

REFERENCES

- Abbass H. H. (1998):** Toxicological effect of copper and lead on some physiological aspects in two fish species Tilapia (*Oreochromis aureus*), and African catfish (*Clarias gariepinus*). Ph.D. Thesis, Animal Dept., Fac. of Sci., Cairo Univ., Egy., 260pp.
- Abdel –Hameed, E. A. (2002):** Microbiological and chemical studies on Abbassa fish farm. M. Sc. Thesis, Agricultural Microbiology, Fac. of Agric., Zag. Univ, 139pp.
- Abdel -Mageed, S. A. (1997):** Limnological studies of heavy organic fertilizer effect on fish ecosystem. M. Sc. Thesis. Animal Production Dept. Fac. of Agric. Cairo Univ. 120 pp.
- Abdel-Tawwab, M.; Abdelghany, A.E.; El-Ayouty, Y.M. and El-Essawy, A.A. (2002a):** Effect of different doses of inorganic fertilizer on water quality, primary productivity and production of Nile tilapia (*Oreochromis niloticus*) in earthen ponds. Egy. J. Agric. Res., 80(4): 1891-1907.
- Abdel-Tawwab, M.; Abdelghany, A.E.; El-Ayouty, Y.M. and El-Essawy, A.A. (2002b):** Effect of inorganic fertilizers with different n/p/k ratios on water quality, primary productivity and production of Nile tilapia (*Oreochromis niloticus*) in earthen ponds. Egy. J. Agric. Res., 80(4): 1909-1923.
- Abdel-Tawwab, M.; Abdelghany, A.E. and Ahmad, M. H. (2007):** Effect of diet supplementation on water quality, phytoplankton community structure, and the growth of Nile tilapia, *Oreochromis niloticus* L., common carp, *Cyprinus carpio* L., and silver carp, *Hypophthalmichthys molitrix* V. polycultured in fertilized earthen ponds. J. of App. Aquacu., 19(1): 1-24.
- Abel, P.D. (1998):** Water Pollution Biology. 2nd ed. Printed in Great Britain by T.J. international Ltd. London.
- Abou-Zahra, L.A. (1967):** Ph.D. Thesis. Fac. of Sci. Cairo Univ.
- Abu-Rezeq, T. and James, C.M. (1990):** Microalgae and rotifers mass production

- in marine cultures. The Quarterly J. of the Arab Federation of Fish Producers. 12 :149-169.
- Ackefors, H. and Enell, M. (1994):** The release of nutrients and organic matter from aquaculture systems in Nordic countries. J. of App. Ichthy., 10 (4): 225-241.
- Adelman, I.R. and Smith, L.L. (1970):** Effect of hydrogen sulfide on northern pike eggs and sac fry. Trans. Amer. Fish. Soc., 99: 501-509.
- Ahmad, M.H.; Abdelghany, A.E. and Abdel-Tawwab, M. (2001):** Phytoplankton dynamics in fertilized earthen ponds received supplemental feed at different timing for different periods. Egy. J. of Botany, 41(1): 79-98.
- Ahmad, M.H.; Abdel-Tawwab, M. and Khattab, Y.A.E. (2007):** Growth response of silver carp, *Hypophthalmichthys molitrix* Val. to feed supplementation in earthen fish ponds. J. of App. Aquacu., 19(1): 25 - 38.
- Ahmed, M. H. (2002):** Field and experimental studies on the effect of some fertilizers and pollutants on zooplankton community in Abbassa fish farm.. M.Sc. thesis. Zoology Department, Fac. of Sci., Tanta univ.,156pp.
- Alabaster, J. S. and Liold, R. (1982):** Water quality criteria for freshwater fish. 2nd ed. Butterworth Scientific, London, 21pp.
- Allan, D. J. (1976):** Live history patterns in zooplankton. Am. Na. 110: 165-180.
- Almazan, G. and Boyd, C. E. (1978):** An evaluation of Secchi-disc visibility for estimating plankton density in fish ponds. Hydrobiol., 65: 601-608.
- American National Academy of Science (1974):** Water quality criteria. U. S. government printing office, Washington, D. C.
- Andrews, J.W.; Murais, T. and Gibbons, G. (1973):** The influence of dissolved oxygen on the growth of channel catfish. Amer. Fish. Soc., 102:835-38.
- AOAC (1990):** Association of Official Analytical Chemists. Official Methods of Analysis of the 15th ed. "Atomic Absorption Method for Fish". Washington, D.C.
- APHA (American Public Health Assoc.), (1985):** Standard methods for the

examination of water and wastewater, 16th edition American Public Health Association, Washington, D. C.

Arillo, A.; Gaino, E.; Margiocco, C.; ensi, P. and Schenone, G. (1984):

Biochemical and ultrastructurl effects of nitrite in rainbow trout: liver hyboxia as the root of the acute toxicity mechanism. *Env. Res.* 34: 135-154.

Ariyadej, C.; Tansakul, R.; Tansakul, P. and Angsupanich, S. (2004):

Phytoplankton diversity and its relationships to physico-chemical environment in the Banglang Reservoir, Yala Province songklanakarin J. Sci. Technol., 26(5) : 595-607

Arrignon, J. (1999): Management of freshwater fisheries. Published by Science Publishers, Inc.,USA.

Atwood, H.L.; Young S. P.; Tomasso,J. R. and Smith, T. I.J. (2004):

Information on selected water quality characteristics for the production of black sea bass, *Centropristis striata juveniles*. *J. of App. Aquacu.*, 15(3/4): 183-190.

Baradash, J.E.; Ryther, J.H. and McLarny, W.O. (1972): Aquaculture the farming and husbandry of freshwater and marine organisms. John Willy, New York, USA.

Barg, U.C.; Bartley,D.M.; Tacon A.G.J. and Welcomme R.L. (1997):

Aquaculture and its environment: a case for collaboration: 462-70. In D.A. Hancock, D.C. Smith, A.Grant and J.P. Beumer (eds.). *Developing and Sustaining World Fisheries Resources. The State of Science and Management. Proceedings of the 2nd World Fisheries Congress, Brisbane, Australia, 28 July - 2 August 1996.* Collingwood (Australia), CSIRO Publishing. 797p.

