

Fisheries and Marine Service  
Technical Report 743

October 1977

FACTORS AFFECTING DEPOSITION, DEVELOPMENT, AND SURVIVAL OF  
SALMONID EGGS AND ALEVINS. A BIBLIOGRAPHY, 1965-1975.

by

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Fisheries and Marine Services  
Technical Report 743

October 1977

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Cat. no. Fs 97-6/743 ISSN 0701-7626

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ABSTRACT

Alderdice, D. F., R. A. Bams, and F. P. J. Velsen, 1977. Factors affecting deposition, development, and survival of salmonid eggs and alevins. A bibliography, 1965-1975. Fish. Mar. Serv. Tech. Rep. 743: 276 p.

Sources are given of information relating to deposition, development, and survival of salmonid eggs and alevins. The bibliography contains 1695 separate references and may be entered through the author, species and developmental stage, or subject indices provided.

RÉSUMÉ

Alderdice, D. F., R. A. Bams, and F. P. J. Velsen, 1977. Factors affecting deposition, development, and survival of salmonid eggs and alevins. A bibliography, 1965-1975. Fish. Mar. Serv. Tech. Rep. 743: 276 p.

Le présent travail est une bibliographie des travaux relatifs à la ponte, à la croissance et à la survie des oeufs et des alevins de Salmonidés. Il renferme 1695 références qui peuvent être classées par auteur, espèces et stade de croissance ou à l'aide de l'index des matières fourni.



## INTRODUCTION

This bibliography is the result of an effort to organize a significant part of the available literature regarding physical, chemical and biological factors that influence egg deposition, and development and survival of eggs and alevins of Pacific salmon (*Oncorhynchus* spp.). Very early in the search it was apparent that much detailed information is available in original papers, but that few comprehensive reviews have been undertaken to organize the material. It was evident also that useful correlative material would be found in technical papers on other salmonid and non-salmonid species. Accordingly, the search was expanded to include these further sources of pertinent information. Furthermore, it was obvious that not all literature on the subject could be surveyed at one time. This bibliography covers the period beginning in 1965, and ends with material available in the library of the Pacific Biological Station in January 1976.

An initial overview of the subject and a preliminary format were obtained by consulting Foerster (1968) for the sockeye (*O. nerka*), and Bakkala (1970) for the chum salmon (*O. keta*). A comprehensive review of the biology, reproduction and development of the Pacific salmon (Smirnov 1975) became available as the search was being completed.

In original form, the information gathered from each paper examined was compiled for computer analysis in the following format:

Stimulus/Developmental Stage/Species/Response/Developmental Stage
(subject) (acted upon) (object) (affected)

This relationship could not be maintained in the final, printed format if reasonable limitations on length of the printout were to be met. Accordingly, the stimulus and response fields were collapsed into a single subject index without reference to cause or effect. Similarly, the two developmental stage fields were combined so that the resulting index includes those stages acted upon directly as well as those stages subsequently affected by the stimulus. However, the original coded data are stored on magnetic tape, filed at the Pacific Biological Station, Nanaimo. The tape can easily be searched to recover references dealing with any five-field relationship in the original format (program:WINDOW).

In final form, the bibliography consists of the following four sections:

- (1) Numerical Index. All included references are listed numerically in a consecutive series. The reference numbers assigned each article refer in general only to the order in which the references were processed.
- (2) Author Index. The alphabetical listing provides the names of all authors and co-authors, and the reference numbers of the articles with which they are associated in the Numerical Index. The spelling of authors' names (Factorovich, K. A.; Factorowitch, K. A.); and use of initials (Bilton, H. T.; Bilton, T.) sometimes



are not consistent from paper to paper. No attempt has been made to resolve such differences, and authors' names are recorded as they were obtained from the original paper or from a translation of the original.

- (3) Species - Developmental Stage Index. Species names sought were those compiled after consulting Berg (1948), Nikol'skii (1954), Lindberg and Legeza (1965), Bailey (1970), Hart (1973) and Scott and Crossman (1973). Following each species heading in this index is a series of developmental stage sub-headings. Listed with the latter are the reference numbers of pertinent articles in the Numerical Index.
- (4) Subject Index. This index initially was patterned after the format used in the salmon literature compilations of Maxfield (1967) and Holmberg and Bush (1969). Ultimately, the specific nature of the current enquiry resulted in considerable divergence from that format. The index adopted here attempts a logical classification of entities associated with egg deposition and egg and alevin development and survival. These entities are set out in three groups to facilitate use: (a) mediating environmental factors; (b) biological effects, functions, and responses; and (c) methods and techniques for measuring or evaluating those factors or functions. Following each of the subject headings under these divisions are listed the papers in the Numerical Index providing information on those subjects.

The Classification Systems, upon which the indices are based, are shown on the following pages. Code numbers, used in sorting and compiling the data, are shown for each Classification System. For simplification, the code numbers have been omitted in the indices with the exception of the Subject Index.

Subjective decisions frequently were required when coding species and developmental stages. The entry "Other Fishes" in the Species Classification System refers to papers examining pertinent biological or environmental principles, but without particular reference to species. Similarly, a "General" developmental stage category is employed, where a reference considers events in the life cycle without specific regard to developmental stages.

