

# A BIBLIOGRAPHY OF IMPORTANT TILAPIAS (PISCES:CICHLIDAE) FOR AQUACULTURE

*Oreochromis macrochir, O. aureus, O. hornorum, O. mossambicus,  
O. niloticus, Sarotherodon galilaeus, Tilapia rendalli and T. zillii*

PETER SCHOENEN

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**Peter Schoenen**

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*O. mossambicus*, *O. niloticus*, *Sarotherodon*  
*galilaeus*, *Tilapia rendalli* and *T. zillii*

**PETER SCHOENEN**

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## Preface

Since the publication of "A Bibliography of Important Tilapias (Pisces: Cichlidae) for Aquaculture" in 1982 (see Schoenen 1982), a lot of further references came to my knowledge.

The references are all those published on these species up to the end of 1983. The reference numbers are consecutive from the first volume and, as before, subject and geographic indexes are provided.

To make them available as quickly as possible to scientists, field workers and libraries, I have decided to publish this first supplement.

I have to thank J.L. Maclean and ICLARM for the realization of the publication.

If users of the bibliography notice any errors or omissions, it would be appreciated if they would send details to the author again.

Peter Schoenen  
March 1984

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This work is dedicated to my wife Waltraud and my son Michael.

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(formerly: Tilapia macrochir)

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| <p>1. Africa</p> <p>0242 0243 0244 0246 0247</p> <p>0248 0249 0250 0251 0252</p> <p>0253 0254 0256 0257 0259</p> <p>0260 0261 0262 0263 0265</p> <p>0266 0267 0268 0270 0271</p> <p>0274 0275 0277 0281 0282</p> <p>0285 0291 0292 0293</p> <p>1.1. Congo (Zaire)</p> <p>0242 0252 0253 0254 0256</p> <p>0263 0267 0285</p> <p>1.2. Kafue River</p> <p>0259 0291 0292</p> <p>1.3. Katanga</p> <p>0244 0254 0262</p> <p>1.4. Lake Albert (now: Lake<br/>Mobutu Sese Seko)</p> <p>0257 0266</p> <p>1.5. Lake Bangweulu</p> <p>0246 0247 0281</p> <p>1.6. Lake Edward (now: Lake<br/>Idi Amin Dada)</p> <p>0266</p> <p>1.7. Lake Kariba</p> <p>0261</p> <p>1.8. Lake Kivu</p> <p>0266</p> | <p>1.9. Lake McIlwaine</p> <p>0275</p> <p>1.10. Lake Mweru</p> <p>0247 0249</p> <p>1.11. Southern Africa</p> <p>0248 0293</p> <p>1.12. Zambia</p> <p>0259 0274 0292</p> <p>1.13. Zimbabwe (formerly: Rhodesia)</p> <p>0270 0275 0277 0282</p> <p>2. Madagascar</p> <p>0254 0255 0271 0287</p> <p>2.1. Lake Itasy</p> <p>0255</p> |
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Oreochromis (Oreochromis) aureus (Steindachner, 1864)  
(formerly: Tilapia aurea)

List of synonyms and misidentifications

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Note:

For further taxonomic informations, see: Trewavas, 1983

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(formerly: *Tilapia aurea*)

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*Oreochromis (Oreochromis) urolepis hornorum* (Trewavas, 1966)  
(formerly: *Tilapia hornorum*)

Note:

for further taxonomic informations, see: Trewavas, 1983

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0094	0097	0098	0099	0101
0102	0103	0104	0105	0106
0107	0108	0109	0110	0111
0112	0113	0114	0115	0119
0120	0123	0124		

  - 10.1. Biological recycling systems  
0077
  - 10.2. Cage culture  
0078 0102
  - 10.3. Computer simulation  
0115
  - 10.4. Dissolved Oxygen  
0115
  - 10.5. Farm culture  
0099
  - 10.6. Feeding (incl. Supplemental feeding)  
0088 0120
  - 10.7. Food  
0086 0110 0112
  - 10.8. Gross photosynthesis  
0106
  - 10.9. Growth  
0086 0110
  - 10.10. Heated effluents (Power plant)  
0077 0109
  - 10.11. Hybridization
 

0073	0074	0075	0077	0078
0079	0080	0081	0085	0086
0087	0088	0089	0090	0091
0092	0093	0096	0097	0098
0099	0101	0102	0104	0105
0107	0108	0109	0110	0112
0114	0119	0120	0123	0124
  - 10.12. Intensive culture  
0080 0086 0099 0101
  - 10.13. Manure Systems (Fertilizers)  
0081 0085 0120
  - 10.14. Mono-Culture  
0080 0088
  - 10.15. Nighttime dissolved oxygen  
0115
  - 10.16. Overwintering  
0077 0078 0109
  - 10.17. Poly-Culture (Mixed-Culture)  
0080 0089 0090 0091 0120  
0124
  - 10.18. Pond culture
 