Bath, R. N. and Eddy, F. B. (1980): Transport of nitrite across fish gills. *J. Exp. Zool.* 214: 119-121.

Batran, .A.M. (2002): Effect of feeding rate on performance of Nile tilapia and common carp reared in concrete ponds. M.Sc. Thesis Agric. Fac. Al-Azhar Univ. 130 pp.

- Bischoff, H.W. and Bold, H.C. (1963):** Phycological studies for some soil algae from Enchanted rock and related algal species. Univ. Texas. 6318: 32-36.
- Booth, W.A. and Beardall, J. (1991):** Effect of salinity on inorganic carbon utilization and carbonic anhydrase activity in the halotolerant alga *Dunaliella salina* (Chlorophyta). Physiologia 30:220-225.
- Borhan, M. H. (1976):** Zooplankton of the River Nile (In: some studies on River Nile ecosystem) lake Nasser and River Nile Project Academy of Scientific Research and Technology, Egypt. 34-45.
- Bouldin, D. R.; Johnson, R. L.; Burda, C. and Kao, C. (1974):** Losses of inorganic nitrogen from aquatic systems. J. Environ. Qual., 3: 107-114.
- Bowen, E.E. and Gratzek, J. B. (1980):** Fish farming Handbook. 1st ed., Avipublishing Comp. Inc., USA.
- Boyd, C. E. (1974):** Water quality in catfish ponds. J. Mar. Sci., Ala., 2: 19-30.
- Boyd, C. E. (1981):** Water quality in warmwater fishponds. Auburn Univ. Craftmaster Printers. Inc. Opelika, Ala, USA.
- Boyd, C. E. (1982):** Water quality management for pond fish culture Elsevier Sci. Publ. Co., Amsterdam. 318pp. Trans. Amer. Fish. Soc. 111 63S-644.
- Boyd, C. E. (1984):** Water quality management in warm water fish ponds, Auburn Univ., Agr. Exp. Sta. Auburn, Alabama.
- Boyd, C. E. (1990):** Water Quality in ponds for aquaculture. Ala. Agric. Exp. St., Auburn Univ., Ala., USA.
- Boyd, C. E. (1991):** Empirical modeling of phytoplankton growth and oxygen production in aquaculture ponds: 363-395. In: D.E. Brune and J.R. Tomasso, eds., Aquaculture and Water Quality Advances in World Aqua. (3) World Aqua. Soc., Baton Rouge, Louisiana.
- Boyd, C. E. and Lichtkopfer, F. (1979):** Water quality management in pond fish culture. Auburn Univ. Alabama, Research and Development Series no. 22, 30pp.
- Boyd, C. E.; Parther, E. E. and Parks, R. W. (1975):** Sudden mortality of a

- massive phytoplankton bloom. *Weed Sci.*, 23: 61-67.
- Boyd, C.E. (1979):** Water quality in warm water fishponds. Auburn university Agri. Exp. St. Au, Ala, pp 359.
- Boyd, C.E. (1998):** Water quality for pond aquaculture. Research and development series no. 43. pp. 37. International center for aquaculture and aquatic environments. Ala. Agric. Exp. St. Au Univ.
- Boyd, C.E. and Gautier, D. (2002):** Effluent composition and water quality standards. *Advocate*, 3: 61-66.
- Boyd, C.E., Ahmad, T. and La-fa. A. (1988):** Evaluation of plastic pipe, paddle wheel aerators, *Aquacultural Eng.*, 7, 63.
- Boyd, C.E., and C.S. Tucker (1998):** Pond aquaculture water quality management Kluwer, Boston.
- Buford, M. (1997):** Phytoplankton dynamics in shrimp ponds. *Aquacu. Res.* 28:351-360.
- Byers, F.M. (1980):** Systems of beef cattle and management to regulate composition of growth to produce beef carcasses of desired composition. *Research Circular*, 258: 1-17.
- Calabrese, A. (1969):** Effects of acids and alkalies on survival of bluegills and large mouth bass. *U. S. Fish. Wildl. Ser., Tech-paper* 42. 10 pp.
- Cerezo, J. and García, B. (2004):** The effects of oxygen levels on oxygen consumption, survival and ventilatory frequency of sharpsnout sea bream (*Diplodus puntazzo* Gmelin, 1789) at different conditions of temperature and fish weight. *J. of App. Ichthy.*, 20: 488–492.
- Chen, C.S. and Plant, A.L. (1999):** Salt induced protein synthesis in tomato roots. *J. Exp. Bot.* 50:677-687.
- Chervinski, J. and Lahav, M. (1976):** The effect of exposure to low temperature on fingerlings of local tilapia aurea and imported tilapia vulcani and tilapia nilotica in Isr. *Bam.*, 28: 25-29.
- Colt, J. E. and Armstrong, D. A. (1981):** Nitrogen toxicity to crustacean, fish

- molluscs. In: L. J. Alien and E. C. Kinney (editors), Proceedings of Bio engineering Symposium for Fish Culture Section, Am. Fish Soc., Bethesda, MD, USA: 34-47.
- Cook, H. L. and Murphy, M. A. (1969):** The culture of larval penaeid shrimp. Trans. Amer. Fish. Soc. 4: 751-754.
- Cowey, C. (1976):** Use of synthetic diets and bio-chemical criteria in assessment of nutrients requirements of fish. J.Fish Res. Bd. Can., 33: 1040-1045.
- Das, P.C.; Ayyappan, S. and Jena, J. (2005):** Comparative changes in water quality and role of pond soil after application of different levels of organic and inorganic inputs. Aquacu. Res., 36: 785 – 798.
- Davis, E.A., Dedrick, J., French, C.S., Milner, H.W., Smith, J.H.C. and Spehr, H.A. (1953):** Laboratory experiments on Chlorella culture at the Carnegie Institute of Washington. Department of Plant Biology. In: Burlew (Eds.). Algal culture from Laboratory to Pilot Plant. Carnegie Institute of Washington. Washington, D.C.: 105-153.
- Dawah, A.M. (1998):** Mass cultivation of *Chlorella* sp. and using as feed supplement for the cultivation silver carp. Ph.D Thesis, Zag. Univ., Fac. of Sci., Benha branch.
- Dawah, A.M.; El-Naggar, G. and Meslhy, S. (2006):** Biological Control of the Cyanobacterium *Microcystis aeruginosa* using *Chlorella* and *Scenedesmus* in the Nile Tilapia Cultures. 1st Inter. Envir. Form. Fac. Sci., Tanta Univ., April 1-3.
- Diana, J.S.; Lin, C.K. and Jaiyen, K. (1994):** Supplemental feeding of tilapia in fertilized ponds. J. world Aquacu. Soc. 25 (4): 497 - 506.
- Diana, J.S.; Lin, C.K. and Schneebrger, P.J. (1991):** Relationships among nutrient inputs water nutrient concentrations primary production and yield of *Oreochromis niloticus* in ponds. Aquacu., 92: 323-341.
- Diana, J.S.; Lin, C.K; Bhukaswan, T.; Sirsuwanatach V. and Buurma, B.J. (1991):** Cycle III of the Global experiment. In Egna, H.S and Bowman, J.

