dak. Acad. Sci. 46:115-120.

Microcrustacean populations were depressed by a combination of effects.
Key Words:Vermillion River, pollution, plankton

553. Kazmierski, J.A. 1966
Composition and seasonal changes of the macrofauna of an intermittent prairie stream.

M.A. Thesis, Univ. of South Dakota.

A study of benthos and fish in Say Brook near Vermillion, SD.

Key Words:Say Brook, fishes, intermittent

554. Keleher, J.J. 1956
The northern limits of distribution in Manitoba for cyprinid fishes.

Can. Jour. of Zool. 34:263-266.

Data on 23 species, including many in the Red River drainage in North Dakota.
Key Words:Red River, cyprinidae, fishes

555. Keleher, J.J., and B. Kooyman 1957
Supplement to Hink's "The Fishes of Manitoba."

Dept. Mines Natur. Resources, Province of Manitoba.
Key Words: Manitoba, fishes

556. Kelsch, S.W. 1979
A comparison of the age and growth of yellow perch, Perca flavescens (Mitchill), in Lake Audubon and Lake Sakakawea, North Dakota, 1978.

M.S. Thesis, University of North Dakota.

Differences in age and growth, length-weight, age composition and condition of perch in the two reservoirs explained because of water level differences.
Key Words:yellow perch, Lake Audubon, Sakakawea

557. Kemper, G.B. 1973
Stomach contents of fish from five stations along the Missouri River.

M.A. Thesis, Northwest Missouri State Univ.
Key Words: food

558. Kerestes, D.E., and J.A. Leitch 1982
Profile of North Dakotans who go fishing.

North Dakota Outdoors 45(5):7.

Popular summary of results of questionnaires mailed to 1500 purchasers of North Dakota fishing licenses in 1982.
Key Words:creel survey, economic value

559. King, R.G. 1978
Fish impingement study.

pp. 29-53 in Operational environmental monitoring of the fish community in the Missouri River near Fort Calhoun Station, May 1973 through November 1977. Report to the Omaha Public Power District, Omaha. NALCO Environmental Sciences, Lincoln, NE.

Key Words: impingement

560. King, R.G. 1978
Fish larval distribution.

pp. 229-243 in The evaluation of thermal effects in the Missouri River near Cooper Nuclear Station (operational phase). January-December 1977.
NALCO Environmental Sciences, Report for Nebraska Public Power District, Columbus, NE.
Key Words:fish larvae

561. King, R.E. 1979
Fish larvae distribution.

pp. 190-207 in The evaluation of themal effects in the Missouri River near Cooper Nuclear Station (operational phase). January-December 1978.
Hazelton Environmental Science, Project 8903, Report for Nebraska Public Power District, Columbus, Nebraska
Key Words:fish larvae, heated effluent

562. King, W. 1985
Endocrine changes associated with smoltification in Chinook Salmon (Oncorhynchus tshawytscha).

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division Report No. A-1122.

Thyroxine and cortisol levels in chinook salmon were measured by radioimmunioassay and enzyme immunoassay as they transformed from parr to smolts (smoltification).
Key Words:chinook salmon, smoltification, thyroxine, cortisol

563. Knaus, J.D. 1970
Life histories, productivity and energy relationships of midge populations in a highly mineralized Northern Prairie Lake.

Ph.D. Thesis, Univ. North Dakota.

Detailed limnological study of midge production in Devils Lake, ND.
Key Words: limnology, Devils Lake, chironomidae

564. Knaus, J.D. 1970
Life histories, productivity, and energy relationships of midge populations in a highly mineralized Northern Prairie Lake.

North Dakota Water Resources Research Inst., Research Project Completion Report WI-341-009-70.

(report same as Ph. D. Thesis)
Key Words: limnology, Devils Lake, chironomidae

565. Knutson, K.M. 1970
Plankton ecology of Lake Ashtabula reservoir, Valley City, North Dakota.

Ph.D. Thesis, N. Dak. State Univ.

Plankton study made in 1967, 1968 and 1969.
Key Words:Lake Ashtabula, plankton

566. Knutson, K.M., and J.J. Peterka 1969
Age and growth of yellow perch in Lake Ashtabula.

Proc. N. Dak. Acad. Sci. 23:14-24.

Age and growth of perch caught in 1967-1968.
Key Words:Lake Ashtabula, yellow perch

567. Kochsiek, K.A. 1965
A study of the salinity tolerances of three native species of minnows, (Pimephales promelas, Culaea inconstans and Fundulus diaphanus) occurring in northeastern North Dakota.

M.S. Thesis, University of North Dakota.

Results of bioassay tests made under controlled conditions on specimens captured near Grand Forks.
Key Words: salinity, fathead minnow, stickleback, killifish

568. Kochsiek, K.A., and R.A. Tubb 1967
Salinity tolerance of Fundulus diaphanus, Culaea inconstans and Pimephales promelas.

Proc. S. Dak. Acad. Sci. 46:95-99.

Results of bioassay tests made under controlled conditions on specimens captured near Grand Forks.
Key Words: salinity, fathead minnow, stickleback, banded killifish

569. Kollman, A.L. 1974
Ecology of sago pondweed (Potamogeton pectinatus L.) communities.

M.S. Thesis, University of North Dakota.

A study of water, sediment, dissolved oxygen, temperature and productivity of a monospecies community of Potamogeton pectinatus L. in Fox Lake, northeast of Devils Lake, N.D.
Key Words: potamogeton, Devils Lake

570. Koopersmith,, C. 1981
Computer analysis of bank erosion on Lake Sharpe, South Dakota.

Geological Soc. of Amer., abstracts with programs, Vol. 13:201.
Key Words:bank erosion, Lake Sharpe

571. Koth, R.M. 1980
Food habits and growth of rainbow trout in a prairie pond.

M.S. Thesis, South Dakota State University.

Study in a small pond in eastern South Dakota with no natural trout reproduction.
Key Words:rainbow trout, growth, food

572. Koth, R.M. 1981
South Dakota Lake classification and inventory: final report.

South Dakota Dept. of Water and Natural resources, Office of Water Quality, Pierre, SD.

573. Kozel, D.J. 1974
The utilization of select habitats by immature and adult fishes in the unchannelized Missouri River.

M.A. Thesis, Univ. of South Dakota, Vermillion.

Data on 36 species including relative abundance, species diversity, standing crop and age composition of fishes in submerged cattail marshes in an unchannelized section of the Missouri River some three to six miles southwest of Vermillion, S.D. is reported.
Key Words: fishes, unchannelized

574. Kozel, D.J., and J.C. Schmulbach 1976
Utilization of marsh and sandbar habitats by fishes in the unchannelized Missouri River.

Proc. S. Dak. Acad. Sci. 55:177

Fish were sampled from marsh and sandbar habitats by seining, electrofishing, poisoning and trapping to compare catches. Standing crop estimates indicated significant differences, with marshes being more important rearing areas for young fish.
Key Words: fishes, unchannelized

575. Krakowiecki, J.M. (Director) 1972
A microbial, chemical, physical and historical study of the pollutants of the Missouri River.

Benedictine College, Atchison, KA
Key Words: pollution

576. Kramer, R.P. 1979
Design and evaluation of a fisheries information storage and retrieval system (FISARS) for the state of South Dakota.

M.S. Thesis, South Dakota State University.

Retrieval system described using two data bases; one contains bibliographic reference material, the other contains data about individual bodies of water. The two data bases can operate together or individually.
Key Words:data retrieval, bibliography

577. Kreil, R. 1986
Rare fishes of North Dakotas'western rivers.

North Dakota Outdoors 48(10):14.
Key Words: threatened, endangered

578. Kritsky, D.C. and F.J. Kruidenier 1976
Fine structure and development of the body wall in the monogenean, Gyrodactylus eucaliae, Ikezaki and Hoffman, 1957.

Proc. Helminth. Soc., Wash. 43:47-58
Key Words: parasite

579. Kritsky, D.C., and P.D. Leiby 1971
Studies on helminths of North Dakota. I. Two new monogenetic trematodes of the genus Gyrodactylus from percid fishes and a redescription of G. etheostomae Welborn and Rogers, 1967.

Proc. Helminth. Soc. Wash. 38:200-202.
Key Words: parasite, percidae

580. Kritsky, D.C., P.D. Leiby, and M.E. Shelton 1972
Studies on helminths in North Dakota. IV. Parasites of the river carpsucker, Carpiodes carpio, with descriptions of three new species (Monogenea).

Jour. Parasit. 58:723-731.
Key Words: parasite, river carpsucker

581. Kritsky, D.C., and J.D. Mizelle 1968
Studies on mongenetic trematodes. XXXV. Some new and previously described North American species of Gyrodactylus.

Amer. Midl. Naturalist 79(1):205-215.

Describes Gyrodactylus eucaliae from Cottonwood Lake, McHenry County, N.D. and G. nebulosus from Lake Ruso, McLean County, N.D.
Key Words: parasite

582. Krska, R.J. 1980
Feeding ecology of fishes in a South Dakota power plant cooling reservoir.

M.S. Thesis, South Dakota State University.

Food habits of bluegills, black bullheads and muskellunge and selectivity indices for bullheads and bluegills in Big Stone Power Plant cooling reservoir in eastern South Dakota.
Key Words:food habits, bluegill, bullhead, muskellunge

583. Krska, R.J. and R.L. Applegate 1982
Food of young muskellunge in a power plant cooling reservoir.

Prog. Fish Cult. 44:172-173.
Key Words:food habits, muskellunge

584. Krska, R.J., and R.L. Applegate 1984
Food of bluegills (Lepomis macrochirus) from heated and unheated areas of a power plant cooling reservoir.

Jour. Freshwater Ecol. 2(4):325-334.

Study at Big Stone cooling reservoir.
Key Words:food habits, bluegill

585. Langemeir, R. 1965
Effects of channelization on the limnology of the Missouri River, Nebraska, with emphasis on food habits and growth of the flathead catfish.

M. A. Thesis, Univ. of Missouri, Columbia, Mo.
Key Words: channelization, limnology, flathead catfish

586. Larson, D.W. 1965
Comparative study of the tiger salamander Ambystoma tigrinum.

M.S. Thesis, University of North Dakota.

Tiger salamander larvae were collected from Devils Lake and elsewhere in North Dakota. Examples of two subspecies were correlated with differences in the environment where they were collected.
Key Words:Devils Lake, salamander

587. Larson, D.W. 1968
The occurrence of neotenic salamanders Ambystoma tigrinum diaboli, in Devils Lake, North Dakota.

Copeia 1968(3):620-621.

Describes salamanders occurring in Devils Lake in 1964 through 1966 when large predatory fish were absent from the lake.
Key Words:Devils Lake, salamander

588. Larson, D.W. 1972
Size and coloration characteristics of neotenic salamanders in Devils Lake, N.D.

The Prairie Naturalist 4(3 and 4):77-80.

Data from 517 larval Ambystoma tigrinum diaboli collected in 1964.
Key Words:Devils Lake, salamander

589. Larson, D.W. 1973
Algal associations in nearshore waters of Golden Lake, a shallow prairie lake in eastern North Dakota.

The Prairie Naturalist 5(1):11-16

Net plankton sample collections made during Fall of 1963 at 25 stations around the perimeter of the lake near shore in windswept lake conditions.
Key Words:Golden Lake, algae

590. Larson, G.E. 1975
The Potamogetonaceae in North Dakota.

Proc. N. Dak. Acad. Sci. (I):20 (abstract)

Fourteen species of Potamogetonaceae occur in North Dakota. A key to this species has been developed.
Key Words:potamogeton

591. Larson, G.E. 1976
The potamogetonaceae in North Dakota.

The Prairie Naturalist 8(1 and 2):1-18.

Includes key to species.
Key Words:potamogeton

592. Larson, G.E., and W.T. Barker 1974
Submerged aquatic vascular plants of North Dakota.

Proc. N. Dak. Acad. Sci. (I):20 (abstract)

Results of a three year taxonomic study.

Key Words:aquatic plants

593. Larson, O.R. 1965
Diplostomulum (Trematoda:strigeoidea) associated with herniations of bullhead lenses.

Jour. Parasit. 51:224-229
Key Words: parasite, black bullhead

594. Law, Mrs. Ray Sr. 1969
The Lake Upsilon area - Its early history and development.

North Dakota Outdoors 31(9):11-20.

Early organization of Game and Fish Department and early fishery management in Turtle Mountains.
Key Words:Turtle Mountains, Lake Upsilon

595. Law, Mrs. Ray Sr. 1969
The Lake Upsilon area - Its early history and development.
North Dakota Outdoors 31(10):14-22

Development of Wakapa Game management area and fisheries management in the Turtle Mountains.
Key Words:Turtle Mountains, Lake Upsilon

596. Lechner, M. 1986
Influence of geomorphological origin upon macroinvertebrate community structure in Black Hills streams.

M.S. Thesis, South Dakota State University.
Key Words: macroinvertebrates, geology, Black Hills

597. Leiby, P.D., D.C. Kritsky and D.D. Bauman 1973
Studies on helminths of North Dakota. VII. Ancryocephalinae (Monogenea) from the gills of the blue sucker, Cycleptus elongatus (LeSueur).

Can. Jour. Zool. 51:777-779

A species of parasite new for North Dakota from blue sucker in the Missouri River collected in 1972.
Key Words: parasite, blue sucker, Missouri River

598. Leiby, P.D. D.C. Kritsky, and C.A. Peterson 1972
Studies on helminths in North Dakota. III. Parasites of the bigmouth buffalo, Ictiobus cyprinellus (Val.), with the description of three new species and the proposal of Icelanonchohaptor gen. N. (Monogenea).

Jour. Parasitol. 58:447-454.

Key Words: parasite, bigmouth buffalo

599. Leik, M. 1978
Distribution of the Utah chub (Gila atraria) in the Upper Missouri River system.

Report for the U.S. Bureau of Reclamation, Bismarck, ND. Mimeo. 66 pp.

The Utah chub in the upstream Missouri River drainage is feared because of the possibility of its being transferred into the Hudson Bay drainage through the Garrison Diversion Unit.
Key Words:Garrison Diversion, Utah chub

600. Leistritz, F.L. 1975
A selected bibliography on socio-economic impacts of surface mining in the Great Plains states.

Dept. of Agricultural Economics, N. Dak. State Univ.
Key Words:environmental impact, mining, bibliography

601. Leistritz, F.L., and T.A. Hertsgaard 1980
Environmental, economic and social impacts of a coal gasification plant in western North Dakota.

N. Dak. Agric. Exper. Station Bull. No. 509.
Key Words:environmental impact, coal gasification

602. Leitch, J.A., and W.C. Nelson 1976
Economic value of wildlife in the lower Sheyenne River Basin.

Agric. Economics Report 114, N. Dak. Agric. Exper. Sta.
Key Words:Sheyenne River, economic value

603. Leno, G.H. 1984
The culture of Diplostomum spathaceum on the chorioallantois and observations on its natural occurrence.

M.S. Thesis, University of North Dakota.

Metacercariae from the eyes of freshwater drum in the Red River near Grand Forks were studied. Gulls and cormorants were examined for adult parasites, and eggs were transplanted to chick eggs for culture.
Key Words: parasite, Red River, freshwater drum

604. Leno, G.L., and H.L. Holloway, Jr. 1989
The occurrence of Diplostomum spathaceum metacercariae in the freshwater drum, Aplodinatus grunniens.

Can. Jour. Zool. 67:2853-2856.

Drum were caught in the Red River of the North, Grand Forks, North Dakota, between May and October, 1983.
Key Words: parasite, freshwater drum, Red River

605. Lerfald, D.R., and D.R. Scoby 1970
The influence of pollutants on dissolved oxygen and benthos in the Red River at Fargo, North Dakota.

Proc. N. Dak. Acad. Sci. 24(I):20.

Results of benthos and dissolved oxygen tests in 1969 indicated effect of sewage pollution, agricultural runoff and sugar beet effluent.
Key Words:Red River, pollution, benthos

606. Libera, C., and D.G. Anderson 1967
Fishing North Dakota lakes and streams. A report on a survey of fishermen.

Bureau of Business and Economic Research, College of Business and Public Administration, Univ. of N. Dak.

A mail survey of economic impact, opinions and preferences of North Dakota anglers.
Key Words: economics, creel survey

607. Liebelt, J.E. 1981
The introduction of spottail shiner (Notropis hudsonius) into Fort Peck Reservoir.

Montana Dept. of Fish, Wildlife and Parks.
Key Words: introduction, Fort Peck Reservoir, spottail shiner

608. Loch, J.S., A.J. Derksen, M.E. Hora, and R.B. Oetting. 1979
Potential effects of exotic fishes on Manitoba: an impact assessment of the Garrison Diversion Unit.

Fisheries and Marine Tech. Report 838. 39 pp.

Outlines impact of fishes entering Manitoba through the Garrison Diversion Unit in North Dakota.
Key Words:Garrison Diversion, environmental impact, interbasin transfer

609. Lockard, L.L. 1976
James River fish kill - 1976.

Mimeo. report in files, S. Dak. Dept. of Game, Fish, and Parks.

Report of fish kill observed March 24, 1976, on the James River near Aberdeen, S.D.

Key Words:fish kill, James River

610. Lockard, L.L., and R.R. Parsons 1975
Some parasites of paddlefish (Polyodon spathula) from the Yellowstone River, Montana.

Great Basin Naturalist 35:425-426.

Lists seven species of parasites from 17 paddlefish taken near Intake, Montana.
Key Words: parasite, paddlefish, Yellowstone River, Intake

611. Lord, H.W. 1884
The fishes of Devils Lake, North Dakota.

Bull. U.S. Fish Comm. 4:351.
Key Words:Devils Lake, fishes

612. Lord, W.B., S.K. Tubbesing and C. Althen 1975
Fish and wildlife implications of upper Missouri Basin water allocation.

Monograph No. 22, Program on Technology, Environment and Man. Inst. of Behavioral Science, Univ. of Colorado, Boulder.
Key Words:water allocation

613. Lunan, J.S., T. Glorvigen and G.L. Leslie 1973
Biological and recreational impacts of nine proposed flood control alternatives in the DesLacs and Souris River flood plain, North Dakota.

Contract No. DACW 37-73-0001, Corps of Engineers, St. Paul District, St. Paul, Minn.
Key Words:DesLacs River, Souris River, flood control, environmental impact

614. McCarraher, D.B. 1961
Extension of the range of northern pike.

Trans. Amer. Fish. Soc. 90(2):691-697
Key Words:northern pike

615. McCarraher, D.B. 1964
Recent limnological studies of the alkaline lakes in Nebraska and North Dakota.

15th Ann. Meeting of Amer. Inst Biol. Sci., Boulder, Colo., 1964.
Key Words: alkaline, limnology

616. McClendon, E.W. 1976
Conflicts and compatibilities associated with regulating the Missouri River main stem reservoir system to enhance the fishery resource.

pp. 148-157 in J. F. Orsborn and C.H. Allman (eds.), Instream Flow Needs, Vol. 2. Amer. Fisheries Soc., Washington, D.C.
Key Words:water allocation, water elevation, reservoirs

617. McComish, T.S. 1964
Food habits of bigmouth and smallmouth buffalo in Lewis and Clark Lake and the Missouri River.

M.S. Thesis, S. Dak. State College, Brookings. 21 pp.

From the tailwaters of Fort Randall Dam to Gavins Point Dam, the food of bigmouth buffalo was primarily zooplankton; smallmouth buffalo contained a variety of insect food from shallow shoreline areas.
Key Words:bigmouth buffalo, smallmouth buffalo, food habits

618. McComish, T.S. 1967
Food habits of bigmouth and smallmouth buffalo in Lewis and Clark Lake and the Missouri River.

Trans. Amer. Fish. Soc. 96(1):70-74.

Area of study was from Gavins Point Dam to the tailwaters of Ft. Randall Reservoir. Food of bigmouth buffalo was primarily zooplankton. Smallmouth buffalo contained a variety of insect foods found on shallow shoreline areas.
Key Words:bigmouth buffalo, smallmouth buffalo, food habits

619. McCoy, R.W. 1974
Feeding of hatchery-reared brown trout (Salmos trutta L.) in relation to the diel drift in a South Dakota stream.

M.S. Thesis, South Dakota State University.

Food habits of brown trout stocked in the south fork of Yellowbank River in eastern South Dakota were sampled every four during one 24 hour period each month and compared with available drift organisms sampled each hour during the same 24 hour period each month.
Key Words:food habits, brown trout, stream, Yellow Bank River

620. McCoy, R.W., and D.C. Hales 1974
A survey of eight streams in eastern South Dakota: physical and chemical characteristics, vascular plants, insects, fishes.

Proc. S. Dak. Acad. Sci. 53:202-219.

Results of survey of small streams on eastern side of Coteau des Prairies in

1974.
Key Words: limnology, stream, fishes

621. McCreery, T.P. 1987
Hormones and behavior in Chinook salmon (Oncorhynchus tschawytscha) and steelhead trout (Salmo gairdneri) during smoltification.

M.S. Thesis, University of North Dakota.

Determination of levels of plasma thyroxine and cortisol in Fall chinook salmon and steelhead during smoltification.
Key Words: chinook salmon, thyroxine, cortisol, smoltification, steelhead

622. McCrimmon, M.R. 1968
Carp in Canada.

Jour. Fish. Res. Board Canada, Bull. 165:1-94.

Gives distribution of carp in Canadian river basins including the Red River and Souris.
Key Words: carp

623. McDaniel, G. 1982
Sakakawea salmon.

North Dakota Outdoors 44(10):6-8.

Popular article on fish chinook salmon run in Lake Sakakawea in 1979 from the initial stocking.
Key Words: chinook salmon, Sakakawea

624. McDonald, A.L. 1966
Modification of agonistic behavior in fish.

Ph. D. Thesis, Univ. of S. Dak., Vermillion. 120 pp.
Key Words:agonistic behavior

625. McGuire, D.L. 1981
Annotated key to the larval suckers (Catostomidae) of the Missouri River drainage, Montana.

Proc. Mont. Acad. Sci. 40:1-8

Contains an excellent bibliography on identification of larval fishes of many families.
Key Words: catostomidae, fish larvae, key

626. McKenna, M.G. 1974
Some physiological effects of environmental pH on black bullheads, Ictalurus

melas (Rafinesque).

M.S. Thesis, University of North Dakota.

Twelve groups of bullheads held in aquaria were subjected to pH ranging from pH 3.0 through pH 10.5. Physiological responses and TL50 for fish at the various concentrations are reported.
Key Words: bullhead, pH, physiology

627. McKenna, M.G., and R.W. Seabloom 1976
Threatened and unique wildlife of North Dakota: Initial status report.

Univ. N. Dak., Inst. for Ecol. Studies, Report No 13. 101 pp.

Includes North Dakota fishes.
Key Words: threatened, fishes

628. McKenna, M.G., and R.W. Seabloom, (eds.) 1979
Endangered, threatened, and peripheral wildlife of North Dakota.

Inst. for Ecolog. Studies, Univ. N. Dakota, Research Report No. 28.

Has annotated section on distribution of endangered and threatened fishes in North Dakota.
Key Words: fishes, endangered, threatened

629. McMahon, J., J.Wolf and Sr. M. Diggins 1972
Chironomidae, ephemeroptera and trichoptera in the benthos of channelized portions of the Missouri River.

Proc. N. Dak. Acad. Sci. 51:168-181.

Comparative study of benthos between Vermillion, S.Dak. and Whiting, Iowa. (see Wolf, et al., 1972).
Key Words: benthos, chironomidae, ephemeroptera, trichoptera, Missouri River

630. McMillan, G.L., and O.M. Lofthus 1950
A preliminary report on the metacercarial stage of a fluke found in South Dakota fishes.

Proc. S. Dak. Acad. Sci. 29:100-101

Parasite stages in bullhead flesh were not identified as to species.
Key Words: parasite

631. McPhail, J.D. 1963
The postglacial dispersal of freshwater fishes in northern North America.

Ph. D. Thesis, McGill Univ., Montreal, Can.

Reference useful in understanding natural distribution of fishes in this area.
Key Words: fishes, distribution

632. McRae, G. 1976
Possible effects of the introduction of mayflies, caddisflies, blackflies and midges into the Red River drainage via the Garrison Diversion.

Report to the International Garrison Diversion Study Board. 12 pp.
Key Words:interbasin transfer, Garrison Diversion

633. McVoy, R.S. 1974
Limnological reactions of a slow, impounded prairie stream to rural and urban contamination.

M.S. Thesis, University of North Dakota.

Coliform-type bacteria counts, plankton, dissolved oxygen and water chemistry of a small intermittent coulee flowing through farmland and through the city of Grand Forks are reported. The results are interpreted in terms of the effects of rural and urban pollution.
Key Words: stream, pollution, limnology

634. Maddux, H.R. 1985
Distribution, temperature selection, and gonadal development of fishes in a power plant cooling reservoir.

M.S. Thesis, South Dakota State University.

Gonadal development in carp, black bullheads, yellow perch, walleye and bluegills in Big Stone power plant cooling reservoir.
Key Words:Big Stone, gonad

635. Maddux, H.R., and R.L. Applegate 1984
Differential infection of walleyes by Contrcaecum spp. in heated and nonheated reservoirs.

