

Literature Cited

- Almazan, G. and C.E. Boyd, 1978. Plankton production and tilapia yield in ponds. *Aquaculture*, 15:75-77.
- Amir Ullah, M.D., 1989. Nutrient release characteristics of duck manure for Nile tilapia production. AIT Thesis No. AE-89-43. M.S. thesis, Asian Institute of Technology, Bangkok, Thailand.
- Anderson, R.O., 1993a. New approaches for management of fertilized hatchery ponds. *J. Appl. Aquacult.*, 2(3/4):1-8.
- Anderson, R.O., 1993b. Effects of organic and chemical fertilizers and biological control of problem organisms on production of fingerling striped bass, *Morone saxatilis*. *J. Appl. Aquacult.*, 2(3/4):119-149.
- APHA, 1985. Standard Methods for the Examination of Water and Wastewater, Sixteenth Edition. American Public Health Association, American Water Works Association, and Water Pollution Control Federation, Washington, D.C., 1268 pp.
- Argue, B.J. and R.P. Phelps, 1995. Hapa-based systems for producing *Oreochromis niloticus* fry suitable for hormone sex-reversal. *J. Appl. Aquacult.*, 5(1):21-27.
- Avnimelech, Y., 1984. Reactions in fish pond sediments as inferred from sediment cores data. In: H. Rosenthal and S. Sarig (Editors), *Research on Aquaculture. Proceedings of Second Seminar of German-Israeli Cooperation in Aquaculture Research*, Special Publ. No. 8. European Mariculture Society, Bredene, Belgium, pp. 41-54.
- Avnimelech, Y. and M. Lacher, 1979. A tentative nutrient balance for intensive fish ponds. *Bamidgeh*, 31(1):3-8.
- Avnimelech, Y. and M. Lacher, 1980. On the role of soil in the maintenance of fish pond's fertility. In: J. Barica and L.R. Mur (Editors), *Hypertrophic Ecosystems*. W. Junk BV Publishers, The Hague, pp. 251-255.
- Ayub, M., C.E. Boyd, and D.R. Teichert-Coddington, 1993. Effects of urea application, aeration, and drying on total carbon concentrations in pond bottom soils. *Prog. Fish-Cult.*, 55:210-213.
- Barash, H., I. Plavnik, and R. Moav, 1982. Integration of duck and fish farming: experimental results. *Aquaculture*, 27:129-140.

- Biddlestone, A.J. and K.R. Gray, 1987. Production of organic fertilizers by composting. In: D.W.J. Moriarty and R.S.V. Pullin (Editors), *Detritus and Microbial Ecology in Aquaculture*. ICLARM Conference Proceedings 14. International Center for Living Aquatic Resources Management, Manila, Philippines, pp. 151-180.
- Blackburn, H.T., B.A. Lund, and M.D. Krom, 1988. C- and N-mineralization in the sediments of earthen marine fishponds. *Mar. Ecol. Prog. Ser.*, 44:221-227.
- Bold, H.C. and M.J. Wynne, 1978. *Introduction to the Algae*. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 706 pp.
- Bolte, J., S. Nath, D. Ernst, and M. Tice, 1994. POND[®] Version 2.0. Biosystems Analysis Group, Dept. of Bioresource Engineering, Oregon State University, Corvallis, Oregon.
- Borgese, E.M., 1977. *Seafarm: The Story of Aquaculture*. Harry N. Abrams, Inc., New York, 236 pp.
- Borggaard, O.K., S.S. Jørgensen, J.P. Møberg, and B. Raben-Lange, 1990. Influence of organic matter on phosphate adsorption by aluminium and iron oxides in sandy soils. *J. Soil Sci.*, 41:443-449.
- Boston, H.L., M.S. Adams, and J.D. Madsen, 1989. Photosynthetic strategies and productivity in aquatic systems. *Aquat. Bot.*, 34:27-57.
- Bouldin, D.R., R.L. Johnson, C. Burda, and Chun-Wei Kao, 1974. Losses of inorganic nitrogen from aquatic systems. *J. Environ. Qual.*, 3(2):107-114.
- Bowen, S.H., 1982. Feeding, digestion and growth—quantitative consideration. In: R.S.V. Pullin and R.H. Lowe-McConnell (Editors), *The Biology and Culture of Tilapias*. ICLARM Conference Proceedings 7. International Center for Living Aquatic Resources Management, Manila, Philippines, pp. 141-156.
- Bowman, J.R. and J.E. Lannan, 1995. Evaluation of soil pH-percent base saturation relationships for use in estimating the lime requirements of earthen aquaculture ponds. *J. World Aquacult. Soc.*, 26(21):172-182.
- Boyd, C.E., 1971. Phosphorus dynamics in ponds. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.*, 25:418-426.
- Boyd, C.E., 1990. *Water Quality in Ponds for Aquaculture*. Alabama Agricultural Experiment Station, Auburn University,

