

Literature Cited.

Ali, S.S. 1979.

Age, growth and length- weight relationship of the roach *Rutilus L.* in L. Lyon Tegid, north Wales., Pak.J. Zool., 11 (1), 1-19.

Alikunhi, K.H. 1966.

Synopsis of biological data on common carp Cyprinus carpio (Linnaeus), 1758 (Asia and Far East).

F A O world symposium on warm-water pond fish culture. Rome, May 1966.

F A O Fisheries Synopsis No. 31.1.

Andrews, R. 1965.

Comparative Haematology. New York :
Grune and Stratton.

Aneer, G. 1973.

Biometric characteristics of the three- spined stickleback, Gasterosteus aculeatus L., from the Northern Baltrick Proper. Zoologica Scripta, 2 : 157 - 162.

Assman , A . W. 1960.

Nekotorye dannye O vliianii razlichnykh
Uslovii Pitaniia na morfologicheskii
Sostav Krovi sasana. Vop. Ikhtiol.,
15 : 148 - 65.

Assman, A. W. 1962.

The consumption of natural food by carp
during various feeding conditions and st-
ocking densities. Trudy Inst. Morf. Zhivot.,
42 : 64 - 119.

Atakuliev, A . 1963.

Data on the feeding of some fish species in
Kelif waters. Izv. Akad. Nauk turkmen. SSR,
5 : 59 - 67.

Bardch , J.E. ; Ryther, J.H. and McLarney, W.O. 1974.

Aquaculture . New Yourk : Wiley - Intersien-
ce, pp. 29 - 30.

Beckman , W. 1948.

The length - weight relationship , factors

for conversions between standard and total length and coefficients of condition for seven Michigan fishes, Trans.Amer. Fish. Soc., 75 : 237 - 256.

Berra , T . M. 1978.

The Australian freshwater fish genus Maccullochella. National Geographic Society Research Reports , 1969 Projects: 13 - 181

Bishai , H. M. ; Ishak , M.M. and Labib, W.D. 1972.

Experimental studies on feeding the common carp cyprinus carpio L. in Egypt. Bulletin of the Institute of Oceanography and Fisheries, 2 : 275 - 295.

Bishai , H . M. and Labib, W.D. 1973.

Age and growth of mirror carp (Cyprinus carpio L.) at Serow Fish Farm. Bulletin of the Institute of Oceanography and Fisheries, 3: 395 - 418.

Black , J.D. 1946.

Nature's own weed killer, the German carp. Wisconsin Conserv. Bull. 11, No.4.

Blaxhall, P. 1972.

The haematological assessment of the health of freshwater fish. A review of selection literature. J. Fish. Biol.
4 : 593 - 604.

Botros, G.A. ; El- Magraby , A.M. and Soliman, I.A.M. 1970.

Biometric studies on Sardinella mederensis
Lows and Sardinella aurita Cuv. and Val.
from Mediterranean Sea at Alexandria
(U.A.R.).

Buschkiel , A.L. 1933

Teichwirtschaftliche Erfahrungen mit Karpfen
in den Tropen. Z. Fisch., 31 : 619 - 44.

Butcher, A.D. 1962.

The implications of the introduction of
European carp into Victoria - Waters. Publ.
Fish. Wildlife, Victoria, Australia, 73 PP.

Cole , L.J. 1905.

The German carp in the United States. Rept.
U.S. Bur. Fish., p . 525- 641.

Conrad, G.M. 1938

The osteology and relationships of the wahos, Acanthocykium solandri , a scomberoid fish. (Quoted from Botros et al,1970)

Dawson, A . B. 1935.

The haemopoietic response in the catfish, Ameiurus nebulosus (le Sueur), to chronic lead poisoning, Biol. Bull. mar. biol.lab., Woods Hole. 68,335 - 346.

Demenier , G. 1953.

Albumin and globulin contents of the serum of various fishes. Comt. Rend. Soc. Biol., 115 : 555.

Dixon , B. 1931.