0075	0077	0078	0081	0086
0087	0088	0101	0103	0106
0107	0108	0109	0112	0115
0120				

- 10.19. Power plant effluents  
0077
- 10.20. Raceways  
0077
- 10.21. Reproduction (Production)  
0085 0114
- 10.22. Reservoir fisheries  
0103
- 10.23. Sexing fish fry  
0094
- 10.24. Tank culture  
0110
- 10.25. Yields  
0106
- 11. Genetics  
0105
- 12. Introductions, on  
0111
- 13. Popular books/Literature  
0118 0121
- 14. Protein  
0110
- 15. Radiation  
0074
- 16. Serum proteins  
0095
- 17. Systematics/Taxonomy  
0122
- 18. Temperature (Effects of)  
0084

G E O G R A P H I C    I N D E X

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|--|---|
| <p>1. Africa<br/>0083 0101 0118</p> <p>1.1. Ivory Coast<br/>0083 0101</p> <p>2. Brazil<br/>0079 0086 0087 0099 0103<br/>0111 0112</p> <p>3. Costa Rica<br/>0081</p> <p>4. Israel<br/>0097 0107 0108 0120</p> | <p>5. USA<br/>0073 0074 0075 0077 0078<br/>0085 0088 0092 0093 0094<br/>0098 0100 0102 0105 0106<br/>0109 0110 0115 0119 0123<br/>0124</p> <p>5.1. Alabama<br/>0077 0078 0085 0102 0109<br/>0115 0119</p> <p>5.2. California<br/>0100</p> <p>5.3. Louisiana<br/>0075</p> <p>5.4. Puerto Rico<br/>0073 0088 0092 0093 0094</p> |
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93. Hydrology  
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94. Hydromineral adaptation  
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0881 0882 0884 0886 1072  
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159. Retina  
1085 1204 1205 1206 1207  
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0887 0888 0926 0993 1062  
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0880 0899 0906 0907 0909  
0940 0941 0958 0968 1030  
1076 1079 1083 1101 1102  
1106 1107 1108 1183 1210  
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1247 1315
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0906 0907 0908 0909 0941  
1076 1079 1102 1106 1107  
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1248 1249 1251 1260 1262  
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|---|---|

21. Sri Lanka (formerly:  
Ceylon)  
0973 1049 1266 1345 1346
22. Thailand  
0969 1062 1100 1308
23. U.S.A.  
0895 0896 0911 0912 0956  
0961 0981 0982 0991 1002  
1003 1004 1007 1040 1045  
1052 1056 1086 1116 1131  
1135 1158 1159 1160 1163  
1169 1184 1200 1227 1268  
1275 1276 1279 1284 1296  
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- 23.1. Alabama  
0895 0911 0912 0961 1007  
1131 1200 1284 1296 1324
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1040 1116 1184 1268
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- 23.7. Louisiana  
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- 23.8. Puerto Rico  
0991 1163
- 23.9. South Carolina  
0981
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1045 1052 1302 1340
- 23.11. Vietnam  
1119

*Oreochromis (Oreochromis) niloticus niloticus* (Linnaeus, 1757)  
(formerly: *Tilapia nilotica*)

N o t e :

For further taxonomic informations, see: Trewavas, E. 1983

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0581 0731 074029.1.4. Thyrotroph hormone  
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0649 076630. Energy metabolism  
0722 072431. Environmental physiology  
053632. Esterase enzymes  
060533. Evolution  
0750 075134. Fatty acids  
080835. Fecundity  
074936. Fish communities  
0692

## 37. Fisheries

0482	0484	0487	0490	0491
0493	0494	0497	0499	0500
0501	0502	0503	0504	0505
0506	0507	0508	0509	0510
0511	0512	0515	0516	0517
0520	0522	0523	0524	0525
0526	0527	0528	0529	0530
0531	0532	0533	0535	0536
0537	0538	0539	0540	0541
0542	0543	0544	0545	0546
0547	0548	0549	0550	0551
0552	0553	0554	0555	0556
0557	0558	0559	0560	0561
0562	0563	0564	0565	0566
0567	0568	0569	0570	0572
0573	0575	0576	0577	0578
0579	0580	0581	0582	0583