- Birmingham Publishing, 482 pp.
- Boyd, C.E., 1995a. Bottom Soils, Sediment, and Pond Aquaculture. Chapman and Hall, New York, 348 pp.
- Boyd, C.E., 1995b. Potential of sodium nitrate to improve environmental conditions in aquaculture ponds. *World Aquacult.*, 26(2):38-40.
- Boyd, C.E., 1997. Practical aspects of chemistry in pond aquaculture. *Prog. Fish-Cult.*, 59:85-93.
- Boyd, C.E. and J.R. Bowman, 1997. Pond bottom soils. In: H.S. Egna and C.E. Boyd (Editors), *Dynamics of Pond Aquaculture*. CRC Press, Boca Raton/New York, pp. 135-162.
- Boyd, C.E. and M.L. Cuenco, 1980. Refinements of the lime requirement procedure for fish ponds. *Aquaculture*, 21:293-299.
- Boyd, C.E. and H.V. Daniels, 1993. Liming and fertilization of brackish water shrimp ponds. *J. Appl. Aquacult.*, 2(3/4):221-234.
- Boyd, C.E. and P. Munsiri, 1996. Phosphorus adsorption capacity and availability of added phosphorus in soils from aquaculture areas in Thailand. *J. World Aquacult. Soc.*, 27(2):160-167.
- Boyd, C.E. and Y. Musig, 1981. Orthophosphate uptake by phytoplankton and sediment. *Aquaculture*, 22:165-173.
- Boyd, C.E. and D.R. Teichert-Coddington, 1992. Relationship between wind speed and reaeration in small aquaculture ponds. *Aquacult. Eng.*, 11:121-131.
- Boyd, C.E. and D.R. Teichert-Coddington, 1994. Pond bottom soil respiration during fallow and culture periods in heavily fertilized tropical fish ponds. *J. World Aquacult. Soc.*, 25(3):417-423.
- Boyd, C.E. and B.J. Watten, 1989. Aeration systems in aquaculture. *Rev. Aquat. Sci.*, 1:425-472.
- Brabrand, A., B.A. Faafeng, and J.P.M. Nilssen, 1990. Relative importance of phosphorus to phytoplankton production: Fish excretion versus external loading. *Can. J. Fish. Aquat. Sci.*, 47(2):364-372.
- Cavari, B.Z., 1977. Nitrification potential and factors governing the rate of nitrification in Lake Kinneret. *Oikos*, 28:285-290.
- Chang, W.Y.B., 1989. Estimates of hypolimnetic oxygen deficits in ponds. *Aquacult. Fish. Manage.*, 20:167-172.
- Chang, W.Y.B. and H. Ouyang, 1988. Dynamics of dissolved oxygen and vertical circulation in fish ponds. *Aquaculture*, 74:263-276.

- Chikafumbwa, F.J.K., 1996. The use of napier grass (*Pennisetum purpureum*) and maize (*Zea mays*) bran as low-cost tilapia aquaculture inputs. *Aquaculture*, 146:101-107.
- Christman, R.F. and M. Ghassemi, 1966. Chemical nature of organic color in water. *J. Am. Water Works Assoc.*, 58(6):723-741.
- Colman, J. and P. Edwards, 1987. Feeding pathways and environmental constraints in waste-fed aquaculture: Balance and optimization. In: D.J.W. Moriarty and R.S.V. Pullin (Editors), *Detritus and Microbial Ecology in Aquaculture*. ICLARM Conference Proceedings 14. International Center for Living Aquatic Resources Management, Manila, Philippines, pp. 240-281.
- Colt, J.E. and D.A. Armstrong, 1981. Nitrogen toxicity to crustaceans, fish, and mollusks. In: L.J. Allen and E.C. Kinney (Editors), *Proceedings of the Bio-Engineering Symposium for Fish Culture*. Fish Culture Section, American Fisheries Society, Bethesda, MD, pp. 34-47.
- Costa-Pierce, B.A. and R.S.V. Pullin, 1989. Stirring ponds as a possible means of increasing aquaculture production. *Aquabyte*, 2(3):5-7.
- Daud, S.K., D. Hasbollah, and A.T. Law, 1988. Effects of un-ionized ammonia on red tilapia (*Oreochromis mossambicus* O. *niloticus* hybrid) fry. In: R.S.V. Pullin, T. Bhukaswan, K. Tonguthai, and J.L. MacLean (Editors), *The Second International Symposium on Tilapia in Aquaculture*. ICLARM Conference Proceedings 15. Dept. of Fisheries, Bangkok, Thailand, and International Center for Living Aquatic Resources Management, Manila, Philippines, pp. 411-413.
- Edwards, P., 1983. The future potential of integrated farming systems in Asia. *Proceedings of the Fifth World Conference on Animal Production*. Japanese Society of Zootechnical Science, Tokyo, Japan, pp. 273-281.
- Edwards, P., 1985. Pigs over fish-ponds. *Pig International*, 15(9):8-10.
- Edwards, P., 1986. Duck/fish integrated farming systems. In: D.J. Farrell and P. Stapleton (Editors), *Duck Production Science and World Practice*. University of New England, Armidale, NSW, Australia, pp. 267-291.
- Edwards, P., 1987. Use of terrestrial vegetation and aquatic macrophytes in aquaculture. In: D.W.J. Moriarty and R.S.V. Pullin (Editors), *Detritus and Microbial Ecology in*