Morphometrical features of the Sea trout of Polish Rivers.J. Cons. Int. Explor.Mer., 6(1) : 94 - 102.

Dottrens, E. 1950.

Le coregone actual du L'eman. Rev. Suisse
Zool., 57(4): 789 - 813.

Dourado, O.F. and Davies, W.D. 1978.

Length - weight relationship and condition
indices of fishes from reservoirs of Ceara,
Brazil. 6p. Res. Dev. Inst. Cent. Aquacult.,
(no.18).

Du Plessis, S.S. 1963.

A revision of the genus labeo (Pisces:Cypri-
nidae) in the Transvaal with a description
of a new species. Ann. Transvaal Mus., 24(4):
327 - 337.

Ebina, K.I. 1931.

(Quoted by Alikunhi , K.H. (1966). In Syno-
psis of biological data on common carp Cypri-
nus carpio (Linnaeus), 1758(Asia and FarEast).
F A O world symposium on warm - water pond
fish culture. Rome, May 1966. F A O Fisheries
Synopsis No. 31.1).

Eichler, H. 1940.

Über die Beziehungen Zwischen Wachstum, Form
und Geschlecht beim Karpfen. Z. Fish. (38):
81 - 89.

Eisler, R. 1965.

Erythrocyte counts and haemoglobin content
in nine species of marine teleosts. Chesap-
eake Sci. 6, 119 - 120.

El- Bolock, A.R. and Labib, W.D. 1968.

Carp culture in the U.A.R. F A O World Sym-
posium on warm - water pond fish. Culture.
Rome (18-25 May. 1966).

El- Domiaty, N.A. 1972.

Comparitive study of carbohydrates, Proteins,
fat and electrolytes in the blood of cyprinus
carpio and Bagrus bayad. Ph.D. Thesis, Alex-
andria Univi.

El-Maghraby, A.M. ; Botros, G.A. and Soliman, I.A.M. 1970.

Age and growth studies on Sardinella maderensis
Lowe and Sardinella aurita Cuv. and Val. from

the Mediterrenean Sea at Alexandria.(U.A.R.).
Bulletin of the Institute of Oceanography and
Fisheries, 1: 49-821.

English, T.S. 1952.

Growth studies on the carp Cyprinus Carpio L.
in Clear Lake, Iowa. Iowa State Coll. J.Sci.
24(4): 527- 540.

Ezzat, A.A. ; Hashem, M.T. and El- Gharabaway,M.M.1979.

Biometric variations in Solea vulgaris acclim-
atized in lake Quarun. Upper Egypt.J. Fish.
Biol., 14(1): 39 - 46.

Field, J.B.; Elveljem, C.A. and Juday,C. (1943).

A study of the blood constituents of carp and
trout. J.Biol. Chem. 148, 261-290.

Fulton, T. 1902.

Rate of growth of sea- fishes. Sci. Invest.
Fish. Div. Scot. Rept., 20.

Ghaffar, F.A. 1971.

Haematological studies of the culture fishes
in Egypt. M.Sc. Thesis, Cairo University.

Godsil, H.C. and Byers, R.D. 1944.

A systematic study of the Pacific tunas. California. Div. Fish and Game, Fish Bull., 60:
131 pp.

Grégory , W.K. 1928 a.

Studies on the body - forms of fishes. Zoologica, N.Y., 8(6) : 335 - 421.

Grégory , W.K. 1928 b.

The body - forms of fishes and their inscribed
rectilinear figures. Paleo biologica, I (1):
93 - 100.

Grodzinski, Z. 1938.

Das Blutgefasssystem. In Bronn's Klassen und
Ordnungen des Tierreich's. Band 6. Abt.1.Buch 2,
Teil 2, Lieferung 1:1 - 77.

Hall, F.G.; Gray, J.E. and Lepkovsky, s. 1926.

Influence of asphyxiation on the blood constituents of marine fishes. J. biol. chem. 67, 549-554.

Harper, H.A. ; Roodwell, V.W. and Mayes, P.A. 1977.

Review of physiological chemistry. Lange Medical
publication. California.