## 37. Fisheries (cont.)

0584	0585	0586	0587	0588
0589	0590	0591	0592	0593
0594	0595	0596	0597	0598
0599	0600	0601	0602	0603
0604	0606	0607	0608	0611
0612	0613	0614	0615	0616
0617	0618	0619	0620	0621
0622	0623	0624	0625	0627
0630	0632	0633	0634	0635
0636	0637	0638	0639	0641
0642	0643	0644	0645	0646
0647	0650	0651	0654	0655
0657	0662	0663	0664	0666
0667	0668	0669	0670	0671
0672	0675	0676	0677	0678
0680	0682	0683	0684	0685
0686	0687	0688	0689	0690
0691	0693	0694	0695	0696
0697	0698	0699	0708	0709
0710	0711	0712	0713	0715
0716	0718	0719	0720	0721
0725	0727	0728	0732	0733
0734	0736	0737	0738	0739
0741	0742	0743	0744	0745
0748	0749	0753	0755	0756
0757	0758	0759	0760	0761
0762	0763	0764	0765	0767
0768	0769	0770	0771	0772
0773	0775	0776	0777	0779
0781	0784	0786	0790	0794
0796	0798	0799	0805	0813
0815	0816	0818	0819	0820
0821	0823	0825	0826	0828
0830	0831	0832	0833	0834
0838	0839	0840	0841	0842
0844	0845			

37.1. Algae  
049337.2. Body composition  
049337.2.1. Body fat content  
081937.3. Breeding  
068337.4. Cage culture

0510	0524	0525	0532	0533
0538	0611	0615	0617	0618
0619	0675	0710	0742	0796
0799	0816	0818	0819	0820
0821				

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0775				

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- 37.8.1. Digestive efficiency  
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0840 0841
- 37.10. Echo sounding  
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0499
- 37.11.1. Heated effluents  
(power plant)  
0507 0712 0713 0753 0823
- 37.11.2. Power plant effluents  
0506 0507
- 37.11.3. Sewage effluents  
0499 0564 0566 0568 0569
- 37.12. Energy sources, dietary  
0650
- 37.13. Exploitation rate  
0727
- 37.14. Farm-culture  
0672
- 37.15. Feeding (incl. Supplemen-  
tal feeding)  
0487 0527 0538 0543 0544  
0545 0546 0547 0548 0549  
0562 0566 0578 0584 0590  
0591 0594 0595 0597 0598  
0603 0710 0716 0742 0743  
0744 0771 0796 0813 0816  
0818 0820
- 37.15.1. Feeds  
0572 0651 0688 0745 0758  
0773 0819
- 37.15.2. Feed conversion  
0538 0716
- 37.15.3. Feed formulation  
0650
- 37.15.4. Feed manufacture  
0650
- 37.15.5. Feed processing  
0650
- 37.15.6. Feeding ecology  
0650
- 37.15.7. Feeding experiments  
0689
- 37.15.8. Feeding patterns  
0786
- 37.15.9. Feeding regimes  
0650
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0764 0819 0820 0821
- 37.15.11. Feeds; Toxins in  
0650
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0547 0549 0602 0650
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0486 0490 0493 0539 0662  
0672 0716 0734 0741 0786  
0790 0818 0828
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0662 0678 0689 0693 0748  
0798 0819 0821 0839
- 37.18.1. Growth determination  
0749
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0552



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0482	0500	0507	0510	0531
0535	0539	0546	0553	0556
0557	0575	0577	0578	0596
0597	0606	0607	0611	0612
0621	0630	0640	0641	0643
0664	0677	0678	0690	0693
0709	0719	0720	0721	0725
0733	0734	0741	0776	0779
0782	0796	0816	0819	0820
0821	0834	0834	0839	0844

## 37.20. Hydrolysis-Resistant Organic Matter

0520

## 37.21. Incubation; artificial

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## 37.22. Integrated agriculture/aquaculture

0508 0551 0637 0794

## 37.23. Integrated animal-fish farming

0500 0530 0636

## 37.24. Integrated fish farming

0517 0567 0635 0762

## 37.25. Intensive culture

0528	0529	0538	0556	0612
0671	0713	0753	0819	0820
0821	0844			

## 37.26. Lagoon-fisheries

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## 37.27. Man-made lakes

0502	0503	0560	0634	0645
0669	0674	0676	0691	0752
0772	0784	0822		

## 37.28. Manure systems (Fertilizers)

0484	0487	0499	0500	0506
0508	0539	0554	0556	0557
0565	0566	0582	0583	0584
0586	0590	0591	0594	0622
0623	0624	0630	0636	0637
0733	0796	0832	0833	

## 37.29. Metabolism

0527

## 37.30. Mineral requirements

0650

## 37.31. Mono-culture/Mono-Sex culture

0540	0577	0586	0620	0715
0725	0838	0845		

## 37.32. Nutrition

0543	0654	0655	0684	0688
0710	0818	0819	0821	

## 37.32.1. Nutrient requirements

0650

## 37.32.2. Nutritional values

0496

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0844

## 37.34. Overwintering

0506	0507	0510	0515	0686
0816	0823			

## 37.35. Pen-culture

0761

## 37.36. Phytoplankton

0646 0743 0744

## 37.37. Poly-culture (Mixed-culture)

0540	0544	0545	0546	0547
0552	0582	0586	0588	0590
0593	0594	0595	0597	0600
0603	0622	0623	0624	0632
0636	0725	0770	0771	0794
0796	0816	0838	0839	