The Prairie Naturalist 16(1):44-45.

Walleye fingerlings in heated reservoir from a power plant had more nematode parasites than walleyes in a non-heated reservoir from the power plant.
Key Words: walleye, parasite, Big Stone

636. Maderak, M.L. 1966
Sedimentation and chemical quality of surface water in the Heart River drainage basin, North Dakota.

U.S. Geological Survey, Water Supply Paper 1823.
Key Words:Heart River, water quality

637. Magnuson, J.J., and L.L. Smith, Jr. 1963
Some phases of the life history of the trout-perch.

Ecology 44(1):83-95.
Key Words: trout-perch

638. Maher, J.P. 1987
Rainbow trout cage culture utilizing different strains, stocking densities, and feeding methods in eastern South Dakota dugout ponds.

M.S. Thesis, South Dakota State University.
Key Words:rainbow trout, cage culture

639. Maianu, A. 1985
Relationship between stream flow and salinity of North Dakota rivers.

Proc. N. Dak. Acad. Sci. 39:55.
Key Words: salinity

640. Mangardi, J.L. II 1979
Inbreeding in rainbow trout (Salmo gairdneri);analysis of lethal temperature tolerance.

M.S. Thesis, South Dakota State University.
Key Words:rainbow trout, genetics, temperature tolerance

641. Marcoux, R.G. 1966
Occurrence of a melanistic paddlefish (Polyodon spathula) in Montana.

Copeia 1966(4):876.

Paddlefish was caught in Missouri River immediately downstream from Ft. Peck dam.
Key Words: paddlefish, Missouri River, Fort Peck Reservoir

642. Margenau, T.L. 1982
Evaluation of a power plant reservoir as a holding area for paddlefish brood stock.

M.S. Thesis, South Dakota State University.

Study of food habits and growth of paddlefish released in Big Stone Power Plant cooling reservoir to determine suitability to hold brood stock.
Key Words: paddlefish, Big Stone

643. Marking, L.L., T.D. Bills, J.J. Rach

and S.J. Grabowski 1983
Chemical control of fish and fish eggs in the Garrison Diversion Unit, North Dakota.

North Amer. Jour. Fish. Mgt. 3(4):410-418.

Tests on rotenone, chlorine and potassium permanganate as chemical to control fish eggs and larvae passing through Garrison Diversion Unit.
Key Words:fish control, Garrison Diversion

644. Marlar, R.A. 1974
Investigation of the initiation and continuance of avian botulism at Devils Lake, North Dakota.

M.S. Thesis, University of North Dakota.
Key Words:Devils Lake, botulism

645. Martin, D.B. 1980
Limnology of four Missouri River Reservoirs, Part II: Estimating community respiration and phytoplankton production.

Proc. S. Dak. Acad. Sci. 59:115-118.

Results of research in Lakes Oahe, Sharpe, Francis Case and Lewis and Clark, South Dakota.
Key Words: limnology, Oahe, Lake Sharpe, Lake Francis Case, Lewis and Clark Reservoir

646. Martin, D.B., L.J. Mengel, J.F. Novotny and C.H. Walburg 1981
Spring and summer water levels in a Missouri River reservoir. Effects on age-0 fish and zooplankton.

Trans. Amer. Fish. Soc. 110(3):370-381.

The effects of water levels on the early life history of fish in the Lake Francis Case, South Dakota, by comparing the abundance, growth, diet and food supply of certain species in low water years and high water years. It was concluded that water levels that included one high-water level in each three years would greatly enhance the fishery resources.
Key Words:Missouri River, reservoir, water elevation, zooplankton

647. Martin, D.B., and J.F. Novotny 1975
Nutrient limitations of summer phytoplankton growth in two Missouri River Reservoirs.

Ecology 56:199-205.

Limnological study of productivity in Lake Francis Case (Fort Randall Reservoir) and Lewis and Clark Lake (Gavins Point Reservoir).

Key Words: limnology, productivity, Lake Francis Case,
Lewis and Clark Reservoir

648. Martin, D.B., and J.F. Novotny 1977
Zooplankton standing crops in the discharge of Lake Francis Case.

Amer. Midl. Nat. 98:296-307.

Results of sampling plankton with an automatic sampler at the discharge of Lake Francis Case. Samples were collected once a week and analyzed for standing crop and composition.
Key Words: zooplankton, Lake Francis Case

649. Martin, D.B., J.F. Novotny and G.K. O'Bryan 1980
Limnology of four Missouri River Reservoirs, Part I: Physiochemistry and phytoplankton production.

Proc. S. Dak. Acad. Sci. 59:91-103.

Results of research on Lakes Oahe, Sharpe, Francis Case and Lewis and Clark, South Dakota,in 1971 and 1972.
Key Words: limnology, phytoplankton, water chemistry, Missouri River

650. Martin, R.O.R., and R.L. Hanson 1966
Reservoirs in the United States.

U.S. Geol. Surv., Water-Supply Paper 1838. Gov't Printing Office, Washington, D.C.

Contains drainage and surface areas, capacity, completion dates on the eighteen reservoirs in North Dakota over 5000 acre-feet in capacity.
Key Words: reservoir

651. Martyn, H.A. 1977
Bionomics of the flathead chub Hybopsis gracilis (Richardson).

M.A. Thesis, Univ. of South Dakota.

Specimens studied from Perry Creek, Iowa, tributary to the Missouri River at Sioux City, Iowa.
Key Words:flathead chub, age and growth, length-weight, condition, fecundity

652. Martyn, H.A. and J.C. Schmulbach 1978
Bionomics of the flathead chub, Hybopsis gracilis (Richardson).

Proc. Iowa Acad. Sci. 85(2):62-65.

Specimens taken from Perry Creek, Iowa, near Sioux City, Iowa.
Key Words:flathead chub, age and growth, length-weight, condition, fecundity

653. Matsch, C.L., and H.E. Wright, Jr. 1961
The southern outlets of Lake Agassiz.

pp. 121-140 in Life, Land and Water (W.J. Mayer-Oakes, ed.). Univ. Manitoba Press, Winnipeg, Man.

Useful in explaining the distribution of native fishes.
Key Words:Lake Agassiz

654. Mayer-Oakes, W.J. 1961
Life, Land and Water.

Univ. Manitoba Press, Winnipeg, Man.

Volume on Glacial Lake Agassiz, including distribution of fishes.
Key Words:Lake Agassiz, fishes

655. Meany, J.J. 1979
Plankton, drift, and fishes in a Missouri River reach receiving warmed water discharges.

Ph.D. Thesis, Univ. of N. Dak.

Limnological study of Missouri River at Basin Electric power plant near Stanton. Limited fish data.
Key Words:Missouri River, limnology, plankton

656. Meek, S.E. 1894
Notes on the fishes of western Iowa and eastern Nebraska.

Bull. S.A. Fish. Comm. 14:133-138
Key Words: fishes, Iowa, Nebraska

657. Meglitsch, P.A. 1963
On Myosoma hoffmani, sp. nov., inhabiting the eye of Pimephales notatus (Raf.)

Trans. Amer. Fish. Soc. 82:416-417.

Description of new species of parasite from eyes of Pimephales notatus from small streams in North Dakota.
Key Words: parasite, eye fluke, Pimephales

658. Mercil, S.B., C.M. Conway, and L.E. Shubert 1980
Phosphorus stability in a hypereutrophic lake.

In Hypereutrophic ecosystems. L. Mur, (ed.), Dr. W. Junk, publishers, The

Hague, The Netherlands.
Key Words:water chemistry, limnology, Devils Lake

659. Mercil, S.B., and L.E. Shubert 1978
Temporal changes in the phosphorus cycle of Devils Lake.
Proc. N. Dak. Acad. Sci. 32(I):39

Study made in Creel Bay, an area which receives periodic discharges from a sewage lagoon.
Key Words:Devils Lake, limnology

660. Meredith, L.P. 1962
Food habits of young-of-the-year game fishes and cyprinid fishes in two artificial impoundments of the Missouri River in South Dakota.

M.A. Thesis, Univ. of South Dakota

Studies in Lewis and Clark and Fort Randall Reservoirs.
Key Words:food habits, young-of-the-year, Lewis and Clark Reservoir, Fort Randall Reservoir

661. Metcalf, F.P. 1931
Wild duck foods of North Dakota lakes.

U.S. Dept. Agric., Tech. Bull. No. 221:1-72

Limnology and data on alkalinity in Devils Lake as well as plant duck food.
Key Words:Devils Lake, limnology, aquatic plants, ducks

662. Meyer, F.P. 1960
Life history of Marsipometra hastata and the biology of its host, Polyodon spathula.

Ph.D. Thesis, Iowa State Univ.

Life history and host relationships of this parasite from paddlefish from Mississippi River and from the tailwaters of Fort Randall Dam on the Missouri River.
Key Words: parasite, paddlefish

663. Michaletz, P.H. 1984
Utilization of rip-rap by spawning walleyes in Lake Francis Case near Chamberlain, South Dakota.

Wildlife Div. Report No. 84-86, S. Dak. Dept. of Game, Fish and Parks
Key Words: walleye, Francis Case Reservoir, spawning

664. Michaletz, P.H. and C.F. Robini 1982

Feeding ecology and growth of young-of-the-year paddlefish in hatchery ponds.

Trans. Amer. Fish. Soc. 111:700-709
Key Words: paddlefish, young-of-the-year

665. Michaletz, P.H., C.F. Robeni, W.W. Taylor, and T.R. Russell 1983
Factors affecting Daphnia declines in paddlefish rearing ponds.

Prog. Fish Cult. 45(2):76-80.
Key Words: paddlefish, Daphnia

666. Michaletz, P.H., D.G. Unkenholz and C.C. Stone 1987
Prey size selectivity and food partitioning among zooplanktivorous age-0 fishes in Lake Francis Case, South Dakota.

Amer. Midl. Natur. 107:126-138

A study of prey selectivity of age-0 walleyes, yellow perch, white bass and gizzard shad in Lake Francis Case correlated with plankton samples taken at the same time.
Key Words:Lake Francis Case, predation, zooplankton

667. Milewski, C.L., and D.W. Willis 1989
Reproduction, recruitment, and survival of brown and rainbow trout in a Prairie Coteau stream.

Prairie Naturalist 21(3):147-156.

Trout are in Gary Creek, a spring-fed creek in Deuel County in eastern South Dakota.
Key Words:life history, brown trout, rainbow trout

668. Miller, D.E. 1970
A comparison of biological characteristics of goldeye, Hiodon alosoides (Rafinesque), from various areas of Garrison Reservoir.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. 1310A

Age and growth, length-weight and condition of goldeye in five widely separated locations in Lake Sakakawea.
Key Words: goldeye, Sakakawea

669. Miller, G.L., and W.R. Nelson 1974
Goldeye, Hiodon alosoides, in Lake Oahe: abundance, age, growth, maturity, food, and the fishery, 1963-69.

U.S. Fish & Wildl. Serv., Tech. Paper 79. 13 pp.

Goldeye for study were taken in trawls, experimental gill nets, trap nets, and commercial gill nets; and comparisons were made of the data obtained by each type of gear. Food of goldeye in Oahe was similar to food of goldeye in Sakakawea.
Key Words: Oahe, life history, goldeye

670. Miller, L.M. 1984
Angler harvest survey of Lake Francis Case, South Dakota.

M.S. Thesis, South Dakota State University.

Creel census with use of an airplane to count fishermen together with ground interviews to estimate angler harvest.
Key Words:Lake Francis Case, creel survey

671. Miller, R.R. 1972
Threatened freshwater fishes of the United States.

Trans. Amer. Fish. Soc. 101(2):239-252

Lists blue sucker as endangered and pallid sturgeon, blackchin shiner, flathead catfish and trout perch as rare in North Dakota.
Key Words: endangered, rare

672. Millsop, M.D. 1985
A quantitative analysis of shoreline erosion processes, Lake Sakakawea, North Dakota.

M.S. Thesis, University of North Dakota.
Key Words:shoreline erosion

673. Millsop, M.D. 1985
A quantitative analysis of shoreline erosion processes, Lake Sakakawea, North Dakota.

Mining and Mineral Resources Institute Bull. 85-05-MMRRI-01.
Key Words:bank erosion, shore modification

674. Missouri Basin States Association 1982
Missouri River floodplain atlas.

Omaha NE. 17 p p. plus maps.
Key Words:floodplain atlas

675. Missouri Department of Conservation 1984
Checklist of rare and endangered species of the Missouri.

Natural History Section, Missouri Dept. of Conservation.

Key Words: rare, endangered

676. Missouri River Basin Inter-Agency Committee. 1971
The Missouri River Basin comprehensive framework study. Vol. 1 Comprehensive Framework Study.

Washington, D.C. 274 pp.
Key Words:Missouri Basin

677. Missouri River Commission 1898
Map of the Missouri River from its mouth to Three-Forks, Montana, in eighty-four sheets.

Missouri River Commission, Washington, D.C.

Might be useful to document changes in nearly a century.
Key Words:Missouri River, map

678. Missouri-Souris Projects Office 1989
Fisheries Technical Report.

pp. A-1 to A-83 in Riverine Technical Report, James River in North Dakota, Missouri-Souris Projects Office, Bismarck, ND

Contains fisheries data on Lake Audubon, James River, Lake Juanita, Arrowwood National Wildlife Refuge, Jamestown Reservoir, Pipestem Creek, and Sand Lake National Wildlife Refuge.
Key Words:James River, fishes

679. Mitten, H.T., C.H. Scott and P.G. Rosine 1968
Chemical quality of surface waters in Devils Lake Basin, North Dakota, 1952-1960.

U.S. Geol. Surv., Water-Supply Paper 1859-B
Key Words:Devils Lake, water quality

680. Mizelle, J.D., and D.C. Kritsky 1967
Studies on monogenetic trematodes. XXXIII. New species of Gyrodactylus and a key to the North American species.

Trans. Amer. Microsc. Soc. 86(3):390-401.

New species described from fathead minnow from Cottonwood Lake, two miles north of Butte, North Dakota. Other new species described from other locations.
Key Words: parasite, flathead minnow

681. Mizelle, J.D., and H.O. McDougal 1970
Studies on monogenetic trematodes. XLV. The genus Dactylogyrus in North

America. Key to species, host-parasite and parasite-host lists, localities, emendations and description of D. dritsky, sp.n.

Amer. Midland Nat. 84:444-462.
Key Words: parasite

682. Moberg, E.J. 1917
Variation in the horizontal distribution of plankton in Devils Lake, North Dakota.

M.S. Thesis, University of North Dakota.

Study to determine the uniformity of horizontal distribution of plant and animal plankton at different locations and time intervals in Devils Lake in 1914, 1915, and 1916.
Key Words:Devils Lake, plankton

683. Moberg, E.J. 1918
Variations in the horizontal distribution of plankton in Devils Lake, North Dakota.

Trans. Amer. Micr. Soc. 37:239-267
Key Words:Devils Lake, plankton

684. Modde, T.C. 1973
Food selectivity of the shovelnose sturgeon, Scaphirhynchus platorynchus, in the Missouri River.

M. A. Thesis, Univ. of S. Dak., Vermillion, SD 107 pp.

Study of food habits (stomach contents) of sturgeon in 10 mile stretch of unchannelized river 30 miles downstream from Gavins Point Dam, South Dakota. Available benthic and drift organisms were sampled in the same area and compared with the food items found in sturgeon stomachs.
Key Words:shovelnose sturgeon, food, Missouri River, benthos

685. Modde, T.C. 1980
State stocking policies for small warmwater impoundments. Fisheries 5:13-17.

Amer. Fish. Soc., Bethesda, MD.

Results of a national survey of state agencies on stocking policy.
Key Words: stocking

686. Modde, T.C. 1986
Pond management strategies: recommendations for enhancement of the South Dakota pond fishery.

Available from the Wildlife and Fisheries Science Dept., SD State Univ., Brookings.
Key Words: pond, management

687. Modde, T., H.G. Drewes and M.A. Rumble 1986
Effects of watershed alteration on the brook trout population on a small Black Hills stream.

Great Basin Naturalist 46:39-45.

Evaluation of effects of landscaping and livestock on brook trout.
Key Words:Black Hills, stream alteration, brook trout

688. Modde, T.C., and C.G. Scalet 1985
Latitudinal growth effects on predator-prey interactions between largemouth bass and bluegills in ponds.

N. Amer. Jour. Fish. Mgt. 5:227-232

Study of growth of largemouth bass in northern great plains and their ability to control bluegill population growth.
Key Words: predation, bass-bluegill, largemouth bass, bluegill

689. Modde, T.C., and C. G. Scalet 1986
Latitudinal influences upon largemouth bass and bluegill interactions in small impoundments.

in R.H. Stroud (ed.) Fish Culture in Fisheries Management, pp. 201-207. Fish Culture Section, Fisheries Management Section, Amer. Fish. Soc., Bethesda, MD

Study of differences in ability of largemouth bass to control bluegills in northern great plains because of difference in growth rates between these species farther north.
Key Words: predation, bass-bluegill, largemouth bass, bluegill

690. Modde, T.C., and J.C. Schmulbach 1973
Seasonal changes in the drift and benthic macroinvertebrates in the unchannelized Missouri River in South Dakota.

Proc. S. Dak. Acad. Sci. 52:118-126

Results of study made in 1971 and 1972 near Vermillion, S.D. Seasonal changes were observed. Drift organisms were primarily members of Trichoptera, Diptera and Ephemeroptera.
Key Words:Missouri River, benthos

691. Modde, T.C., and J.C. Schmulbach 1977
Food and feeding behavior of the shovelnose sturgeon, Scaphirhynchus platorynchus, in the unchannelized Missouri River, South Dakota.

Trans. Amer. Fish. Soc. 106(6):602-608

Results of a study in a 16.1 km unchannelized section of the Missouri River between Gavins Point Dam and Ponca, Nebraska.
Key Words:Missouri River, sturgeon

692. Modde, T.C., and C.C. Stone 1980
Growth and biomass of largemouth bass (Micropterus salmoides) in a western South Dakota stock pond.

Proc. S. Dak. Acad. Sci. 59:138-146.

Age and growth and biomass estimate.
Key Words:largemouth bass, age and growth, biomass

693. Moen, T.E. 1970
The occurrence of black buffalo, Ictiobus niger (Rafinesque), in Lake Mitchell, South Dakota.

Proc. S. Dak. Acad. Sci. 49:42-45

Lake Mitchell is an impoundment immediately adjacent to and draining into James River in S.Dak.
Key Words:black buffalo, James River, Lake Mitchell

694. Moen, T.E. 1974
Population trends, growth and movement of bigmouth buffalo, Ictiobus cyprinellus, in Lake Oahe, 1963-70.

U.S. Fish and Wildl. Serv., Tech. Paper No. 78. 20 pp.

Population was sampled by large trap nets. Mark and recovery population estimates made on fish recovered in commercial catch and in traps. Population was dominated by three year classes, 1959, 1960 and 1962.Population trends, growth and movement were reported. Commercial fishing is expected to decline after these year classes are gone.
Key Words: Oahe, bigmouth buffalo

695. Moen, T.E., and D.L. Henegar 1971
Movement and recovery of tagged northern pike in Lake Oahe, South and North Dakota, 1964-68.

pp. 85-93 in G.E. Hall (ed.), Reservoir Fisheries and Limnology. Amer. Fish. Soc. Spec. Publ. No 8. Washington, D.C.

Data from 2019 northern pike recovered from 6958 tagged in Lake Oahe in 1964-1968. Includes movement, angling mortality, and growth information.
Key Words: Oahe, northern pike, mark and recapture

696. Montgomery, V.E. and L. Thompson 1969
Trout fishing in the Black Hills of South Dakota.

Bull. No. 100, Business Research Bureau, School of Business, and S. Dak. Dept. of Game, Fish and Parks, Div. of Fisheries, Pierre, SD
Key Words:Black Hills, trout

697. Moore, G.T. 1917
Algological notes. II Preliminary list of algae in Devils Lake, North Dakota.

Ann. Mo. Bot. Garden 4:293-303
Key Words:Devils Lake, algae

698. Moore, G.T., and N. Carter 1923
Algae from the lakes in the northeastern part of North Dakota.

Ann. Mo. Bot. Garden 10:393-492

Study of algae found in dozens of lakes throughout northeastern North Dakota. Algae found in "alkaline" lakes contrasted with species found in freshwater lakes.
Key Words: limnology, phytoplankton

699. Moos, R.E. 1969
Tagging studies on the shovelnose sturgeon in the Missouri River, South Dakota.

Proc. S. Dak. Acad. Sci. 48:197

Presented at 54th annual meeting of the S.D. Academy and published by title.
Key Words: sturgeon, Missouri River, mark and recapture

700. Moos, R.E. 1978
Movement and reproduction of shovelnose sturgeon, Scaphirhynchus platorynchus (Rafinesque), in the Missouri River, South Dakota.

Ph.D. Dissertation, Univ. S. Dak.

Sturgeon were tagged for movement studies and population estimates in the river downstream from Gavins Point Dam. The microscopic anatomy of gonads during the reproductive cycle are reported.
Key Words:shovelnose sturgeon, mark and recapture, reproduction, population estimate, movement

701. Morris, C.E. 1985
Evaluation of structure and growth of blugills and black bullheads stocked

with largemouth bass in South Dakota farm ponds.

M.S. Thesis, South Dakota State University.

Eighty ponds were stocked with various combinations of largemouth bass, black bullheads, bluegills, golden shiners and fathead minnows to test standing crops produced, growth, condition, survival rates and population structures produced.
Key Words: bluegill, largemouth bass

702. Morris, L.A. 1965
Age and growth of the river carpsucker, Carpiodes carpio, in the Missouri River.

Amer. Midland Naturalist 73(2):423-429

Study of river carpsucker in Missouri River between Omaha and Sioux City in 1961 and 1962.
Key Words:Missouri River, river carpsucker, age and growth

703. Morris, L.A. 1965
Job completion report. Sauger and walleye investigations in the Missouri Rivers.

Project No. F-4-R-10. Job No. 21. Nebraska Game and Parks Comm., Lincoln, Nebr.
Key Words:Missouri River, sauger, walleye

704. Morris, L.A. 1969
Job progress report - Flathead catfish investigations in the Missouri River.

Project No. F-4-R-14, Job No. 23. Nebraska Game and Parks Comm., Lincoln, Nebr.
Key Words:Missouri River, flathead catfish

705. Morris, L.A., R.N. Langemeier,
T.R. Russell and A. Witt, Jr. 1968
Effects of main stem impoundments and channelization upon the limnology of the Missouri River, Nebraska.

Trans. Amer. Fish. Soc.97:380-388

A three-year limnological survey of the river from Gavins Point Dam to the Nebraska-Kansas boundary. Includes chemical and physical characteristics, temperature, total alkalinity, pH, total dissolved solids, turbidity and biological organisms in benthos, drift and Aufwuchs as affected by rock structures, dikes, and other structures.
Key Words:Missouri River, sauger, walleye, limnology

706. Morris, L.A., R.N. Langemeier and A. Witt, Jr. 1970
The flathead catfish in unchannelized and channelized Missouri River, Nebraska.

Mimeo Report. Dingell-Johnson Project F-4-R. U.S. Fish & Wildl. Serv., Mo. Dept. of Conservation, and Nebraska Game, Fish and Parks Serv., Lincoln, Nebr.
Key Words:Missouri River, flathead catfish

707. Mossier, J.N. 1971
The effect of salinity on the eggs and sac fry of the fathead minnow, Pimephales promelas, northern pike, Esox lucius, and walleye, Stizostedion vitreum.

M. S. Thesis, N. Dak. State Univ.
Key Words:fathead minnow, northern pike, walleye, salinity

708. Moyle, J.B., and W.D. Clothier 1959
Effects of management and winter oxygen levels on the fish populations of prairie lakes.

Trans. Amer. Fish. Soc. 88(3):178-185

Data on effects of removal of carp and black bullheads in Lake Traverse on survival of populations of walleye, crappies, channel catfish and bluegill. Includes dissolved oxygen levels.
Key Words:fish control, carp, black bullhead

709. Moyle, P.B. 1986
Fish introductions into North America: Patterns and ecological impact.

pp. 27-43 in Mooney, H.A., and J.A. Drake: Ecology of Biological Invasions of North America and Hawaii.
Key Words: introduction, environmental impact

710. Musyl, M.K. 1983
Age, growth, length-weight relationship and coefficient of condition of the rainbow smelt, Osmerus mordax (Mitchill) from Lake Oahe, South Dakota.

M.A. Thesis, Univ. of South Dakota.
Key Words:age and growth, length-weight, condition

711. Muth, R.T. 1979
Ichthyoplankton of the lower James River, South Dakota.

M.A. Thesis, Univ. of South Dakota.

From samples taken near Vermillion, South Dakota.
Key Words: plankton, ichthyoplankton

712. Muth, R.T., and J.C. Schmulbach 1984
Downstream transport of fish larvae in a shallow prairie river.

Trans. Amer. Fish. Soc. 113(2):224-230

A study of ichthyoplankton drift samples from the James River, South Dakota during 1978 spring and summer. Report time of movement during 24 hour period during spring and summer months for 16 taxa representing six families.
Key Words:James River, fish larvae

713. Myers, G.L. 1973
Prairie pothole ecology and feasibility of growing rainbow trout (Salmo gairdneri) in prairie potholes.