Heldt, H. 1927.

Le thon rouge. Rapp. Comm.int. Mer Médit.,2:
137 - 147.

Hendricks, L.J. 1952.

% Erythrocyte counts and haemoglobin deter-
minations for two species of suchers, genus
catostomus from Colorado. Copea, 4:265 - 266.

Hesser, E.F. 1960 :

Methods for routine fish haematology. Progve.
Fish cult. 22 : 164 - 170.

Hickling , C.F. , 1962.

Fish cultur. London , Faber and Faber, 295 p.

Hile, R. 1941.

Age and growth of rock bass, Amlopites rupestr-
is, in Nabish Lake, Wisconsin. Transaction of
the Wisc.Acad. of Sci. Arts and Letters, Vol.33:
189 - 337.

Hoffbour, C. 1898.

Die Alterbestimmung der Karpfens an seiner schappe Allg. Fiechereizeitung. 23U,25 Jahrg.

Hofman, J. 1927.

Die Aischgrunder Karpfenrasse. Zeit.F. Fishch., 25.

Hora, S.L. and T.V.R. Pillay 1962.

Handbook on fish culture in the Indo- Pacific Region. F A O Fish Biol. tech. Pap., (14):203 p.

Hussein, M.F. ; Badawi, H.K. and El- Bishry, A. 1974.

A haematological study of healthy Angulla Vulgaris and Mugil cephalus. Bulletin of the Institute of Oceanography and Fisheries, 4 : 245 - 366.

Imam, A.E. and Hashem, M.T. 1960.

Spawning and development of common carp (Cyprinus carpio) in Egyptian ponds. Notes and Memoirs, Hydr. Dept. No. 54.

Imam, A.E. and Habashy. Ph. 1972.

Artificial feeding of carp fry. Bulletin of the Institute of Oceanography and Fisheries, 2:261-274.

Jones, R. 1976.

The ecology of the seas. Cushing, D.H., Walsh, J.J. (edo) Publ. by Blackwell Scintific; oxford (Uk). p 251 - 279.

Kempinska, H. 1968.

The growth of females and males of carp (Cyprinus carpio) F A O World Sympsium on Warm Water pond Fishculture, Rome (18 - 25 May, 1966).

Kesteven, G.L. 1950

An examination of certain aspects of the methodology and theory of fisheries biology. New Haven, Bingham Oceanogr. Lab. Mimeographed, 211 pp.

Knoll, W.W. 1957.

(Quoted by Andrews, W. 1965 . In comparative Haematology. New York : Grune and Stratton.)

Kostamarov, B. 1922.

Das exterieur und die korrelationen Zwischen den karp ermossen det kleinpolnischen Waagkarpfen. Zvlastni olisk zgasopisu vestink Ceskoeslovenske akademik Zemedelske, Jahrg., 9: 9 - 8

Koura, R. and A.R. El- Bolock. 1960.

Acclimatization and growth of mirror carp in
Egyptian ponds, Notes and Memories No. 51,
Alex. Inst. Hydrobiollogy. U.A.R. pp. 15.

Krauper, V. 1964.

Vliv pohlaví na individualní vahu drouletých
a tříletých kapra. Pr. Vurh. Voclňany, 4:55-71.

Kumer, K.; Sehgal, K.L. and Sunder, S. 1979.

Length- weight relationship and ponderal index
of brown trout, *Salmo trutta fario* (Linnaeus)
catches in the streams of Kashmir. J. Inland
Fish. Soc. India, 11(1): 56-61.

Kuronuma, K. 1954.

Carp culture in ricefields as a side work of
Japanese farmers. Ministry of Agriculture and
Forestry, Japan.

Labib, W.D. 1970.

Biological studies on common carp Cyprinus carpio
L. in Egypt. M.Sc. Thesis, Faculty of Science,
Cairo University.

Lachner, E.A. and Jenkins, R.E. 1971.

Systematics, distribution, and evolution of the
Nocomis biguttatus species group (family Cyprinidae : Pisces) with a description of a new species from the Ozark.Upland, Smithsonian Contributions to Zoology, 91 : 1-28.