## 37.38. Pond-culture

0484	0487	0490	0500	0506
0507	0509	0510	0515	0522
0523	0531	0532	0540	0546
0551	0552	0554	0556	0557
0564	0566	0569	0577	0578
0579	0580	0582	0583	0585
0586	0591	0597	0612	0616
0620	0621	0622	0623	0624
0625	0630	0632	0636	0637
0638	0643	0646	0671	0675
0678	0682	0683	0693	0708
0710	0711	0716	0719	0720
0721	0737	0741	0748	0769
0777	0781	0786	0794	0796
0798	0799	0816	0819	0821
0838	0839	0844		

## 37.39. Predatory fishes

0515

## 37.40. Progeny sex-ratio

0522 0523

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0506 0507

## 37.42. Reproduction (Production)

0579	0589	0670	0720	0816
0838				

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0817
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0691 0784 0831
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0599 0600 0601 0770
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0643 0739 0844
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0683 0687 0709
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| 1. Africa  |      |      |      |      | 1.13. Tanzania                         |  |  |  |  |
| 0483   | 0491 | 0499 | 0501 | 0502 | 0738                                   |  |  |  |  |
| 0511   | 0516 | 0521 | 0524 | 0525 |  |  |  |  |  |
| 0527   | 0552 | 0558 | 0559 | 0560 | 1.14. Uganda                           |  |  |  |  |
| 0561   | 0563 | 0579 | 0609 | 0614 | 0695                                   |  |  |  |  |
| 0632   | 0634 | 0638 | 0642 | 0643 |  |  |  |  |  |
| 0645   | 0647 | 0648 | 0663 | 0671 | 1.15. Volta Lake                       |  |  |  |  |
| 0672   | 0674 | 0675 | 0676 | 0679 | 0560 0752 0815                         |  |  |  |  |
| 0681   | 0694 | 0695 | 0696 | 0715 |  |  |  |  |  |
| 0716   | 0727 | 0738 | 0752 | 0757 | 1.16. West Africa                      |  |  |  |  |
| 0772   | 0775 | 0815 | 0822 | 0824 | 0614                                   |  |  |  |  |
| 0825   |      |      |      |      |  |  |  |  |  |
| 1.1. Ghana                                       |      |      |      |      | 1.17. Zaire                            |  |  |  |  |
| 0752   |      |      |      |      | 0579                                   |  |  |  |  |
| 1.2. Ivory Coast                                 |      |      |      |      | 1.18. Zimbabwe (formerly:<br>Rhodesia) |  |  |  |  |
| 0491   | 0499 | 0502 | 0524 | 0525 | 0527                                   |  |  |  |  |
| 0558   | 0559 | 0563 | 0632 | 0671 |  |  |  |  |  |
| 0672   | 0674 | 0676 | 0757 | 0772 | 2. Asia                                |  |  |  |  |
|  |      |      |      |      | 0565                                   |  |  |  |  |
| 1.3. Katanga                                     |      |      |      |      | 2.1. South East Asia                   |  |  |  |  |
| 0638   |      |      |      |      | 0635                                   |  |  |  |  |
| 1.4. Kenya                                       |      |      |      |      | 3. Bangladesh                          |  |  |  |  |
| 0511   | 0681 | 0696 | 0825 |      | 0562 0786                              |  |  |  |  |
| 1.5. Lake Albert (now: Lake Mobutu<br>Sese Seko) |      |      |      |      | 4. Brazil                              |  |  |  |  |
| 0526   | 0642 |      |      |      | 0554 0555 0556 0557 0736               |  |  |  |  |
|  |      |      |      |      | 0741                                   |  |  |  |  |
| 1.6. Lake Baringo                                |      |      |      |      | 5. China                               |  |  |  |  |
| 0681   |      |      |      |      | 0842                                   |  |  |  |  |
| 1.7. Lake Edward (now: Lake Idi<br>Amin Dada)    |      |      |      |      | 6. Colombia                            |  |  |  |  |
| 0521   | 0526 | 0642 |      |      | 0540 0737 0769                         |  |  |  |  |
| 1.8. Lake George                                 |      |      |      |      | 7. Costa Rica                          |  |  |  |  |
| 0521   |      |      |      |      | 0711                                   |  |  |  |  |
| 1.9. Lake Kainji                                 |      |      |      |      | 8. Cuba                                |  |  |  |  |
| 0516   | 0645 | 0647 | 0648 | 0679 | 0484 0775 0790                         |  |  |  |  |
| 0822   |      |      |      |      |  |  |  |  |  |
| 1.10. Lake Kivu                                  |      |      |      |      | 9. Egypt                               |  |  |  |  |
| 0526   | 0642 |      |      |      | 0481 0489 0496 0497 0515               |  |  |  |  |
|  |      |      |      |      | 0571 0628 0644 0666 0667               |  |  |  |  |
|  |      |      |      |      | 0668 0669 0680 0749 0767               |  |  |  |  |
|  |      |      |      |      | 0784                                   |  |  |  |  |
| 1.11. Lake Victoria                              |      |      |      |      | 9.1. Lake Borullus                     |  |  |  |  |
| 0511   | 0663 | 0694 | 0696 | 0727 | 0680                                   |  |  |  |  |
| 0775   | 0824 | 0825 |      |      |  |  |  |  |  |
| 1.12. Nigeria                                    |      |      |      |      | 9.2. Lake Nasser                       |  |  |  |  |
| 0483   | 0609 | 0645 | 0647 | 0648 | 0497 0644 0666 0667 0668               |  |  |  |  |
| 0679   |      |      |      |      | 0669 0767 0784                         |  |  |  |  |