(Eds) PD / A CRSP Data Report, Oreg. St. Univ., Corvallis, Oregon.

Drenner, R.W.; Smith, J.D.; Mummert, J.R. and Lancaster, H.F. (1990):

Responses of an eutrophic pond community to separate and combined effects of N:P supply and planktivorous fish: a mesocosm experiment. *Hydrobiologia*, 208: 161-167

Dugan, C. D.; Hagwood, R. W. and Frakes, T. A. (1975): Development of spawning and mass larval rearing techniques of brackish water shrimps of the genus *Macrobrachium* (*Decapoda, Palemonidae*). *Florida Mar. Res. Publ.*, 12 : 1- 23.

Eddy, F. B. and Williams, E. M. (1987): Nitrite and freshwater fish. *Chem. and Ecol.* 3: 1-38.

Eddy, F. B.; Kunzlick, P. A. and Bath, R. N. (1983): Uptake and loss of nitrite from the blood of rainbow trout (*Salmo gairdneri*), Richardson and Atlantic salmon (*Salmo salar* L.) in fresh and dilute sea water. *J. of Fish Biol.* 23: 105-116.

Edwards, P. (1988): Tilapia raised on septage as high protein animal feed. In: R.S. Pullin, T. Bhukaswan, K. Tonguthai, and J.L. Maclean (eds.), 2nd International Symposium on Tilapia in Aquaculture. ICLARM Conf. Proc. 15, Dept. of Fisheries, Bangkok, Thailand and ICLARM, Manila, Philippines: 7-13.

Egna, H.S. and Boyd, C.E. (1997): Dynamics of pond aquaculture. CRC Press, Boca Raton, Florida, USA.

El- Gammal, M.A. (2000): Microbiological studies on soil, water and fish in fish ponds. M.Sc. Thesis, Fac. Sci., Monofiya Univ.

El-Ayouty, Y. M.; El-Essawy, A.A.; Abdelghany, A.E. and Abdel-Tawwab, M. (1994): Effect of different N/P/K ratios on physico-chemical changes and phytoplankton standing crop in fish pond. *Bull. Fac. Sci. Zag. Univ.*, 16(1): 216-239.

El-Bassat, R. H. (2002): Ecological studies on zooplankton communities with

- particular reference to protozoa at Damiatta Nile branch. Ph.D. Thesis, Fac. of Girls, Ain Shams Univ., 116pp.
- El-Ebiary, E. H. (1998):** The use of organic manure in polyculture system for tilapia, mullet and carp. Egypt. J. Aquat. Biol. and Fish. 2(3): 133-147.
- El-Fouly, M.M.; Shaheen, A.B.; El-Ayouty, E.Y. and Saleh, A.M. (1974):** Seasonal variation of chemical component and amino acid content of *Chlorella* grown in mass cultures. Al-Azhar Agric. Res. Bull., (2) Al-Azhar Univ. Press, Cairo.
- El-Naggar, M.E. (1977):** Studies on the Algae in Dakahlia Area. M.Sc. Thesis, Mansoura Univ., Egypt.
- El-Sayed, A. F. M.; El-Gobashy, A. and Al-Amoudi, M. (1996):** Effects of pond depth and water temperature on the growth, mortality and body composition of Nile tilapia, *Oreochromis niloticus* (L.). Aquacu. Res., 27: 681-687.
- El-shafey, A.A.M. (1998):** Effect of ammonia on respiratory function of blood of Tilapia zilli, Comparative Biochem. & Physiol., 121 A: 305 - 313.
- EL-Sheekh, M.M. and Omar, H.H. (2002):** Effect of high salt stress on growth and fatty acids content of the unicellular green alga *Chlorella vulgaris* . Az. J. Microbiol. 55:181-191.
- El-Wakeel, S. K. and Wahby, S. D. (1970):** Hydrography and chemistry of lake Manzalla, Egypt. Arch. Hydrobiol. Vol. 67: 173-200.
- Ernst, D. H., Ellingson, L. J., Olla, B. L., Wicklund, R. L., Watanbe, W. O., and Grover, J. J. (1989):** Production of Florida red tilapia in seawater pools: nursery rearing with chicken manure and growth out with prepared feed. Aquacu., 80: 247-260.
- European Inland Fisheries Advisory Commission (1970):** Water quality criteria for European freshwater fish Reports on ammonia and inland fisheries. EIFAC Technical Paper no. 11, 12p; Water Res. 7:1011.
- European Inland Fisheries Advisory Commission (1973):** Water quality criteria for European freshwater fish Reports on ammonia and inland fisheries. Water

Res., 7: 1,011-1,022.

Fahmy, M. E. A. (1964): Hygienic condition of water for animal consumption in Egyptian villages. M. Sc. Thesis. Fac. of Vet. Med. Cairo Univ.

FAO (1994): The marketing, distribution and trade in fish in the Arab Republic of Egypt. FAO Regional Office for the Near East (RNEA). Cairo, Egypt. 46 p.

Feoktistova, O.I. (1965): Fiziol Rat 12(5): 888-893 of Biol. Abs. 48 (21): 632.