M. S. Thesis, N. Dak. State Univ.

Predation by birds and possibly by salamanders caused high mortality in three out of four lakes in Stutsman County stocked with rainbow trout.
Key Words:rainbow trout, fish culture, pothole lakes

714. Myers, G.L., and J.J. Peterka 1973
Feasibility of growing rainbow trout (Salmo gairdneri, Richardson) in prairie pothole lakes of North Dakota.

Proc. N. Dak. Acad. Sci. 27(I):23 (abstract)

Gives sizes, depth, stocking rate and percent recovery from four experimental plantings, in 1971 and 1972. Summerkill eliminated all trout in two lakes.
Key Words:rainbow trout, summer kill

715. Myers, G.L., and J.J. Peterka 1976
Survival and growth of rainbow trout (Salmo gairdneri) in four prairie lakes, North Dakota.

Jour. Fish. Res. Board Canada 33(6):1192-1195

Predation by birds and possibly by salamanders caused high mortality in three out of four lakes in Stutsman County stocked with rainbow trout.
Key Words:rainbow trout

716. Namminga, H. 1969
An investigation of the macroscopic drift fauna of the Missouri River.

M.A. Thesis, Univ. of South Dakota. 75 pp.

Samples taken in unaltered areas of the Missouri River near Vermillion, S.D.
Key Words: benthos, unchannelized

717. Needham, R.G. 1962
Effects of toxaphene upon plankton and aquatic invertebrates in North Dakota lakes.

M.S. Thesis, Montana State College
Key Words: toxaphene

718. Needham, R.G. 1966
Effects of toxaphene on plankton and aquatic invertebrates in North Dakota Lakes.

U.S. Fish & Wildl. Serv., U.S. Bureau of Sport Fisheries and Wildlife Resources, Publ. No. 8
Key Words: toxaphene

719. Neel, J.K. 1963
Impact of reservoirs.

pp. 575-593 in Limnology in North America. D.G. Fry (ed.). Univ. Wisc. Press, Madison, Wisc.

General discussion of the effects of reservoirs on large rivers with examples of dams on the Missouri River in the Dakotas.
Key Words: limnology, water quality, reservoirs

720. Neel, J.K. 1968
Reservoir eutrophication and dystrophication following impoundment.

pp. 322-332 in C.E. Love, Jr., (ed.), Reservoir Fishery Symposium. Southern Div., Amer. Fish. Soc., Athens, Ga.

Contains general discussion of productivity in inland waters, and a discussion on water quality and productivity in Ft. Peck, Ft. Randall, Garrison (Lake Sakakawea) and Gavins Point Reservoir as evidenced by changes in plankton abundance in the reservoirs and in the downstream river segments. Changes in hardness, alkalinity, phosphorus and ammonia over time are discussed.
Key Words: limnology, Fort Peck Reservoir, Fort Randall Reservoir, Sakakawea, Gavins Point Reservoir

721. Neel, J.K. 1973
Beaver influences on stream channels, bottoms, algae, and macrobenthos.

Proc. N. Dak. Acad. Sci. 17(I):24 (abstract)

Summary of effects. Immediate effects were usually catastrophic from scouring of channels after a segment of the dam washed out.
Key Words: stream, beavers, limnology

722. Neel, J.K. 1974
Limnological characteristics of the Devils Lake chain, effects of recent dewatering, and projected influences of Garrison Diversion.

Mimeographed report to the U.S. Bureau of Reclamation, Bismarck, ND
Key Words: limnology, Devils Lake

723. Neel, J.K. 1974
The limnobiology of Devils Lake chain.

North Dakota Water Resources Inst. Rept. of OWRR, Project No. WI-OLI-026-74.
Key Words: limnology, Devils Lake

724. Neel, J.K. 1974
Chemical and biological characteristics of the Missouri River below Garrison Dam.

Proc. N. Dak. Acad. Sci. 28 (I):25 (abstract)

Water 20 miles below Garrison Dam had discharge and water quality largely controlled by Garrison Dam releases.
Key Words:Garrison Dam, limnology, Missouri River

725. Neel, J.K. 1974
Warmed water and water quality in the Missouri River twenty miles below Garrison Dam.

Report to Basin Electric Power Coop., Bismarck, ND. 25 pp.

The Missouri River was sampled in transects above the thermal streak, in the thermal streak and below the thermal streak to determine the effects of discharge of heated water from condensers of UPA Power Plant. Alkalinity, hardness, magnesium, ammonia, nitrate, phosphorus, sulphate, chloride, and conductivity were principal chemical determinations. Plankton and benthos were studied and observations were made on fish.
Key Words:heated effluent, water quality, limnology

726. Neel, J.K. 1978
Life in the Missouri River with warming by 676 megawatts steam-generated power production.

Report to Basin Electric Power Coop., Bismarck, ND. 31 pp., 35 figs., 32 tables
Key Words:heated effluent, water quality, limnology

727. Neel, J.K. 1978
Changing Mg/Ca ratio as a measure of lake productivity.

Proc. N. Dak. Acad. Sci. 32(I):39 (abstract)
Key Words: limnology, productivity

728. Neel, J.K. 1980
Precipitation, evapotranspiration, and runoff in a northern prairie watershed.

Proc. N. Dak. Acad. Sci. 30:23
Key Words: Turtle River, limnology

729. Neel, J.K. 1983
Riffle dwelling diptera in a northern prairie stream.

Proc. N. Dak. Acad. Sci. 37:85

List of diptera in the Turtle River, tributary to the Red River of the North in North Dakota.
Key Words: stream, diptera, limnology, Red River

730. Neel, J.K. 1985
A Northern Prairie Stream.

Univ. of N. Dak. Press, Grand Forks, ND

A comprehensive limnological and biological survey of a small stream throughout the four seasons. The meteorology, physical stream features, chemical conditions, primary production and macrobenthos are reported in detail.
Key Words:Turtle River, limnology, water chemistry, benthos, productivity

731. Neel, J.K., H.P. Nicholson and A. Hirsch 1963
Main stem reservoir effects on water quality in the central Missouri River.

U.S. Dept. Health Education and Welfare, Public Health Service, Region VI: Water Supply and Pollution Control, Kansas City, Mo. 112 pp.
Key Words:water quality, limnology

732. Neel, J.K., and J.W. Vennes 1969
The limnobiochemistry of Devils Lake, North Dakota.

N. Dak. Water Resources Research Inst. Completion Report, Project No. A-014-NDAK

Progress report of work under way and later reported in Anderson (1969), Knauss (1970) and Buchli (1969).
Key Words:Devils Lake, limnology, water chemistry

733. Nelson, D.C., and L.G. Blaufuss 1968
An economic analysis of existing markets for commercial fish from the upper midwest.

Agr. Econ. Report No. 59. Dept. of Agr. Econ., Agricultural Exper. Sta., N. Dak. State Univ., Fargo, ND. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No 1305

Describes commercial fishing, processing and marketing in the midwest, including markets in Chicago, local markets, and in Winnipeg. Discusses economics and price variations in buffalofish, carp and bullhead, including alternative markets for North Dakota fish and their competitive position in these markets.
Key Words:commercial fishery, economics

734. Nelson, E.A. 1981
Diel periodicity and seasonal abundance in the macroinvertebrate drift of the lower James River.

M. A. Thesis, Univ. of South Dakota.

Samples taken over a period of four years near Vermillion, S.D.
Key Words: invertebrates, drift

735. Nelson, G.L. 1974
A limnological investigation of the periphyton community in the unchannelized Missouri River with emphasis on the diatoms.

M.A. Thesis, Univ. of South Dakota, Vermillion. 66 pp.

Samples were taken in the river three miles east of Vermillion S.D.
Key Words: diatoms, limnology, periphyton

736. Nelson, R.D., and M.G. Butler 1987
Seasonal abundance of larval and adult chironomids (Diptera:chironomidae) in four prairie wetlands.

Proc. N. Dak. Acad. Sci. 41:31.

Records from a study area in Stutsman County, N. Dak.
Key Words: chironomidae, limnology

737. Nelson, W.R. 1966
Carp, river carpsucker, smallmouth buffalo and bigmouth buffalo in Lewis and Clark Lake, Missouri River.

U.S. Fish and Wildlife Service, Research Report 69.
Key Words:smallmouth buffalo, bigmouth buffalo, carpsucker, Lewis and Clark Reservoir

738. Nelson, W.R. 1968
Reproduction and early life history of sauger, Stizostedion canadense, in Lewis and Clark Lake.

Trans. Amer. Fish. Soc. 97:159-166

Reports spawning, spawning temperature, egg survival, larval food and other factors affecting year-class strength.
Key Words:Lewis and Clark Reservoir, sauger, spawning

739. Nelson, W.R. 1968
Embryo and larval characteristics of sauger, walleye, and their reciprocal hybrids.

Trans. Amer. Fish. Soc. 97(2):167-174

Describes the development of larval sauger and walleye and both hybrid crosses. Study made in Lewis and Clark Lake.
Key Words: sauger, walleye, fish larvae

740. Nelson, W.R. 1969
Biological characteristics of the sauger population in Lewis and Clark Lake.

U.S. Bureau of Sport Fisheries and Wildlife, Tech. Paper No. 21, 11 pp.

Contains age and growth, sex ratio, maturity, fecundity, movements of tagged fish and exploitation rates for sauger in Lewis and Clark Lake (Gavins Point Reservoir) and the Missouri River between Gavins Point Dam and Ft. Randall Dam.
Key Words:Lewis and Clark Reservoir, sauger

741. Nelson, W.R. 1974
Age, growth, and maturity of thirteen species of fish from Lake Oahe during the early years of impoundment, 1963-68.
U.S. Dept of the Interior, Fish & Wildl. Serv., Tech. Paper No. 77. 29 pp.

These 8 species grew at a faster rate than in other Missouri River reservoirs:

goldeye	white bass
bigmouth buffalo	smallmouth buffalo
black crappie	white crappie
walleye	freshwater drum

These 4 species had similar growth in other Missouri River reservoirs:

carp	yellow perch
northern pike	sauger

The river carpsucker grew slower in Oahe than in other Missouri River reservoirs.
Key Words: Oahe, age and growth

742. Nelson, W.R. 1978
Implications of water management in Lake Oahe for the spawning success of coolwater fishes. Selected coolwater fishes of North America.

Amer. Fish. Soc. Spec. Publ. 11:154-158

Spawning success of northern pike, yellow perch, walleye and sauger described and related to filling and water levels of Lake Oahe between 1953 and 1967.
Key Words: Oahe, spawning, water elevation

743. Nelson, W.R. 1980
Ecology of larval fishes in Lake Oahe, South Dakota.

U.S. Fish & Wildl. Serv. Tech. Paper No. 101

Time and location of spawning, habitat preferences of young-of-the-year and nursery areas utilized for goldeye, walleye, sauger, white suckers, buffalo, carp, crappies, yellow perch, burbot and some minnows and darters are reported. Tributary rivers were the exclusive spawning grounds for goldeye, walleye, sauger, white suckers and Hybognathus spp.; and year class strengths of these species were strongly correlated with river flows during the spawning season. Reservoir water levels and inundated vegetation are correlated with year-class strengths of reservoir spawners.
Key Words: Oahe, fish larvae, spawning

744. Nelson, W.R., and M.F. Boussu 1974
Evaluation of trawls for monitoring and harvesting fish populations in Lake Oahe, South Dakota.

U.S. Fish & Wildl. Serv. Tech. Paper No. 76. 15 pp.

Four different designs of semiballoon trawls and two different designs of high-rise trawls were tested in Lake Oahe. Small mesh trawls are recommended to improve accuracy in monitoring fish populations in this reservoir.
Key Words: Oahe, trawl

745. Nelson, W.R., N.R. Hines and L.G. Beckman 1965
Artificial propagation of saugers and hybridization with walleyes.

Prog. Fish. Cult. 27(4):216-218

Methods used to propagate saugers artificially and hybridize walleyes and saugers are described.
Key Words: walleye, sauger, fish culture

746. Nelson, W.R., D.B. Martin, L.G. Beckman,
D.W. Zimmer, and D.J. Highland 1977
Reservoir ecosystems and western coal development in the upper Missouri River.

U.S. Environ. Prot. Agency EPA-908/4-78-006
Key Words:coal development, reservoir

747. Nelson, W.R., D.B. Martin, L.G. Beckman,
D.W. Zimmer and D.J. Highland 1978
Prediction of the effect of energy development on the aquatic resources of two upper Missouri River reservoir ecosystems.

U.S. Fish & Wildl. Serv. Report. FWS/OBS 0-33-76 and EPA-IAG-D6-FO79 Denver, Colo. 89 pp.
Key Words:coal development, reservoir

748. Nelson, W.R., R.E. Siefert and D.V. Swedberg 1967
Studies of the early life history of reservoir fishes.

pp. 374-385 in Reservoir Fishery Symposium, Southern Div., Amer. Fish. Soc.

Methods of capturing and studying life histories of young-of-the-year reservoir fish are described in Lewis and Clark Lake. Otter trawls, bag seines, fry nets, suction devices, electric shockers, and units of effort described. Sauger, white crappie, freshwater drum and yellow perch studies described.
Key Words:life history, young-of-the-year, sampling

749. Nelson, W.R., and C.H. Walburg 1977
Population dynamics of yellow perch (Perca flavescens), sauger (Stizostedion canadense), and walleye (S. vitreum vitreum), in four mainstem Missouri River reservoirs.

Jour. Fish. Res. Board Canada 34:1748-1763

Study covering 18 years in Lewis and Clark, Francis Case, Sharpe and Oahe Reservoirs.
Key Words:population dynamics, yellow perch, sauger, walleye, Missouri River

750. Nerhus, P.T. 1920
A study of the solubility relations of the salts in Devils Lake water.

M.S. Thesis, University of North Dakota.
Key Words:Devils Lake, water chemistry

751. Newcomb, B.A. 1985
Population estimates of lower channelized Missouri River commercial fish.

Nebraska Game and Parks Commission, Progress Report, National Marine Fisheries Service, Project 2-402-R, Lincoln, NE
Key Words: channelized, population estimate

752. Newcomb, B.A. 1989
Winter abundance of channel catfish in the channelized Missouri River,

Nebraska.

N. Amer. Jour. Fish. Management 9(2):195-202.

Results of population estimates of channel catfish in channelized Missouri River in winter months of 1983-1987. Electrofishing was used to recover marked fish from deep water near dikes.
Key Words:channel catfish, Missouri River, population estimate

753. Newell, R.L. 1976
Yellowstone River study.

Final Report to Intake Water Company, by Montana Dept. of Fish and Game, Helena.
Key Words:Yellowstone River, Intake

754. Nicholson, A.J., and H.M. Borges 1955
Creel census and expenditure studies, Missouri River Basin, 1947-1952.

Special Scientific Report: Fish. No. 141

Summary of creel census results in cold water and warm water reservoirs and streams in the Missouri River basin. Includes catch per hour in Ft. Peck Reservoir and in Black Hills reservoirs.
Key Words:Missouri River, creel survey, economics

755. Nickum, J.C. 1970
Limnology of winterkill lakes in South Dakota.

pp. 19-23 in A Symposium on the Management of Midwestern Winterkill Lakes. E. Schneberger(ed.), North Central Div., Amer. Fish. Soc.
Key Words: winterkill, limnology

756. Nickum, J.G. 1972
Chemical, physical and biological dynamics of Northern Prairie Lakes.

U.S. Office of Water Res. Technol. Completion Report. B-002-S. DAK.
Key Words:pothole lakes, limnology

757. Nickum, J.G. 1978
Intensive culture of walleyes: the state of the art.

pp. 187-197 in R.L. Kendell, (ed.), Selected Coolwater Fishes of North America. Amer. Fish. Soc., Spec. Publ. 11
Key Words: walleye, fish culture

758. Nickum, J.G., and J.A. Sinning 1971
Fishes of the Big Sioux River. An Annotated List.

Proc. S. Dak. Acad. Sci. 50:143-152

The Big Sioux is tributary to the Missouri River in South Dakota.
Key Words:Big Sioux River, fishes

759. Norby, R.D., A.M. Cvancara and J.B. Van Alstine 1974
Mollusks of the Sheyenne River, North Dakota, past and present.

Proc. N. Dak. Acad. Sci. 28(I):25 (abstract)

Results of sampling in 1966, 1968, 1969, and 1973.
Key Words:Sheyenne River, molluska

760. Nord, A.E. 1971
The use of artificial substrate to study the macroinvertebrate Aufwuchs community of the Missouri River.
M.A. Thesis, Univ. of South Dakota. 55 pp.

Samples were collected on various types of artificial substrates at various distances and in various types of location downstream from Gavins Point Dam.
Key Words: limnology, aufwuchs, unchannelized, Missouri River

761. Nord, A.E., and J.C. Schmulbach 1973
A comparison of the macroinvertebrate Aufwuchs in the unstabilized and stabilized Missouri River.

Proc. S. Dak. Acad. Sci. 52:127-139

Results of collections made from foot of Gavins Point Dam to Sioux City, Iowa, in 1970.
Key Words: aufwuchs, Missouri River, bank stabilization, invertebrates

762. Nordin, R.N. 1971
Population dynamics of a plankton community in Hooker Lake, Rolette County, North Dakota.

M.S. Thesis, University of North Dakota.

Qualitative and quantitative plankton study made in summer and fall of 1970 and spring of 1971 in Hooker Lake in the Turtle Mountains, North Dakota.
Key Words: plankton, Hooker Lake, Turtle Mountains

763. Nordin, R.N. 1971
Zooplankton-phytoplankton interrelationships in Hooker Lake, Rolette County, North Dakota.

North Dakota Game and Fish Dept., Dingell-Johnson Division, F-2-R-2, also Report No. A-1026.

(same as M.S. Thesis above)
Key Words: plankton, Hooker Lake, Turtle Mountains

764. Nordin, R.N., and J.B. Owen 1973
Zooplankton-phytoplankton interrelationships in Hooker Lake, Rolette County, N. Dak.

Proc. N. Dak. Acad. Sci. 26(II):55-59

An inverse relationship between zooplankton and phytoplankton was seen between June 1970 and May 1971.
Key Words: plankton, Hooker Lake, Turtle Mountains

765. Nordlie, F., J.C. Underhill, and S. Eddy 1961
New distributional records of some Minnesota fishes.

Proc. Minn. Acad. Sci. 29:255-258

Reports the stoneroller, Campostoma anomalum Rafinesque, in the Forest River, North Dakota for the first time.
Key Words: fishes, stoneroller, Forest River, Red River

766. North Dakota State Outdoor Recreation Agency 1968
The impact of Garrison Diversion on outdoor recreation in North Dakota.

ND State Outdoor Recreation Agency.
Key Words:Garrison Diversion, recreation

767. Northern Great Plains Resources Program 1975
Effects of Coal Development in the Northern Great Plains. A review of major issues and consequences at different rates of development. Prepared in cooperation with federal, state, regional, local and private organizations. Denver Colo. 165 pp.

Contains an estimate of depletion of flow of Missouri River by the year 2000 because of irrigation and energy development.
Key Words: irrigation, coal development

768. Novotony, J.F. 1975
Guide to the identification of common crustacean zooplankton in Missouri River reservoirs.

North Central Reservoir Investigations. U.S. Fish and Wildlife Service, Yankton, SD. Mimeo, 64 pp.
Key Words: zooplankton, Missouri River, reservoirs

769. Novotny, J.F. 1978
Diurnal characteristics of drifting macroinvertebrates in the Missouri River, 1976.

Proc. S. Dak. Acad. Sci. 56:144-153.

Four locations were sampled in the unchannelized and channelized sections of the Missouri River from Fort Randall Dam to a point 32 km below Sioux City, Iowa. Insects made up 94% of the macroinvertebrate drift. Drifting macroinvertebrates increased at night. Areas of high production were identified.
Key Words:Missouri River, bank stabilization, invertebrates

770. Novotny, J.F., and D.B. Martin 1980
Zooplankton in the discharge of Lewis and Clark Lake, South Dakota, 1964-73.

Proc. S. Dak. Acad. Sci. 59:43-61

Crustacean zooplankton sampled with an automatic plankton sampler.
Key Words: zooplankton, Lewis and Clark Reservoir

771. Nursall, J.R., and V. Lewin 1964
The stonecat, Noturus flavus, recently recorded in Alberta.
Can. Field Natur. 78:128-129

Three stonecats were caught in the Milk River, June 19-20, 1962, about 18 miles west of Wildhorse, Alberta.
Key Words:Milk River, stonecat

772. Ober, R.D. 1976
Food habits of northern pike, Esox lucius Linaeus, black bullheads, Ictalurus melas (Rafinesque), and white bass, Morone chrysops, (Rafinesque), in Lake Ashtabula, North Dakota.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division Report No. 1327.

Fish were taken in gill nets lifted every three hours during a 24 hour period each week during the summer of 1972. Hours of feeding activity and stomach contents were identified and analyzed by volume, frequency of occurrence and percentage each sampling period.. All fish found in northern pike stomachs were yellow perch plus a few cladocera and insects. Bullheads took a wide variety of food, including mollusca, insects and cladocera. White bass took fish and cladocera in about equal volumes with some insects. More northern pike, bullhead and white bass were caught in the upper end of the reservoir with an equal amount of effort.
Key Words:food habits, Lake Ashtabula, black bullhead, northern pike, white bass

773. O'Bryan, G.K., and F.C. June 1987
Zooplankton biomass exchange in Lake Sharpe, South Dakota, 1974-1975.

pp. 21-29 in Limnological and Fishery Studies on Lake Sharpe, a main-stem

Missouri River Reservoir, 1964-1975. U.S. Fish & Wildl. Serv. Fish and Wildlife Tech. Rept. 8.

Results of sampling plankton in Oahe Dam tailwater and tailwater and forebay of Big Bend Dam.
Key Words: zooplankton, Lake Sharpe

774. Olsen, J.A., D.Z. Hopewell, and W.R. Dorband 1979
Effects of agricultural land usage patterns on shallow prairie lake ecosystems.

Proc. N. Dak. Acad. Sci. 33:73.

Four shallow lakes 25-30 miles west of Sioux Falls, S.D., were observed for conductivity, total alkalinity, pH, nitrate, orthophosphate and total suspended solids under different land usage. Zooplankton and benthic communities were reported qualitatively.
Key Words: limnology, zooplankton, benthos

775. Olson, T.A. 1932
Investigation of fish life in certain streams tributary to the Red River of the North.

Minn. Dept. Health, Div. of Sanitation. (mimeo).
Key Words: fishes, Red River

776. Osberg, B.L. 1973
A recreational resources utilization study of the Missouri River and adjacent lands extending from Yankton, South Dakota, to Rulo, Nebraska.

M.A. Thesis, Univ. of South Dakota.
Key Words: recreation, Missouri River

777. Osborn, H.L. 1900
A remarkable axolotl from North Dakota.

Amer. Nat. 34:551-562.
Key Words: salamander

778. Osborn, H.L. 1901
On some points in the anatomy of a collection of axolotls from Colorado and a specimen from North Dakota.

Amer. Nat. 35:887-904.
Key Words: salamander

779. Over, W.H. 1942
Mullusca of South Dakota.

Natural History Studies No. 5 (mimeo). Univ. of S. Dak., Vermillion.
Key Words: molluska

780. Over, W.H., and E.P. Churchill 1927
A preliminary report of a biological survey of the lakes of South Dakota.

S. Dak. Geol. Nat. Hist. Surv., Circ. No. 29:1-18.
Key Words:lake survey

781. Owen, J.B. and F.G. Duerr 1974
Nutrient sources and lake nutrient dynamics as affected by commercial and sport fishery harvests in Lake Ashtabula, North Dakota.

North Dakota Game and Fish Dept. Report No. 1322

A study of the feasibility of removing annual accumulations of nitrogen and phosphorus by increased harvests of commercial fish. It was indicated that increased harvests would be inadequate to remove annual accumulations of phosphorus.
Key Words:Lake Ashtabula, nutrients, commercial fishery

782. Owen, J.B., D.S. Elsen and G.W. Russell 1981
Distribution of fishes in North and South Dakota Basins affected by the Garrison Diversion Unit.

Fisheries Research Unit, Univ. of N. Dak.

A study of the distribution of fishes in the Red River of the North, Souris, Sheyenne and Wild Rice River Basins and the Devils Lake Basin in North Dakota and the James River Basin in North and South Dakota. The possibility of transfer of fish species from the Missouri River drainage to the Hudson River drainage through features of the Garrison Diversion Unit are examined.
Key Words: fishes, Red River, Souris River, Sheyenne River, Wild Rice River, James River

783. Owen, J.B., R. Tubb, D.W. Anderson, R. Armstrong and E. Callender 1973
The biogeochemistry of Devils Lake.

N. Dak. Water Resources Research Inst., N. Dak. State Univ., Fargo, and Univ. of N. Dak., Grand Forks.
Key Words: limnology, Devils Lake, bottom fauna, water chemistry, sedimentation

784. Owen, J.B., and C.H. Wahtola, Jr. 1970
A preliminary report on age and growth of a black bullhead population under commercial exploitation in North Dakota.