- Aquaculture. ICLARM Conference Proceedings 14. International Center for Living Aquatic Resources Management, Manila, Philippines, pp. 311-335.
- Edwards, P., 1991. Integrated fish farming. INFOFISH International, May 1991, pp. 45-52.
- El Samra, M.I., and J. Oláh, 1979. Significance of nitrogen fixation in fish ponds. *Aquaculture*, 18:367-372.
- Emerson, K., R.C. Russo, R.E. Lund, and R.V. Thurston, 1975. Aqueous ammonia equilibrium calculations: Effects of pH and temperature. *J. Fish. Res. Board Can.*, 32:2379-2383.
- Engle, C.R., M. Brewster, and F. Hitayezu, 1993. An economic analysis of fish production in a subsistence agricultural economy. *J. Aquacult. Trop.*, 8:151-165.
- Engle, C.R., R. Balakrishnan, T.R. Hanson, and J.J. Molnar, 1997. Economic considerations. In: H.S. Egna and C.E. Boyd (Editors), *Dynamics of Pond Aquaculture*, CRC Press, Boca Raton/New York, pp. 377-395.
- Fogg, G.E., 1975. *Algal Cultures and Phytoplankton Ecology*, 2nd ed. The University of Wisconsin Press, Madison, Wisconsin, 175 pp.
- Fry, J.C., 1987. Functional roles of the major groups of bacteria in pelagic ecosystems: A review. In: D.W.J. Moriarty and R.S.V. Pullin (Editors), *Detritus and Microbial Ecology in Aquaculture*. ICLARM Conference Proceedings 14. International Center for Living Aquatic Resources Management, Manila, Philippines, pp. 83-122.
- Furumai, H. and S. Ohgaki, 1989. Adsorption-desorption of phosphorus by lake sediments under anaerobic conditions. *Water Res.*, 23(6):677-683.
- Furumai, H., T. Kondo, and S. Ohgaki, 1989. Phosphorus exchange kinetics and exchangeable phosphorus forms in sediments. *Water Res.*, 23(6):685-691.
- Gadshalk, G.L. and R.G. Wetzel, 1977. Decomposition of macrophytes and the metabolism of organic matter in sediments. In: H.L. Golterman (Editor), *Interactions Between Sediments and Fresh Water*, W. Junk BV Publishers, The Hague, pp. 258-264.
- Gasith, A. and A.D. Hasler, 1976. Airborne litterfall as a source of organic matter in lakes. *Limnol. Oceanogr.*, 21:253-258.
- Gasith, A. and W. Lawacz, 1976. Breakdown of leaf litter in a littoral zone of a eutrophic lake. *Ekol. Pol.*, 24:421-430.