Flis, J. (1968): Anatomicohistopathological changes induced in carp (*Cyprinus carpio* L.) by ammonia water. Acta Hydrobiol. Part I. Effects of toxic concentrations, 10: 205. Part II. Effects of subtoxic concentrations, 10: 225.

Fogg, G.E. (1975): Algal cultures and phytoplankton ecology. University of Wisconsin Press, pp. 37-51.

Foss, A.; Siikavuopio, S.I.; Saether, B. S. and Evensen, T.H. (2004): Effect of chronic ammonia exposure on growth in juvenile Atlantic cod. Aquacu., 237: 179-189.

Fox, M. G.; Keast, J. A. and Swainson, R. J. (1989): The effect of fertilization regime on juvenile walleye growth and prey utilization in rearing ponds. Env. Biol. of Fishes 26: 129-142.

Fritsch, F.E. (1979): The structure and reproduction of the Algae. Vikas Publ. House, New Delhi. 791 pp.

Fromm, P. O. (1970): Toxic action of water soluble pollutants on freshwater fish. Environmental Protection Agency Water Pollution Control Research Series no. 18050DST. U. S. Government Printing Office, Washington, D.C.

Garg, S. K. and Bhatnagar, A. (1996): Effect of varying doses of organic and inorganic fertilizers on plankton production and fish biomass in brackish water fish ponds. Aquacu. Res., 27: 157-166.

Geiger, J. G (1983): A review of pond zooplankton production and fertilization for the culture of larval and fingerling striped bass. Aquacu., 35:353-369.

Gilbert, J.J. (1988): Suppression of rotifer populations by *Daphnia*: A review of the evidence, the mechanisms, and the effects on 300 plankton community

- structure. *Limnol. Oceanogr.*, 33 (6, part 1): 1288 - 1303.
- Glamazda, V. V. and Katretskiy, Y. A. (1980):** Trophic relationships between zooplankton and bacterioplankton in Tsimlyansk reservoir. *Hydrobiological J.* 22(5): 19-21.
- Gliwicz, Z.M. (1969):** Studies on the feeding of pelagic zooplankton in lakes with varying trophy. *Ekol. Pol.* 17: 663-708.
- Gliwicz, Z.M., (1977):** Food size selection and seasonal succession of filter feeding zooplankton in a trophic lake. *Ekol. Pol.*, 25: 179-225.
- Goldman, J.C. (1979):** Outdoor algal mass culture-II, photosynthetic yield limitations. *Water Res.* 13: 119-136.
- Goldman, J.C. and Mann, R. (1980):** Temperature-influenced variations in speciation and chemical composition of marine phytoplankton in outdoor mass cultures. *J. Exp. Mar. Biol. Ecol.* 46: 29-39.
- Goldman, C.R. and Horne, A. J. (1983):** *Limnology* McGraw-Hill Book Company, New York, 464 pp.
- Gophen, M.; Cavari, B. Z. and Berman, T. (1974):** Zooplankton feeding on differentially labelled algae and bacteria. *Nature*, 247: 393-394.
- Green, J. (1993):** Zooplankton associations in East African lakes spanning a wide salinity range. *Hydrobiologia* 267: 249-256.
- Guillard, R.R.L. (1962):** Salt and osmotic balance. In: Lewin (ed) *Physiology and Biochemistry of Algae*: 529-540. Academic Press, New York.
- Guillard, R.R.L. (1973):** Methods for microflagellates and nanoplankton. In: J.R. Stein (Ed.). *Handbook of Phycological Methods. Culture methods and growth measurements*. Cambridge University Press, London: 69-85.
- HACH. (1982):** Hach Chemical Co., Methods Manual, 10th ed., Hach Chemical Company, Ames, IA, Loveland, Colorado, USA
- Hanson, L. A. and Grizzle, J. M. (1985):** Nitrite-induced predisposition of channel catfish to bacterial diseases. *Prog. Fish-cult.*, 47: 98-101.

- Hansson, L. A.; Johansson, L. and Persson, L. (1987):** Effects of fish grazing on nutrient release and succession of primary producers. *Limnol., Oceanogr.*, 32: 723-729
- Harris, R. R. and Coley, S. (1991):** The effect of nitrite on chloride regulation in the crayfish, *Pacifastacus leniusculus* Dana (Crustacea: Decapoda). *J. Comp. Physiol. B*, 161: 199-206.
- Hassan A.A. (1997):** Effect of poultry manure as organic fertilizer on productivity of silver carp under Egyptian conditions. M.Sc. Thesis., Al-Azhar University
- Haywood, G.P. (1983):** Ammonia toxicity in teleost fishes: A review. *Canadian Tech. Rep. of Fisher. and Aqua. Sci.*, no. 1177.
- Helal, H. A. (1981):** Studies on the zooplankton of Damietta branch of River Nile north El-Mansoria. M. Sc. Thesis. Fac. Sci. AlMansura Univ. 231pp.
- Hensen, V. (1887):** Uber die Bestimmung des planktons oder des in mere treibenden materials an Pflanzen und tieren. Bericht des deutschen wissenschaftlichen Kommission fur meereforschung, 5, 1-109.
- Herbert, D. W. M. and Shurben, D. S. (1965):** The susceptibility of salmonid fish to poisons under estuarine conditions II. Ammonium chloride. *Int. J. Air Wat. Pollut.* 9: 89.
- Herzing, A. and Winkler, A. (1986):** The influence of temperature on the embryonic development of three Cyprinoid fishes, *Abramis brama*, *Chalcalburnus chalcoides* mento and *Vimba vimba*. *J. of Fish Biol.*, 28: 171-181.
- Hickling, C.F. (1962):** Ed. Fish culture. 1st pub. in memlxii by Faber and Faber Limited, 24 Russell Square London W.C.I., 295pp.
- Hietala, J.; Vakkilainen, K. and Kairesalo, T. (2004):** Community resistance and change to nutrient enrichment and fish manipulation in a vegetated lake littoral. *Freshwater Biol.*, 49: 1525–1537
- Hopkins, K.; Lopez, E. and Szyper, J.P. (1993):** Intensive fertilization of Tilapia ponds in the Philippines: 16 – 20. In: Egna H., J. Bowman, B. Goetze and N.

Weidner (Eds.) 11th Ann. Tech. Rep., PD / A CRSP, Oreg. St. Univ., Corvallis, Oregon.