Following the Classification Systems, the indices themselves are presented, in the following order:

Numerical Index	(white)
Author Index	(green)
Species-Developmental Stage Index	(pink)
Subject Index	(yellow)



For easy reference, the indices have been colour-keyed as indicated. Several indices may be used simultaneously. For example, if information is sought on development (Subject Index entry 218) of coho salmon eggs (Species-Developmental Stage Index entry O. kisutch; eggs, fertilized), comparison of the numerous reference numbers in each of the two categories shows that only four references are common to both lists -- numbers 119, 277, 958 and 1132.

The authors would appreciate learning of errors or omissions that readers may discover in this bibliography. In particular the subject coding system, designed for this bibliography, might be improved substantially on the basis of actual use. If the system should prove to fill a general need, subsequent editions would be considered to cover both earlier and later periods.

#### ACKNOWLEDGEMENTS

The searching and cataloguing of references was begun by M. Bell and C. Gibson, and completed by A. Breen and I. Fawcett. We are grateful to A. Sandnes, and to J. A. Thomson and the Pacific Biological Station computer staff for programming and processing the information for final printout of the indices.

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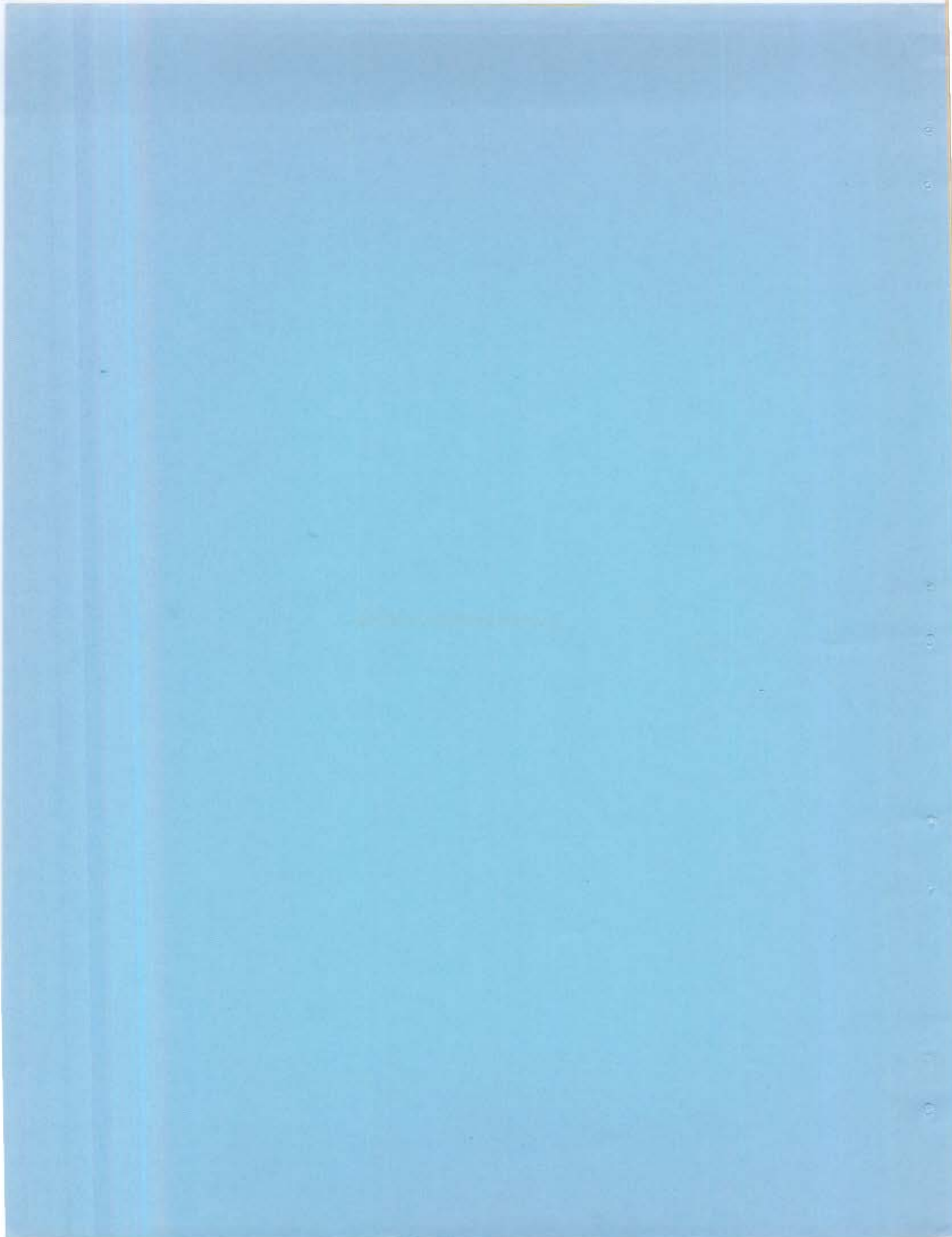
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CLASSIFICATION SYSTEMS