- Gaviria, J.I., H.R. Schmittou, and J.H. Grover, 1986. Acid sulphate soils: Identification, formation and implications for aquaculture. *J. Aquacult. Trop.*, 1:99-109.
- Gerhart, D.Z. and G.E. Likens, 1975. Enrichment experiments for determining nutrient limitation: Four methods compared. *Limnol. Oceanogr.*, 20:649-653.
- Goldman, C.R., 1960. Primary productivity and limiting factors in three lakes of the Alaska Peninsula. *Ecol. Monogr.*, 30:210-230.
- Goldman, C.R., 1978. The use of natural phytoplankton populations in bioassay. *Mitt. Int. Ver. Theor. Angew. Limnol.*, 21:364-71.
- Goldman, C.R. and A.J. Horne, 1983. *Limnology*. McGraw-Hill, New York, 464 pp.
- Goldman, J.C., W.J. Oswald, and D. Jenkins, 1974. The kinetics of inorganic carbon limited algal growth. *J. Water. Poll. Control Fed.*, 46(3):554-574.
- Golterman, H.L., 1972. The role of phytoplankton in detritus formation. *Mem. Ist. Ital. Idrobiol.*, 29 Suppl., pp. 89-103.
- Green, B.W. and C.E. Boyd, 1995. Chemical budgets for organically fertilized fish ponds in the dry tropics. *J. of World Aquacult. Soc.*, 26(3):284-296.
- Green, B.W., R.P. Phelps, and H.R. Alvararenga, 1989. The effect of manures and chemical fertilizers on the production of *Oreochromis niloticus* in earthen ponds. *Aquaculture*, 76:37-42.
- Grobbelaar, J.V., 1983. Availability to algae of N and P absorbed on suspended solids in turbid waters of the Amazon River. *Arch. Hydrobiol.*, 96:302-316.
- Guttman, H., 1991. Assessment of nutrient limitation in fertilized fish ponds by algal assay. M.S. thesis, Asian Institute of Technology, Bangkok, Thailand, 87 pp.
- Guttman, H., personal communication, 1997.
- Halemejkó, G.Z. and R.J. Chrost, 1986. Enzymatic hydrolysis of proteinaceous particulate and dissolved material in an eutrophic lake. *Arch. Hydrobiol.*, 107:1-21.
- Hall, C.A.S. and R. Moll, 1975. Methods of assessing aquatic primary productivity. In: H. Leith and R.H. Whittaker (Editors), *Primary Productivity of the Biosphere*. R.H. Springer-Verlag, New York, pp. 19-53.
- Havens, K.E, 1991. Fish-induced sediment resuspension: Effects on phytoplankton biomass and community structure in a shallow hypereutrophic lake. *J. Plankton Res.*, 13(6):1163-1171.

- Healey, F.P., 1977. Ammonium and urea uptake by some freshwater algae. *Can. J. Bot.*, 55:61-69.
- Hem, S. and J.L.B. Avit, 1996. Acadja-enclos used in Côte d'Ivoire as an extensive aquaculture system. In: R.S.V. Pullin, J. Lazard, M. Legendre, J.B. Amon Kothias, and D. Pauly (Editors), *The Third International Symposium on Tilapia in Aquaculture. ICLARM Conference Proceedings 41*. International Center for Living Aquatic Resources Management, Manila, Philippines, pp. 46-53.
- Hepher, B., 1958. On the dynamics of phosphorus added to fishponds in Israel. *Limnol. Oceanogr.*, 3(1):84-100.
- Hepher, B., 1965. The effect of impoundment on chemical and textural changes in fishponds' bottom soils. *Bamidgeh*, 17(3):71-81.
- Hepher, B., 1966. Some aspects of the phosphorus cycle in fishponds. *Verh. Int. Ver. Limnol.*, 16(3):1293-1297.
- Hopkins, K.D., 1992. Reporting fish growth: a review of the basics. *J. World Maricult. Soc.*, 23:173-179.
- Hopkins, K.D., personal communication, 1997.
- Hollerman, W.D. and C.E. Boyd, 1986. Effects of annual draining on the limnology of sunfish ponds. *Prog. Fish-Cult.*, 48:120-124.
- Hunt, D. and C.E. Boyd, 1981. Alkalinity losses from ammonium fertilizers used in fish ponds. *Trans. Am. Fish. Soc.*, 110:81-85.
- Jolly, C. and H. Clonts, 1993. *Economics of Aquaculture*. Food Products Press, New York, 319 pp.
- Kastner, R.J. and C.E. Boyd, 1996. Production of sunfish *Lepomis* spp. in ponds treated with controlled-release fertilizers. *J. World Aquacult. Soc.*, 27(2):228-234.
- Keeney, D.R., 1973. The nitrogen cycle in sediment-water systems. *J. Environ. Qual.*, 2(1):15-29.
- Kemmerer, A.J., 1968. A method to determine fertilization requirements of a small sport fishing lake. *Trans. Amer. Fish. Soc.*, 97:425-428.
- Knud-Hansen, C.F., 1992. Pond history as a source of error in fish culture experiments: A quantitative assessment using covariate analysis. *Aquaculture*, 105:21-36.
- Knud-Hansen, C.F., 1997. Experimental design and analysis in aquaculture. In: H.S. Egna and C.E. Boyd (Editors), *Dynamics of Pond Aquaculture*. CRC Press, Boca/Raton, New York, pp. 325-375.