- 9.3. Lake Nubia  
0667
10. Europe  
0712 0713 0753
11. Hong Kong  
0794
12. Indonesia  
0627
13. Israel  
0500 0512 0513 0535 0537  
0575 0613 0630 0641 0657  
0678 0693 0718 0719 0720  
0721 0725 0759 0779 0781  
0796 0818 0819 0820 0821  
0830 0838 0839 0844
- 13.1. Dead Sea  
0678 0693
- 13.2. Lake Kinneret  
0613
14. Japan  
0697 0698 0699
15. Madagascar  
0518 0553
- 15.1. Lake Itasy  
0553
16. Mexico  
0612 0682 0762 0768 0799
17. Paraguay  
0573
18. Philippines  
0494 0517 0541 0543 0544  
0545 0546 0547 0548 0549  
0550 0551 0580 0581 0582  
0583 0584 0585 0586 0587  
0588 0589 0590 0591 0592  
0593 0594 0595 0596 0597  
0598 0599 0600 0601 0602  
0603 0605 0611 0615 0616  
0617 0618 0619 0620 0621  
0622 0623 0624 0625 0636  
0637 0664 0742 0743 0744  
0761 0764 0770 0771 0773  
0834
19. South America  
0813
20. Sri Lanka  
0831
21. Sudan  
0487 0505
22. Thailand  
0514 0564 0566 0567 0568  
0569 0755
23. U.S.A.  
0482 0490 0506 0507 0508  
0509 0510 0522 0523 0539  
0542 0577 0578 0606 0607  
0608 0683 0684 0685 0686  
0687 0688 0689 0708 0709  
0710 0711 0732 0733 0734  
0776 0777 0798 0805 0823  
0826 0845
- 23.1. Alabama  
0490 0506 0507 0508 0509  
0510 0522 0523 0539 0683  
0684 0685 0686 0687 0688  
0689 0732 0733 0776 0777  
0798 0823
- 23.2. Florida  
0542 0826
- 23.3. Puerto Rico  
0482 0577 0578 0606 0607  
0608 0708 0709 0710

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|--|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|------|------|------|------|
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| 0339   | 0340  | 0341 | 0342 | 0343 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |      |      |      |      |
| 0344   | 0346  | 0347 | 0348 | 0350 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |      |      |      |      |
| 0351   | 0352  | 0353 | 0356 | 0358 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |      |      |      |      |
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| 0366   | 0368  | 0369 | 0370 | 0371 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |      |      |      |      |
| 0372   | 0373  | 0374 | 0375 | 0376 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |      |      |      |      |
| 0377   | 0378  | 0379 | 0381 | 0382 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |      |      |      |      |
| 0385   | 0386  | 0388 | 0389 | 0391 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |      |      |      |      |
| 0393   | 0394  | 0395 | 0397 | 0398 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |      |      |      |      |
| 0399   | 0400  | 0402 | 0404 | 0405 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |      |      |      |      |
| 0409   | 0411  | 0412 | 0413 | 0414 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |      |      |      |      |
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| 0362   | 0398  | 0402 | 0404 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |      |      |      |      |