SPECIES CLASSIFICATION

		<u>CODE</u>
Salmonids (general)		01
<u>Oncorhynchus</u> (general)		10
<u>O. gorbuscha</u>	- <u>pink salmon</u> (humpback; saumon rose [F*])	11
<u>O. keta</u>	- <u>chum salmon</u> (dog; keta [J]; saumon keta [F])	12
<u>O. kisutch</u>	- <u>coho salmon</u> (silver; gin- masu [J])	13
<u>O. masu</u>	- <u>masu salmon</u> (cherry salmon; masou [J])	14
<u>O. nerka</u>	- <u>sockeye salmon</u> (red, blueback kokanee, kikininee, little red fish, Kennerly's salmon; beni masu [J]; saumon nerka [F])	15
<u>O. tshawytscha</u>	- <u>chinook salmon</u> (spring, king, tyee, quinnat; masunosuke [J])	16
Other		17
<u>Salmo</u> (general)		20
<u>S. aguabonita</u>	- <u>golden trout</u> (=S. roosevelti, S. whitei, S. rosei)	21
<u>S. clarki</u>	- <u>cutthroat trout</u> (coastal cut- throat, yellowstone cutthroat, red-throated trout, Clark's trout, lake trout, sea trout; truite fardée [F]) (=S. kwisi)	22
<u>S. gairdneri</u>	- <u>rainbow, steelhead</u> (Kamloops trout, silver trout; truite arc- en-ciel [F]; Regenbogenforelle [G]) (=S. irideus)	23
<u>S. gilae</u>	- <u>gila trout</u>	24
<u>S. salar</u>	- <u>Atlantic salmon</u> (ounaniche, sebago; saumon atlantique [F])	25

<u>S. trutta</u>	- <u>brown trout</u> (salmon trout, sea trout; Meerforelle [G]; Black Sea, Caspian or Aral trout, labrax [R]; truite brun [F]) (=S. <u>fario</u> )	26
Other <u>Salmo</u> , including		27
<u>S. ischchan</u>	- Sevan trout (ishkhan, gegarkuni, bodzhak, summer bakhtak, alabalakh [R])	
<u>S. peushinensis</u>	- Kamchatka salmon, Kamchatka trout (R)	
<u>S. mykiss</u>	- mykiss (Kamchatka trout, mikizha [R])	
<u>S. letnica</u>	- big ohrid trout (R)	
<u>Salvelinus</u> (general)		30
<u>S. alpinus</u>	- <u>arctic char</u> (alpine char, Hearnés salmon, sea trout, Quebec red trout, Sunappe trout; devatchan [R]; omble chevalier [F])	31
<u>S. fontinalis</u>	- <u>brook trout</u> (speckled trout, aurora trout, speckled char, breac, square-tail, red trout, salmon trout; ouble de fontaine, truite [F])	32
<u>S. malma</u>	- <u>Dolly Varden</u> (Dolly Varden trout or char) (=S. <u>alpinus malma</u> )	33
<u>S. namaycush</u>	- <u>lake trout</u> (mackinaw trout; touladi [F]) (=Cristivomer <u>namaycush</u> )	34
<u>S. fontinalis</u> × <u>S. namaycush</u>	- <u>splake</u>	35
Other <u>Salvelinus</u> , including		36
<u>S. andriashevi</u>	- lake char, Chukchi char (R)	
<u>S. boganidae</u>	- lake char, Lake Boganid char (R)	
<u>S. drajagini</u>	- Dryagin char (R)	
<u>S. jacuticus</u>	- lake char, Yakut char (R)	
<u>S. lepechini</u>	- lake char, (Karelia char, ludozhnaya, kryazheraya, yamnaya [R])	
<u>S. leucomalnis</u>	- Sakhalin char (R)	



<u>S. neiva</u>	- lake char, neiva char (R)
<u>S. salvelinus</u>	- lake char (R)
<u>S. tolmachoffi</u>	- lake char, Lake Yesei char (R)

Salmonid hybrids other than (35)	40
Other fishes	50

\*(F - French, G - German, J - Japanese, R - Russian)

DEVELOPMENTAL STAGE CLASSIFICATION

	<u>CODE</u>
<u>General</u>	60
<u>Germinal tissue</u> (gametogenesis)	61
<u>Eggs</u> (ripe, unfertilized)	62
<u>Sperm</u> (ripe)	63
<u>Eggs</u> (at time of fertilization)	64
<u>Eggs, fertilized</u> (from fertilization to but not incl. hatching)	65
<u>Eggs, hatching</u> (at time of hatching)	66
<u>Larvae or alevins</u> (newly hatched larvae to but not incl. emergence from gravel)	67
<u>Larvae or alevins</u> (at time of emergence)	68
<u>Fry, migrating</u> (to their arrival at nursery area in fresh or salt water)	69
<u>Fingerlings</u> (nursery fry to but not incl. smolts)	70
<u>Smolts</u> (at time of smolting, migration; to saltwater entry)	71
<u>Subadults, fresh water</u> (yearlings and older)	72
<u>Subadults, salt water</u> (yearlings and older)	73
<u>Freshwater adults, maturing</u> (migrating and/or sexually maturing)	74
<u>Saltwater adults, maturing</u> (migrating and/or sexually maturing)	75
<u>Adults, spawning</u> (sexually mature, and/or on spawning grounds)	76
<u>Adults, postspawning</u> (moribund, dead, spent, non-feeding)	77