Lagler , K.E. 1977.

Ichthyology. John Willey and sons, New York.
London.

LeCren, E.D. 1951.

The length - weight relationship and seasonal
Cycle in gonad weight and condition in the
Perch, (Perca fluviatilis). J. Anim. Ecol, 20
(2): 201 - 219.

Lepkovsky, S. 1929.

The distribution of serum and plasma proteines
in fish. J. Biol. Chem., 85 - 667.

Luhmann, M. and Mann, H. 1957.

Uber Organgewichte bei Karfen. Arch. Fischwiss.,
8 (1-2) : 1 - 11.

Lysak , A. 1965.

Further investigations on the influence of
blood sampling in carp on their blood
picture and rate of growth.

Acta hydrobiol. 3(4):261-279.

Mackay, H.H. 1963.

Fishes of Ontario. Publ. Ontario Dept.

Lands Forests. P. 166- 175.

Mahmoud, U.M. 1980.

Taxonomic studies of the Nile Fishes

Family Cyprinidae. M.Sc. Thesis, Assiut

University.

McCarthy, D.H.; Stevenson, J.P. and Roberts, M.S.1973.

Some blood parameters of the rainbow trout

(*Salmo gairdneri* Richardson) J. Fish.

Biol. 5: 1-8.

McCay, C.M. 1929.

Haematology of fish, Rep. N.Y. st.

Conserv. Dep. 18, Supplement, 140-149.

McCosker, J.E. and Randall, J.E. 1977.

The new species of Indo- Pacific moray eels
(Pisces: Muraenidae). Proc. Cal. Acad.Sci.,
12 (3) : 161 - 168.

McCrimmon, H.R. 1968.

Carp in Canada. Bulletin 165. Fish. Res, Bd.
Canada, Ottawa 1968.

McDowall, R.M. 1972.

The species problem in freshwater fishes and
the taxonomy of diadromous and lacustraine po-
pulations of *Galaxias maculatus* (Jenyns).J.of
Royal Soc. of New Zealand, 2 (3):
325 - 367.

Molnar, Gy 1969.

Zur Hamatologie der ostasiatischen pflanzenfre-
ssenden Karpfenarten: (gefleckter silberkarpfen
Hypophthalmichthys nobilis Richardson, Weisser
Silberkarpfen *Hypophthalmichthys molitrix* Val.
Und Graskarpfen *Ctenopharyngodon idella* Val).
Germ. Eng. Summary. Arch. Fischwiss. 20:98-105.

Molnar, Gy and Tamassy, E. 1970.

Study of the haemoglobin content of a single erythrocyte (M index) in various cultured fish species. J. Fish. Biol. 2 : 167 - 171.

Mott, J.C. 1957.

The cardiovascular system. In the physiology of Fishes, pp. 81 - 108 (Ed. Brown, M.E.). London and New York: Academic Press.

Murachi, S. 1959.

Haemoglobin content, erythrocyte sedimentation rate and haematocrit of the blood in the young of the carp, *Cyprinus carpio* (L.) J. Fac. Fish. Anim. Husb. Hiroshima Univ. 2 : 241 - 247.

Nikolsky, G.V. 1963.

The ecology of fishes. Academic Press, N.Y.P.
150 - 152 (Transl. from Russian by L. Brickett)

Olatunde, A.A. 1979.

Age determination, Length - Weight relationship

and growth of *Eutropius niloticus* and *Schibamystus* in Lake Kainji, Nigeria. Arch. Hydrobiol., 87 (1), 49 - 83.

Panigrahi, S. 1978.

A note on certain observation on blood cells of three species of Indian major carps. (Fresh water Aquacult. Res. and Training Cent., C.I.F. R.I., Bhubaneswar 751007, India) Sci. Cult., 44 (11): 514 - 516.

Phillips, R.A.; Vanslyke, D.D.; Hamilton, P.B.; Dole, V.P.; Emerson, K. and Archibald, R.M. 1950.