Hovanec, T.A. and Delong, E.F. (1996): Comparative analysis of nitrifying bacteria associated with freshwater and marine aquaria. Appl. Environ. Microbiol., 62: 2888-2893.

Huet, M. (1970): Text book of fish culture-breeding and cultivation of fish. London, fishing News (Books) Ltd. 436pp.

Hutchinson, G. E. (1967): A treatise on limnology (2). Introduction to lake biology and the limnoplankton. John Wiley and Sons, Inc., New York, 1115 pp.

Ishak, M. M.; Awad, E. E.; Borhan, M. A.; Shehata, M. B. and Dawood, W. L. (1979): Some studies on the River Nile. Ecosystem Inst. Oceang. and Fish. Acad. Sci. Tech. Egypt, 80pp.

Isirimah, N. O.; Keeney, D. R. and Dettmann, E. H. (1976): Nitrogen cycling in Lake Wingra. J. Environ. Qual., 5: 182-188.

Jacon, G. J. (1990): Standard methods for the nutrition and feeding of farmed fish and shrimp (3): Feeding Methods. Argent Lab. press, Admond, Washington, USA.

James, M. C. and Thompson, P. K. M. (1980): Production of Copepods in outdoor culture tank. MBAI Symp. on Coastal Aquacu., Cochin, India. Bastra, no.198.

Jha; Sarkar, P., K. and Barat, S. (2004): Effect of different application rates of cowdung and poultry excreta on water quality and growth of ornamental carp, *Cyprinus carpio* var. koi, in concrete tanks. Turkish Journal of Fisheries and Aquatic Sci. 4: 17-22.

Job, S. V. (1969): The respiratory metabolism of tilapia mossambica. 1. The effect of size, temperature and salinity. Mar Biol. (Berl.) 2:121-126.

Katz, M. and Pierro, R. A. (1967): Estimates of the acute toxicity of ammonia-urea plant wastes to Coho salmon (*Oncorhynchus kisutch*). Final report,

Fisher. Res. Inst., Univ. of Washington, Seattle.

- Kepner, R. L.; Jr. and Pratt, .J. R. (1994):** Use of fluorochromes for direct enumeration of total bacteria in environmental samples: past and present. *Am. Soc. Microbiol.* 58(4): 603-615.
- Khattab, Y. A. El-S. (1996):** Some Studies on Fish Growth. Ph.D. Thesis. Animal Prod. Dept. Fac. of Agric. Zag. Univ.
- Kilham, S. S. and Kilham, P. (1984):** The importance of resource supply rates in determining phytoplankton community composition. In: D.G. Meyers and J.R. Strickler (eds.), *Tropical Dynamics of Aquatic Ecosystems*. AAAS Symposium: 7-27.
- King, D. L. (1970):** The role of carbon in eutrophication. *J. of Water Pollution Control Fedration.* 42: 2035-2051.
- Knud-Hansen, C.F. (1998):** Pond fertilization: Ecological approach and practical application. PD / A CRSP, Oreg. St. Univ., Corvallis, Oregon, 125 pp.
- Knud-Hansen, C. F. and Batterson, T. R. (1994):** Effect of fertilization on the production of Nile tilapia, *Oreochromis niloticus* (L.). *Aquacu.*, 123: 271-280.
- Knud-Hansen, C. F.; Batterson, T. R. and McNabb, C. D. (1993):** The role of chicken manure in the production of Nile tilapia, *Oreochromis niloticus* (L.). *Aquacu. and Fisher. Manag.*, 24: 483-493.
- Knud-Hansen, C.F.; Batterson,T.R.; Guttman,H.; Lin,C.K. and Edwards, P. (1993):** Field testing least intensive aquaculture techniques on smalls-cal farms in Thailand p. 21. In Egna H., J. Bowman, B. Goetze, and N. Weidner (Eds) 11th Ann. Tech. Report, PD / A CRSP, Oreg. St. Univ. Snell Hall 400.
- Knud-Hansen, C. F.; Batterson, T. R.; McNabb, C. D.; Harahat, I. S.; Sumantadinata, K. and Eidman, H. M. (1991):** Nitrogen input, primary productivity and fish yield in fertilized freshwater ponds in Indonesia. *Aquacu.*, 94: 49-63.
- Komarek, J. and Fott, B. (1983):** Das phytoplankton des Susswassers 7 teil, I. Halfte, Pub. E. Schweizerbartsche verlagbuchhandlung (Nagele U.

Obermiller).

- Koussa, A.A. (2000):** Effect of industrial and organic pollution on potential productivity and fish stock of Lake Mariut, Northern Egypt with a predictive study of that effect on the Lake. Ph.D. Thesis. Fac. Sci. Ain Shams Univ.
- Lall, S. P. (1991):** Digestibility, metabolism and excretion of dietary phosphorous in fish. Nutritional strategies and aquaculture waste (ed. By C. B. Cowey and C. Y. Cho): 21-36, Univ. of Guelph, Guelph, ON.
- Landau, M. (1992):** Introduction to Aquaculture. John Wiley and Sons, Inc., New York, 440 pp.
- Lartigue, J.; Neill, A.; Hayden, B.L.; Pulfer, J.; Cebrian, J. (2003):** The impact of salinity fluctuations on net oxygen production and inorganic nitrogen uptake by *Ulva lactuca* (Chlorophyceae). Aquat. Bot. 75:339-350.
- Lathrop, R.C. (1988):** Evaluation of whole-lake nitrogen fertilization for controlling blue-green algal blooms in a hypereutrophic lake. Can. J. Fish. Aquat. Sci., 45: 2061-2075.
- Lawson, T.B. (1995):** Fundamentals of Aquaculture Engineering. Chapman and Halt, New York.
- Lazzaro, X. (1987):** A review of planktivorous fishes: their evolution, feeding behaviours, selectivities and impacts. Hydrobiologia, 146: 97-167.
- Lee, G.F. (1970):** Eutrophication. University of Wisconsin, Water Resources Center, Madison, Wisconsin. Occasional Paper no. 2, P. 39.
- Leivestod, H. (1982):** Physiological effects of acid stress on fish. In: Acid rain and fishery impacts on N. E. North America. N. E. Div. Am. Fish. Soc.:157-164.
- Lewis, W. M. and Morris, D. P. (1986):** Toxicity of nitrite to fish. Trans. Am. Fish. Soc., 115: 183-195.
- Lloyd, R. and Orr, L. D. (1969):** The diuretic response by rainbow trout to sublethal concentrations of ammonia. Water Res. 3: 335.
- Liti, D. M.; Mac-Were, O. E. and Veverica, K. L. (2001):** Growth performance and economic benefits of *Oreochromis niloticus* / *Clarias gariepinus* poly-