SUBJECT CLASSIFICATION

<u>Part 1 - Mediating factors, environmental</u>		<u>CODE</u>
<u>Physical factors</u>	<u>Physical factors (general)</u>	001
Water	<u>Discharge</u> (flow regimes, fluctuations)	010
	<u>Direction of flow</u>	011
	<u>Inclusions</u> (turbidity, suspended solids, colour)	012
Substrate	<u>Characteristics</u> (size, composition, texture, depth, distribution of medium)	020
	<u>Behaviour</u> (sorting, scouring, movement)	021
	<u>Fines, inorganic</u> (silt, sand, sediment, settled solids)	022
	<u>Fines, organic</u> (particulates, wood and pulp fibre, other)	023
Water-substrate	<u>Water-substrate interactions</u> (water velocity, head, slope, gradient; permeability, porosity, apparent velocity in gravel)	030
Electromagnetic energy	<u>Visible light</u> (intensity, wavelength or colour, light gradients)	040
	<u>Non-visible radiation</u> (IR, UV, X-radiation; $\alpha$ , $\beta$ , $\gamma$ radiation, radionuclides)	041
	<u>Electricity</u> (fields, AC or DC; shocking)	042
	<u>Magnetism</u>	043
	<u>Gravity</u> (incl. centrifugal force)	044
Temperature	<u>Temperature</u> (levels, regimes)	050
	<u>Ice formation</u> (frazzle, anchor ice)	051



Pressure	<u>Pressure</u> (hydrostatic, barometric)	060
	<u>Pressure, mechanical</u> (shock, vibration, sound waves, bubbles)	061
	<u>Pressure and supersaturation</u> (oxygen, nitrogen, other gases)	062
	<u>Pressure, osmotic</u>	063
Topography	(Cover, substrate, banks, plants, variations in depth)	070
<u>Chemical factors</u>	<u>Chemical factors</u> (general)	100
Properties of water	<u>Dissolved oxygen</u> (levels and variations)	110
	<u>pH, CO<sub>2</sub>, hardness</u> (soft, hard waters; humic acid, brown waters)	111
	<u>Nitrogen compounds</u> NH <sub>3</sub> , NO <sub>2</sub> , NO <sub>3</sub> , urea (origin, excretion, detoxication, removal, permeability, effects)	112
	<u>Cations</u> (including Mg <sup>++</sup> , Ca <sup>++</sup> in environment and tissues)	113
	<u>Anions</u> (including phosphates, sulphates, silicates in environment and tissues)	114
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	<u>Surfactants</u> (detergents, surface active compounds, syndets)	132
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Drugs, special chemicals	<u>Prophylactics, drugs</u>	140
	<u>Anaesthetics, tranquilizers</u>	141
	<u>Olfactory stimulants</u> (attractants, repellants, imprinters)	142
Chemical tags, marks	<u>Chemical tags, marks</u> (assimilated compounds, rare earths, other elements)	150