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- 23.5.2. Feed formulation  
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- 23.5.3. Feed manufacture  
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- 23.5.4. Feed processing  
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- 23.5.5. Feeding ecology  
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- 23.5.6. Feeding rate  
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- 23.5.7. Feeding regimes  
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- 23.5.8. Feeds, toxins in  
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- 23.5.9. Feedstuffs analysis  
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- 23.6. Food  
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- 23.6.1. Food consumption  
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- 23.6.2. Food for man  
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- 23.6.3. Food preferences  
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- 23.6.4. Food web, fish  
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- 23.7. Growth  
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- 23.8. Heated effluents from a  
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- 23.9. Integrated fish farming  
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- 23.10. Intensive culture  
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- 23.11. Length  
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- 23.12. Man-made lakes  
0459 0464 0480 0497 0498  
0514 0534 0536 0539 0554  
0588
- 23.13. Metabolism  
0479
- 23.14. Mortality  
0524
- 23.15. Overcrowding  
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- 23.16. Poly-culture (Mixed-culture)  
0489 0564 0566 0567
- 23.17. Pond-culture  
0482 0488 0489 0505 0526  
0541 0551 0556 0562 0563  
0564 0565 0566 0567 0568  
0576 0578
- 23.18. Reproduction (Production)  
0524 0525
- 23.19. Reproductive biology  
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- 23.20. Reservoir fisheries  
0534 0589
- 23.21. Sewage effluents  
0517
- 23.22. Tank-culture  
0494
- 23.23. Weight  
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24. Ganglia  
0523
25. Gastric mucous inflammation  
0501
26. Glycolytic enzymes detecting  
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27. Haematological studies  
0484
28. Histological studies  
0484

29. Hydrobiology  
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30. Hydrology  
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31. Intestinal absorption  
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32. Intestine D-glucose  
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33. Introductions, on  
0529 0548 0551 0587 0589
34. Isoenzymes  
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35. Isozyme patterns  
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36. Jaws  
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37. Lactic dehydrogenase  
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38. Lateral-line  
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39. Life histories  
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41. Mineral requirements  
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42. Morphology, functional  
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43. Nerves  
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44. Nutrient requirements  
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45. Oxygen consumption  
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46. Phylogeny  
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47. Physiology  
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48. Predation  
0569
49. Protein
- 49.1. Protein requirements,  
qualitative  
0518
- 49.2. Protein requirements,  
quantitative  
0518
- 49.3. Protein sources  
0518
50. Retina
- 50.1. Visual pigments  
0460
51. Scales  
0468 0495 0571
52. Shallow lakes  
0546
53. Sport fishing  
0473
54. Systematic, Taxonomy, Identifi-  
cation keys  
0491 0528 0549 0581
55. Temperature (Effects of)  
0479 0483
56. Toxicity (Insecticides, etc.)
- 56.1. acute toxicity  
0484
- 56.2. molluscicide  
0484 0512
57. Ultrastructure  
0523
58. Vitamin requirements  
0518