- culture in fertilized tropical ponds. Aquacu., Lake Buena Vista, FL, USA.
- Lorenzen, C. J.; Welschmeyer, N. A.; Copping, A. E. and Vernet, M. (1983):** Sinking rate of organic particles. Limnol. Oceanogr., 28: 766-769.
- Lovell, T. R., Prather, E. E., Dick; J. T., and Chhorn, L. (1973):** Effect of addition of fish meal to all- plant feeds on the dietary protein needs of channel catfish in ponds. Dep. of Fisher. and Alli. Aquacu. Auburn. Univ. Agriculture, Exper. St., Au. Ala.
- Mairs, D. F. (1966):** A total alkalinity atlas for Main Lake Waters. Limn. Oceanogr., 11: 68-72.
- Makarewicz, J. C. and Likens, G. E. (1979):** Structure and function of the zooplankton community of Mirror lake, New-Hampshire, Ecol. Monogr., 49(1): 109-127.
- Malca, R. P. (1976):** Poly-culture systems with channel catfish as the principal species. Ph. D. Thi., Auburn Univ., Auburn, Ala. 202pp.
- McCauley, E. and Downing, J.A. (1985):** The prediction of cladoceran grazing rate spectra. Limnol. Oceanogr., 30:202-211.
- Meade, J. W. (1985):** Allowable ammonia for fish culture. Prog. Fish-Culturist, 47: 135-145.
- Miligy, M.; Ghoniem, N. and El-Bahey, G. (1973):** A rapid presumptive test for coliform detection in polluted water. J. of Egyptian Vet. Med. Association, vol. XXXIII (3 & 4): 225.
- Moisander, P.H.; McClinton, E.; Paer, H.W. (2002):** Salinity effects on growth, photosynthetic parameters, and nitrogenase activity in estuarine planktonic cyanobacteria. Microb. Ecol. 43:432-442.
- Morimura, Y. (1959):** Synchronous culture of *Chlorella*. I. Kinetic analysis of the life cycle of *Chlorella ellipsoidea* as affected by changes of temperature and light intensity. Plant and Cell Physiology, 1: 49-62.
- Morrissy, N. M. (1976):** Aquaculture of Marron, *Cherax tenuimanus* (smith). Part 1. Site selection and the potential of Marron for aquacu. Fish. Res. Bull.

Western Australia, 17: 1-27.

Murkin, H. R. (1989): The basis for food chain in prairie wetland. P 316-338. In: A.G. van der Valk (ed.), Northern prairie wetlands. Iowa St. Univ. Press, Ames, Iowa, USA.

Mutlak, S. M.; Hamid, Y. A.; Nour, M. A.; Bakal, N. and El-Gazzaly, M. (1980): Sewage farming in Iraq: A potential hazard for pollution. J. of Environ. Quality, 9(4): 677-680.

Nandlal, S. and Pickering, T. (2004): Tilapia fish farming in Pacific Island countries (1). Tilapia hatchery operation. Noumea, New Caledonia: Secretariat of the Pacific Community.

Northcote, T. G. (1988): Fish in the structure and function of freshwater ecosystems: a "top-down" view. Can. J. Fish. Aquat. Sci. 45: 361-379.

Pascher, A. (1915): Bd. S. Chlorophyceae - Gustav Fisher. Verlag, Jena.

Pennak, R.W. (1953): Freshwater invertebrates of the United States. The Ronald Press Co., New York.

Phillips, M.J. and D.J. Macintosh. (1997): Aquaculture and the environment: Challenges and opportunities, p.159-170. In K.P.P. Nambiar and T. Singh (eds.) Sustainable Aquaculture. Proceedings of infofish-aquatech Internati.Conf. on Aquacu. Kuala Lumpur, Malaysia, 25-27 September 1996. Kuala Lumpur, Infofish. 248 p.

Pillay, T.V.R. (1992): Aquaculture and the Environment. Oxford, Fishing News Books, Blackwell, 189 p.

Piper, R. G.; McElwain, I. B.; Orme, L. E.; McCraren, J. B.; Fowler, L. G. and Leonard, J. R. (1982): Fish hatchery management. US Dept. Interior, Fish and Wildlife Service, Washington.

Pirson, A., Lorenzen, H. and Koepper, A. (1959): A sensitive stage in synchronized cultures of Chlorella. Plant Physiology, 34, 353-5.

Pourrioto, R.; Rougier, C. and Miqueliz, H. (1997): Origin and development of river zooplankton. Hidrobiologia 345: 143-148.