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	<u>Geographic distribution, geographic origin</u>	211
	<u>Morphometrics, meristics</u> (size, shape, colour, scales, gill rakers, vertebrae, growth rates) (see 213)	212
	<u>Size</u> (descriptive only) (see 212)	213
	<u>Age</u> (age distribution)	214
	<u>Biochemical composition</u> (fat, protein, carbohydrate, water content) (see 215)	215
	<u>Stock identification</u> (myogen, blood, protein, minerals, scales, otoliths, tags internal and external)	216
	<u>Anatomy, morphology</u> (descriptive only, incl. relations between structure and function)	217
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	(incl. evolution, phylogeny, plasticity, diversity)		
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	<u>Age of maturity</u> (incl. precocious males, "jacks")	232	
	<u>Genes, chromosomes</u> (counts, differences)	233	
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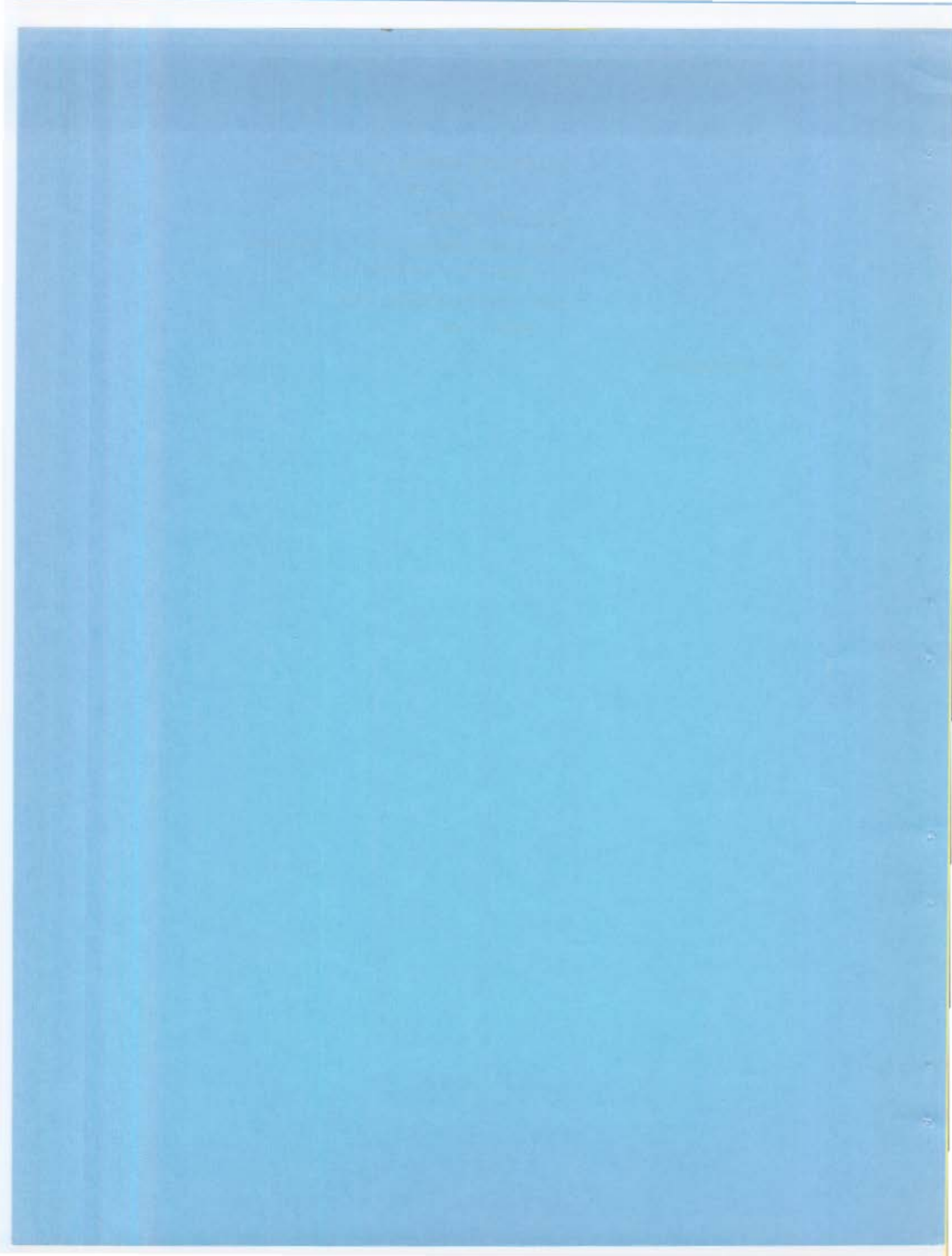
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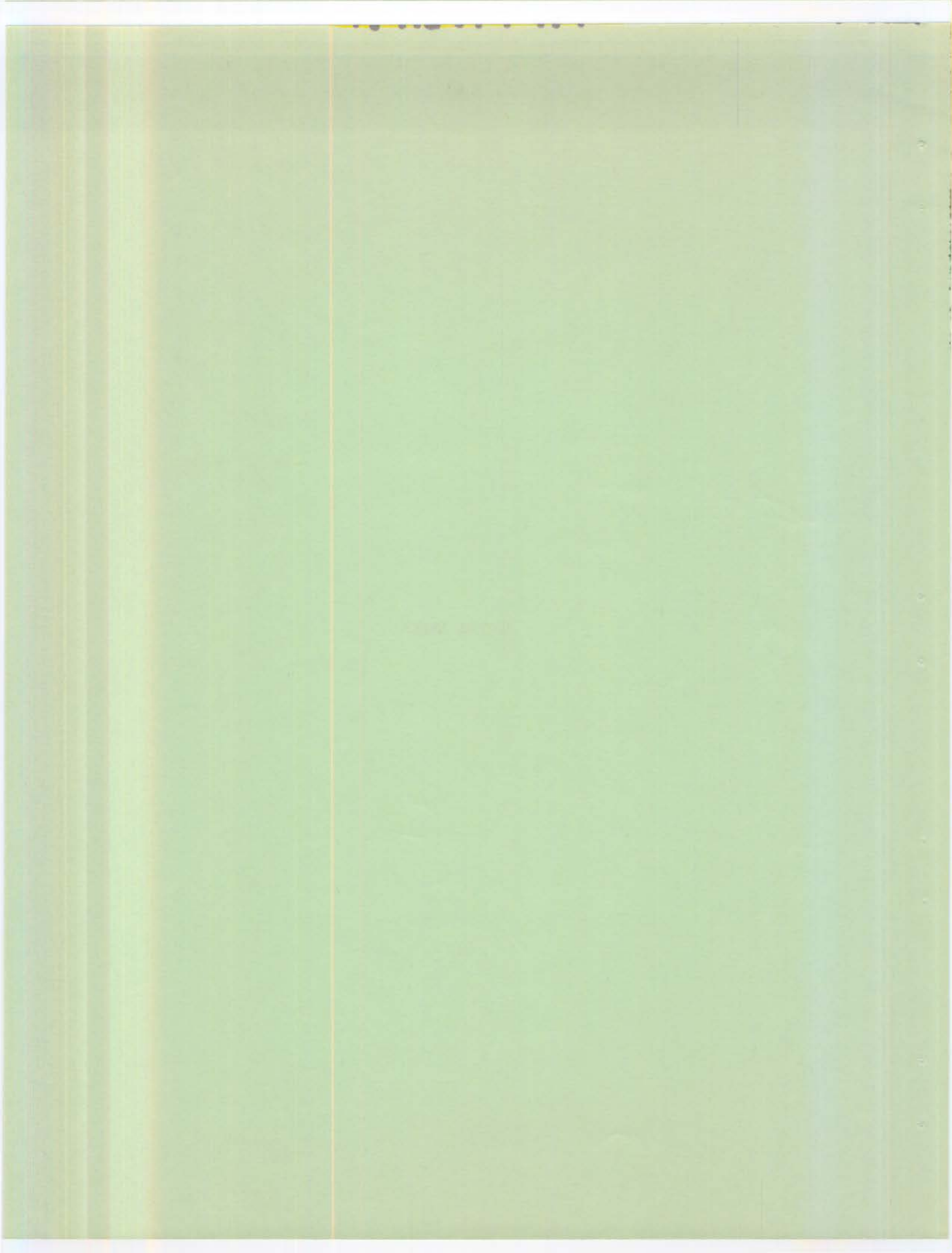
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BECK,MB	324