- Knud-Hansen, C.F. and T.R. Batterson, 1994. Effect of fertilization frequency on the production of Nile tilapia (*Oreochromis niloticus*). *Aquaculture*, 123:271-280.
- Knud-Hansen, C.F. and C.R. Goldman, 1987. Phytoplankton productivity responses to nutrient enrichment in a tropical reservoir. *Arch. Hydrobiol. Beih.*, 28:463-469.
- Knud-Hansen, C.F. and C.K. Lin, 1996. Strategies for stocking Nile tilapia (*Oreochromis niloticus*) in fertilized ponds. In: R.S.V. Pullin, J. Lazard, M. Legendre, J.B. Amon Kothias, and D. Pauly (Editors), *The Third International Symposium on Tilapia in Aquaculture*. ICLARM Conference Proceedings 41. International Center for Living Aquatic Resources Management, Manila, Philippines, pp. 70-76
- Knud-Hansen, C.F. and A. Pautong, 1993. On the role of urea in pond fertilization. *Aquaculture*, 114:273-283.
- Knud-Hansen, C.F., K.D. Hopkins, and H. Guttman. A comparative analysis of the fixed-input, computer modeling, and algal bioassay approaches for identifying pond fertilization requirements. *Aquaculture*. In press.
- Knud-Hansen, C.F., C.D. McNabb, and T.R. Batterson, 1991a. Application of limnology for efficient nutrient utilization in tropical pond aquaculture. *Verh. Int. Ver. Limnol.*, 24:2541-2543.
- Knud-Hansen, C.F., C.D. McNabb, and T.R. Batterson, 1993. The role of chicken manure in the production of Nile tilapia (*Oreochromis niloticus*). *Aquacult. Fish. Manage.*, 24:483-493.
- Knud-Hansen, C.F., C.D. McNabb, T.R. Batterson, I.S. Harahat, K. Sumatadinata, and H.M. Eidman, 1991b. Nitrogen input, primary productivity and fish yield in freshwater ponds in Indonesia. *Aquaculture*, 94:49-63.
- Krom, M.D., C. Porter, and H. Gordin, 1985. Description of the water quality conditions in a semi-intensively cultured marine fish pond in Eilat, Israel. *Aquaculture*, 49:141-157.
- Landau, M., 1992. *Introduction to Aquaculture*. John Wiley & Sons, Inc., New York, 440 pp.
- Lannan, J.E., 1993. *User's Guide to PONDCLASS®*, Guidelines for Fertilizing Aquaculture Ponds. Pond Dynamics / Aquaculture CRSP, Office of International Research and Development, Oregon State University, Corvallis, Oregon, 60 pp.
- Lannan, J.E., S. Nath, F. Manickam, J. Bowman, and A. Snow, 1993. *PONDCLASS® Version 1.2 PC*. Pond Dynamics / Aquaculture

- CRSP, Office of International Research and Development,
Oregon State University, Corvallis, Oregon.
- Leftley, J.W. and P.J. Syrett, 1973. Urease and ATP: Urea amidolyase activity in unicellular algae. *J. Gen. Microbiol.*, 77:109-115.
- Liang, Y., J.M. Melack, and J. Wang, 1981. Primary production and fish yields in Chinese ponds and lakes. *Trans. Amer. Fish. Soc.*, 110:346-350.
- Lin, C.K., 1996. Clarias and Tilapia Interaction in Polyculture. CRSP Research Report 96-94. Pond Dynamics / Aquaculture CRSP, Office of International Research and Development, Oregon State University, Corvallis, Oregon, 14 pp.
- Lin, C.K., V. Tansakul, and C. Apinhapath, 1988. Biological nitrogen fixation as a source of nitrogen input in fish ponds. In: R.S.V. Pullin, T. Bhukaswan, K. Tonguthai, and J.L. MacLean (Editors), *The Second International Symposium on Tilapia in Aquaculture*. ICLARM Conference Proceedings 15. Dept. of Fisheries, Bangkok, Thailand, and International Center for Living Aquatic Resources Management, Manila, Philippines, pp. 53-58.
- Lin, C.K., D.R. Teichert-Coddington, B.W. Green, and K.L. Veverica, 1997. Fertilization regimes. In: H.S. Eгна and C.E. Boyd (Editors), *Dynamics of Pond Aquaculture*. CRC Press, Boca Raton / New York, pp. 73-107.
- Little, D. and J. Muir, 1987. *A Guide to Integrated Warm Water Aquaculture*. Institute of Aquaculture, Stirling, Scotland, 238 pp.
- Lorenzen, C.J., N.A. Welschmeyer, A.E. Copping, and M. Vernet, 1983. Sinking rates of organic particles. *Limnol. Oceanogr.*, 28:766-769.
- Lowe-McConnell, R.H., 1982. Tilapias in fish communities. In: R.S.V. Pullin and R.H. Lowe-McConnell (Editors), *The Biology and Culture of Tilapias*. ICLARM Conference Proceedings 7. International Center for Living Aquatic Resources Management, Manila, Philippines, pp. 83-113.
- MacLean, M.H., J.H. Brown, K.J. Ang, and K. Jauncey, 1994. Effects of manure fertilization frequency on pond culture of the freshwater prawn, *Macrobrachium rosenbergii* (de Man). *Aquacult. Fish. Manag.*, 25:601-611.
- McConnell, W.J., S. Lewis, and J.E. Olson, 1977. Gross photosynthesis as an estimator of potential fish production. *Trans. Am. Fish. Soc.*, 106:417-423.
- McKee, G.D., L.P. Parrish, C.R. Hirth, K.M. Kackenthum, and L.E. Keup, 1970. Sediment-water nutrient relationships—Part 1.