Measurements of specific gravity of whole blood and plasma by standard copper sulphate solution. J. Biol. Chem. 183 - 305.

Pilarczyk, A. 1978.

Haematological and histological changes in carp with necrotic gill disease (Branchionecrosis cryprinorum) Acta. Hy. Drobiol. 19 (1): 9-22.

Prosser, C.L. 1973.

Comparative animal physiology. W.B. Saunders
Co. Philadelphia. London, Toronto.

Pruginin, Y. 1968.

The culture of carp and Tilapia hybrids in
Uganda . F A O World Symposium on warm - water
pond Fishculture, Rome 18 - 25 May (1966).

Puchkov, N.V. 1964.

The white blood cells. In Techniques for the
investigation of Fish Physiology. pp. 11-15 (Ed.
Pavlovskii, E.N.). Jerusalem : Israel. Program
for Scientific Translations.

Randall, D.J. 1970.

The circulatory system. In Fish Physiology, (Ed.
W.S. Hoar and D.J. Randall). Vol. 4, P. 160.
London: Academic Press.

Root, R.W. (1931)

The respiratory function of the blood of
marine fishes, Biol. Bull. 61(3) : 427.

Rounseffell, G.A. and Everhart, W.H. 1953.

Fishary Science: Its methods and applications.
1 st Edit., John Wiley and Sons. Inc., New
York.

Sarig, S. 1966.

Synopsis of biological data on common carp
Cyprinus carpio (Linnaeus), 1758. (Near East
and Europe) F A O world symposium on warm -
water pond fish culture. Rome, May 1966. F A O
Fisheries synopsis No. 31.2.

Schaefer, M.B. and Walford, L.A. 1950.

Biometric comparison between Yellow fin tunas,
Neothunnus, of Angola and the Pacific Coast of
central America. Fishary Bulletin of the Fish
and Wildlife Service 51: 425 - 443.

Schaeperclaus, W. 1933.

Textbook of pond culture. U.S. Fish and Wildl.
Serv., Fish. Leaflet, 311: 260 pp.

Schaeperclaus, W. 1951.

Die Karpfenteichswirtschaft in der Deutsche
Demokratischen, Republik. Sitz Ber. Bd. V II.
H ft 7. Deutsche Akad. Landwirtschaftwiss -
Berlin.

Schaffman, R.J. 1957.

Age and rate of growth of the carp in Reelfoot
Lake. Tennessee, for 1941 and 1956. J. of the
Tennessee Acad. of Sci. Vol. 32 No.1 Spalding
Inst. Peoria Illinois.

Schumacher, R.E.; Hamilton, C.H. and Longtin, J.J. 1956.

Sedimentation rates of brook trout affected by
furunculosis. Progve. Fish culture. 18:147 -149.

Sedlar, J.; Stranai, I. and Weis, J. 1980.

Age and growth of the fishery population of trout

in the water - storage reservoir at Motava
near Zvolen. Pol'nohospodarstvo, 26 (2):
138 - 189.

Sigler, W.F. 1955.

An ecological approach to understanding Utah's
carp populations. Utah Acad. Proc., 32 :
95 - 104.

Sigler, W.F. 1958.

The ecology and use of carp in Utah. Utah State
Univ., Agr. Exp. Sta. No. 405. 62p.

Shaw, A.F. 1930.

A direct method for counting the leukocytes,
thrombocytes and erythrocytes of bird's blood.
J. Path. Bact. 33: 833 - 835.

Skelton, P.H. 1974.

A new Barbus species (Pisces, Cyprinidae) from
the Olifants River system, western cape province,

South Africa, J.L.B. Smith Institute of Ichthyology, 13 : 1 - 12.

Skelton, P.H. 1976.

A new species of Mastacembelus Pisces, Mastacembelidae) from the upper Zambezi River, with a discussion of the taxonomy of the genus from this system. Ann. Cape Prov. Mus. (Nat.Hist.), 11 (6): 103 - 115.