A U T H O R I N D E X

A U T H O R	REFERENCE NUMBERS
BECKER, CD	399
BEDELL, G	527
BEHNKE, RJ	252 336 392 499
BEININGEN, KT	509 1297
BEL' MAKOV, VS	148
BELCHEVA, R	1653
BELL, GR	80 242 828
BELOVA, AV	143 1596
BELYAEVA, VN	1616
BEN'KA, KI	1459
BENESCH, R	1086
BENOIT, DA	257 287 360
BENOIT, RF	419
BENSON, AA	786
BERDYSHEV, GD	1035 1465
BERG, LS	173
BERG, M	1592
BERGMAN, HL	356
BERLIN, JD	1185
BERST, AH	225 302 1325 1362
BERTMAR, G	1298
BEVAN, DE	608 610
BIDGOOD, B	389
BIDGOOD, BF	302 376
BIENIARZ, K	661 1216
BILLARD, R	866 1119 1662
BILTON, HT	260 441 760 773 797 803 815 901 902 905 909 912 913 917 920 925 1599
BILTON, T	881 1391
BIRMAN, IB	1427
BISHOP, DM	207
BJORNN, TC	589 1280 1667 1668 1669 1670 1671 1672
BLACK, EC	430 1523 1533

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A U T H O R	REFERENCE NUMBERS
BLACKETT, RF	228 407 418 1023 1383
BLAIR, AA	1354 1448
BLANC, JM	231
BLAXTER, JHS	1529
BLINOV, VV	160 171
BLOOMFIELD, RA	1148
BOND, CE	613
BONHAM, K	253 424
BOOKE, HE	406
BOOTH, DE	1275
BOSE, RJ	1153
BOSSERT, WH	1694
BOUCK, GR	402 412
BOULEKBACHE, H	670 677 1166
BOWEN, JT	524
BOYER, RL	568
BRADFORD, A	1556
BRANNON, EL	363 647 1141
BRAUHN, JL	574
BRAUM, E	83
BREDER, CM	1243
BRETON, B	1662
BRETT, JR	944 1081 1108 1127 1356
BRIUZGIN, VL	51
BROUGHTON, JH	508 683 720
BROWN, CJD	755
BROWN, DA	971
BROWN, RF	78
BROWN, VM	787
BRUCE, PG	1685
BRUNGS, WA	511 591 592
BRYAN, C	870
BRYNILDSON, OM	332 1558



A U T H O R I N D E X

A U T H O R	REFERENCE NUMBERS
BUDD, JC	1361
BUKHANEVICH, IB	197
BULATOVICH, MA	1459
BULGAKOVA, GI	176
BULKLEY, RV	295
BULL, CJ	1082
BULLOCK, GL	355 449
BURCK, WA	1417
BURDICK, GE	1344 1406
BURGNER, RL	337 622
BURNETT, RM	1348
BURNS, DC	748
BURNS, JW	245 267 739 741
BURROWS, RE	525 668 955 965
BURTON, DT	346
BUSHUYEV, VP	1495
BUSS, K	570 1288 1395
BUSTARD, DR	900 1069 1070
BUXTON, GA	620
BUYENKO, VM	1431
BYRNE, JE	461 463 1281
CAIRNS, J	248 346
CALAPRICE, JR	265 354 772 781 1620
CALDERON, EG	1538
CAMERON, WM	885 888
CAMPBELL, JS	1307
CANADA DEPARTMENT OF ENVIRONMENT	74
CARLIN, B	97
CARLINE, RF	332
CARLSON, AR	297 371 546 597
CARLSON, CA	331
CARLSON, CP	449
CARPENTER, MR	1197
CARPENTER, SJ	497

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A U T H O R	REFERENCE NUMBERS
CARPENTIER, M	1119
CARSON, WG	886 904 908 1393
CARSON, WV	904 908
CARTER, WM	1171
CASTELLANI, LC	1111
CAULFIELD, W	456
CEDARHOLM, CJ	42
CHAMBERS, VC	483
CHANCONIE, M	1238
CHAPMAN, DW	229 328 385 494 673 1674
CHASE, DL	543
CHEN, TR	426 471
CHENOWETH, HH	1135
CHERNYAVSKII, VI	1073
CHILD, AR	788
CHOE, TS	1222
CHRISTIE, WJ	757
CHUDOVA, ZI	124
CLAIRE, EW	416 584 1664
CLARKE, RM	1380
CLARKE, WC	495
CLARY, JR	560
CLAYTON, JG	545
CLINE, TF	561
COBURN, A	306
COBURN, AS	760 802 806
COLBY, D	1406
COLE, H	1556
COLGROVE, GS	727
COLLINS, GB	457
COLLINS, JJ	239 1066
COLLINS, MD	628
COLLIS, D	355
COMBS, BD	439 523 525