- Water and Sewage Works, 117:203-206.
- McNabb, C.D., T.R. Batterson, B.J. Premo, C.F. Knud-Hansen, H.M. Eidman, C.K. Lin, K. Jaiyen, J.E. Hanson, and R. Chuenpagdee, 1990. Managing fertilizers for fish yield in tropical ponds in Asia. In: R. Hirano and I. Hanyu (Editors), Proceedings of the Second Asian Fisheries Forum, 17-22 April 1989, Tokyo, Japan, pp. 169-172.
- Meade, J.W., 1985. Allowable ammonia for fish culture. Prog. Fish-Cult., 47(3):135-145.
- Middlebrooks, E.J., D.H. Falkenborg, and T.E. Maloney, (Editors), 1976. Biostimulation and Nutrient Assessment. Ann Arbor Science, Ann Arbor, Michigan, 390 pp.
- Milstein, A., A. Alkon, I. Karplus, M. Kochba, and Y. Avnimelech, 1995. Combined effects of fertilization rate, manuring and feed pellet application on fish performance and water quality in polyculture ponds. Aquacult. Res., 26:55-65.
- Mims, S.D., J.A. Clark, J.C. Williams, and D.R. Bayne, 1995. Factors influencing zooplankton production in organically fertilized ponds for culture of paddlefish, *Polyodon spathula*. J. Appl. Aquacult., 5(1):29-44.
- Mims, S.D., J.A. Clark, J.C. Williams, and D.B. Rouse, 1993. Comparisons of two by-products and a prepared diet as organic fertilizers on growth and survival of larval paddlefish, *Polyodon spathula*, in earthen ponds. J. Appl. Aquacult., 2(3/4):171-187.
- Mitchell, S.F. and T.J. Malthus, 1984. Evaluation of a short-term bioassay for nitrogen limitation of phytoplankton. Verh. Int. Ver. Limnol., 22:250-253.
- Morris, I., 1974. Nitrogen assimilation and protein synthesis. In: W.D.P. Stewart (Editor), Algal Physiology and Biochemistry. University of California Press, Berkeley / Los Angeles, pp. 583-609.
- Msiska, O.V., 1983. Nutrient limitation in waters from selected fish ponds. Luso. J. Sci. Technol., 4(1):21-29.
- Muck, R.E. and T.S. Steenhuis, 1982. Nitrogen losses from manure storage. Agricultural Wastes, 4:41-54.
- Nath, S.S. and J.E. Lannan, 1993. Dry matter-nutrient relationships in manures and factors affecting nutrient availability from poultry manures. In: H. Egna, M. McNamara, J. Bowman, and N. Astin (Editors), Tenth Annual Admin. Report, 1991-1992. PD/A CRSP, Office of International Research and Development, Oregon State University, Corvallis, Oregon, pp. 110-119.