Sobel, A.E.; Mayer, A.M. and Sidney, P., 1944.

A convenient titrimetric ultra - micro method for the estimation of urea and Kjeldahl - nitrogen. J. biol. Chem., 156 : 355 - 363.

Soliman, A.M., Botros, G.A. and El- Maghraby, A.M. 1970.

Length- weight relationship and coefficient of condition for Sardinella maderensis Lowe and Sardinella aurita Cuv. and Val. from Mediterranean Sea at Alexandria (U.A.R.). Bulletin of the Institute of Oceanography and Fisheries, 1: 29 - 45.

Sorvacev, K.F. 1957.

Electrophoretic study of the protein fractions of the blood serum in carp raised in ponds under different conditions. Zool.Z.Mosh 36: 737-741.

Stevens, E.D. 1968.

The effect of exercise on the distribution of blood to various organs in rainbow trout. Comp. Biochem. Physiol. 25: 615 - 626.

Suyehiro, Y. 1958.

The first symposium on the blood of aquatic animal. Japanese Jour. Ichthyol., 7 : 127.

Syrov, V.S. 1970.

Seasonal and age-related changes in the morphological composition of the blood in grass carp and silver carp. Rybkhoz Resb Mezhdvedon Temat Nauch S B gi 98 - 103. translated from REF ZH Biol. 1970, No. 31121.

Tamura, T. 1961.

Carp cultivation in Japan. In fish as food.
(Edt. Borgstrom, G.) Vol. I chapter 4 :
103 - 120. Acad. Press, New York and London.

Taning, A.V. 1952.

Experimental study of meristic characters in
fishes. Biol. Rev. Cambridge Philos. Soc.,
27 : 169 - 193.

Tanyolac, J. 1977.

Length - weight relationship and condition of
carp, Cyprinus carpio L., in lake Mogan, Ankara.
Commun Fac. Sci. Univ. Ankara SER C₃ Zool. 19
(1): 1 - 12.

Thompson, D.W. 1943.

One the growth and form. New York. Macmillan.

Vaas, K.F., and M. Sachlan., 1956.

Cultivation of common carp in running water in
West Java. Proc. Indo- Pacif. Fish. Coun., 6
(2 and 3) : 187 - 96.

Vaas, K.F. 1957.

Studies on the food and feeding habits of the common carp in Indonesian Ponds. (1) Changes in diet during growth. Indo - Pacific Fish council. 7th Session. Bandung- Indonesia (I. P.F.C./C 57 / Tench 13 - 1) 25p.
(Mimeographed.)

Van Oven, A. 1957.

Experiments on different stocking rates of the common carp (*Cyprinus carpio* L.) in nursery ponds. Proc. Indo - Pacif. Fish Coun., 7
(2 and 3) : 13 - 34.

Walburg, C.H. and Nelson, W.R. 1966.

Carp, River carpsucker, Smallmouth Buffalo and Bigmouth Buffalo in Lewis and Clark Lake Missouri River. Fish. Res. Biologists Research Report, 68 : 1 - 30.

Wlodek, J.M. 1959.

Biometrische Untersuchungen an den überwinternden Karpfen. Acta. hydrobiol. Krakow, 1 (3-4):
²
215 - 220.

Wlodek , J.M. 1964.

Morphological characteristics of carps from
Golysz pond farm.

The Scientific Publications, Foreign Cooperat-
ion center of the Central Institute for Scient-
ific Technical and Economic Information.

Warsaw, Poland, 1964.

Wlodek, J. M. 1967.

Rasy I Odmiany Karpi Hodowanych W stawach.

Wszechswiat pismo przyrodnicze Wrzesien 1967

Zeszyt 9.

Worthmann, H. 1980.

The early growth stages of the pescada (Plagi-
oscion monti Soares). Arch. Fischereiwiss., 30
(2/3), 145 - 156.

Yokoyama, H.O. 1947.

Studies on the origin, development, and seasonal
variations in the blood cells of the perch, *Perca
flavescens*. Ph.D. Thesis, University of Wisconsin.