- Qin, J., Madon, S. P., and Culver, D. A. (1995):** Effect of larval walleye (*Stizostedion vitreum*) and fertilization on plankton community: implications for larval fish culture. *Aquacu.*, 130: 51-65.
- Qin, J. and Culver, D. A. (1992):** The survival and growth of larval walleyes, (*Stizostedion vitreum*), and trophic dynamic in fertilized ponds. *Aquacu.*, 108: 257-276.
- Rabeh, S.A. (2001):** Monitoring of Microbial Pollution in EL-Salam Canal, Egypt. *J.Egy. Acad. Soc. Environ. Develop.*, 2(1): 117-127.
- Reichenbach-Klinke, H. H. (1967):** Untersuchungen über die einwirkung des ammoniak-gehalts auf den fischorganismus. *Arch. Fischereiwiss.* 17: 122.
- Reynolds, C.S. (1984):** The Ecology of Freshwater Phytoplankton. Cambridge Univ. Press, Cambridge, UK.
- Roelke, D. and Buyukates, Y. (2002):** Dynamics phytoplankton succession coupled to species diversity as a system level tool for study of *Microcystis* population dynamics in eutrophic lakes. *Limnol. Oceanogr.*, 47(4): 1109-1118.
- Romario, R. P. and Boyd, C. E. (1979):** Effects of solar radiation on the dynamics of dissolved oxygen in Channel Catfish ponds. *Trans. Am. Fish. Soc.*, 108: 473-478.
- Rowland, S. J. (1986):** Site selection, design and operation of aquaculture farms, pp. 11-22. In: P. Owen and J. Bowden (eds.), *Fresh water Aquaculture in Australia*. Rural Press Queensland, Brisbane, Queensland, Australia.
- Royce, W. F. (1984):** Introduction to the practice of fishery science. Academic Press. Inc. (London) L.T.D. United Kingdom, Ed. printed in USA.
- Ruffier, P. J., Boyle, W. C. and Kleinschmidt, J. (1981):** Short-term acute bioassays to evaluate ammonia toxicity and effluent standards. *J. Water Pollut. Control Fed.*, 35: 367-377.
- Ruttner, F. (1953):** Fundamentals of limnology (translation of Grundriss der limnologie by D. G. Frey & F. E. D. Fry). Toronto: University of Toronto.

Ont. PP. 295.

Ryther, J.H. (1959): Potential productivity of the sea. *Science*, 130: 602.

Saad, M. A. H. and Antoine, S. E. (1982): Effect of pollution on phytoplankton in Al-Khandak and Al-Rabat, polluted outlet canals of Shat Al-Arab estuary at Basrah, Iraq. *Int. Revueges. Hydrobiol.* 67: 419-429.

Saeed, M. S. (2000): A study on factors affecting fish production from certain fish farms in the Delta. M.Sc. thesis. Inst. Environmental Studies and Research, Ain Shams Univ.

SAS Institute Inc., (2005): SAS System for Windows Statistical Software. SAS Institute Inc., Cary, North Carolina.

Sato, V. (1991): The development of a phytoplankton production system as a support base for finfish larval rearing research. In: W. Fulks and K.L. Main (Eds.). *Rotifer and Microalgae culture systems. Proceeding of a U.S. - Asia workshop.* Honolulu, Hawaii, pp. 257-273.

Sawyer, C. N. and McCarty, P. L. (1967): *Chemistry of sanitary engineers.* McGraw-Hill Book Co., New York. 518 pp.

Schaffner, W. R. and Oglesby, R. T. (1978): Phosphorous loadings to lakes and some of their responses. Part 1. A new calculation of phosphorous loading and its application to 13 New York lakes. *Limn. and Oceanog.*, 23: 120-134.

Schroeder, G. L. (1978): Autotrophic and heterotrophic production of micro-organisms intensively-manured fish ponds, and related fish yields. *Aquacu.*, 141: 303-325.

Schwedler, T.E., Tucker, C.S. and Beleau, M.H. (1985): Non-Infectious diseases, P. 497-541. In: C.S. Tucker(ed.), *channel catfish culture. Devel. in Aquac. and Fisher. Sci.* (15), Els NY.

Seeman, J.R. and Critchley, C. (1985): Effect of salt stress on the growth, ion content, stomatal behavior and photosynthetic capacity of a salt-sensitive species, *Phaseolus vulgaris* L. *Planta* 164:151-162.

Semeneko, N.E., Vladimiina, M.G. and Odeaes Kava, O.B. (1967): Seasonal

- variation of growth and crude protein content in *Chlorella vulgaris* . Eizid Rost. 114: 612-625.
- Shaker, I. M. (1998):** Effects of some environmental conditions on the properties of the soils and waters of fish cultures and their productivity. Ph.D. Thesis. Soil and water Dept. Fac. of Agric. Al-Azhar Univ.
- Shapiro, J. (1980):** The importance of trophic level interactions to the abundance and species composition of algae in lakes. Dev. Hydrbiol., 2: 105-116
- Siddiqui, A. Q. and Al-Harbi, A. H. (1999):** Nutrient budgets in tanks with different stocking densities of hybrid tilapia. Aquacu., 170: 245–252.
- Sivahami, R.; Premkishore, G. and Chandran, M.R. (1996):** Occurrence and distribution of potentially pathogenic enterobacteriaceae in carps and pond water in Tamil Nadu, India. Aquacu. Res. 27: 375-378.
- Smith, C. E. and Piper, R. G. (1975):** Lesions associated with chronic exposure to ammonia. pp 497-514 in Ribelin, R. G. and Migaki, G., eds. The pathology of fishes. Univ. of Wisconsin Press, Madison.
- Smith, V. H. (1988):** Phytoplankton and catfish culture: a review. Aquacu., 74: 167-189.
- Soeder, C.J. and Strengel, E. (1974):** Algal physiology and biochemistry, blaokwell scient. Pupl.: 714-740.
- Sorokin, C. and Krauss, R.W. (1962):** Seasonal variation on growth and cell division of green algae. PI. Physical., Lancaster, 37: 37-42.
- Sprague, J. B. (1985):** Factors that modify toxicity. In: fundamentals of aquatic toxicology, ed. G. M. Rand and S. R. Petrocelli.. Hemisphere Pub. Corp., New York, pp. 124-163.
- Stewart, N.E.; Shumway, D.I. and Dudooroff, P. (1967):** Influence of oxygen concentration on the growth of juvenile largemouth bass. J. Fish. Res. Bd. Can., 24: 275-294.
- Swingle, H. S. (1945):** Improvement of fishing in old ponds. Trans. North. Am. Wildl. Conf., 10: 299-308.