G E O G R A P H I C     I N D E X

- |  |      |      |      |      |      |  |  |  |  |
|--|------|------|------|------|------|--|--|--|--|
| 1. Africa  |      |      |      |      |      |  |  |  |  |
|  | 0459 | 0464 | 0465 | 0467 | 0468 |  |  |  |  |
|  | 0469 | 0470 | 0472 | 0473 | 0474 |  |  |  |  |
|  | 0475 | 0476 | 0478 | 0479 | 0482 |  |  |  |  |
|  | 0492 | 0497 | 0498 | 0502 | 0504 |  |  |  |  |
|  | 0513 | 0514 | 0516 | 0517 | 0519 |  |  |  |  |
|  | 0524 | 0525 | 0527 | 0536 | 0537 |  |  |  |  |
|  | 0539 | 0544 | 0545 | 0553 | 0554 |  |  |  |  |
|  | 0557 | 0574 | 0575 | 0579 | 0580 |  |  |  |  |
|  | 0583 | 0584 | 0585 | 0588 | 0590 |  |  |  |  |
| 1.1. Congo/Zaire                                 |      |      |      |      |      |  |  |  |  |
|  | 0482 | 0557 | 0574 |      |      |  |  |  |  |
| 1.2. Gambia                                      |      |      |      |      |      |  |  |  |  |
|  | 0519 |      |      |      |      |  |  |  |  |
| 1.3. Gambia River                                |      |      |      |      |      |  |  |  |  |
|  | 0519 |      |      |      |      |  |  |  |  |
| 1.4. Kafue Floodplain                            |      |      |      |      |      |  |  |  |  |
|  | 0476 | 0524 |      |      |      |  |  |  |  |
| 1.5. Kafue River                                 |      |      |      |      |      |  |  |  |  |
|  | 0502 | 0584 | 0585 | 0590 |      |  |  |  |  |
| 1.6. Kainji Lake                                 |      |      |      |      |      |  |  |  |  |
|  | 0588 |      |      |      |      |  |  |  |  |
| 1.7. Katanga                                     |      |      |      |      |      |  |  |  |  |
|  | 0465 |      |      |      |      |  |  |  |  |
| 1.8. Lake Albert (now: Lake<br>Mobutu Sese Seko) |      |      |      |      |      |  |  |  |  |
|  | 0516 |      |      |      |      |  |  |  |  |
| 1.9. Lake Bangweulu                              |      |      |      |      |      |  |  |  |  |
|  | 0472 |      |      |      |      |  |  |  |  |
| 1.10. Lake Edward (now: Lake<br>Idi Amin Dada)   |      |      |      |      |      |  |  |  |  |
|  | 0516 |      |      |      |      |  |  |  |  |
| 1.11. Lake Kariba                                |      |      |      |      |      |  |  |  |  |
|  | 0464 | 0469 | 0470 | 0514 | 0544 |  |  |  |  |
| 1.12. Lake Kivu                                  |      |      |      |      |      |  |  |  |  |
|  | 0516 |      |      |      |      |  |  |  |  |
| 1.13. Lake McIlwaine                             |      |      |      |      |      |  |  |  |  |
|  | 0539 |      |      |      |      |  |  |  |  |
| 1.14. Lake Mweru                                 |      |      |      |      |      |  |  |  |  |
|  | 0472 |      |      |      |      |  |  |  |  |
| 1.15. Mocambique/Mossambica                      |      |      |      |      |      |  |  |  |  |
|  | 0579 |      |      |      |      |  |  |  |  |
| 1.16. Natal                                      |      |      |      |      |      |  |  |  |  |
|  | 0486 | 0487 | 0517 | 0527 |      |  |  |  |  |
| 1.17. Nigeria                                    |      |      |      |      |      |  |  |  |  |
|  | 0537 | 0583 |      |      |      |  |  |  |  |
| 1.18. Nyumba ya Mungu reservoir                  |      |      |      |      |      |  |  |  |  |
|  | 0497 |      |      |      |      |  |  |  |  |
| 1.19. Senegal                                    |      |      |      |      |      |  |  |  |  |
|  | 0474 |      |      |      |      |  |  |  |  |
| 1.20. Southern Africa                            |      |      |      |      |      |  |  |  |  |
|  | 0478 | 0506 |      |      |      |  |  |  |  |
| 1.21. Tanzania                                   |      |      |      |      |      |  |  |  |  |
|  | 0497 | 0553 |      |      |      |  |  |  |  |
| 1.22. Transvaal                                  |      |      |      |      |      |  |  |  |  |
|  | 0467 | 0468 |      |      |      |  |  |  |  |
| 1.23. Volta Lake                                 |      |      |      |      |      |  |  |  |  |
|  | 0459 | 0498 | 0554 |      |      |  |  |  |  |
| 1.24. West-Africa                                |      |      |      |      |      |  |  |  |  |
|  | 0475 |      |      |      |      |  |  |  |  |
| 1.25. Zambezi                                    |      |      |      |      |      |  |  |  |  |
|  | 0545 |      |      |      |      |  |  |  |  |
| 1.26. Zambia                                     |      |      |      |      |      |  |  |  |  |
|  | 0464 | 0476 | 0502 | 0536 | 0584 |  |  |  |  |
|  | 0585 | 0590 |      |      |      |  |  |  |  |
| 1.27. Zimbabwe (formerly: Rho-<br>desia)         |      |      |      |      |      |  |  |  |  |
|  | 0470 | 0479 | 0525 | 0539 | 0580 |  |  |  |  |
| 1.28. Zululand                                   |      |      |      |      |      |  |  |  |  |
|  | 0579 |      |      |      |      |  |  |  |  |
| 2. Bolivia                                       |      |      |      |      |      |  |  |  |  |
|  | 0462 |      |      |      |      |  |  |  |  |
| 3. Brazil  |      |      |      |      |      |  |  |  |  |
|  | 0461 | 0463 | 0481 | 0493 | 0494 |  |  |  |  |
|  | 0496 | 0508 | 0509 | 0515 | 0533 |  |  |  |  |
|  | 0548 | 0549 | 0550 | 0556 | 0577 |  |  |  |  |
|  | 0586 |      |      |      |      |  |  |  |  |
| 4. Colombia                                      |      |      |      |      |      |  |  |  |  |
|  | 0488 | 0489 | 0541 | 0551 | 0562 |  |  |  |  |
|  | 0563 | 0564 | 0565 | 0566 | 0567 |  |  |  |  |
|  | 0568 |      |      |      |      |  |  |  |  |

5. Europa
- 5.1. Belgium  
0542
6. Madagascar  
0526 0546
7. Malaysia  
0559
8. Mexico  
0560 0578
9. Paraguay  
0503
10. Peru  
0587 0591
11. Portuguese Guinea  
0505
12. Sri Lanka  
0480 0589
13. U.S.A.  
0529 0576
- 13.1. Alabama  
0576
- 13.2. South America  
0582