Institute for Ecol. Studies, Univ. of N. Dak. Research Report No. 2. Also

North Dakota Game and Fish Dept., Dingell-Johnson Division, Reports No. 1304 and 1313A (slightly modified text).

The good growth of bullheads in Lake Ashtabula in 1969 was attributed to the commercial fishery.
Key Words: bullhead, Lake Ashtabula, commercial fishery

785. Owen, J.B., and C.H. Wahtola, Jr. 1972
The vertical and lateral distribution of goldeye, Hiodon alosoides, and yellow perch, Perca flavescens, in the Little Missouri Arm, Lake Sakakawea.

Proc. N. Dak. Acad. Sci. 26(part I):16 (abstract)

Goldeye were found most often in upper strata and were most abundant in the turbid upstream portion of the arm. Yellow perch were more often found in the deeper strata but were equally abundant along the entire arm.
Key Words: Sakakawea, goldeye, yellow perch

786. Owen, J.B., and C.H. Wahtola, Jr. 1972
The vertical distribution of channel catfish (Ictalurus punctatus) in the Little Missouri Arm of Lake Sakakawea, North Dakota.

Proc. N. Dak. Acad. Sci. 27(I):37 (abstract).

Depth preference of catfish at four stations along the length of the Little Missouri Arm as sampled by vertical gill nets.
Key Words: Sakakawea, channel catfish

787. Pappenga, B.E. 1970
Dissolved oxygen concentration in the Big Sioux River downstream from Sioux Falls, South Dakota during winter conditions.

M.S. Thesis, South Dakota State University.
Key Words: limnology, pollution, dissolved oxygen, Big Sioux River

788. Partelow, G.W. 1979
Expectation of genetic alteration of muscle composition and growth traits in rainbow trout (Salmo gairdneri).

M.S. Thesis, South Dakota State University.
Key Words:rainbow trout, genetics

789. Payer, R.D. 1977
Estimate of production by a population of fathead minnows, Pimephales promelas, in a South Dakota prairie wetland.

M.S. Thesis, South Dakota State University.
Key Words:fathead minnow, production

790. Payer, R.D., and C.G. Scalet 1978
Population and production estimates of fathead minnows in a South Dakota Prairie wetland.

Prog. Fish. Cult. 40(2):63-66.

Estimates of population and production in a 16.2 ha prairie wetland in eastern South Dakota.
Key Words:fathead minnow, production, minnows

791. Pederson, D.T. 1971
Erosion and sedimentation in Lake Ashtabula, southeastern North Dakota.

Ph.D. Thesis, University of North Dakota.

Geological study of shoreline erosion and lake filling in Lake Ashtabula during 1969-1970.
Key Words:Ashtabula Reservoir, sedimentation, geology

792. Pederson, D.T. 1973
Shoreline development on reservoirs.

Proc. N. Dak. Acad. Sci. 27(I):26 (abstract).

(see Pederson, 1975, below)

793. Pederson, D.T. 1975
Shoreline erosion on Lake Ashtabula, North Dakota.

Proc. N. Dak. Acad. Sci. 27(II):18-23.

Results of a study of erosion on the shoreline of Lake Ashtabula, North Dakota.
Key Words:Ashtabula Reservoir, sedimentation, geology

794. Peeters, P.J. 1978
Evaluation of fish stocking in southeastern South Dakota ponds.

M.S. Thesis, South Dakota State University.

An evaluation of the effectiveness of stocking fish ponds in terms of producing and maintaining fish populations of value to the angler.
Key Words: stocking, pond

795. Penkal, R.F. no date
Assessment and requirements of sauger and walleye populations in the free flowing Yellowstone River and its tributaries.

Montana Dept. of Fish, Wildlife and Parks, Mimeo. Report.
Key Words:Yellowstone River, sauger, walleye

796. Perkins, K., III 1975
Distribution and relative abundance of the Unionid mussels in the Vermillion River, S.D.

M.A. Thesis, Univ. of South Dakota
Key Words: mussels, Vermillion River

797. Personius, R.G., and S. Eddy 1955
Fishes of the Little Missouri River.

Copeia 1955(1):41-43.

Lists 18 species of fish found in the river before completion of Garrison Dam.
Key Words:Little Missouri River, fishes

798. Peterka, J.J. 1969
Water quality in relation to productivity of Lake Ashtabula Reservoir in southeastern North Dakota.

N.D. Water Resources Research Inst. Res. Proj. Tech. Compl. Report. WI-221-008-70.
Key Words:Ashtabula Reservoir, water quality

799. Peterka, J.J. 1970
Selected farm ponds and their suitability for fish, Barnes County, North Dakota.

N. Dak. Water Resources Research Inst., N. Dak. State Univ. and Univ. of N. Dak.

Water circulation, water chemistry, macrophytes, plankton, fish survival in nine ponds studied to determine methods of managing ponds for fish.
Key Words: pond, stocking

800. Peterka, J.J. 1970
Productivity of phytoplankton and quantities of zooplankton and bottom fauna in relation to water quality of Lake Ashtabula Reservoir, North Dakota.

N. Dak. Water Resources Research Inst. Research Project Technical Completion Report.
WI-221-008-70 FCST:VEG.
Key Words:Ashtabula Reservoir, phytoplankton, zooplankton, benthos

801. Peterka, J.J. 1972
Effects of saline waters upon survival of fish eggs and larvae and upon the ecology of the fathead minnow in North Dakota.

U.S.Dept. of the Interior. Office of Water Resources Research, Compl. Report A-027-NDAK.
Key Words: salinity, fathead minnow

802. Peterka, J.J. 1972
Benthic invertebrates in Lake Ashtabula Reservoir, North Dakota.

Amer. Midland Naturalist 88(2):408-418.

Bottom fauna study in the littoral zone, old river flood plain, and old river channel. Organisms on aquatic plants were sampled with a special sampler enclosing the entire plant. Standing crops and organisms were reported.
Key Words: benthos, Ashtabula Reservoir

803. Peterka, J.J. 1977
An analytical evaluation of the utilization and management of water resources in the Lake Metigoshe watershed, North Dakota.

N. Dak. State Univ., U. S. Dept. of the Interior, Office of Water Resources and Research, OWRR Project No. A-034-NDAK.
Key Words:Lake Metigoshe

804. Peterka, J.J. 1978
Fishes and fisheries of the Sheyenne River, North Dakota.

Proc. N. Dak. Acad. Sci. 32(I):42 (abstract) and 32(II):29-44 (paper)

Based on collections from 1964 to 1977.
Key Words: fishes, Sheyenne River

805. Peterka, J.J. 1987
Tiger salamanders (Ambystoma tigrinum) in North Dakota.

Proc. N. Dak. Acad. Sci. 41:32.

Tiger salamanders in three prairie lakes in Stutsman County studied in 1981-82.
Key Words: salamander

806. Peterka, J.J. 1988
Fishes in prairie pothole wetlands.

In Northern Prairie Wetlands, A.G. Van der Valk, ed., Iowa State Univ. Press.
Key Words:pothole lakes

807. Peterka, J.J. 1989
Perch fishing update - Devils Lake.

North Dakota Outdoors 51(9):13-15.

Popular article describing Devils Lake sport fishery development since water levels rose during the early 1980's.
Key Words:yellow perch, Devils Lake

808. Peterka, J.J., G.K. Clamby, and J.B. Owen 1983
Potential transfer of fish species from the Missouri River Basin to the Hudson Bay Basin via the Garrison Diversion Unit.

pp. 17-36 in Clamby, G.K., H.L. Holloway, Jr., J.B. Owen and J.J. Peterka: Potential transfer of aquatic biota between drainage systems having no natural flow connections. Final Project Report. Tri-College Center for Environmental Studies, Fargo, N. Dak.
Key Words:interbasin transfer, Garrison Diversion

809. Peterka, J.J., and D.A. Hanson 1978
Jamestown study looks at marshes as nutrient traps . . . can they improve water quality in lakes.

North Dakota Outdoors 40(9):8-9.

Popular account of study of lakes in Arrowwood refuge lakes and Jamestown Reservoir. The lakes were found to reduce usable phosphorus in water flowing through them and so reduce production of algae downstream.
Key Words:water quality, Jamestown Reservoir, James River

810. Peterka, J.J., and J.W. Held 1972
Causes and control of algal blooms in Spiritwood Lake, North Dakota.

Proc. N. Dak. Acad. Sci. 26(I):18.

An estimated 62% of the nitrogen and 95% of the phosphorus entering the lake appeared to come from land surface sources. Experiments indicated that inorganic nitrogen increased algal production and phosphorus inhibited it.
Key Words:Spiritwood Lake, algae

811. Peterka, J.J., and K.M. Knutson 1970
Productivity of phytoplankton and quantities of zooplankton and botton fauna in relation to water quality of Lake Ashtabula Reservoir, North Dakota.

Res. Proj. Tech. Compl. Report, WL-221-008-70 N.Dak. Water Resources Research Inst.
Key Words:Ashtabula Reservoir, phytoplankton, zooplankton, benthos, water quality

812. Peterka, J.J., and G.M. Linz 1983

Potential transfer of invertebrates from the Missouri River Basin to the Hudson Bay basin via the Garrison Diversion Unit.

pp. 64-76 in Clamby, G.K., H.L. Holloway, Jr., J.B. Owen and J.J. Peterka. Potential transfer of biota between drainage systems having no natural flow connections. Tri-College Univ. Center for Environ. Studies, Fargo, N. Dak.
Key Words: invertebrates, interbasin transfer, Garrison Diversion

813. Peterka, J.J., and L.A. Reid 1968
Primary production and chemical and physical characteristics of Lake Ashtabula Reservoir, North Dakota.

Proc. N. Dak. Acad. Sci. 22:138-156.

This study from April 1966 to April 1967 describes Lake Ashtabula and chemical and physical conditions in the reservoir. Phytoplankton, water temperature, pH dissolved oxygen, alkalinity, total phosphate, sulphate, ammonium nitrogen, nitrate and nitrite nitrogen, total dissolved solids, primary production by light and dark bottle method are reported.
Key Words: limnology, Ashtabula Reservoir, production

814. Peterman, L.G., and M. Haddix 1975
Lower Yellowstone River fishery study.

Mont. Dept. Fish and Game Progress Report No. 1. 56 pp.

Has material on pallid sturgeon.
Key Words:pallid sturgeon, Yellowstone River

815. Peters, E.J. 1985
New distributional records of the common shiner (Notropis cornutus) and the bluntnose minnow (Pimephales notatus) in the Little Blue River system in Nebraska.

The Prairie Naturalist 15(1):38-40.

Distributional and ecological study.
Key Words:common shiner, bluntnose minnow, Little Blue River, fishes

816. Peters, J.C., and W. Alvoid 1964
Man-made channel alterations in thirteen Montana streams and rivers.

Trans. twenty-ninth N. Amer. Wildlife and Natural Resources Conference 29:93-102.

Reports channel alteration and standing crops of fish in altered and unaltered areas.
Key Words: stream, bank stabilization, Montana

817. Peterson, S.A. 1967
Depth distribution of goldeye, Hiodon alosoides (Rafinesque), in Moccasin Bay on the Little Missouri Arm of Garrison Reservoir, North Dakota.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division Report No. 1302.

Depth distribution of goldeye and yellow perch in Lake Sakakawea were determined every six hours by catches in a vertical gill net during June through August, 1966. Nearly all goldeye were caught at night in the upper 10 feet of water. Perch were found at 25 to 50 feet in June and July.
Key Words: goldeye, Sakakawea, yellow perch

818. Pfeifer, F.W. 1980
Lake, Darling creel survey - winter of 1979-1980.

U.S. Fish and Wildlife Service, Bismarck, ND.
Key Words:Lake Darling, creel survey

819. Pflieger, W.L. and T.B. Grace 1987
Changes in the fish fauna of the lower Missouri River, 1940-1983.

pp. 166-177 in W. Matthews and D. Heines, (eds.), Community and Evolutionary Ecology of North American Streams. Univ. of Oklahoma Press, Norman OK.
Key Words: fishes, Missouri River

820. Phelps, S.R. and F.W. Allendorf 1983
Genetic identity of pallid and shovelnose sturgeon (Scaphirhynchus albus and S. platorynchus).

Copeia 1983:696-700.
Key Words:pallid sturgeon, shovelnose sturgeon, genetics

821. Phenicie, C.K. 1953
The Fort Peck Reservoir fishing survey.

Mont. Fish & Game Comm. Bull. 3. 19 pp.
Key Words:Fort Peck Reservoir, creel survey

822. Phillips, G.L., W.D. Schmidt and J.C. Underhill 1982
Fishes of the Minnesota Region.

Univ. of Minn. Press, Minneapolis.

Gives distribution of Minnesota fishes by river basins including the Red River of the North. Includes keys, descriptions and illustrations.

Key Words: fishes, Minnesota, Red River

823. Phillips, G.L., and J.C. Underhill 1967
Revised distribution records of some Minnesota fishes with addition of two species to the found list.

Jour. Minn. Acad. Sci. 34(2):177-180.

Has information on fish in some Red River tributaries in Minnesota.
Key Words: fishes, Minnesota, Red River

824. Phillips, G.R., P.A. Medvick, D.R. Skarr
and D.E. Knight 1987
Factors affecting the mobilization, transport, and bioavailability of mercury in reservoirs of the Upper Missouri River Basin.

U.S. Dept. Interior, Fish and Wildl. Serv. Fish and Wildlife Tech. Rept. 10

Review of mercury studies in 10 reservoirs in Montana, North and South Dakota. Extensive literature and bibliography.
Key Words:Missouri River, pollution, mercury

825. Pick, L.A. 1946
Recreational features of Missouri River development program.
In Symposium on Missouri River basin flood control, navigation, and irrigation and their relation to fish and game. Trans. Amer. Fish. Soc. 76:361-372.
Key Words:Missouri River, reservoirs, recreation

826. Ploskey, G.R. 1982
Fluctucating water levels in reservoirs: an annotated bibliography of environmental effects and management of fisheries.

Tech. Report E-82-5, U.S. Army Engineer Waterways Exper. Station, Vicksburg, Miss.
Key Words: bibliography, management, water level control

827. Ploskey, G.R. 1983
A review of the effects of water level changes in reservoir fisheries and recommendations for improved management.

Tech. Report E-83-3, U.S. Army Engineer Waterways Exper. Station, Vicksburg, Miss.
Key Words:water level control, management, bibliography

828. Ploskey, G.R. 1986
Effects of water-level changes on reservoir ecosystems, with implications for fishery management.

pp. 86-97 in G.E. Hall and M.J. VanDen Avyle,(eds.), Reservoir Fisheries

Management Strategies for the 80's. Reservoir Comm., Southern Div., Amer. Fish. Soc.

Has many references to, and discussion on the upper Missouri River reservoirs.
Key Words:water level control, reservoirs, management

829. Pope, T.E.B. 1908
Devils Lake, North Dakota, a study of physical and biological conditions with a view to the acclimatization of fish.

Bull. U.S. Bur. Fish. Doc. 634:1-22.
Key Words:Devils Lake

830. Porter, D.A. 1981
The influence of day length, temperature and salinity on the gametogenic cycle of the banded killifish, Fundulus diaphanus.

M.S. Thesis, University of North Dakota.

Killifish were taken from Kelly's Slough near Grand Forks, N.D., and effects of day length, salinity and temperature were studied in the laboratory.
Key Words:banded killifish, gametogenesis

831. Porter, D.A., and A.J. Fivizzani 1980
The influence of temperature, day length and salinity on gonadal development of the banded killifish, Fundulus diaphanus.

Proc. N. Dak. Acad. Sci. 80:50.

Controlled laboratory experiments show the effect of temperature on gonadal development.
Key Words:banded killifish, gametogenesis

832. Potter, D.S., and J.F. Tibbs 1976
A bibliography of graduate theses and dissertations researched at or near the University of Montana Biological Station.

Proc. Montana Acad. Sci. 36:101-109.

Contains 90 citations, many of Montana fisheries and limnology.
Key Words: bibliography, Montana

833. Power, G.J. 1984
Plankton communities in three discrete regions of Lake Sakakawea, North Dakota.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division Report A-1108A.

Comparison of zooplankton and phytoplankton abundance in the Williston, Van Hook and Riverdale regions of Lake Sakakawea. Zooplankton and phytoplankton concentrations were higher in the Van Hook Region throughout most of the summer of 1982.
Key Words: plankton, Sakakawea

834. Power, G.J., and J.B. Owen 1984
Comparison of plankton populations in three discrete regions of Lake Sakakawea, North Dakota.

The Prairie Naturalist 16(3):123-129.

Zooplankton and phytoplankton concentrations in the summer of 1982 were greater in the Van Hook region of Lake Sakakawea than in the Williston or Riverdale area.
Key Words: plankton, Sakakawea

835. Rada, R.G. 1970
Distribution and abundance of zooplankton and phytoplankton in Big Bend and Oahe Reservoirs of the Missouri River.

M.A. Thesis, Univ. of South Dakota, Vermillion.
Key Words:Big Bend Reservoir, Oahe, zooplankton, phytoplankton

836. Radant, R.D. 1975
Food habits of young-of-the-year fishes in Abbey Pond, South Dakota.

M.S. Thesis, South Dakota State University.
Key Words: young-of-the-year, food habits, largemouth bass, bluegill, black crappie, yellow bullhead, yellow perch

837. Radant, R.D., and C.G. Scalet 1975
Food habits of young-of-the-year fishes in Abbey Pond, South Dakota.

Proc. S. Dak. Acad. Sci. 54:96-119.

Food habits of young-of-the-year largemouth bass, bluegill, black crappie, yellow bullhead and yellowperch in a four acre pond in eastern South Dakota.
Key Words:food habits, young-of-the-year, largemouth bass, bluegill, black crappie, yellow bullhead, yellow perch

838. Ragan, J. 1970
Biological characteristics of a population of yellow perch, Perca flavescens (Mitchill), in Lake Ashtabula, North Dakota, as sampled with an otter trawl.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. 1312A.

Perch were sampled with a 27 foot otter trawl in the summer of 1968. The trawl was unsatisfactory for commercial harvest of perch in Lake Ashtabula because of interference by submerge

d
hi
gh
er
pl
an
ts
.

Th
e
33
60
pe
rc
h
su
bs
am
pl
ed
fo
r
ag
e
an
d
gr
ow
th
,
le
ng
th
-
we
ig
ht
an
d
co
nd
it
io
n
we
re
mo
de
ra
te
ly
st
un
te

d.

Key Words:yellow perch, Ashtabula Reservoir

839. Ragan, J., T. Steinwand and G. Van Eeckhout 1986
A synopsis of results from a questionnaire on muskellunge. Resouce agency survey.

pp. 370-372 in Managing Muskies. G.E. Hall, (ed.), Amer, Fish. Soc. Spec. Publ.

Results from a questionnaire sent to 55 states and Canadian provinces.
Key Words: muskellunge, questionnaire

840. Raisanen, G.A. 1982
Survival, growth, food selection, and alimentary canal development of intensively reared walleyes and yellow perch.

M.S. Thesis, South Dakota State University.

Invertebrates were fed to walleye and yellow perch fry for the first 18 days after hatching and food selection, growth, survival and development of alimentary canal observed.
Key Words:food habits, growth, development, walleye, yellow perch

841. Raisanen, G.A., and R.L. Applegate 1983
Selection of live food by captive yellow perch larvae.

Prog. Fish. Cult. 45(3):172-174

A mix of plankton was fed to larval yellow perch under experimental conditions, and fish were dissected to see what organisms were selected.
Key Words: food, yellow perch, fish larvae

842. Raisanen, G.A., and R.L. Applegate 1983
Prey selection of walleye fry in an experimental system.

Prog. Fish. Cult.45:209-214.

Key Words: walleye, prey, fry

843. Ramsey, R.H. 1974
Livestock in the environment.

U.S. Environmental Protection Agency, Report No. EPA-660/2-74-024.

Bibliography on environmental effects of animal wastes.
Key Words: pollution, bibliography

844. Raney, E.C., and B.W. Mengel 1969

Heated effluent and effect on aquatic life with emphasis in fishes; a bibliography.

Cornell University Water Resources and Marine Sciences Center, Philadelphia Electric Company, and Ichthyological Associates. Bull. No. 2.

Has 1870 entries, indexed by author and title. Obtainable from Ichthyological Associates, 301 Forest Drive, Ithaca, New York, 14850.
Key Words:heated effluent, bibliography

845. Rawson, D.S. 1949
The fishes of Saskatchewan.

Report of the Royal Commission on the fishes of Saskatchewan. Dept. of Nat. Resources and Industrial Development, Regina.
Key Words: fishes, Saskatchewan

846. Rawson, D.S. 1968
Indices to lake productivity and their significance in predicting conditions in reservoirs and lakes with disturbed water levels.

in: The investigation of fish-power problems. H.R. Macmillan lectures in fisheries, University of British Columbia.
Key Words: productivity, water level control

847. Reetz, S.D. 1982
Phytoplankton studies in the Missouri River at Fort Calhoun Station and Cooper Nuclear Station.

pp. 71-83 in The Middle Missouri River, L.W. Hesse, et al, (eds.), The Missouri River Study Group. Box 934, Norfolk, NE. 78701.

A study of the effects of mechanical and thermal stress passing through the cooling water system of these power plants in the Missouri River.
Key Words:heated effluent, phytoplankton, Missouri River

848. Rehwinkel, B.J. 1975
The fishery for paddlefish at Intake, Montana, during 1973 and 1974.

M.S. Thesis, Montana State Univ.
Key Words: paddlefish, Intake, Montana

849. Rehwinkel, B.J. 1978
The fishery for paddlefish at Intake, Montana during 1973 and 1974.

Trans. Amer. Fish. Soc. 107(2):263-268.

Report of a creel census on paddlefish of the lower Yellowstone River, Montana. This is the same population fished at the mouth of the

Yellowstone in North Dakota. Harvest rates were considered not detrimental to the population.
Key Words: paddlefish, Montana, creel survey, Yellowstone

850. Reid, J.R., and W.G. Dorough 1989
Inland coastal erosion processes, Lake Sakakawea, N.D.

Proc. of Sixth Symposium on Coastal and Ocean Management, ASCE July 11-14, Charleston, S.C.
Key Words: Sakakawea, bank erosion, shore modification

851. Reid, J.R., and M.C. Elliot 1990
Effects of heavy snowmelt-runoff from Rocky Mountains on Lake Sakakawea, N.D.

Abstracts with program, Geological Soc. of America 22:6.
Key Words: Sakakawea, stream flow, water elevation

852. Reid, J.R, B.S. Sandberg and M.D. Millsop 1986
Bank recession; cause and rate: past, present, future Lake Sakakawea, North Dakota.

Univ. N. Dak. Engineering Experiment Station Bull. 86-01-EES-01
Key Words:bank erosion, Sakakawea

853. Reid, J.R., B.S. Sandberg and M.D. Millsop 1988
Bank recession processes, rates, and prediction, Lake Sakakawea, North Dakota, U.S.A.

Geomorphology 1(2):161-189.
Key Words:shore modification, Sakakawea

854. Reid, L.A.G. 1967
Chemical, physical and biological characteristics of Lake Ashtabula Reservoir in Southeastern North Dakota.

M. S. Thesis, N. Dak. State Univ.

Chemical and physical measurements taken in 1966 and 1967 together with macrophytes, phytoplankton, bottom fauna and measurement of primary production.
Key Words:Ashtabula Reservoir, limnology, phytoplankton, benthos

855. Reigh, R.C. 1978
Fishes of the western tributaries of the Missouri River in North Dakota.

M.S. Thesis, University of North Dakota.

Results of collections of fishes in Little Missouri, Knife, Heart, and Cannonball Rivers, and Square Butte Creek, Little Heart River,

Grand River and Yellowstone River in North Dakota in 1976 and 1977. Includes discussion of possible effects of strip mining, coal gasification and agricultural development on fish populations in the area and proposes research on ecology and habitat requirements of fishes in these basins.
Key Words: fishes, Little Missouri River, Knife River, Heart River, Cannonball River

856. Reigh, R.C., and D.S. Elsen 1979
Status of the sturgeon chub (Hybopsis gelida) and sicklefin chub (Hybopsis meeki) in North Dakota.

The Prairie Naturalist 11(2):49-52.

Data and good discussion of distribution of three species in North Dakota. The sturgeon chub is on the threatened species list, and sicklefin chub in on the endanged species list in North Dakota.
Key Words:sturgeon chub, sicklefin chub, threatened, endangered

857. Reigh, R.C., and J.B. Owen 1979
Fishes of the western tributaries of the Missouri River in North Dakota.

Report No. 79-2, N. Dak. Regional Environ. Assessment Pgm., Bismarck, N. Dak.

(see Reigh, 1978)
Key Words: fishes, Little Missouri River, Knife River, Heart River, Cannonball River

858. Reinisch, J.D. 1981
Parasites of fishes from Devils Lake and the Souris River in North Dakota.

M.S. Thesis, University of North Dakota.