- Swingle, H.S. (1961):** Relationships of pH of pond waters to their suitability for fish culture. *Proc. Pacific Sci. Congress* 9 (1957), fisheries, (10): 72-75.
- Talling, J. F. (1971):** The underwater light climate as a controlling factor in the production ecology of freshwater phytoplankton. *Mitt. Int. Ver. Limn.*, 19: 214-243.
- Tamiya, H. (1957):** Mass-culture of algae. *Ann. Rev. Plant Physiol.*, 8:30.
- Tang, A.Y. (1970):** Evaluation of balance between fishes and available fish ponds in multispecies fish culture ponds in Taiwan. *Trans. Amer. Fish. Soc.*, 99: 708-718.
- Teichert-Coddington, D. R.; Behrends, L. L. and Smitherman, R. O. (1990):** Effects of manuring regime and stocking rate on primary production and yield of tilapia using liquid swine manure. *Aquacu.*, 88: 61-68.
- Teichert-Coddington, D.R.; Green, B.W. and Rodriguez, M.I. (1990):** Culture of tilapia with combinations of chicken litter and a commercial diet: Water quality considerations. In: Egna, H.S., J. Bowman, and M. McNamara, (Eds.) 7th Ann. Adm. Rep. May 1990.
- Tepe, Y. and Boyd, C.E. (2001):** A sodium- nitrate-based, water soluble, granular fertilizer for sport fish ponds. *N. Am. J. of Aquacu.* 63:328-332.
- Tew K.S., Conroy J. D., and Culver D. A. (2006):** Effects of lowered inorganic phosphorus fertilization rates on pond production of percid fingerlings. *Aquacu.*, 255: 436–446.
- Tilman, D. (1977):** Resource competition between planktonic algae: an experimental and theoretical approach. *Ecol.*, 58: 338-348.
- Tilman, D. (1982):** Resource Competition and Community Structure. Princeton University Press, Princeton.
- Tilman, D., and Kilham, P. (1976):** Sinking in freshwater phytoplankton: some ecological implications of cell nutrient status and physical mixing processes. *Limnol. Oceanogr.*, 21: 409-417
- Tilman, D.; Kilham, S.S. and Kilham, P. (1982):** Phytoplankton community

- ecology: the role of limiting nutrients. *Ann. Rev. Food System*, 13: 349-372
- Trojanowksi, J. (1990):** The effect of trout culture on water quality of Lupawa river. *Polskie Archiwum Hydrobiolog*, 37: 383-395.
- Tucker, C. S. and Boyd, C. E., (1985):** Water quality. In: *Channel Catfish Culture*, (ed). Elsevier Science Publisher, Amsterdam: 135-228.
- Tucker, C. S. and Schwedler, T. E. (1983):** Acclimation of channel catfish (*Ictalurus punctatus*) to nitrite. *Bull. of Environ. Contam. and Toxicol.*, 30: 516-521.
- Van de Bund, W.J. and Van Donk, E. (2004):** Effects of fish and nutrient additions on food-web stability in a charophyte-dominated lake. *Freshwater Biology*, 49: 1565–1573.
- Van Dijk, G. M. and Van Zanten, B. (1995):** Seasonal changes in zooplankton abundance in the lower Rhine during 1987-1991. *Hydrobiol.*, 304: 29-38.
- Vijverberg, J. (1989):** Culture techniques for studies on the growth, development and reproduction of Copepods and Cladocerans under laboratory and in situ conditions: a review. *Freshwater Biol.* 21: 317-373.
- Vymazal, J. (1995):** Algae and element cycling in wet lands. Duke Univ. School of the environment. Duke wet land Center Durham, North Carolina. CRC Press. Inc.
- Wafeek, M. (2006):** Comparative biochemical study on *Tilapia zillii* collected from lake Qarun, lake Timsah and Abbassa fishponds at different seasons. The 1st conference of CLAR, 13-15 December 2006, Sharm El-Shiekh, Egypt.
- Wang, P.K. and Chan, K.Y. (1990):** Algal single cell protein production from sewage effluent with high salinity. *Eperientia*, 36: 1065-1066.
- Weatherly, A.H. and Gill H. S. (1983):** Protien, lipid, water and coloric contents of immature rainbow trout (*Salmo gairdneri*, R) growing at different rates. *J. Fish Biology*, 23:653-673.
- Weatherly, A.H. and Gill, H.S. (1987):** Tissue and Growth. *The biology of fish*

- growth 1st ed., Great Britain by st. Edmundshury press, Burry st. Edmunds, Suffelk: 147-173.
- Wetzel, R.G. (1983):** Limnology, 2nd ed. Saunders College Publishing, New York, NY, 858 pp. Whitfield, M., 1974. The hydrolysis of ammonium ion in sea water. J. Mar. Biol. Assoc. UK, 54: 565-580.
- Wetzel, R.G. (2001):** Limnology. 3rd ed. Academic Press, California.
- Whitton, B.A. and Patts, M. (2000):** The Ecology of Cyanobacteria. Kluwer Acad. Publi., Netherlands.
- Williams, E. M. and Eddy, F. B. (1986):** Chloride uptake in freshwater teleosts and its relationship to nitrite uptake and toxicity. J. Comp. Physiol. B., 156: 867-872.
- Winfree, R.A. and Stickney, R. R. (1981):** effect of dietary protein and energy on growth, feed conversion efficiency and body composition of Tilapia aurea J. Nut. 111: 1001 – 1012.
- Wylie, J. L. and Currie, D. J. (1991):** The relative importance of bacteria and algae as food sources for crustacean zooplankton. Limn. and Oceanog., 36: 708-728.
- Yang, Y.F; Huang, X.F.; Liu, J.K. and Jiao, N.Z. (2005):** Effects of fish stocking on the zooplankton community structure in a shallow lake in China. Fishe. Manag. and Ecol., 12: 81–89.
- Yusoff, F. M. and McNabb, C. D. (1989):** Effect of nutrient availability on primary productivity and fish production in fertilized tropical ponds. Aquacu. 78: 303-319.
- Yusoff, F. M. and McNabb, C. D. (1997):** The effect of phosphorous and nitrogen on phytoplankton dominance in tropical fish ponds. Aquacu. Res., 28: 591-597.
- Zeller, H. D. (1952):** Nitrogen and phosphorus concentrations in fertilized and unfertilized farm ponds in Central Missouri. Trans. Am. Fish. Soc, 82: 281-288.

- Zhao, W.; Jiang, H. and He, Z. (1996):** Planktonic crustaceans of inland saline waters in Sanbei District, Northern China. *J. Dalian Fish. Coll.* 11: 1-3.
- Zonneveld, W. and Fadholi, R. (1991):** Feed intake and growth of red tilapia at different stocking densities in ponds in Indonesia. *Aquacu.*, 99: 83-94.