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|                    | 0456 | 0457 | 0468 | 0473 | 0476 |  |  |  |  |
|                    | 0477 | 0485 | 0491 | 0492 | 0496 |  |  |  |  |
|                    | 0502 | 0504 | 0509 | 0513 | 0514 |  |  |  |  |
|                    | 0516 | 0523 | 0526 | 0540 | 0541 |  |  |  |  |
|                    | 0551 | 0552 | 0553 |      |      |  |  |  |  |
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|                    | 0473 |      |      |      |      |  |  |  |  |
| 1.2. East Africa   |      |      |      |      |      |  |  |  |  |
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| 1.3. Ghana         |      |      |      |      |      |  |  |  |  |
|                    | 0435 | 0514 |      |      |      |  |  |  |  |
| 1.4. Ivory Coast   |      |      |      |      |      |  |  |  |  |
|                    | 0491 | 0516 |      |      |      |  |  |  |  |
| 1.5. Kainji Lake   |      |      |      |      |      |  |  |  |  |
|                    | 0449 | 0476 | 0477 | 0492 | 0551 |  |  |  |  |
| 1.6. Kenya         |      |      |      |      |      |  |  |  |  |
|                    | 0552 |      |      |      |      |  |  |  |  |
| 1.7. Lake Victoria |      |      |      |      |      |  |  |  |  |
|                    | 0485 | 0502 | 0523 | 0526 | 0552 |  |  |  |  |
|                    | 0553 |      |      |      |      |  |  |  |  |
| 1.8. Nigeria       |      |      |      |      |      |  |  |  |  |
|                    | 0476 | 0492 | 0509 | 0540 | 0541 |  |  |  |  |
| 1.9. Uganda        |      |      |      |      |      |  |  |  |  |
|                    | 0496 | 0553 |      |      |      |  |  |  |  |
| 1.10. Volta Lake   |      |      |      |      |      |  |  |  |  |
|                    | 0438 | 0457 | 0513 | 0514 |      |  |  |  |  |
| 2. Algeria         |      |      |      |      |      |  |  |  |  |
|                    | 0443 |      |      |      |      |  |  |  |  |
| 3. Egypt           |      |      |      |      |      |  |  |  |  |
|                    | 0436 | 0437 | 0475 | 0493 | 0511 |  |  |  |  |
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| 3.2. Lake Quarun   |      |      |      |      |      |  |  |  |  |
|                    | 0437 | 0475 |      |      |      |  |  |  |  |
| 4. England         |      |      |      |      |      |  |  |  |  |
|                    | 0554 |      |      |      |      |  |  |  |  |
| 5. Europe          |      |      |      |      |      |  |  |  |  |
|                    | 0500 |      |      |      |      |  |  |  |  |
| 6. Israel          |      |      |      |      |      |  |  |  |  |
|                    | 0440 | 0447 | 0461 | 0467 | 0486 |  |  |  |  |
|                    | 0529 | 0530 | 0531 |      |      |  |  |  |  |
| 6.1. Lake Kinneret |      |      |      |      |      |  |  |  |  |
|                    | 0467 | 0486 | 0529 | 0530 |      |  |  |  |  |
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|                    | 0548 |      |      |      |      |  |  |  |  |
| 9. Madagascar      |      |      |      |      |      |  |  |  |  |
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| 10. Malaysia       |      |      |      |      |      |  |  |  |  |
|                    | 0518 |      |      |      |      |  |  |  |  |
| 11. Maroc          |      |      |      |      |      |  |  |  |  |
|                    | 0512 |      |      |      |      |  |  |  |  |
| 12. Philippines    |      |      |      |      |      |  |  |  |  |
|                    | 0463 | 0464 | 0465 | 0466 | 0469 |  |  |  |  |
| 13. Sudan          |      |      |      |      |      |  |  |  |  |
|                    | 0454 | 0522 |      |      |      |  |  |  |  |
| 14. Syria          |      |      |      |      |      |  |  |  |  |
|                    | 0484 |      |      |      |      |  |  |  |  |
| 15. U.S.A.         |      |      |      |      |      |  |  |  |  |
|                    | 0450 | 0451 | 0472 | 0474 | 0487 |  |  |  |  |
|                    | 0488 | 0489 | 0501 | 0524 | 0533 |  |  |  |  |
|                    | 0534 | 0539 | 0542 | 0550 |      |  |  |  |  |
| 15.1. Arizona      |      |      |      |      |      |  |  |  |  |
|                    | 0542 |      |      |      |      |  |  |  |  |
| 15.2. California   |      |      |      |      |      |  |  |  |  |
|                    | 0450 | 0451 | 0472 | 0488 | 0489 |  |  |  |  |
|                    | 0501 | 0524 | 0533 |      |      |  |  |  |  |
| 15.3. Florida      |      |      |      |      |      |  |  |  |  |
|                    | 0487 | 0539 |      |      |      |  |  |  |  |