Results of a survey of 596 fish of seven species from Devils Lake and the Souris River for parasites in 1976 and 1977.
Key Words: parasite, Devils Lake, Souris River

859. Reinisch, J.D., D.S. Elsen, H.L. Holloway, Jr. and J.B. Owen 1977
Nematodes of the genus Philometra in North Dakota fish.

Proc. N. Dak. Acad. Sci. 31(I):25 (abstract)

Nematodes were found on three white suckers in Cherry Creek in May 1976.
Key Words: parasite, white sucker

860. Repsys, A.J. 1972
Food selectivity of the black bullhead (Ictalurus melas, Rafinesque) in Lake Poinsett, South Dakota.

M.S. Thesis, South Dakota State University.

Food habits and food selectivity of subadult and adult black bullheads were determined from March 1970 to April 1971. Plankton and benthic samples were taken to determine selectivity.
Key Words:black bullhead, food habits, food

861. Repsys, A.J., R.L. Applegate, and D.C. Hales 1976
Food and food selectivity in the black bullhead, Ictalurus melas, in Lake Poinsett, South Dakota.

Jour. Fish. Res. Board Canada 33:768-775

(see Repsys, 1972)
Key Words:black bullhead, food habits, food

862. Repsys, A.J., and G.D. Rogers 1982
Zooplankton studies in the channelized Missouri River.

pp. 125-145 in The Middle Missouri River, L.W. Hesse, et al., (eds.), The Missouri River Study Group, Box 934, Norfolk, NE. 78701.

Study of zooplankton in the Missouri River as affected by river flow as influenced by the reservoirs upstream.
Key Words: zooplankton, reservoirs

863. Reynolds, J.B. 1966
Factors affecting trap net catches in Oahe Reservoir, South Dakota.

Ph.D. Thesis, Iowa State Univ., Ames, IA. 313 pp.

Frame nets, fyke nets, semi-trap nets and Lake Erie trap nets were studied. Temperature was the most important factor affecting catches over all fish species studied.
Key Words: Oahe, frame net, fyke net, trap net

864. Rhone, J.P., and A.B. Schlesinger 1982
An analysis of fish impingement relative to the Missouri River adult fish population in the vicinity of the Nebraska City Power Station, Unit No. 1

Proc. Neb. Acad. Sci. 92:16-17.
Key Words: impingement

865. Richburg, J.C. 1984
The effects of harvesting on the aquatic macrophytes, phytoplankton, periphyton, and water chemistry in Lake Metigoshe, North Dakota.

M. S. Thesis, N. Dak. State Univ.
Key Words:Lake Metigoshe, aquatic plant control

866. Riis, J.C. 1985
Walleye movement, harvest and angler use on Lake Oahe, South Dakota, 1981-84.

Completion Report No. 84-4, S. Dak. Dept. of Game, Fish and Parks.
Key Words: walleye, creel survey

867. Risotto, S.P., and R.E. Turner 1985
Annual fluctuations in abundance of the commercial fisheries of the Mississippi River and tributaries.

N. Amer. Jour. of Fisheries Management 5:557-574.

Contains data from Missouri River states including North and South Dakota.
Key Words:commercial fishery

868. Robinone, C.J.R., R.H. Langford and J.W. Brookhart 1958
Saline-water resources of North Dakota.

U.S. Geol. Surv., Water-supply Paper No. 1428, 72 pp.
Key Words: salinity

869. Robins, C.R., and E.C. Raney 1957
Distributional and nomenclatural notes on suckers of the genus Moxostoma.

Copeia 1957(2):154-155.

Includes M. aureolum in the upper Missouri River system. Specimens collected at Fort Pierre, S.D. and in Yellowstone River are discussed.
Key Words: Moxostoma, suckers, Missouri River

870. Robinson, J.W. 1966
Observations on the life history, movement, and harvest of the paddlefish, Polyodon spathula, in Montana.

Proc. Mont. Acad. Sci. 26:33-44.

Life history, sex ratios, fecundity and movements of tagged fish in the Missouri River downstream from Fort Peck and in the Yellowstone River.
Key Words: paddlefish, Montana, life history

871. Roell, M.J. 1984
Rainbow trout (Salmo gairdneri) cage culture and primary production in eastern South Dakota dugout ponds.

M.S. Thesis, South Dakota State University.
Key Words:rainbow trout, cage culture

872. Roell, M.J., G.D. Schuler and C.G. Scalet 1986
Cage-rearing rainbow trout in dugout ponds in eastern South Dakota.

Prog. Fish. Cult. 48:273-278.
Key Words:rainbow trout, cage culture

873. Rosen, R.A. 1976
Distribution, age and growth, and feeding ecology of paddlefish, Polyodon spathula, in unaltered Missouri River, South Dakota.

M.S. Thesis, South Dakota State University, Brookings. 95 pp.

Study in the Missouri River downstream from Gavins Point Dam, and between Nebraska and South Dakota.
Key Words: paddlefish, distribution, age and growth, Missouri River

874. Rosen, R.A., and D.C. Hales 1980
Occurrence of scarred paddlefish in the Missouri River, South Dakota-Nebraska.

Prog. Fish. Cult. 42(2):82-85.

Thirty-six percent of 458 paddlefish collected in the Missouri River (South Dakota - Nebraska) had scars and ten percent had severed rostrums. Scars were primarily from motor boats and snag fishing.
Key Words: paddlefish, Missouri River, injury

875. Rosen, R.A., and D.C. Hales 1981
Feeding of paddlefish, Polyodon spathula.

Copeia 1981:441-455.

Paddlefish fed almost entirely on crustacean zooplankton in a 84 km section of Missouri River downstream.
Key Words: paddlefish, Missouri River, food

876. Rosen, R.A., and D.C. Hales 1982
Occurrence of a blind paddlefish Polyodon spathula.

Copeia 1982(1):212-214.

Blind paddlefish was caught downstream from Gavins Point Dam.
Key Words: paddlefish, Gavins Point Dam

877. Rosen, R.A., D.C. Hales and D.G. Unkenholz 1982
Biology and exploitation of paddlefish in the Missouri River below Gavins Point Dam.

Trans. Amer. Fish. Soc. 111(2):216-222.

A study of growth, movement, distribution and mortality of paddlefish in the stretch of free-flowing river between Gavins Point Dam and Ponca State Park, Nebraska.
Key Words: paddlefish, Missouri River, exploitation

878. Rosine, W. 1956
On the transport of the common amphipod, Hyalella azteca, in South Dakota by the mallard duck.

Proc. S. Dak. Acad. Sci. 35:203

Several dozen live Hyalella azteca were found clinging to feathers of two dead mallards, indicating that they had been carried some distance by the ducks.
Key Words: Hyalella, ducks

879. Rostlund, E. 1952
Freshwater fish and fishing in native North America.

Univ. Calif. Publ. Geogr. No. 9, x + 313 pp.
Key Words:native fishing

880. Rousselet, C.F. 1911
On three new species of Rotifera.

Jour. Quekett Micro. Club 11:161-164.
Key Words: rotifera, Devils Lake

881. Rousselet, C.F. 1912
On Notholca triarthroides Skorikow, Cathypna brachydactyla Stenroos, and on a new Brachionus from Devils Lake, North Dakota.

Jour. Quekett Micro. Club, Series 2, 11:371-374, London.
Key Words:Devils Lake, rotifera

882. Rousselet, C.F. 1913
The Rotifera of Devils Lake, with description of a new Brachionus.

Jour. Quekett Micro. Club, Series 2, 12:57-64, London.
Key Words:Devils Lake, rotifera

883. Ruelle, R. 1963
A comparison of some limnological changes caused by the Brookings sewage treatment plant on Six-mile Creek and the Big Sioux River.

M.S. Thesis, South Dakota State University.

Physical and chemical data on mollusca, insects, annelids, ostracods, algae,

coliform bacteria and sewage fungus in effluent from a sewage treatment plant.
Key Words: pollution, limnology, Big Sioux River

884. Ruelle, R. 1971
Factors influencing growth of white bass in Lewis and Clark Lake.

pp. 411-423 in G.E. Hall (ed.), Reservoir Fisheries and Limnology. Amer. Fish. Soc. Spec. Publ. No. 8.

Age and rate of growth, food habits, time of annulus formation, maturity and factors influencing growth of white bass in Lewis and Clark Lake were studied. Best growth occurred when forage fish were most abundant.
Key Words:white bass, Lewis and Clark Reservoir, age and growth, food habits

885. Ruelle, R. 1977
Reproductive cycle and fecundity of white bass in Lewis and Clark Lake.

Trans. Amer. Fish. Soc. 106(1):67-76.

Gives time of spawning, egg retention, fecundity, condition of fish and discription of egg development.
Key Words:white bass, reproduction, Lewis and Clark Reservoir

886. Ruelle, R., and P. Hudson 1977
Paddlefish (Polyodon spathula): growth and food of young-of-the-year and a suggested technique for measuring length.
Trans. Amer. Fish. Soc. 106(6):609-613.

Food of young-of-the-year paddlefish in Lewis and Clark Lake was zooplankton and aquatic and terrestrial insects. It was suggested that the young fish fed at night in open water, near the surface.
Key Words: paddlefish, food, growth, young-of-the-year

887. Russell, G.W. 1975
Distribution of fishes in North Dakota drainages affected by the Garrison Diversion project.

M.S. Thesis, University of North Dakota.

Report of fish collections in the James River, Wild Rice, Sheyenne and Souris River basins and the Devils Lake basin in North Dakota. The possibility of interbasin transfer of fishes through the canals of the Garrison Diversion Unit were discussed.
Key Words:James River, Wild Rice River, Sheyenne River, Devils Lake, Souris River, Garrison Diversion

888. Russell, T.R. 1965

Effects of channelization on the limnology of the Missouri River, Nebraska, with emphasis on food habits and growth of channel catfish.

M.A. Thesis, Univ. of Missouri, Columbia.
Key Words: channelization, limnology, channel catfish

889. Russell, T.R. 1986
Biology and life history of the paddlefish - A review.

pp. 2-20 in J.G. Dillard, L.K. Graham, and T.R. Russell, eds., The Paddlefish: status, management and propagation. Amer. Fish. Soc., North Central Div., Spec. Publ. 7, Columbia, Mo.
Key Words: paddlefish

890. Ryckman, L.F. 1977
Aspects of the development of a commercial fishery in Lake Ashtabula, North Dakota, including studies of fish growth and accumulation of nutrients.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. 1328.

Trap nets, seines and electroseining were employed in 1975, 1976 and 1977 to test effectiveness of these methods of developing a commercial fishery for black bullheads, yellow perch and white suckers in Lake Ashtabula. Length-weights of yellow perch were studied. The nutrient contents of water volumes entering the lake indicated no net gain or loss of nutrients to the reservoir between July, 1974, and June, 1976. Markets for yellow perch were available and were indicated for bullheads and suckers as well.
Key Words:Ashtabula Reservoir, commercial fishery, yellow perch

891. Ryckman, L.F. 1982
Fishery development, Chain of Lakes area.

North Dakota Outdoors 44(8):8-9.

Popular description of fishery along Garrison Diversion McClusky Canal lakes.
Key Words:Garrison Diversion, McClusky Canal, fishery

892. Ryckman, F. 1985
Missouri River relic - pallid sturgeon.

North Dakota Outdoors 47(9):37-39

Popular article on description, range and status of pallid sturgeon in North Dakota. Includes historical information.
Key Words:pallid sturgeon, Missouri River

893. Saabye, M., and P. Herzog 1983
One hundred years of fisheries management. Part I.

North Dakota Outdoors 46(5):19-24.

History of hatchery construction and fisheries management in North Dakota.
Key Words:fisheries management, history, hatchery

894. Saabye, M., and P. Herzog 1983
Part II. Fisheries management (1949-1983).

North Dakota Outdoors 46(6):9-19.

Development of modern fish management in North Dakota.
Key Words:fisheries management, history, hatchery

895. Saethre, J.M. 1972
The biology of the digenetic trematode Centrovarium lobotes.
M.S. Thesis, University of North Dakota.

Results of experiments with northern pike and the common shiner as hosts of the parasite are reported.
Key Words: parasite, northern pike, common shiner

896. Saethre, J.M., and O.R. Larson 1975
Studies on helminths of North Dakota. VI. Cantrovarum lobotes(MacCallum, 1895) in the flesh of the common shiner minnow Notropis cornutus (Mitchill).

Proc. N. Dak. Acad. Sci. 27(II):83-88.

Study on minnows collected from Turtle River and Forest River, tributary to the Red River in eastern North Dakota.
Key Words: parasite, common shiner

897. Sandberg, B.S. 1986
Shoreline recession: past, present, and future, Lake Sakakawea, North Dakota.

M.S. Thesis, University of North Dakota.
Key Words:bank erosion, geology, Sakakawea

898. Sandholm, H. 1961
The littoral bottom fauna of two large artificial impoundments of the Missouri River in South Dakota.

M.A. Thesis, Univ. of South Dakota, Vermillion.

From Ekman dredge, samples were taken in Lewis and Clark and Fort Randall reservoirs.
Key Words: littoral, benthos, Fort Randall Reservoir,

899. Scalet, C. 1979
Endangered and threatened fishes of South Dakota.

Dept. of Wildlife and Fisheries Sciences, S. Dak. State Univ.
Key Words: endangered, threatened

900. Schadewald, P.T. 1973
The food habits and age and growth of goldeye, Hiodon alosoides (Rafinesque), in Beaver Creek, Lake Oahe, North Dakota, 1971-1972.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. 1320.

A study of age and growth and food habits of goldeye in Lake Oahe in North Dakota. Includes comparisons of growth of goldeye in Lakes Sakakawea and Lake Oahe.
Key Words: Oahe, goldeye, age and growth, food habits, Sakakawea

901. Schainost, S. 1981
Population dynamics of the commercial fishery resource of the channelized and stabilized Missouri River.

Unpublished final Report. NOAA Project 2-257-R, Nebraska Game and Parks Commission.
Key Words:commercial fishery, unchannelized, population dynamics

902. Schauer, J.W. 1925
Chemical effects of salts upon the cells of fishes.

M.S. Thesis, University of North Dakota.

Report of experimental physiological and histological research at Devils Lake on effects of salt on fishes. Contains historical information on fishery in Devils Lake and effect of increased salinity on fish as the water level receded.
Key Words:Devils Lake, fishery, salinity, osmoregulation

903. Schindler, J.E., and G.W. Comita 1967
The feeding rate of Diaptomus leptopus.

Proc. N. Dak. Acad. Sci. 20:125-130.

Laboratory experiments with copepods feeding on Chlamydomonas.
Key Words: copepoda, food habits

904. Schmid, W.D. 1963
Covariance of some meristic characters of the brook stickleback, Eucalia

inconstans, from the Red River drainage.

Proc. N. Dak. Acad. Sci. 17:63 (abstract).

Samples at five locations near Grand Forks.
Key Words: stickleback, Red River

905. Schmid, W.D. 1965
Distribution of aquatic vegetation as measured by line-intercept with SCUBA.

Proc. N. Dak. Acad. Sci. :102.

Outlines method of surveying underwater vegetation in terms of abundance, type, depth and environmental correlation.
Key Words:aquatic plants

906. Schmidt, A.E. 1967
Limnology of selected South Dakota lakes.

M.S. Thesis, South Dakota State University.
Key Words: limnology

907. Schmidt, B.R. 1975
Results and evaluation of an aerial creel census survey on Lake Sharpe, South Dakota.

M.S. Thesis, South Dakota State University.
Key Words:Lake Sharpe, creel survey

908. Schmidt, G.D., P.D. Leiby and D.C. Kritsky. 1974
Studies on helminths of North Dakota. VIII. Nematodes from the paddlefish, Polydon spathula (Walbaum), including Thynnascris dollfusi, sp. nov. (Nematoda: Stomachidae).

Can. Jour. Zool. 52:251-263.

Includes nematodes from paddlefish from Lake Sakakawea, N.D.
Key Words: parasite, paddlefish

909. Schmulbach, J.C. 1974
An ecological study of the Missouri River prior to channelization.

Water Resources Inst. B-024-SDAK. S. Dak. State Univ., Brookings. 34 pp.

Also see Kozel, D.J., 1973, Kozel, D.J., 1974, Modde, T and J.C. Schmulbach, 1977, and Nord, A.E. and J.C. Schmulbach, 1973.
Key Words:Missouri River, unchannelized

910. Schmulbach, J.C., T.J. Banek and M.K. Musyl 1983

Bionomics of the rainbow smelt (Osmerus mordax) in Lake Oahe, South Dakota.

Job Completion Report, Contract No. 8212, Univ. S. Dak., Vermillion.
Key Words:rainbow smelt, Oahe

911. Schmulbach, J.C., G. Gould, and C.L. Groen 1975
Relative abundance and distribution of fishes in the Missouri River, Gavins Point Dam to Rulo, Nebraska.

Proc. S. Dak. Acad. Sci. 54:194-222.

Rulo is near the Nebraska-Kansas border. Sections of this stretch of river have been modified for navigation by a number of types of structures. Fish habitats and the abundance and composition of fish populations in each habitat are determined and compared with populations in unchannelized or unmodified sections of this stretch of river. This paper would provide excellent information for study if bank stabilization or similar structures are proposed for the Missouri River in North Dakota.
Key Words:Missouri River, bank stabilization

912. Schmulbach, J.C., and H.A. Sandholm 1962
Littoral bottom fauna of Lewis and Clark Reservoir.

Proc. S. Dak. Acad. Sci. 41:101-112.

Quantative bottom fauna study, made systematically in each third of the length of the reservoir at depths of 3 meters, 1 meter and 10 centimeters in 1960.
Key Words:Missouri River, Lewis and Clark Reservoir, benthos

913. Schmulbach,J.C., J.J. Schuckman and D.R. Huff 1981
An ichthyofaunal survey of the middle and upper James River, South Dakota, with emphasis on gizzard shad distribution.

Mimeo. report to the Water and Power Resources Service, Bismarck, ND 43 pp.
Key Words:James River, fishes, distribution, gizzard shad

914. Schmulbach, J.C., D.H. Tunink and A.E. Zitrel 1979
Swimming performance of Missouri River fishes.

Proc. N. Dak. Acad. Sci. 33:55 (abstract)

Summary of field tests on 281 fish of 17 species using an open flow-through system.
Key Words:Missouri River, fishes, swimming

915. Schmulbach, J.C., D.H. Tunink and A.E. Zitrel 1981
Swimming performance of fishes endemic to the Missouri River in South Dakota.

FWS/OBS - 81, Washington, D.C.

Laboratory study of swimming speed.
Key Words: swimming

916. Schuckman, J.J. 1982
Population estimates of shovelnose sturgeon Scaphirhynchus platorynchus in the unchannelized Missouri River.

M.A. Thesis, Univ. of South Dakota

Marking and recovery estimate made in a section of river between Gavins Point Dam and Ponca State Park, Nebraska.
Key Words:population estimate, mark and recapture, unchannelized

917. Schueler, R.L., and J.K. Sullivan 1967
Quantifying current and potential commercial fishery habitat and production on the inland waters of midwest U.S. exclusive of the Great Lakes.

pp. 489-498 in Reservoir Fishery Symposium. Southern Div., Amer. Fish Soc.

Has estimated commercial fish production in the Missouri River Basin and Red River of the North.
Key Words:Missouri River, Red River, commercial fishery

918. Schuler, G.D. 1984
Rainbow trout cage culture and benthic production in east-central South Dakota dugouts.

M.S. Thesis, South Dakota State University
Key Words: benthos, rainbow trout, cage culture, dugouts

919. Schumacher, R.E. 1966
Successful introduction of Mysis relicta (Loven) into a Minnesota lake.

Trans. Amer. Fish. Soc. 95(2):216.

Gives methods and equipment. Mysis were recovered in Grindstone Lake, Pine County, Minnesota. Pontoporeia, which were also transplanted, were not recovered.
Key Words:Mysis, introduction

920. Scott, W.B., and E.J. Crossman 1973
Freshwater fishes of Canada.

Jour. Fish. Res. Board Canada Bull. No. 184. 966 pp.

Gives distribution, with maps, of fishes common to Canadian and North Dakota drainages.

Key Words: fishes, distribution

921. Selgeby, J.H. 1968
Evaluation of the automatic plankton sampler and an analysis of the zooplankton of Lake Francis Case, South Dakota; A mainstem Missouri River reservoir.

M.A. Thesis, Univ. of Missouri. 100 pp.
Key Words:Lake Francis Case, zooplankton, sampling equipment

922. Selgeby, J.H. 1974
Limnetic crustacean zooplankton of Lake Oahe, May-October, 1969.

U.S. Dept. of the Interior. Fish and Wildlife Service Tech. Paper No. 74. 11 pp.

The limnetic crustacean zooplankton of Lake Oahe was dominated by copepods. The relative abundance of various species of copepods and cladocera in upstream riverine areas and in deeper downstream areas of the reservoir are discussed.
Key Words: zooplankton, Oahe

923. Selgeby, J.H., and W.E. Jones 1974
Physical and chemical characteristics of Lake Oahe, 1968-69.
U.S. Dept. of the Interior. Fish and Wildlife Service Tech. Paper No. 72. 18 pp.

A detailed physical-chemical description of Lake Oahe.
Key Words: Oahe, limnology

924. Shelley, J.J. 1981
Initial growth and survival of bluegills and black bullheads stocked with largemouth bass in South Dakota ponds .

M.S. Thesis, South Dakota State University.

Study of predation, survival, growth and balance between these species.
Key Words:black bullhead, largemouth bass, bluegill

925. Shelley, J.J., and T. Modde 1982
First-year growth and survival of bluegill and black bullhead stocked with largemouth bass in South Dakota ponds.

Prog. Fish. Cult. 44:158-160.
Key Words: pond, bass-bluegill, growth

926. Shields, J.T. 1956
Carp control through water drawdown, Fort Randall Reservoir.

Dingell-Johnson Report 56-3, F-1-R-5 (Jobs 3, 4, 5), S. Dak. Dept of Game, Fish and Parks.
Key Words: carp, Fort Randall Reservoir, fish control, drawdown

927. Shields, J.T. 1957
Experimental control of carp reproduction through water drawdowns in Fort Randall Reservoir, South Dakota.

Trans. Amer. Fish. Soc. 87 (1957):23-33.

Drawdowns of 1.5 to 2 feet following carp spawning in 1955, 1956 and 1957 exposed carp eggs, and resultant carp year classes were small.
Key Words:fish control, carp, Fort Randall Reservoir

928. Shields, J.T. 1957
Fish management problems of large impoundments on the Missouri River.

Trans. Amer. Fish. Soc. 87:356-362.

Describes the six mainstem reservoirs and outlines problems and suggests some solutions in managing the fisheries in the reservoirs and tailraces of the dams.
Key Words:fishery management, Fort Peck Reservoir, Sakakawea, Oahe, Big Bend Reservoir, Fort Randall Reservoir, Gavins Point Reservoir

929. Shubert, L.E. 1976
The algal growth potential of Devils Lake, North Dakota.

Proc. N. Dak. Acad. Sci. 30(I):40 (abstract)

Algal growth potential of Devils Lake is very high. It was calculated that the annual P loading was above the dangerous level, and the annual N loading was within permissible levels.
Key Words:Devils Lake, algae

930. Shubert, L.E. 1976
Investigations of the algal growth of Devils Lake, North Dakota.

U.S. Bureau of Reclamation, Final Report. 150 pp.
Key Words:Devils Lake, algae

931. Shubert L.E. 1978
The algal growth potential of an inland saline and eutrophic lake.

Mitt. Intern. Verein. Limnol. 21:555-574.
Key Words:Devils Lake, algae

932. Shubert, L.E. 1982

Periphyton production in a saline prairie pothole.

Proc. N. Dak. Acad. Sci. 36:48.

Fox Lake, Ramsey County, North Dakota was sampled in the 1981 growing season.
Key Words: limnology, periphyton

933. Shueflo, J.B. 1969
Evapotranspiration and the water budget of prairie potholes in North Dakota.

U.S. Geol. Surv. Prof. Paper 585-B
Key Words:pothole lakes

934. Siebrass, H.H. 1961
The plankton of two large artificial impoundments of the Missouri River in South Dakota.

M.S. Thesis, Univ. of S. Dak. 57 pp.

Plankton studies in Lewis and Clark and Fort Randall reservoir.
Key Words:Lewis and Clark Reservoir,
Fort Randall Reservoir, plankton, limnology

935. Siefert, R.E. 1968
Spawning behavior of the white crappie, egg incubation and mortality, and larval food selection.

Trans. Amer. Fish. Soc. 97(3):252-259.

From observations made at Gavins Point National Fish Hatchery.
Key Words:white crappie, spawning, fish larvae, food

936. Siefert, R.E. 1969
Biology of the white crappie in Lewis and Clark Lake.

U.S. Dept. of the Interior, Fish & Wildl. Serv., Bureau of Sport Fisheries and Wildlife Tech. Paper No. 22. 16 pp.

Time of spawning, spawning and nursery areas, movement, growth, feeding habits, age and growth of age I fish and older, year class strengths from 1959 through 1966, and fecundity of white crappies for Lewis and Clark Lake (Gavins Point Reservoir) are reported.
Key Words:Lewis and Clark Reservoir, spawning, life history

937. Siefert, R.E. 1969
Characteristics for separation of white and black crappie larvae.

Trans. Amer. Fish. Soc. 98(2):326-328.