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A U T H O R	REFERENCE NUMBERS
CONDIE, RM	417
CONOVER, KR	1304
CONRAD, JF	435
CONTE, FP	1224 1226
COOPER, AC	725 876
COOPER, EL	436 1440 1573
COOPER, JC	795 796
COPP, DH	679
COPPER, CH	438
CORDONE, AJ	732 734 735 736 777 1295
COREY, S	379
CORL, KG	1395
CORLEY, DR	589
CORMACK, RM	858
COSTON, LC	872
COUPE, R	677
CRADDOCK, DR	589
CRAIG, P	1363
CROSSMAN, EJ	751
CROUCH, DE	1342
CROZIER, GF	478 786
CRUEA, DD	213 533
CUERRIER, JP	1617
CUINAT, R	1115 1122 1123 1124
CUNNINGHAM, T	1393
CURTIS, LD	563
CUSHING, DH	874 945 1273
CUSHING, JE	781
CYKOWSKA, C	1343 1610
CZECZUGA, B	666
DACRE, JC	1372
DAHLBERG, ML	248 1199 1409
DANDY, JWT	836
DANGEL, JR	45 1603

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A U T H O R	REFERENCE NUMBERS
DAS, BC	421
DAVIS, AS	22 440
DAVIS, CW	571
DAVIS, JC	1065 1680
DAVIS, RM	259 501
DAVIS, WE	572
DAVIS, WS	702
DAVISSON, MT	1262
DAWLEY, EM	605
DAWSON, RR	358
DAY, DE	1552
DAYKIN, PN	329
DE CEW, MG	348
DE ROCHE, SE	530
DE SILVA, CD	82
DE VLAMING, VL	832
DEAN, HJ	1344 1406
DEAN, JM	1185
DEFTOS, LJ	679
DEGOBBIS, D	969
DEGURSE, PE	1558
DEJOURS, P	678
DELACEY, AC	394
DENNISON, BA	542
DEPARTMENT OF FISHERIES	1355 1357
DERZHAVIN, AN	96
DESERRES, L	852
DEVILLERS, C	43 677 1166 1238
DEVOOYS, CGN	1012
DICKIE, LM	1447
DICKSON, FV	65
DICOSTANZO, CJ	622
DILL, LM	472 481 536 862 1479
	1628
DILL, PA	869 1149



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A U T H O R	REFERENCE NUMBERS
DILWORTH, CL	1520
DIMCHEVA-GROZDANOVA, L	1653
DIZON, AE	612 614 796
DLUGOSZ, M	1206
DMITRIEVA, NG	1044
DODES, LM	1183
DODGE, OP	223
DOGEL, VA	949
DOI, T	1204
DONALDSON, EM	368 490 491 492 819 835 840
DONALDSON, JR	451
DONALDSON, LR	253 424 1022 1367
DOROFEVA, EA	1403
DOROSHEV, SI	1272
DOUDOROFF, P	514 1151
DOVING, KB	1249 1253
DOWNEY, G	44
DOWNEY, GD	21
DOWNING, AL	1524
DRUCKER, B	505 863
DRUMMOND, RA	404
DRYAGIN, PA	101
DRYER, WR	1433
DUBOIS, A	1172
DUCHARME, LJA	719
DUFFY, JR	879
DUMAS, J	1115
DUMAS, RF	303
DUNCAN, TO	9
DUNSON, WA	1184
DURAND, G	1639
DURKIN, JT	626
DURLEY, KE	26
DVININ, PA	933

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A U T H O R	REFERENCE NUMBERS
DYE, HM	819 840
DYSART, DK	246
EALES, JG	1520
EATON, MF	263 1093 1097 1102
EBEL, WJ	509 605 615 624 718
EBELING, AW	426
ECKROAT, LR	216
ECLANCHER, B	678
EDDY, FB	1043
EDFELT, LB	20 36 263
EDMUNDSON, E	673
EDSALL, TA	381 502
EGOROVA, TV	190 1574 1587
EGUCHI, H	127 133
EINSELE, W	1609
EISAN, JS	1227
ELLER, LL	1644
ELLIOTT, GV	744
ELLIOTT, JM	431
ELLIOTT, JW	595
ELLIS, DV	401 916 1421
ELLIS, RJ	510 622 709 710 843
ELSER, AA	590
ELSON, M	75 450
ELSON, MS	1685
ELSON, PF	345 362 759 810 879
	960 1416 1566
EMADI, H	211
EMERSON, K	1682
ENGER, PS	1249
ENYUTINA, RI	1001
ERKKILA, LF	1433
ESCHMEYER, PH	387
EUR INLAND FISH ADVIS COMM	1103 1695