- Noriega-Curtis, P., 1979. Primary productivity and related fish yield in intensely manured fishponds. *Aquaculture*, 17:335-344.
- O'Brien, J.W., 1974. The dynamics of nutrient limitation of phytoplankton algae: A model reconsidered. *Ecology*, 55:135-141.
- Oláh, J., M.A. Abdel Moneim, and L. Tóth, 1983. Nitrogen fixation in the sediment of shallow Lake Balaton, a reservoir and fishponds. *Int. Rev. Gesamten Hydrobiol.*, 68:13-44.
- Oláh, J., A. Zsigri, and A. Kintzly, 1978. Primary production estimations in fishponds by the mathematical evaluation of daily O₂ curves. *Aquacult. Hung.*, 1:3-14.
- Oláh, J., V.R.P. Sinha, S. Ayyappan, C.S. Purushothaman, and S. Radheyshyam, 1986. Primary production and fish yields in fish ponds under different management practices. *Aquaculture*, 58:111-122.
- Paerl, H.W., 1977. Bacterial sediment formation in lakes: Trophic implications. In: H.L. Golterman (Editor), *Interactions Between Sediments and Fresh Water*. W. Junk BV Publishers, The Hague, pp. 40-47.
- Paerl, H. W. and C.S. Tucker, 1995. Ecology of blue-green algae in aquaculture ponds. *J. World Aquacult. Soc.*, 26(2):109-131.
- Piedrahita, R.H., S.S. Nath, J. Bolte, S.D. Culberson, P. Giovannini, and D.H. Ernst, 1997. Computer applications in pond aquaculture—modeling and decision support systems. In: H.S. Egna and C.E. Boyd (Editors), *Dynamics of Pond Aquaculture*. CRC Press, Boca Raton/New York, pp. 289-323.
- Pillay, V.K. and C.E. Boyd, 1985. A simple method for calculating lime rates for fish ponds. *Aquaculture*, 46:157-162.
- Porter, K.G., 1976. Enhancement of algal growth and productivity by grazing zooplankton. *Science*, 192:1332-1334.
- Prins, H.B.A. and J.T.M. Elzenga, 1989. Bicarbonate utilization: Function and mechanism. *Aquat. Bot.*, 34:59-83.
- Qin, J., D.A. Culver, and N. Yu, 1995. Effect of organic fertilizer on heterotrophs and autotrophs: Implications for water quality management. *Aquacult. Res.*, 26:911-920.
- Ram, N.M., O. Zur, and Y. Avnimelech, 1982. Microbial changes occurring at the sediment-water interface in an intensively stocked and fed fish pond. *Aquaculture*, 27:63-72.
- Redner, B.D. and R.R. Stickney, 1979. Acclimation to ammonia by *Tilapia aurea*. *Trans. Am. Fish. Soc.*, 108:383-388.

- Riise, J.C. and N. Roos, 1997. Benthic metabolism and the effects of bioturbation in a fertilised polyculture fish pond in northeast Thailand. *Aquaculture*, 150:45-62.
- Rodina, A.G., 1963. Microbiology of detritus of lakes. *Limnol. Oceanogr.*, 8:388-393.
- Rodina, A.G., 1966. Variety and destruction of lake detritus. *Verh. Int. Ver. Limnol.*, 16(3):1513-1517.
- Ruffier, P.J., W.C. Boyle, and J. Kleinschmidt, 1981. Short-term acute bioassays to evaluate ammonia toxicity and effluent standards. *J. Water Poll. Contr. Fed.*, 53:367-377.
- Schindler, D.W., 1978. Factors regulating phytoplankton production and standing crops in the world's freshwaters. *Limnol. Oceanogr.*, 23:478-486.
- Schroeder, G.L., 1975. Night time material balance for oxygen in fish ponds receiving organic wastes. *Bamidgeh*, 17(3):65-74.
- Schroeder, G.L., G. Wohlfarth, A. Alkon, A. Halevy, and H. Krueger, 1990. The dominance of algal-based food webs in fish ponds receiving chemical fertilizers plus organic manures. *Aquaculture*, 86:21-229.
- Setaro, F.V. and J.M. Melack, 1984. Responses of phytoplankton to experimental nutrient enrichment in an Amazon floodplain lake. *Limnol. Oceanogr.*, 29(5):972-984.
- Shang, Y.C., 1981. *Aquaculture Economics: Basic Concepts and Methods of Analysis*. Westview Press, Boulder, Colorado, 153 pp.
- Shang, Y.C., 1990. *Aquaculture Economic Analysis: An Introduction*. The World Aquaculture Society, Baton Rouge, Louisiana, 211 pp.
- Shevgoor, L., C.F. Knud-Hansen, and P. Edwards, 1994. An assessment of the role of buffalo manure for pond culture of tilapia. III. Limiting factors. *Aquaculture*, 126:107-118.
- Shrestha, M.K. and C.F. Knud-Hansen, 1994. Increasing attached micro-organism biomass as a management strategy for Nile tilapia (*Oreochromis niloticus*) production. *Aquacult. Eng.*, 13:101-108.
- Shrestha, M.K. and C.K. Lin, 1996. Phosphorus fertilization strategy in fish pond based on sediment phosphorus saturation level. *Aquaculture*, 142:207-219.
- Stumm, W. and J.J. Morgan, 1970. *Aquatic Chemistry*. John Wiley and Sons, New York, 583 pp.
- Sugiyama, M. and A. Kawai, 1979. Microbiological studies on the nitrogen cycle in aquatic environments—VI. Metabolic rate of ammonium nitrogen in a goldfish culturing pond. *Bull. Jap. Soc. Sci. Fish.*, 45(6):785-789.