Method of separating crappie larvae in the 5 to 16 mm length range developed

at Lewis and Clark Reservoir.
Key Words:white crappie, black crappie, fish larvae, key

938. Simon, J.R. 1939
Yellowstone fishes.

Yellowstone Library and Museum Assoc., Yellowstone Natl. Park, Wyoming. 39 pp.
Key Words:Yellowstone River, fishes

939. Simon, J.R., and F. Simon 1942
Check list and keys of the fishes of Wyoming.

Univ. of Wyo. Rev. Publ. Vol. 6, No. 4.
Key Words: Wyoming, fishes

940. Simpson, H.E. 1912
Physiography of the Devils-Stump Lake region.

N. Dak. Geol. Survey. Sixth Biennial Rept. pp. 105-157.
Key Words:Devils Lake, geology

941. Sinning, J.A. 1968
Fishes of the Big Sioux River.

M.S. Thesis, South Dakota State University.
Key Words:Big Sioux River, fishes

942. Skille, J.M. 1971
Nutrient transport in Lake Poinsett system.

M.S. Thesis, South Dakota State University.
Key Words:Lake Poinsett, nutrients

943. Slizeski, J.J., L.L. Anderson and W.G. Dorough 1982
Hydrologic setting, system operation, present and future stresses.

pp. 15-38 in The Middle Missouri River, L.W. Hesse, et al., (eds.), The Missouri River Study Group, Box 934, Norfolk, NE. 68701.

Describes the geography, hydrogeology and water control features of the overall Missouri River basin.
Key Words: hydrogeology, water control, Missouri basin

944. Sloane, G.B. 1980
Macroscopic benthos populations in a South Dakota power plant cooling reservoir.

M.S. Thesis, South Dakota State University

Estimation of standing crops and seasonal variation of benthos in Big Stone Power Plant cooling reservoir.
Key Words: benthos, Big Stone

945. Sloane, G.B., and R.S. Benda 1981
Macroscopic benthos populations in a South Dakota power plant cooling reservoir.

Proc. S. Dak. Acad. Sci. 60:92-104.

Study of density, biomass, distribution, seasonal variation and entrainment of macroscopic benthos in Big Stone power plant cooling reservoir from January 1979 through March 1980.
Key Words:Big Stone, benthos

946. Smith, G.A. 1929
Food of certain minnows of South Dakota.

M.A. Thesis, Univ. of South Dakota, Vermillion.
Key Words: food, minnows

947. Smith, L.L., Jr., and R.H. Kramer 1964
The spot-tail shiner in Lower Red Lake, Minnesota.

Trans. Amer. Fish. Soc. 93(1):35-45.

Good general reference on spot-tail shiners, which are a major food of walleye in lower Red Lake. Spot-tails have been introduced into Lake Sakakawea, North Dakota.
Key Words:spottail shiner, Sakakawea

948. Smith, S.B. 1971
Macroscopic benthos population and taxonomy of the family chironomidae in Lake Poinsett, South Dakota.

M.S. Thesis, South Dakota State University.

Bottom fauna studies, primarily on chironomids in a eutrophic natural lake in eastern South Dakota.
Key Words:Lake Poinsett, chironomidae, benthos

949. Smith, S.B., and D.C. Hales 1972
Macroscopic benthos populations in Lake Poinsett, South Dakota.

Proc. S. Dak. Acad. Sci. 51:182-194.

Quantitative study of bottom fauna in three types of substrate in Lake Poinsett, a eutrophic natural lake in eastern South Dakota.

Key Words:Lake Poinsett, chironomidae, benthos

950. Sonneman, J.E. 1982
Nutrient limitation of phytoplankton in a prairie pothole.

M.A. Thesis, Univ. of South Dakota.
Key Words:pothole lakes, phytoplankton

951. South Dakota Department of Game, Fish and Parks (current file)
Index to Dingell-Johnson/Wallop-Breaux reports.

File copy in Chief of Fisheries Office, S. Dak. Dept. of Game, Fish and Parks, Pierre, SD

Fishery reports cross-referenced by each river or lake. Can be used to locate all studies ever made on each body of water in the state.
Key Words: fisheries, Dingell-Johnson Reports

952. South Dakota Department of Game, Fish and Parks (current file)
List of Dingell-Johnson/Wallop-Breaux reports.

File copy in Chief of Fisheries Office, S. Dak. Dept. of Game, Fish and Parks, Pierre, SD

Reports of fishery investigations in South Dakota supported by the Dingell-Johnson Act, arranged chronologically by years with author, title, serial number and federal aid project number.
Key Words: fisheries, Dingell-Johnson Reports

953. Sowards, C.L. 1959
Creel census and trout stocking evaluation of Iron Creek Lake, 1957-1959.

Dingell-Johnson Report 59-4, F-1-R-8 (Job 7), S. Dak. Dept. of Game, Fish and Parks.
Key Words:Iron Creek Lake, creel survey

954. Sowards, C.L., and S. Maxwell 1986
Missouri River bibliography, Second Printing.

U.S. Fish and Wildlife Service, Post Office Box 986, Pierre, SD, 57501

A bibliography of 746 entries also listed under U.S. Fish and Wildlife Service, 1986.
Key Words: bibliography, Missouri River

955. Sparrowe, R.D. 1986
Threats to paddlefish habitat.

pp. 36-45 in J.G. Dillard, L.K. Graham, and T.R. Russell, (eds.), The Paddlefish: status, management and propagation. Amer. Fish. Soc. North Central Div., Spec. Publ. 7, Columbia, Mo.

Has material on effect of Missouri River reservoirs.
Key Words: paddlefish

956. Sprague, J.W. 1958
Age and growth determination of the black bullhead from soft fin rays.

M.S. Thesis, South Dakota State University.
Key Words:age and growth, black bullhead

957. Stanley, L.D., and G.R. Hollman 1975
Further studies on the natural and experimental establishment of vegetation along the shorelines of Lake Oahe and Lake Sakakawea, lakes of the mainstem Missouri River.

Dept. Biol. Univ. S. Dak., Vermillion. 116 pp. (mimeo.)
Key Words: Oahe, shoreline vegetation, Sakakawea

958. Stanley, L.L., B. Vanderveen and G.R. Hoffman 1973
The shoreline vegetation of Lake Sakakawea and Lake Oahe, man-made fluctuating water-level reservoirs of the Upper Missouri River Basin.

Final report. U.S. Fish & Wildl. Serv., Washington, D.C.
Key Words: Oahe, Sakakawea, shoreline vegetation

959. Starostka, V.J. 1969
Food selectivity of bigmouth buffalo in Lake Poinsett, South Dakota.

M.S. Thesis, South Dakota State University
Key Words:food habits, bigmouth buffalo, Lake Poinsett

960. Starostka, V.J., and R.L. Applegate 1970
Food selectivity of bigmouth buffalo, Ictiobus cyprinellus, in Lake Poinsett, South Dakota.

Trans. Amer. Fish. Soc. 99(3):571-576.

Study of available plankton density and plankton taken by buffalo. Subadult and adult bigmouth buffalo consumed most planktonic organisms in about the same proportions as they were available.
Key Words:food habits, bigmouth buffalo, Lake Poinsett

961. Starostka, V.J., and W.R. Nelson 1974
Age, growth, sexual maturity, and food of channel catfish in central Lake Oahe, 1968-69.

U.S. Dept. of Interior Fish & Wildl. Serv. Tech Paper No. 81. 13 pp.

Catfish were collected with gill nets, trawl and trap nets for a study of year class strength, growth in length and weight, age composition, sexual maturity and food. Fish were the most important food iten of catfish longer than 500 mm, and yellow perch were the primary species eaten.
Key Words:channel catfish, Oahe, age and growth, food

962. Steinberg, R.A. 1972
Primary production and nutrient limitation in two prairie lakes.

M.S. Thesis, South Dakota State University.
Key Words:primary productivity, nutrients

963. Steinhaus, V.S. 1979
A list of vertebrates of southeastern North Dakota.

Special Publication No. 4. Inst. for Ecolog. Studies, Univ. of N. Dak.

Includes annotated list of fishes
Key Words: fishes, vertebrates, North Dakota

964. Steinhaus, V.S. 1979
A list of vertebrates of southcentral North Dakota.

Special Publication No. 5. Inst. for Ecolog. Studies, Univ. of N. Dak.

Includes annotated list of fishes.
Key Words: fishes, vertebrates, North Dakota

965. Steinhaus, V.S. 1979
A list of vertebrates of northwestern North Dakota.

Special Publication No. 6. Inst. for Ecolog. Studies, Univ. of N. Dak.

Includes fish, birds, mammals, amphibians and reptiles.
Key Words: fishes, vertebrates, North Dakota

966. Steinhaus, V.S. 1979
A list of vertebrates of northcentral North Dakota.

Special Publication No. 7. Inst. for Ecolog. Studies, Univ. of N. Dak.

Includes annotated list of fishes.
Key Words: fishes, vertebrates, North Dakota

967. Steinwand, T. 1982

Some effects of harvesting commercial fish in Jamestown Reservoir, North Dakota.

M.S. Thesis, University of North Dakota.

Results of various methods of removing commercial fish from Jamestown Reservoir, North Dakota, for profit and as a means of increasing growth of game fish. Gill nets and production of a current by pumping water through a channel were effective but too expensive.
Key Words:Jamestown Reservoir, commercial fishery, James River

968. Steinwand, T. 1985
Fish diseases and parasites.

North Dakota Outdoors 48(2):24-25.

Illustrated popular article for quick identification of common fish parasites.
Key Words: parasite

969. Steinwand, T. 1988
Investigation of the waters affected by and including Garrison Diverion principal supply works.

North Dakota Game and Fish Dept., Dingell-Johnson Division, Project F-2-R-34, Statewide Fisheries Investigations, Study VII, Report No. A-1152.
Key Words:Garrison Diversion

970. Steinwand, T., and G. Van Eeckhout 1983
Jamestown reservoir tagging study.

North Dakota Outdoors 46(1):7-8.

Popular description of a five-year tagging study of walleye, northern pike, black bullheads, carp and buffalo fish in Jamestown Reservoir to extend from 1983 through 1987.
Key Words:Jamestown Reservoir, mark and recapture

971. Steucke, E.W., Jr. 1975
A list of fishes collected from the J. Clark Salyer National Wildlife Refuge in 1974.

U.S. Fish and Wildlife Service, Bismarck, North Dakota.
Key Words: fishes, J.Clark Salyer Refuge, Souris River

972. Stewart, D.J., J.F. Kitchell, and L.B. Crowder 1981
Forage fishes and their salmonid predators in Lake Michigan.

Trans. Amer. Fish. Soc. 110(4):751-763.

Good discussion of chinook salmon (and other salmonid) predation on alewife and rainbow smelt.
Key Words:chinook salmon, predation

973. Stewart, K.W., and C.C. Lindsey 1970
First specimens of the stonecat, Noturus flavus, from the Hudson Bay drainage.

Jour. Fish. Res. Board Canada 27:170-172.

Nine specimens were caught 16 km south of Winnipeg in 1969. This was the first record of stonecats in the Hudson Bay drainage. Authors think it may have crossed from the Minnesota drainage through the Big Stone Lake divide.
Key Words: stonecat, Garrison Diversion

974. Stewart, K.W., I.M. Suthers and K. Leavesley 1985
New fish distribution records in Manitoba and the role of a man-made interconnection between two drainages as an avenue of dispersal.

Can. Field Naturalist. Vol 99.

Good tabulation and discussion of dispersion of fish species into Lake Manitoba through Assiniboine River floodway from the Red River drainage, including some from North Dakota.
Key Words: fishes, Red River

975. Stoakes, R.D. 1975
Seasonal and spatial distribution of riffle dwelling aquatic insects in the Forest River, North Dakota.

Ph.D. Thesis, North Dakota State Univ.
Key Words: limnology, aquatic insects, Forest River

976. Stober, Q.J. 1963
Some limnological effects of Tiber reservoir on the Marias River, Montana.

Proc. Mont. Acad. Sci. 23:111-137.

The Marias River is a tributary of the Missouri.
Key Words: limnology, Marias River, Missouri River

977. Stoermer, E.F., S.M. Taylor and E. Collender 1971
Paleoecological interpretation of the Holocene diatom succession in Devils Lake, North Dakota.

Trans. Amer. Microsc. Soc. 90(2):195-206

Study based on core samples of bottom sediments. Results give geological history of water levels in Devils Lake.

Key Words:Devils Lake, diatoms

978. Stone, C.C. 1981
Growth and survival of largemouth bass in newly stocked South Dakota impoundments.

M.S. Thesis, South Dakota State University.

Evaluation of stocking combinations and factors influencing growth and survival of bass in South Dakota ponds. The long range goal was developing stocking policies suited to South Dakota fishery needs.
Key Words:largemouth bass, growth, survival

979. Stone, C.C. 1985
Angler use and sport fishing harvest survey on Lake Frances Case, S.D., 1984

S. Dakota Dept. of Game, Fish and Parks. Report 85-1. 26 pp.
Key Words:Lake Francis Case, creel survey

980. Stone, C.C. 1985
Lewis and Clark fishing and hunting survey, 1984.

S. Dakota Dept. of Game, Fish and Parks. Report 85-2. Pierre, SD
Key Words:Lewis and Clark Reservoir, creel survey

981. Stone C.C., and J.J. Burczynski 1987
An estimate of abundance and distribution of rainbow smelt in Oahe Reservoir using hydroacoustic techniques, 1986

S. Dakota Dept. of Game, Fish and Parks. Annual Report No. 87-9. Pierre, SD.
Key Words:rainbow smelt, Oahe

982. Stone, C.C., and T. Modde 1982
Growth and survival of largemouth bass in newly stocked South Dakota ponds.

N. Amer. Jour. Fish. Mgmt. 2:326-333.

Study of growth of largemouth bass in small impoundments in South Dakota and their ability to keep bluegill under control.
Key Words:largemouth bass, growth, survival, pond

983. Suppes, V.C. 1975
Infection of paddlefish eggs.

Jour. Parasitol. 61(4):
Key Words: parasite

984. Surber, T. 1920

A preliminary catalogue of the fishes and fish-like vertebrates of Minnesota.

Append. Biennial Report, State Game and Fish Comm. Minn. for 1920:1-92.

Contains a list of fish in Minnesota waters adjacent to North Dakota.
Key Words: fishes, Minnesota, Red River

985. Sutherland, D.R. 1976
An analysis of the piscine parasitofauna of four North Dakota streams.

M.S. Thesis, University of North Dakota.

Results of a parasite survey of fish from the Missouri, James, Wild Rice and Sheyenne Rivers in North Dakota in 1975.
Key Words: parasite, Missouri River, James River, Wild Rice River, Sheyenne River

986. Sutherland, D.R., and H.L. Holloway, Jr. 1976
Ecological analysis of piscine parasitofauna from four North Dakota Streams.

Progr. Abstr. Amer. Soc. Parasit:37 ?
Key Words: parasite, Missouri River, James River, Wild Rice River, Sheyenne River

987. Sutherland, D.R., and H.L. Holloway, Jr. 1979
Parasites of fish from the Missouri, James, Sheyenne, and Wild Rice Rivers in North Dakota.

Proc. Helmin. Soc. Wash. 46(1):128-134.

From a Masters thesis by Sutherland (1976).
Key Words: parasite, Missouri River, James River, Wild Rice River, Sheyenne River

988. Swain, D.P., A.J. Derksen and J.S. Loch no date
A literature review of life histories of some species of fish - rainbow smelt, Osmerus mordax, gizzard shad, Dorosoma cepedianum, paddlefish, Polyodon spathula, shovelnose sturgeon, Scaphirhynchus platorynchus, pallid sturgeon, Scaphirhynchus albus, and shortnose gar, Lepisosteus platostomus, that may be introduced into the Hudson Bay watershed from the Missouri River watershed as a result of the Garrison Diversion.

Manitoba Dept. of Natural Resources, Fisheries Biol. Serv. M.S. Report 80-37.
Key Words:life history, interbasin transfer, Garrison Diversion

989. Swanson, G.A. 1965
Automatic plankton sampling system.

Limnol. Oceanogr. 10:149-152.

Description of apparatus which takes four samples per day for seven days in the main-stem Missouri River reservoirs.
Key Words:sampling equipment, limnology

990. Swanson, G.A. 1967
Factors influencing the distribution and abundance of Hexagenia nymphs (Ephemeroptera) in a Missouri River reservoir.

Ecology 48:216-225.

Bottom fauna study of Lewis and Clark Lake (Gavins Point Reservoir), South Dakota.
Key Words:Missouri River, ephemeroptera, Hexagenia, Lewis and Clark Reservoir

991. Swanson, G.A. 1978
Funnel trap for collecting littoral aquatic invertebrates.

Prog. Fish. Cult. 40(2):73.

Description of sampling device for aquatic invertebrates.
Key Words:sampling equipment, invertebrates

992. Swanson, G.A. 1988
Chemical characteristics of prairie lakes in south-central North Dakota - Their potential for influencing use by fish and wildlife.

Available from publications unit, U.S. Fish & Wildl. Serv., Matomic Building, Washington, D.C.
Key Words:water chemistry, limnology, pothole lakes

993. Swanson, G.A., and H.K. Nelson 1970
Potential influence of fish-rearing programs on waterfowl breeding habitat.

pp. 65-71 in A Symposium on the Management of Midwestern Winterkill Lakes. Special Publ. of the North Central Div., Amer. Fish. Soc.

Discussion of research in North Dakota on invertebrate food of ducks, in relation to the presence of fish.
Key Words: ducks, food, invertebrates

994. Swanson, G.A., T.C. Winter, V.A. Adomaitis and J.W. LaBaugh 1988
Chemical characteristics of prairie lakes in south-central North Dakota - Their potential for influencing use by fish and wildlife.

Fish & Wildl. Tech. Rept. 18

General description of water chemistry of lakes in North Dakota with brief

discussion of effects on fish.
Key Words:water chemistry

995. Swedberg, D.V. 1965
Age and rate of growth of freshwater drum, Lewis and Clark Lake, Missouri River.

Proc. S. Dak. Acad. Sci. 44:160-168.

Age and growth study in Lewis and Clark Lake (Gavins Point Reservoir) on fish captured in 1962, 1963, and 1964.
Key Words:freshwater drum, Lewis and Clark Reservoir, age and growth

996. Swedberg. D.V. 1967
A trawling device for small boats.

Prog. Fish. Cult. 29:241-242.

Gives plans for a power winch and mount from which to tow and recover a 27 food otter trawl used to sample fish in a Missouri River Reservoir (Gavins Point).
Key Words:sampling equipment, otter trawl

997. Swedberg, D.V. 1968
Food and growth of the freshwater drum in Lewis and Clark Lake, South Dakota.

Trans. Amer. Fish. Soc. 97(4):442-447.

Age and growth in relation to zooplankton, chironomid and ephemeroptera larvae, and other food organisms.
Key Words:freshwater drum, Lewis and Clark Reservoir, age and growth

998. Swedberg, D.V., and C.H. Walburg 1970
Spawning and early life history of the freshwater drum in Lewis and Clark Lake, Missouri River.

Trans. Amer. Fish. Soc. 99(3):560-570.

Early life history, spawning, fecundity, location of spawning areas, description of embryos, prelarvae, postlarvae, food habits of young-of-the-year, growth, mortality, year class size, relative mortality all described for the species in Lewis and Clark Reservoir.
Key Words:freshwater drum, life history, Lewis and Clark Reservoir

999. Swenson, H.A., and B.R. Colby 1955
Chemical quality of surface water in Devils Lake basin, North Dakota.

U.S. Geol. Surv. Water-Supply Paper No. 1295. 82 pp.

Key Words:Devils Lake, water chemistry

1000. Symington, D.R. 1959
The fish of Saskatchewan.

Sask. Dept. Nat. Resources, Conserv. Bull. 7:1-25.
Key Words: fishes, Saskatchewan

1001. Taft, C.E. 1948
Some algae from the Black Hills of South Dakota and the Turtle Mountain region of North Dakota.

Ohio Jour. Sci. 48:84-88.
Key Words: algae, Black Hills, Turtle Mountains

1002. Tao, Shi-Kuo 1970
Investigations of the use of gonadotropins to induce spawning in the white sucker, Catostomus commersoni (Lacepede), in North Dakota.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. 1311A

Fresh and dried pituitary and human chorionic gonadotropin were successful in inducing spawning in white suckers. This may facilitate production of suckers as a bait fish.
Key Words:white sucker, fish culture, spawning

1003. Tash, J.C., G.A. Swanson and R.E. Siefert 1966
A report on the occurrence and distribution of Cladocera and Copepoda in Lewis and Clark Lake, South Dakota.

Univ. Kansas Sci. Bull. 46:425-432.

Distribution and monthly abundance of cladocera and copepods during July-October, 1962 and January-August, 1963, were studied in Lewis and Clark Lake (Gavins Point Reservoir). Thirty-seven species were identified. Their distribution was related to river, littoral and limnetic areas.
Key Words: zooplankton, cladocera, copepoda, Lewis and Clark Reservoir

1004. Telford, H.S., and O.A. Stevens 1942
Uses and management of ponds and lakes.

N. Dak. Agric. Exp. Sta. Bull. No. 313. 40 pp.
Key Words: pond

1005. Thilenius, C.A. 1965
An evaluation of pollution in the Belle Fourche and Cheyenne Rivers due to wastes carried by Whitewood Creek, 1965.

Dingell-Johnson Report 65-5, S. Dak. Dept. of Game, Fish and Parks.
Key Words:Belle Fourche River, Cheyenne River, pollution, Whitewood Creek

1006. Thomas, E.J., J.N. Roherty, and H.F. McColly 1937
Construction of small dams for farm and community use.

N. Dak. Agric. Ext. Serv. Circ. 154. 20 pp.
Key Words: pond

1007. Thompson, E.S. 1898
A list of fishes known to occur in Manitoba.

Forest and Stream 51(11):214.

Lists fishes in Manitoba occurring in the Souris and Red Rivers.
Key Words: fishes, Manitoba, Souris River, Red River

1008. Thoreson, B., L. Haertel and D.G. Moore 1976
Landsat imagery as an indicator of Prairie Lake algal blooms and water transparency.

Proc. S. Dak. Acad. Sci. 55:56-72

Has data on algal abundance (chlorphyll a and total cell concentration), water transparency and chemical data from Pickerel, Enemy Swim, Blue Dog and Bitter Lakes in South Dakota correlated with satellite data.
Key Words: limnology, algae, Pickerel Lake, Enemy Swim Lake, Blue Dog Lake, Bitter Lake, satellite

1009. Thorn, W.C. 1969
Fish populations of two small impoundments in Northeastern South Dakota.

M.S. Thesis, South Dakota State University.

Population and standing crop was estimated by fin clipping and recovery, ages determined from scales, and stratification, temperature, dissolved oxygen and alkalinity measured in the two ponds.
Key Words:mark and recapture, population estimate, standing crop, age and growth

1010. Thorn, W.C., and V.J. Starostka 1969
The yellow bullhead in two small impoundments in northeastern South Dakota.

Proc. S. Dak. Acad. Sci. 48:148-150.

Yellow bullhead reported in James River drainage in South Dakota and cites it as occurring in the James River in North Dakota.
Key Words:yellow bullhead, James River

1011. Tipton, M.J., F.A. Schmer, J.C. Schmulbach, D.W. Ryland, J.F. Hayden and J.R. T. Beaver
Investigation of lake water quality in eastern South Dakota with remote sensing techniques.

U.S. Office of Water Research Technology, Completion Report B-022-S.Dak.
Key Words:remote sensing, water quality

1012. Todd, R.D., and J.F. Bender 1982
Water quality characteristics of the Missouri River near Fort Calhoun and Cooper Nuclear Stations.

pp. 39-68 in The Middle Missouri River, L.W. Hesse, et al., (eds.), The Missouri River Study Group. Box 934, Norfolk, NE., 68701.

Study of temperature, flow, thermal plume characteristics and water quality.
Key Words:water quality, heated effluent

1013. Tol, D. 1976
An evaluation of the fishery resources in a portion of the James River, South Dakota, scheduled for channel modification.

M.S. Thesis, South Dakota State University.

Study of a 120 mile section of the James River between Tacoma Park and Redfield, South Dakota. Spawning, food, growth and limnological conditions were reported.
Key Words: fishes, James River, channel modification

1014. Tondreau, R.E. 1979
Ichthyoplankton distribution in the Missouri River.

M.S. Thesis, Univ. of Iowa, Iowa City.
Key Words: ichthyoplankton, Missouri River

1015. Triplett, J.R., D.A. Culver, and G.B. Waterfield 1980
An annotated bibliography on the effects of water-level manipulation on lakes and reservoirs.

Ohio Dept. of Nat. Resources, Fed. Aid Project F-57-R, Columbus, Ohio.

Annotated with 348 references.
Key Words:water level control, bibliography

1016. Troelstrup, N.H., Jr. 1985
Macroinvertebrate colonization and consumer food habits in the Missouri River of northeastern Nebraska.

M.S. Thesis, Univ. of Nebraska, Lincoln.

Key Words: invertebrates, food habits

1017. Trzpuc, D.J. 1972
The biology and ecology of river carpsucker, Carpiodes carpio (Rafinesque), in the Little Missouri Arm of Lake Sakakawea, North Dakota.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. 1317.

Seven hundred forty-five river carpsucker were captured at 13 stations along the length of the Little Missouri Arm of Lake Sakakawea during the summer of 1970. Their distribution in the arm in relation to temperature, dissolved oxygen, pH and turbidity were determined. Sex, age and growth, length-weight and condition are reported. It is suggested that carpsucker spawn in the Little Missouri River upstream from the study area.
Key Words:river carpsucker, Little Missouri River, Sakakawea

1018. Tubb, R.A., F.A. Copes, and C. Johnston 1965
Fishes of the Sheyenne River of North Dakota.

Proc. N. Dak. Acad. Sci.19:120-128.

Results of collections at 25 stations throughout length of river in summer of 1964.
Key Words:Sheyenne River, fishes

1019. Tunink, D.H. 1977
Swimming performance of fishes endemic to the middle Missouri River.

M.A. Thesis, Univ. of South Dakota.

Laboratory study of swimming of:
shovelnose sturgeon
paddlefish
goldeye
emerald shiner
channel catfish
white bass
sauger
freshwater drum
walleye
Key Words:swimming

1020. Uglem, G.L. 1968
The life history and larval development of Neochinorhynchus saginatus, Van Cleve and Bangham, 1949 (Acanthocephala: Neoechinorhybnchidae).

M.S. Thesis University of North Dakota.

Study of creek chub parasites from the Goose and Forest Rivers, tributaries of

the Red River in North Dakota.
Key Words:creek chub, parasite, Goose River, Forest River

1021. Uglem, G. 1968
Life cycle and larval development of Neoechinorhynchus saginatus Van Cleve (Acanthocephala neoechinorhynchidae).

Proc. N. Dak. Acad. Sci. 22(I):20. (abstract)

Gives life cycle and hosts of this parasite of the creek chub.
Key Words:creek chub, parasite

1022. Uglem, G.L., and O.R. Larson 1969
The life history and larval development of Neoechinorhynchus saginatus Van Cleve and Bangham, 1949 (Acanthocephala:Neoechinorhnychidae).

Jour. Parasit. 55:1212-1217.

(see M.S. Thesis, Uglem, above)
Key Words: parasite

1023. Ulrich, R.A., and F.K. Pfeifer 1975
Limnological survey of the Souris River and its major tributaries in North Dakota.

U.S. Fish & Wildl. Serv. Div. of Fishery Service, Bismarck Area Office, Bismarck, N.D.
Key Words:Souris River, limnology

1024. Umber, H. 1980
A look back at salmon in North Dakota.

North Dakota Outdoors 43(5):7-8.

Popular historical account, 1969-1980.
Key Words: Sakakawea, chinook salmon, coho salmon

1025. Umber, H. 1981
Lake Metigoshe mud cat working on weed control.

North Dakota Outdoors 44:2-8.

Description of device to cut submerged aquatic plants in lakes.
Key Words:Lake Metigoshe, aquatic plant control

1026. Underhill, J.C. 1957
The distribution of Minnesota minnows and darters in relation to Pleistocene glaciation.

Minn. Mus. Nat. Hist. Occasional Paper No. 7. 45 pp.
Key Words: minnows, darters

1027. Underhill, J.C. 1959
Fishes of the Vermillion River, South Dakota.

Proc. S. Dak. Acad. Sci. 38:96-102.

Contains notes on distribution and habitat preferences of each species found. Contains effects of channel straightening and dredging.
Key Words:Vermillion River, fishes, channel modification

1028. Underhill, J.C. 1960
Variation in the red shiner, Notropis lutrensis, Baird and Girard.

Proc. Minn. Acad. Sci. 28:78-80.

Red shiners were collected in the Missouri River and the Vermillion River in South Dakota.
Key Words:red shiner, Vermillion River

1029. Unkenholz, D.G. 1971
Food habits of black crappies, white crappies, yellow perch and white suckers in a small impoundment in northeastern South Dakota.

M.S. Thesis, South Dakota State University.

Food habit data and an electivity index was computed for major food items utilized.
Key Words:black crappie, white crappie, yellow perch, white sucker, food habits

1030. Unkenholz, D.G no date
Paddlefish in South Dakota.

South Dakota Department of Game, Fish and Parks. 20 pp. (mimeo).

Summary of paddlefish history in South Dakota. Includes distribution, harvest, spawning and research.
Key Words: paddlefish

1031. Unkenholz, D.G 1982
Paddlefish spawning movements and reproductive success in the Missouri River below Fort Randall Dam, 1979-1981.

Dingell-Johnson Report 82-3, S. Dak. Dept. of Game, Fish and Parks.
Key Words: paddlefish, Fort Randall Dam

1032. Unkenholz, D.G. 1986

Effects of dams and other habitat alterations on paddlefish sport fisheries.

pp. 54-61 in J.G. Dillard, L.K. Graham, and T.R. Russell,(eds.), The Paddlefish: Status, Management, and Propagation. Amer. Fish. Soc., North Central Div., Spec. Publ., Columbia, Mo.
Includes discussion of effects of dams on the Missouri River in the Dakotas.
Key Words: paddlefish

1033. Unkenholz, D.G., P.H. Michaletz, and C.C. Stone. 1984
Fisheries studies related to the Gregory County pumped storage project.

Dept. of Game, Fish and Parks, Progress Report 84-5, Pierre, S. Dak.
Key Words:pumped storage

1034. Unkenholz, D.G., and J.G. Nickum 1971
Limnology of Labolt Pond.

Proc. S. Dak. Acad. Sci. 50:175-190.

Limnological study of small impoundment in Yellow Bank River in eastern South Dakota.
Key Words: limnology, Yellow Bank River, Labolt Pond

1035. Upham, W. 1896
The Glacial Lake Agassiz

U.S. Geol. Survey, Monograph 25:1-658.
Key Words:Lake Agassiz, geology

1036. U.S. Army Corps of Engineers 1974
Draft environmental impact statement for the Missouri mainstem system.

U.S. Army Corps of Engineers, Missouri River Division, Omaha, NE.

Lists important vegetation and fish and wildlife in each mainstem reservoir area.
Key Words:environmental impact, Missouri River

1037. U.S. Army Corps of Engineers 1977
Lake Sakakawea.

U.S. Government Printing Office, 1977-766-714.
Key Words: Sakakawea

1038. U.S. Army Corps of Engineers 1980
Flood control reconnaissance report for Devils Lake.

U.S. Army Corps of Engineers, 1135 U.S. Post Office and Custom House, St. Paul, Minn. 55101

Key Words:Devils Lake

1039. U.S. Bureau of Reclamation 1974
Initial Stage Garrison Diversion Unit Environmental Statement.

U.S. Bureau of Reclamation, Bismarck, N.Dak.
Key Words:Garrison Diversion, environmental impact

1040. U.S. Bureau of Reclamation 1982
McClusky Canal fish screen development and verification.

U.S. Bureau of Reclamation, Bismarck, N. Dak.
Key Words:McClusky Canal, fish screen

1041. U.S. Environmental Protection Agency 1969
Water quality investigations, Souris River basin, North Dakota.

U.S. Environ. Prot. Agency, Water Quality Office, Region VII, 911 Walnut, Kansas City, Mo.

Gives sources and types of pollution, water quality parameters and biological conditions of benthos and phytoplankton throughout the Souris Basin in North Dakota.
Key Words: pollution, Souris River

1042. U.S. Environmental Protection Agency 1971
Preliminary investigation of the mercury content in fish, sediment and water in Lake Oahe, South Dakota.

Office of Water Quality, EPA
Key Words: Oahe, mercury, pollution

1043. U.S. Environmental Protection Agency 1974
Working paper No. 565 (Lake Ashtabula) and working paper No. 570 (Jamestown Reservoir).

U.S. Environmental Protection Agency, Corvallis, Oregon. (mimeo).
Key Words: eutrophication, Jamestown Reservoir, water quality, Ashtabula Reservoir

1044. U.S. Environmental Protection Agency 1976
National eutrophication survey.

Working paper No. 565 (Lake Ashtabula) and working paper No. 570 (Jamestown Reservoir). Corvallis, Oreg. (mimeo.)
Key Words: eutrophication, water quality, Ashtabula Reservoir, Jamestown Reservoir

1045. U.S. Environmental Protection Agency 1979
Distribution of phytoplankton in North Dakota lakes.
Working Paper No. 700, available from Environ. Monitoring and Support Lab, Las Vegas, Nev.

Has a list of phytoplankters in Lake Sakakawea.
Key Words: Sakakawea, phytoplankton

1046. U.S. Fish and Wildlife Service 1950
Reservoir fishery investigations for summer 1949, Deerfield Reservoir, South Dakota.

U.S. Fish & Wildl. Serv., Missouri River Basin Studies, Billings, Montana.
Key Words: Deerfield Reservoir, Black Hills, creel survey

1047. U.S. Fish and Wildlife Service 1951
A two-year creel census, Deerfield Reservoir, South Dakota, 1949-1950.

U.S. Fish & Wildl. Serv., Office of Missouri River Basin Studies, Billings, Montana.
Key Words: Deerfield Reservoir, Black Hills, creel survey

1048. U.S. Fish and Wildlife Service 1951
A preliminary report on fish and wildlife resources in relation to the water development plan for the Little Missouri Basin.

U.S. Fish & Wildl. Serv., Office of Missouri
River Basin Studies, Billings, Mont. 17 pp.

A preliminary report and synopsis of available information on fish and wildlife resources in relation to the water development plan for the Little Missouri River Basin.
Key Words: development, Little Missouri River

1049. U.S. Fish and Wildlife Service 1952
A report on development of wildlife and fishery resources for Garrison Reservoir.

U.S. Fish & Wildl. Serv., Office of Missouri River Basin Studies, Billings, Montana. 31 pp.

A synopsis of available information on the Garrison Reservoir (Lake Sakakawea) Basin fish and wildlife resources assembled before the dam was closed.
Key Words:Garrison Reservoir, Sakakawea

1050. U.S. Fish & Wildlife Service 1952
A three-year fishery study, Fort Peck Reservoir, Montana, 1948-1950.

U.S. Fish & Wildl. Serv., Office of Missouri River Basin Studies, Billings,

Montana.
Key Words:creel survey, Fort Peck Reservoir

1051. U.S. Fish and Wildlife Service 1953
Distribution and status of important fish and wildlife, Missouri River Basin.

U.S. Fish & Wildl. Serv., Office of Missouri River Basin Studies, Billings, Mont. 296 pp.

Probable historical value.
Key Words: distribution, Missouri Basin

1052. U.S. Fish and Wildlife Service 1959
Snake Creek Reservoir, North Dakota.

U.S. Fish and Wildlife Service,Office of Missouri River Basin Studies, Billings, Mont.

Snake Creek Reservoir was original name for Lake Audubon, North Dakota. This is an early environmental impact type study.
Key Words:Snake Creek, environmental impact, Lake Audubon

1053. U.S. Fish and Wildlife Service 1973
Estimated instream water requirements for western Dakota tributaries.

Northern Plains Resources Program, U.S. Fish and Wildlife Service.
Key Words:stream flow

1054. U.S. Fish and Wildlife Service 1976
An evaluation of the impacts caused by the Garrison Diversion Unit on national wildlife refuges in North Dakota.
U.S. Fish and Wildlife Service, Bismarck,N.Dak. 113 pp.
Key Words:environmental impact, Garrison Diversion, wildlife refuge

1055. U.S. Fish and Wildlife Service 1976
Predictions of the effects of energy development on the aquatic resources of two upper Missouri reservoir ecosystems.

U.S. Fish & Wildlife Service, North Central Reservoir Investigations, Yankton, SD.

Study of fish, fish spawning, habitat, benthos, plankton and water quality that might be affected in Lake Sakakawea and Fort Peck Reservoir by energy development in the watershed.
Key Words: Sakakawea, Fort Peck Reservoir, environmental impact, energy development

1056. U.S. Fish and Wildlife Service 1986

Missouri River Bibliography.

U.S. Fish and Wildlife Service, Pierre, S.Dak.

A bibliography of 746 entries, also listed under Sowards, C.L. and S. Maxwell, 1986.
Key Words: bibliography, Missouri River

1057. U.S. Geological Survey 1975 and 1976
Water resources data for North Dakota.

U.S. Geological Survey, Bismarck, N.Dak.
Key Words: geology, water resources

1058. U.S. Public Health Service 1952
James River drainage basin.

U.S. Public Health Serv. Publ. No. 187.

Has some fishery discussion
Key Words:James River

1059. Van Alstine, J.B. 1980
Postglacial ostracod distribution and paleoecology, Devils Lake basin, northeastern North Dakota.

Ph.D. Thesis, Univ. North Dakota.

Study of geological history and past environments in Devils Lake from ostracoda in bottom core samples.
Key Words: ostracod, Devils Lake

1060. Van Alstine, J.B. 1981
Postglacial ostracod distribution and paleoecology, Devils Lake basin, Northeast North Dakota.

Proc. N. Dak. Acad. Sci. 35:16.

Study of ostracods from cores from Devils Lake and Red Willow Lake gave indications of past environments.
Key Words: ostracod, Devils Lake

1061. Vandel, G., and R. Kreil (no date)
Rare fishes in the Dakotas, an annotated list.

S. Dak. Dept. of Game, Fish and Parks, Pierre, S. Dak., and N. Dak. Game and Fish Dept., Bismarck, N. Dak.

Lists threatened and endangered fish species in North and South Dakota with counties where collected and annotations.

Key Words: fishes, threatened, endangered

1062. Vanderpuye, C.J., and K.D. Carlander 1971
Age, growth and condition of black crappie, Pomoxis nigromaculatus (Lesueur) in Lewis and Clark Lake, South Dakota, 1954-1957

Iowa State Jour. Sci. 45(4):541-555.
Key Words:age and growth, condition, black crappie

1063. Vanderveen, B.D. 1973
The shoreline vegetation of Lake Oahe, a man-made fluctuating water-level reservoir of the upper Missouri River basin.

M.A. Thesis, Univ. of South Dakota, Vermillion.
Key Words:shoreline vegetation, Oahe

1064. Van Doren, C.S. 1960
Recreational usage and visitors expenditures, Gavins Point Dam and Reservoir.

S. Dak. State University, Business Research Bureau.
Key Words: recreation, Gavins Point Reservoir

1065. Van Eeckhout, G. 1974
Movement, reproduction and ecological relationships of channel catfish, Ictalurus punctatus (Rafinesque), in the Little Missouri River, North Dakota, 1972-1973.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. 1325

Three thousand and nine catfish were tagged at 12 stations in the Little Missouri Arm and Little Missouri River in North Dakota to study movements and reproductive migrations. There were 257 recaptures. Catfish reproduced in the river, ascending in the spring and descending in the fall. Spring runoff and water levels controlled reproduction and year class survival. Rocky areas were utilized for spawning shelter, but were in limited supply.
Key Words:Little Missouri River, Sakakawea, channel catfish, mark and recapture, movement

1066. Van Eeckhout, G. 1978
Bait Vendors Handbook.

North Dakota Game and Fish Dept., and Univ. of N. Dak. Fisheries Research Unit.

Contains material for identification of bait fish and game fish, regulations, precautionary financial considerations, site selection, water supply and environmental factors, species characteristics, propagation, food and feeding, holding facilities, transportation,

marketing, losses, parasites and diseases, sources of equipment and references.
Key Words:bait fish

1067. Van Eeckhout, G. 1978
Paddlefish: Methuselah of the Missouri.

North Dakota Outdoors 40(10):8-10.

Popular account of life history and fishery for paddlefish.
Key Words: paddlefish

1068. Van Eeckhout, G. 1982
Winterkill: An update.

North Dakota Outdoors 44(9):2-5

Popular description of winterkill and dissolved oxygen determimation.
Key Words: winterkill, dissolved oxygen

1069. Vanicek, C.D. 1963
Life history studies of the sauger, Stizostedion canadense (Smith) in Gavin's Point Reservoir.

M.S. Thesis, Iowa State Univ. of Sci and Technol. 56 pp.

953 captures of sauger from May through October, 1963. Reservoir sauger had better condition factor than river sauger. Gizzard shad were predominant food of sauger.
Key Words: sauger, life history, Gavins Point Reservoir, Lewis and Clark Reservoir

1070. Vanicek, C.D. 1964
Age and growth of sauger, Stizostedion canadense (Smith) in Lewis and Clark Lake.

Iowa State Jour. of Sci. 38(4):481-502.

Age and growth of 531 sauger from Lewis and Clark Lake (Gavins Point Reservoir) and the Missouri River up to Ft. Randall Dam in 1961.
Key Words:age and growth, condition, sex ratios

1071. Van Ray, L.C. 1968
Evaluation of artificial aeration in Stockade Lake, South Dakota, 1968.

Dingell-Johnson Report 68-8, F-15-R-3 (Job 1), S. Dak. Dept. of Game, Fish and Parks.
Key Words:Black Hills, Stockade Lake, aeration

1072. Van Ray, L.C. 1969
Aeration of Stockade Lake, South Dakota.

M.S. Thesis, South Dakota State University.

Stockade Lake, a natural lake in the Black Hills, was aerated by pumping air through porous diffusion blocks placed on the lake bottom. Circulation and mixing of the water mass was determined by dye and temperature, dissolved oxygen, pH and other limnological parameters monitored.
Key Words: aeration, Stockade Lake, Black Hills

1073. Van Wyhe, G.L. 1958
Evaluation of walleye fingerling plants in Lake Darling, North Dakota.

M.S. Thesis, South Dakota State University. 30 pp.

Study of age and growth and percentage of returns from annual stockings.
Key Words:Lake Darling, stocking, walleye

1074. Van Whye, G. 1958
Age and growth analysis of fishes of Lake Darling.

North Dakota Game and Fish Dept., Dingell-Johnson Division, Report F-2-R-5.
Key Words:Lake Darling, age and growth

1075. Van Whye, G. 1960
Muskellunge.

North Dakota Outdoors 22(8):14-15.

A semipopular life history of Esox masquinongy.
Key Words: muskellunge, life history

1076. Vennes, J.W., and J.M. Grenum 1967
Microbiologic indicators of pollution in the Red River of the North.

Proc. N. Dak. Acad. Sci. 20:93. (abstract)

Microbiological samples taken above and below Grand Forks indicated that considerable pollution was present.
Key Words:Red River, pollution, microbiology

1077. Vertch, R., and D.W. Blinn 1971
Seasonal investigations of algae from Devils Lake.

The Prairie Naturalist 3 (3 and 4):67-79.

Results of collections in 1970 and 1971.
Key Words:Devils Lake, algae

1078. Vodehnal, W.L. 1982
Rainbow trout production and water quality in eastern South Dakota dugouts.

M.S. Thesis, South Dakota State University.
Key Words:rainbow trout, pond, water quality

1079. Vogel, D.A., and F.C. June 1987
Biology of the yellow perch in Lake Sharpe, South Dakota, 1965-1975.

pp. 61-74 in Limnological and fishery studies on Lake Sharpe, a main-stem Missouri River reservoir, 1964-1975. U.S. Fish & Wildl. Serv. Tech. Rept. 8.
Key Words:yellow perch, Lake Sharpe

1080. Volesky, D.F. 1969
A comparison of the macrobenthos from selected habitats in cattail marshes of the Missouri River.

M.A. Thesis, Univ. of South Dakota, Vermillion.

Samples taken downstream from Gavins Point Dam in South Dakota in unchannelized part of the Missouri River.
Key Words: benthos, cattail marshes, Missouri River

1081. Volk, A.A., and V.E. Montgomery 1973
The economic impact of sport fishing in South Dakota, 1972, with notes on angler traits.

S. Dak. Dept. of Game, Fish and Parks. D-J Project F-21-R-7 and 8. Job No. 1, 60 pp.
Key Words:economic value, creel survey

1082. Voth, D.R. 1965
Parasites of some fish from Goose River, North Dakota.

M.S. Thesis, University of North Dakota.

All 105 individuals of 10 species of fish from the Goose River, North Dakota, a tributary of the Red River carried at least one species of parasite.
Key Words: parasite, Goose River

1083. Voth, D.R., and O.R. Larson 1968
Metazoan parasites of fishes from Goose River, North Dakota.
Amer. Midl. Nat. 79(1):216-224.

(see M.S. Thesis, Voth, 1965)
Key Words: parasite, Red River

1084. Wagers, R., and D. La Bomascus 1986
Pond culture.

South Dakota Conservation Digest 53(2):20-23.
Key Words:fish culture, pond

1085. Wahl, J.R. 1980
Forage fish populations and growth of muskellunge in a South Dakota power plant cooling reservoir.

M.S. Thesis, South Dakota State University.

Standing crop, age and growth of forage fish and growth rate and impingement loss of muskellunge in the Big Stone Power Plant cooling reservoir in eastern South Dakota.
Key Words:Big Stone, muskellunge

1086. Wahl, J.R., and R.L. Applegate 1981
Species composition and standing crop of fishes in Big Stone Power plant cooling reservoir, South Dakota.

Proc. S. Dak. Acad. Sci. 60:79-82.

Standing crop estimated by mark and recapture between May 21-July 1, 1979).
Key Words: growth, muskellunge, Big Stone

1087. Wahl, J.R., and R.L. Applegate 1981
Species composition and standing crop of fishes in Big Stone power plant cooling reservoir, South Dakota.

Proc. S. Dak. Acad. Sci. 60:79-82

Standing crop estimated by mark and recapture between 21 May to 1 July, 1979.
Key Words:Big Stone, mark and recapture, standing crop

1088. Wahtola, C.H., Jr. 1969
The age, rate of growth and ecological distribution of channel catfish, Ictalurus punctatus (Rafinesque), in the Little Missouri Arm of Lake Sakakawea, North Dakota.

M.S. Thesis, University of North Dakota. Also, North Dakota Game and Fish Dept., Dingell-Johnson Division Report No. 1307.

Study of channel catfish in the Little Missouri Arm of Lake Sakakawea. Catfish were aged by sectioning pectoral spines. Age and growth, sex ratios and distribution were reported and population was proposed for commercial exploitation.
Key Words:channel catfish, Sakakawea, Little Missouri River, age and growth

1089. Wahtola, C.H., Jr. 1971
The population dynamics of channel catfish, Ictalurus punctatus (Rafinesque), in the Little Missouri Arm of Lake Sakakawea, before and during commercial exploitation, 1968-1971.

Ph.D. Thesis, Univ. of N. Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. 1314

Catfish were studied to determine population size, structure, growth and other characteristics before and during commercial exploitation. In 1968, 671 catfish were aged and in 1969 to 1971, 2460 catfish were tagged and released for population estimates and study of movements. A population from 25,000 to 40,000 was postulated, but insuffcient tag returns rendered these figures unreliable. These catfish were thought to reproduce in the Little Missouri River, and missing year classes and other evidence suggest that the population may be unable to support a sustained profitable commercial fishery.
Key Words: Sakakawea, channel catfish, population dynamics, commercial fishery

1090. Wahtola, C.J., Jr. 1971
Winged ants as fish food.

The Prairie Naturalist 3(2):57-58.

Almost all of 202 fish of 10 species captured August 22, 1968, were found to be gorged on winged ants. This had been observed in 1966 and 1967 at about the same time and was in consequence of nuptual flights of the ants.
Key Words: goldeye, food, ants

1091. Wahtola, C.H., Jr. 1972
Population estimates of channel catfish in the Little Missouri Arm, Lake Sakakawea, 1969-1971.

Proc. N. Dak. Acad. Sci. 26(I):22 (abstract)

A population of 25,000 to 40,000 catfish were estimated using the Schnabel and Schumacher-Eschmeyer methods.
Key Words: Sakakawea, population estimate

1092. Wahtola, C.H., Jr., B.L. Evenhuis and J.B. Owen 1970
The age and growth of the yellow perch, Perca flavescens (Mitchill), in the Little Missouri Arm of Lake Sakakawea, North Dakota, 1968.

Proc. N. Dak. Acad. Sci. 24(I):33 (abstracts) and 24(II):39-44 (paper). also North Dakota Game and Fish Dept., Dingell-Johnson Division, Reports No. 1313 and 1314A.

Perch had poor condition factors and none were found over four years of age.

The short life span and small size was attributed to an inadequate supply of small fish and insects for food. Perch were forced to feed largely on cladocera in competition with goldeye, which were also somewhat stunted.
Key Words: Sakakawea, yellow perch, age and growth

1093. Wahtola, C.H., Jr., D.E. Miller and J.B. Owen 1972
The age and rate of growth of walleye, Stizostedion vitreum, and sauger, S. Canadense, in Lake Sakakawea, North Dakota, 1968-1969.

Proc. N. Dak. Acad. Sci. 25(I):29 (abstract) and 25(II):72-83 (paper).