- Syers, J.K., R.F. Harris, and D.E. Armstrong, 1973. Phosphate chemistry in lake sediments. *J. Environ. Qual.*, 2(1):1-14.
- Szyper, J.P. and C.K. Lin, 1990. Techniques for assessment of stratification and effects of mechanical mixing in tropical fish ponds. *Aquacult. Eng.*, 9:151-165.
- Szyper, J.P., K.D. Hopkins, and C.K. Lin, 1991. Production of *Oreochromis niloticus* (L.) and ecosystem dynamics in manured ponds of three depths. *Aquacult. Fish. Manage.*, 22:385-396.
- Talling, J.F., 1976. The depletion of carbon dioxide from lake water by phytoplankton. *J. Ecology*, 64:79-121.
- Tan, Y.T., 1971. Proximate composition of freshwater fish—grass carp, *Puntius goniotus*, and tilapia. *Hydrobiologia*, 37(2):361-366.
- Teichert-Coddington, D.R. and B.W. Green, 1993. Tilapia yield improvement through maintenance of minimal oxygen concentrations in experimental grow-out ponds in Honduras. *Aquaculture*, 118:63-71.
- Teichert-Coddington, D.R., L.L. Behrends, and R.O. Smitherman, 1990. Effects of manuring regime and stocking rate on primary production and yield of tilapia using liquid swine manure. *Aquaculture*, 88:61-68.
- Teichert-Coddington, D.R., M. Peralta, and R.P. Phelps, 1989. Seepage reduction in tropical fish ponds using chicken manure. *Aquacult. Eng.*, 8:147-154.
- Trussell, R.P., 1972. The percent un-ionized ammonia in aqueous ammonia solutions at different pH levels and temperatures. *J. Fish. Res. Bd. Can.*, 29:1505-1507.
- Van Someren, V.D. and P.J. Whitehead, 1959. The culture of *Tilapia nigra* (Gunther) in ponds. II. The influence of water depth and turbidity on the growth of male *T. nigra*. *East African Agricult. J.*, 25(1/2):66-72.
- Vlek, P.L.G. and T.T. Craswell, 1979. Effect of nitrogen source and management of ammonia volatilization losses from flooded rice-soil systems. *Soil Sci. Soc. Am. J.*, 43:352-358.
- Vollenweider, R.A., 1968. Scientific Fundamentals of the Eutrophication of Lakes and Flowing Waters, with Particular Reference to Nitrogen and Phosphorus as Factors in Eutrophication. Tech. Report DAS/CSI/68.27. OECD, Paris, 192 pp.
- Watts, J.C.D., 1969. Phosphate retention in acid-sulphate pond muds from the Malacca area. *Malaysian Agricult. J.*, 47(2):187-202.

- Welcomme, R.L., 1972. An evaluation of the acadja method of fishing as practised in the coastal lagoons of Dahomey (West Africa). *J. Fish. Biol.*, 4:39-55.
- Wetzel, R.G., 1983. *Limnology*, 2nd ed. Saunders College Publishing, Philadelphia, Pennsylvania, 762 pp.
- Wetzel, R.G. and G.E. Likens, 1979. *Limnological Analyses*. W.B. Saunders, Co., Philadelphia, Pennsylvania, 357 pp.
- Wetzel, R.G. and B.A. Manny, 1972. Decomposition of dissolved organic carbon and nitrogen compounds from leaves in an experimental hardwater stream. *Limnol. Oceanogr.*, 17:927-931.
- Wohlfarth, G.W. and G.L. Schroeder, 1979. Use of manure in fish farming—a review. *Agricult. Wastes*, 1:279-299.
- Yi, Y., C.K. Lin, and J. Diana, 1996. Influence of Nile tilapia (*Oreochromis niloticus*) stocking density in cages on their growth and yield in cages and in ponds containing cages. *Aquaculture*, 146:205-215.
- Yusoff, F.M. and C.D. McNabb, 1989. Effects of nutrient availability on primary productivity and fish production in fertilized tropical ponds. *Aquaculture*, 78:303-319.
- Zhu, Y., Y. Yang, J. Wan, D. Hua, and J.A. Mathias, 1990. The effect of manure application rate and frequency upon fish yield in integrated fish farm ponds. *Aquaculture*, 91:233-251.