Walleye had good linear growth, which was attributed to an abundance of small yellow perch and goldeye in the reservoir.
Key Words: Sakakawea, age and growth, walleye, sauger

1094. Wahtola, C.H.,Jr., and J.B. Owen 1970
A decalcification technique for sectioning pectoral spines.
Prog. Fish. Cult. 32(4):226.

Method of sectioning catfish or bullhead spines in a hand microtome after softening in hydrochloric acid.
Key Words: decalcification, black bullhead, channel catfish, age and growth

1095. Wahtola, C.H., Jr., and J.B. Owen 1973
The vertical distribution of channel catfish, (Ictalurus punctatus), in the Little Missouri Arm of Lake Sakakawea, North Dakota, 1968.

Proc. N. Dak. Acad. Sci. 27(I):37. (abstract).

Depth preference of catfish at four stations along the length of the Little Missouri Arm as sampled by vertical gill nets.
Key Words: Sakakawea, channel catfish

1096. Walburg, C.H. 1964
Fish population studies, Lewis and Clark Lake, Missouri River, 1956 to 1962.

U.S. Fish & Wildl. Serv. Spec. Sci. Report on Fisheries, No. 482, 27 pp.

Relative abundance and life history observations on 34 species of fish between 1956 and 1962 in Gavins Point Reservoir.
Key Words:life history, Lewis and Clark Reservoir, Gavins Point Reservoir

1097. Walburg, C.H. 1969
Fish sampling and estimation of relative abundance in Lewis and Clark Lake.

U.S. Bureau of Sport Fisheries and Wildlife Tech. Paper, No. 18. 15 pp.

Catches by gill nets, frame nets, trap nets, otter trawls, and 220 volt electroshocker were compared to determine the fish population of

Lewis and Clark Lake (Gavins Point Reservoir). Trawls were the most efficient for measuring young-of-the-year, and trap and gill nets were the most efficient for sampling older fish.
Key Words:sampling equipment, population estimate, Lewis and Clark Reservoir

1098. Walburg, C.H. 1971
Loss of young fish in reservoir discharge and year-class survival, Lewis and Clark Lake, Missouri River.

in G.E. Hall (ed.), Reservoir Fisheries and Limnology, Amer. Fish. Soc., Spec. Publ. No. 8.

Losses of young-of-the-year fish of 16 species estimated per 24 hour period. Losses attributed to summer flushing rates.
Key Words:Lewis and Clark Reservoir, young-of-the-year, reservoir discharge

1099. Walburg, C.H. 1972
Some factors associated with fluctuations in year-class strength of sauger, Lewis and Clark Lake, South Dakota.

Trans. Amer. Fish. Soc. 101(2):311-316.

Year class strength was associated with water level changes, water temperatures and water exchange rates.
Key Words:population dynamics, sauger, Lewis and Clark Reservoir

1100. Walburg, C.H. 1975
Food of young-of-the-year channel catfish in Lewis and Clark Lake, a Missouri River Reservoir.

Amer. Midl. Nat. 93(1):218-221.

Zooplankton and aquatic insects were the only food in the stomachs of age-0 channel catfish. Diptera larvae and pupae became more important as the fish grew.
Key Words:Lewis and Clark Reservoir, young-of-the-year, channel catfish, food

1101. Walburg, C.H. 1976
Changes in the fish population of Lewis and Clark Lake, 1956-74, and their relation to water management and the environment.

Research Report No. 79, U.S. Fish & Wildl. Serv.

Sampling of the fish population between 1956 and 1974 indicate that fish abundance has decreased 66%, and the number of species decreased 20% since impoundment in 1956. The declines are caused by short exchange time and water level management. Suggested management measures are discussed.
Key Words:Lewis and Clark Reservoir, population dynamics

1102. Walburg, C.H. 1977
Lake Francis Case, a Missouri River Reservoir: changes in the fish population in 1954-75, and suggestions for management.

U.S. Fish & Wildl. Serv. Tech. Paper No. 95. 12 pp.

Water level fluctuations are largely the cause of changes in abundance and composition of fish species. Walburg recommends a 3-year cycle in pool level management with a low level for two consecutive years to encourage growth of shoreline vegetation, followed by a high level the third year, through July.
Key Words:Lake Francis Case, water elevation, management

1103. Walburg, C.H. 1984
Rise in Lewis and Clark Lake pool elevation and impact on the fish population

Contract Report to Omaha District, U.S. Army Corps of Engineers.
Key Words:Lewis and Clark Reservoir, water elevation, environmental impact

1104. Walburg, C.H., G.H. Kaiser and P.L. Hudson 1971
Lewis and Clark Lake tailwater biota and some relations of the tailwater and reservoir fish populations.

pp. 449-467 in G.E. Hall (ed.), Reservoir Fisheries and Limnology. Amer. Fish. Soc., Spec. Publ. No. 8.

Benthos, drift, plankton and fish studied in 1968 and 1969 to determine seasonal occurrence and origin.
Key Words: tailrace, benthos, plankton, Lewis and Clark Reservoir

1105. Walburg, C.H., and W.R. Nelson 1966
Carp, river carpsucker, smallmouth buffalo, and bigmouth buffalo in Lewis and Clark Lake, Missouri River.

U.S. Fish & Wildl. Serv. Research Report No. 69. 30 pp.

Studies of age composition, growth length-weight, reproduction, year class strength and food habits of these species in Lewis and Clark Lake from 1962 to 1964.
Key Words: carp, river carpsucker, bigmouth buffalo, smallmouth buffalo, life history

1106. Walburg, C.H., J.F. Novotny, K.E. Jacobs, W.D. Swink, T.M. Campbell, J. Nestler and G.E. Saul. 1981
Effects of reservoir releases on tailwater ecology: A literature review.

Tech. Report E-81-12. U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, Miss.
Key Words: tailrace, drawdown, reservoir discharge

1107. Wali, M.K., and A.L. Kollman 1973
Environmental and productivity relations of a Potamogeton pectinatus community.

Proc. N. Dak. Acad. Sci. 27(1):38.

Limnological study of a community of Potamogeton in Fox Lake, 16 km northeast of Devils Lake.
Key Words: Potamogeton, limnology

1108. Walker, R.E. 1975
Food habits, growth, and production of young-of-the-year walleyes, Stizostedion vitreum vitreum (Mitchill), in a South Dakota pond.

M.S. Thesis, South Dakota State University.

Measurement of survival, growth, method of recovery and food habits of young walleye stocked in glacial potholes used as rearing ponds for the first summer.
Key Words: young-of-the-year, walleye, food habits, growth

1109. Walker, R.E., and R.L. Applegate 1976
Growth, food and possible effects of young-of-the-year walleyes in a South Dakota prairie pothole.

Prog. Fish. Cult. 38:217-220.

Evaluation of effects on the native fauna in potholes used to rear young walleyes.
Key Words: young-of-the-year, food, walleye, growth

1110. Walter, C.M., H.G. Brown, and C.P. Hensley 1974
Distribution of total mercury in the fishes of Lake Oahe.

Water Research 8(7):413-418.
Key Words: Oahe, mercury, pollution

1111. Walter, C.M., F.C. June, and H.G. Brown 1973
Mercury in fish sediments, and water in Lake Oahe, South Dakota.

Jour. Water Pollution Control Fed. 45(10):2203-2210.
Key Words: Oahe, mercury, pollution

1112. Walters, T.R. 1986
Dynamics and distribution of fishes occupying a South Dakota power plant cooling reservoir.

M.S. Thesis, South Dakota State University.

A study of the feasibility of maintaining walleye broodstock in the cooling reservoir of Big Stone Power Plant. Growth, survival, distribution and reproductive activities of walleyes and data on other fishes are reported.
Key Words:Big Stone, walleye, brood stock, growth, survival

1113. Waltner, C.M. 1988
Electrophoretic, morphometric and meristic comparisons of walleye brood stocks in South Dakota.

M.S. Thesis, South Dakota State University.
Key Words: walleye, meristic, morphometric, electrophoresis

1114. Wanson, W.W. 1969
The life history and ecology of the trematode Phyllodistomum nocomis.

Proc. N. Dak. Acad. Sci. 23:26 (abstract).

Adult worms from the Forest River in northeastern North Dakota parasitized the ureters and urinary bladder of the hornyhead chub, (Hybopsis biguttata) and larval development occurred in the fingernail clam Spaerium striatinum.
Key Words: parasite, hornyhead chub, fingernail clam

1115. Wanson, W.W., and O.R. Larson 1972
Studies of helminths of North Dakota. V. Life history of Phyllodistomum nocomis Fischthal, 1942 (Trematoda: Gorgoderidae).

Jour. Parasit. 58:1106-1109.
Key Words: parasite

1116. Ward, J.V. 1976
Effects of flow patterns below large dams on stream benthos: A review.

pp. 235-253 in Instream flow needs. Vol. II, J.F. Osborn and C.H. Allman, (eds.), Western Division, Amer. Fish. Soc., Bethesda, Maryland.
Key Words: benthos

1117. Warnick, D.C. 1963
Growth rates of yellow perch, Perca flavescens (Mitchill), in two North Dakota lakes after population reduction with toxaphene.

M.S. Thesis, South Dakota State University.

Age and growth study after reduction in density with recommendations for use of toxaphene to reduce overpopulations of perch and increase growth rates.
Key Words:yellow perch, fish control, age and growth, toxaphene

1118. Warnick, D.C. 1966
Growth rates of yellow perch in two North Dakota lakes after population reduction with toxaphene.

U.S. Fish & Wildl. Serv., Bureau of Sport Fisheries and Wildlife Resources Publ. No. 8. (Investigations in Fish Control No. 5)
Key Words:fish control, toxaphene, yellow perch

1119. Warnick, D.C. 1977
Commercial fishing or rough fish control in South Dakota, some views and apparent values.

S. Dak. Dept. of Game, Fish and Parks, Bull.
No. 7.
Key Words:commercial fishery, fish control

1120. Weber, D.T. 1961
Investigation of the thermal and chemical cycles of Pickerel Lake, 1960.

Dingell-Johnson Report 61-10, F-1-R-10 (Job 24), S. Dak. Dept. of Game, Fish and Parks
Key Words: limnology, Pickerel Lake

1121. Weidemann, A.D. 1980
Changes in urea concentrations associated with photosynthesis and ammonium during the summer months, 1978 and 1979, in Brewer Lake, Erie, N.Dak.

M. S. Thesis, N. Dak. State Univ.
Key Words:Brewer Lake, limnology

1122. Weidemann, A.D., and G.W. Comita 1979
Urea uptake and release during mid-day hours (8am-3pm) of photosynthetic activity in Brewer Lake, Erie, North Dakota.
Proc. N. Dak. Acad. Sci. 33:98.

Light and dark bottle experiments suggesting urea may be utilized by freshwater phytoplankton during high photosynthetic periods.
Key Words:Brewer Lake, limnology

1123. Weidemann, A.D. and G.W. Comita
and N. Dak. State Game and Fish Dept. 1980
Seasonal variations in urea uptake by a predominately blue-green algal population in Brewer Lake, Erie, North Dakota.

Proc. N. Dak. Acad. of Sci. 34:48

Progress in above study.
Key Words:Brewer Lake, limnology, bluegreen algae

1124. Weir, H.C., and E.P. Churchill 1945
The anatomy and histology of the digestive system of the gizzard shad Dorosoma cepedianum (Le Sueur).

Proc. S. Dak. Acad. Sci. 25:34-43.

Shad were collected from Vermillion River in September 1944. Feeding habits of fish were observed in aquaria in addition to histology of digestive organs.
Key Words:Vermillion River, gizzard shad

1125. Weithman, A.S., and G.G. Fleener 1988
Recreational use along the Missouri River in Missouri.

pp. 67-78 in N.G. Benson, (ed.), The Missouri River, the resources their uses and values. Spec. Publ. No. 8, North Central Division and Upper Missouri Chapter, Amer, Fish. Soc.

Has data for comparison of recreational use in upper and lower Missouri River basin.
Key Words: recreation

1126. Welker, B.D. 1967
Movements of marked channel catfish in the Little Sioux River, Iowa.

Trans. Amer. Fish. Soc. 96:351-353.
Key Words:Little Sioux River, channel catfish, mark and recapture

1127. Wells, J.V.B. 1959
Surface water supply of the United States, 1957. Part 5. Hudson Bay and the upper Mississippi River Basins.

Geol. Surv. Water Supply Paper No. 1508.

Has description of Ashtabula Reservoir.
Key Words: Ashtabula Reservoir

1128. Wentz, W.A. 1979
Endangered and threatened species in South Dakota.

S. Dak. State Univ., Brookings.
Key Words: endangered, threatened

1129. Wheeler, G.P. 1979
Catfish cage culture in a South Dakota power plant cooling reservoir.

M.S. Thesis, South Dakota State University.

Temperature, water chemistry, and growth data of channel catfish reared in cages in Big Stone Power Plant cooling reservoir.

Key Words:Big Stone, cage culture, channel catfish

1130. White, M. 1962
The Economic Impact of Sport Fishing in South Dakota.

Business Research Bureau, Univ. of S. Dak,. for S.Dak. Dept. of Game, Fish and Parks.
Key Words:economic value

1131. Whitley, J.R., and R.S. Campbell 1972
Water quality and biology of the Missouri River.

Paper presented at the annual Missouri River Resources Research Conference, Univ. of Mo., Columbia.

Discusses effects of construction of the six major dams and of channelization in the Missouri River.
Key Words:Missouri River, water quality, channelization

1132. Whitley, J.R., and R.S. Campbell 1974
Some aspects of water quality and biology of the Missouri River.

Trans. Missouri Acad. Sci. 7-8:62-72.
Key Words:Missouri River, water quality, channelization

1133. Wickstrom, G.A. 1984
Intensive culture of largemouth bass and walleye fry in experimental systems.

M.S. Thesis, South Dakota State University.

Zooplankton were made available to young fish from 25 to 48 days after hatching, and food selected, growth and survival determined.
Key Words:fish culture, largemouth bass, walleye, fry, food

1134. Wickstrom, G.A., and R.L. Applegate 1989
Growth and food selection of intensively cultured largemouth bass fry.

Prog. Fish Cult. 51:79-82

Results of experiments to determine the invertebrates chosen by newly hatched bass fry and follow their growth.
Key Words:largemouth bass, food, fry

1135. Wiedenheft, W.D. 1983
Life history and secondary production of tiger salamanders (Ambystoma tigrinum) in prairie pothole lakes.

M. S. Thesis, N. Dak. State Univ.
Key Words: salamander

1136. Williams, L.G. 1966
Dominant planktonic rotifers of major waterways of the United States.

Limnol. Oceanogr. 11(1):83-91.

A comparative study of dominant rotifer species in major waterways of the U.S. including stations at Yankton, S.D., Bismarck and Williston, N.D.
Key Words: plankton, rotifera

1137. Williams, W.D. 1971
Horizontal and vertical distribution and taxonomic composition of net zooplankton in a large lotic ecosystem, the Missouri River.

M.A. Thesis, Univ. of South Dakota, Vermillion.
Key Words: limnology, zooplankton, Missouri River

1138. Willis, D.W. 1977
A list of vertebrates of Northeastern North Dakota.

Inst. for Ecolog. Studies, Univ. of N. Dakota, Special Publ. No. 1.
Key Words:North Dakota, vertebrates

1139. Willis, D.W. 1978
Investigations of population structure and relative abundance of year-classes of buffalo fishes, Ictiobus spp., in Lake Sakakawea, North Dakota.

M.S. Thesis, University of North Dakota. Also North Dakota Game and Fish Dept., Dingell-Johnson Division, Report No. 1329.

An age and growth study in 1977 showed strong year classes through 1967, when the reservoir reached full pool. After 1967, year classes were weak except in 1969, when water levels were raised 0.8 feet above full pool elevation.
Key Words: Sakakawea, bigmouth buffalo, smallmouth buffalo, age and growth

1140. Willis, D.W. 1989
Proposed standard length-weight equation for northern pike.

N. Amer. Jour. of Fishery Management 9(2):203-208.

Presents a new method of expressing length-weight for each species using a "standard weight."
Key Words:northern pike, length-weight

1141. Willis, D.W., M.D. Beem and R.L. Hanten 1990
Managing South Dakota ponds for fish and wildlife.

S. Dak. Dept. of Game, Fish and Parks. S. Dak. State Univ., S. Dak. Cooperative Extension Serv.
Key Words: pond

1142. Willis, D.W., and S.A. Flickinger 1981
Intensive culture of largemouth bass fry.

Trans. Amer. Fish. Soc. 110:650-655.
Key Words:largemouth bass, fish culture

1143. Willis, D.W., C.S. Guy and B.R. Murphy 1989
Development and evaluation of a proposed standard weight (Ws) equation for yellow perch.

S. Dak. Dept. of Game, Fish and Parks, Progress Report No. 89-13.
Key Words:standard weight, yellow perch

1144. Willis, D.W., and J.B. Owen 1978
Decline of year-class strength of buffalo fishes in Lake Sakakawea, North Dakota.

The Prairie Naturalist 10(3):89-91.

Strong year classes found before the reservoir reached full pool in 1967, and weak or missing year classes after that suggested rising water levels over flooded vegetation affected reproduction favorably. See thesis by Willis, 1978.
Key Words: Sakakawea, smallmouth buffalo, bigmouth buffalo, age and growth

1145. Willock, T.A. 1968
New Alberta records of the silvery and brassy minnows, stonecat and sauger, with a preliminary list of the fishes of the Milk River in Alberta.

Canadian Field-Naturalist 82:18-23.

Lists 19 species from 135 collections of fishes from the Milk River drainage in the summer of 1966.
Key Words: fishes, Alberta, Milk River, silvery minnow, brassy minnow stonecat, sauger

1146. Willock, T.A. 1969
Distributional list of fishes in the Missouri drainage of Canada.

Jour. Fish. Res. Board Canada 26:1439-1499.

Checklist contains 9 families and 27 species from the Milk and Frenchman drainages in Saskatchewan.
Key Words: Saskatchewan, Milk River, Frenchman River, fishes

1147. Wilson, H.W. 1950
A study of the fishes of the upper Sheyenne River.

M.S. Thesis, Univ. of Minn.

Preimpoundment study of distribution of fishes in Sheyenne River, North Dakota before construction of Baldhill Dam.
Key Words:Sheyenne River, fishes, Baldhill Dam

1148. Wilson, W.D. 1956
Notes on cestodes in paddlefish, Polyodon spathula, from the Missouri River.

Trans. Kansas Acad. Sci. 59:459-460.

Paddlefish were caught near St. Joseph, Missouri.
Key Words: parasite, paddlefish

1149. Winslow, M.L. 1921
Mollusca of North Dakota.

Occasional Papers Museum of Zool., Univ. of Mich., Ann Arbor 98:1-18.

Lists 49 aquatic species and 28 land snails.
Key Words: molluska

1150. Wolf, E.G. 1967
Photosynthetic production and energy conversion in Spiritwood Lake, North Dakota.

M.S. Thesis, N. Dak. State Univ.
Key Words: photosynthesis, Spiritwood Lake

1151. Wolf, J., J. McMahon and Sr. M. Diggins 1972
Comparison of benthic organisms in semi-natural and channelized portions of the Missouri River.

Proc. S. Dak. Acad. Sci. 51:160-167.

Study of benthos from four stations west of Vermillion, South Dakota, and three stations near Whiting, Iowa, in the summer of 1971 (see McMahon, et al., 1972).
Key Words: benthos, channelized, unchannelized, Missouri River

1152. Wolters, J.D. 1988
Growth, survival, and vulnerability to predation of stocked walleye (Stizostedion vitreum) fingerlings.

M.S. Thesis, South Dakota State University.

Experimental lots of walleye were stocked into laboratory tanks with largemouth bass and northern pike and fathead minnows. Other experiments were conducted in ponds with other fish species present. Growth and survival of walleyes were determined and selective predation by bass and northern pike on the walleye and other species present determined.
Key Words: walleye, growth, survival

1153. Wood, R., and D.W. Pfitzer 1960
Some effects of water level fluctuations on the fisheries of large reservoirs.

Tech. Meeting, International Union for Conservation of Nature and Natural Resources, Athens, Greece 4:118-138.
Key Words:water elevation, water level control

1154. Woods, C.E. 1968
A survey of helminth parasites of fishes from the Forest River, North Dakota.

M.S. Thesis, University of North Dakota.

Forest River is a tributary of the Red River of the North.
Key Words: parasite, Red River, Forest River

1155. Woods, C.E. 1971
Helminth parasites of fishes from the Forest River, North Dakota.

Amer. Midl. Nat. 86:212-215.

Study of 140 specimens including 13 species collected in 1966, 1967 and 1968. All specimens were infected with at least one parasite. Ten species of helminths were new North Dakota records.
Key Words: parasite, Red River, Forest River

1156. Woolman, A.J. 1896
A report upon the ichthyological investigations in western Minnesota and eastern North Dakota.

Report U.S. Comm. Fish and Fisheries 1893 (1895):343-373.
Key Words: fishes, Red River

1157. Woolworth, A.R. 1954
Fishing way back when . . . . . .

North Dakota Outdoors 17(1):5

Describes fishing traps used in the Missouri River by Hidatsu Indians, with photos.
Key Words:fish traps, native fishing

1158. Wydoski, R.S., and D.H. Bennett 1981
Forage species in lakes and reservoirs of the western United States.

Trans. Amer. Fish. Soc. 110:764-771.

A discussion of exotic introductions including Utah chubs.
Key Words:Utah chub, introduction

1159. Young, J.C. 1987
Impacts of stocking herbivorous fishes for aquatic macrophyte removal upon game fishes in South Dakota ponds.

M.S. Thesis, South Dakota State University.

Effects of unisex grass carp and grass carp hybrids on aquatic macrophytes, changes in water quality, and the impact of these herbivorous fishes on predator prey relationships were measured.
Key Words:herbivorous fishes, macrophytes

1160. Young, R.T. 1912
Cryptobranthus alleghanienis in North Dakota.

Science N.S. 35:308-309.
Key Words: salamander

1161. Young, R.T. 1917
The work of the North Dakota Biological Station at Devils Lake.

Sci. Monthly, Dec., 1917:497-508.

A brief description of the geology of the lake basin and of the work of the laboratory on restocking of fish and studies of plankton in the saline lake.
Key Words:Devils Lake, geology, plankton, limnology

1162. Young, R.T. 1923
Resistance of fish to salts and alkalinity.

Amer. Jour. Physiol. 63:373-388.
Key Words: salinity, alkaline

1163. Young, R.T. 1923
Notes on the physiography of North Dakota and the conditions in certain of its waters.

Ann. Missouri Bot. Garden, 10:385-392.

A description of physiographic regions of North Dakota with the types of lakes

in the regions given. Freshwater, intermediate and alkaline lakes are defined and examples given.
Key Words: physiography, water quality, limnology

1164. Young, R.T. 1924
The life of Devils Lake North Dakota.

Publ. N. Dak. Biol. Sta. 1924:1-116.

Comprehensive paper on biota, fish, limnology, water chemistry and other features of Devils Lake.
Key Words:Devils Lake

1165. Younk, J.A. 1982
Distribution, movement, and temperature selection of adult walleye and muskellunge in a power plant cooling reservoir.

M.S. Thesis, South Dakota State University.

Biotelemetry study in Big Stone Power Plant cooling reservoir.
Key Words: biotelemetry, movement, walleye, muskellunge, Big Stone

1166. Zalesky, R.C. 1929
The food of the Loch Leven trout of certain streams of the Black Hills.

M.S. Thesis, University of South Dakota.
Key Words: food, brown trout, Black Hills

1167. Zimmerman C.J., Jr., and H.H. Burgess 1972
Fishes of Lacreek National Wildlife Refuge, Bennett County, South Dakota.

Proc. S. Dak. Acad. Sci. 52:88-94.

List of fishes collected in 1972.
Key Words:Lacreek Refuge, fishes

1168. Zischke, J.A., and C.M. Vaughn 1962
Helminth parasites of young-of-the-year fishes from the Fort Randall Reservoir.

Proc. S. Dak. Acad. Sci. 41:97-100.

List of parasites from 335 young-of-the-year yellow perch, black crappie, largemouth bass and sauger.
Key Words:Fort Randall Reservoir, parasite, young-of-the-year, yellow perch, black crappie, largemouth bass, sauger

1169. Zittel, A.E. 1978
An investigation of the swimming performance of eight species of fish endemic

to the middle Missouri River.

M.A. Thesis, Univ. of South Dakota.

Laboratory study of swimming of shortnose gar, gizzard shad, carp, river carpsucker, blue sucker, shorthead redhorse, bigmouth buffalo and smallmouth buffalo.
Key Words: swimming, shortnose gar, gizzard shad, carp, river carpsucker, blue sucker, shorthead redhorse, bigmouth buffalo, smallmouth buffalo

1170. Zweiacker, P.L. 1967
Aspects of the life history of the shovelnose sturgeon, Scaphirhynchus platorynchus (Rafinesque), in the Missouri River.

M.A. Thesis, Univ. of South Dakota, Vermillion. 46 pp.

Sturgeon were taken from the Missouri River and from near the mouth of the James River near Vermillion, S.D. Sturgeon were aged by sectioning pectoral fin rays.
Key Words:shovelnose sturgeon, James River, life history