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A U T H O R	REFERENCE NUMBERS
EVANS, DR	604
EVEREST, FE	673
EVEREST, FH	494 1546 1676
EVERHART, WH	405 411
EVTYUKHOVA, BK	1544
EVZEROV, AV	179 187 1073
FAGERLUND, UHM	490 491 1077 1449
FAGERSTROM, A	1632
FAHMY, FK	844
FAKTOROVICH, KA	1025
FAKTOROWITSCH, KA	174
FAST, AW	1296
FAUSTOV, VS	554
FEDOROVA, GV	1504 1613
FENDERSON, OC	259 1197
FERNHOLM, B	692
FESSLER, J	1224
FESSLER, JL	321 1226 1661
FINGER, G	1087
FISH, GR	409
FISHER, KC	1415
FISHERIES AGENCY OF JAPAN	154
FISK, DM	413
FITZMAURICE, P	1321
FLAIN, M	1301
FLUX, JEC	309
FOERSTER, RE	210 1080
FONTAINE, M	1581
FORESTER, J	596
FORREST, A	788
FORRESTER, CR	378 1420
FORSTER, RP	1133
FORSYTHE, MG	758 764
FOWLER, LG	559 668
FRANK, S	1522

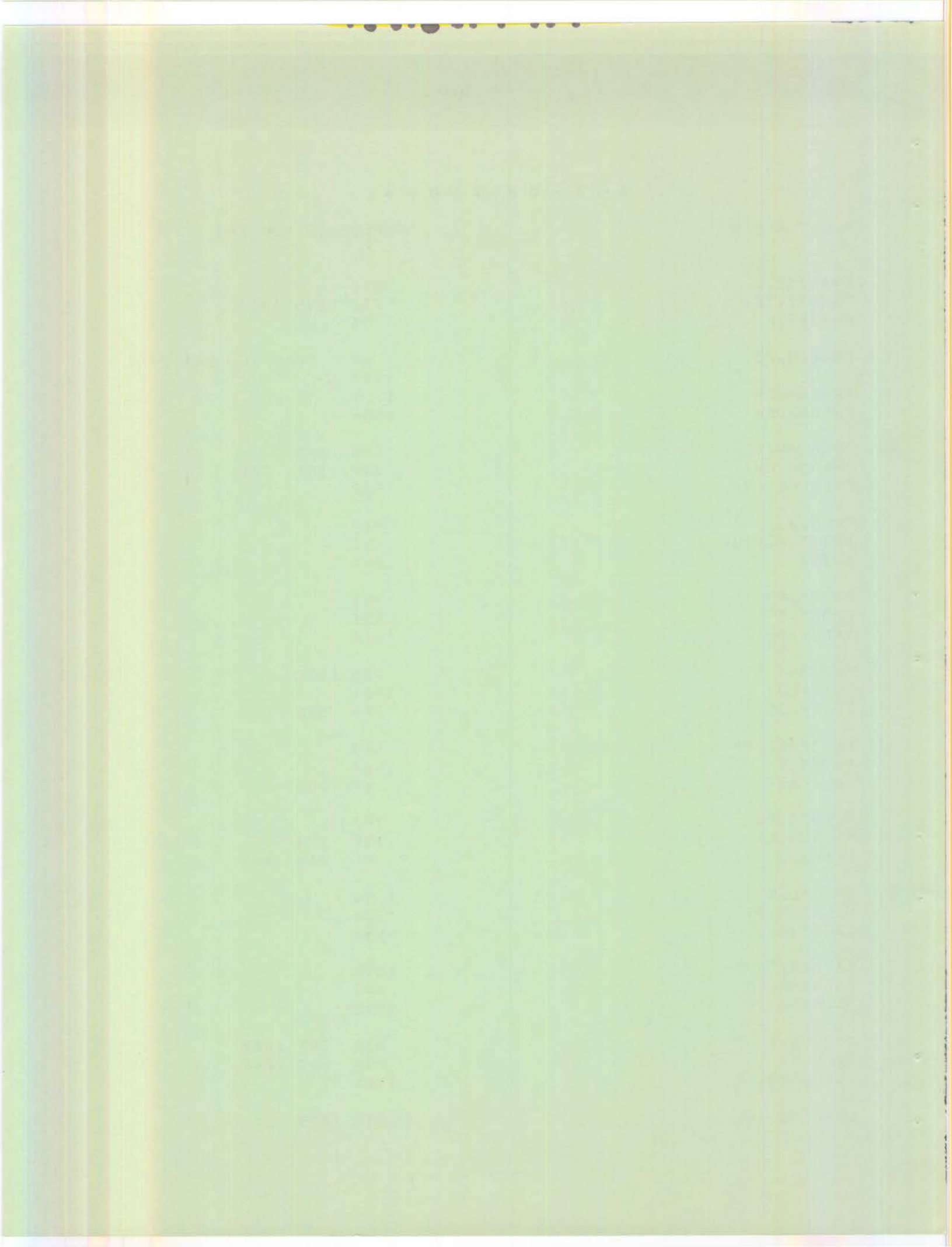
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A U T H O R

REFERENCE NUMBERS

FRANTSI, C	951				
FRANTZ, TC	732	735	1295		
FRASER, F	33				
FRASER, FJ	64	70	76	653	1014
	1630				
FRASER, JM	1015				
FREAR, DEH	1556				
FREEMAN, HC	448	672			
FRENCH, RR	340	391	721		
FRESHMAN, WJ	552				
FREY, J	972				
FRIBOURGH, JH	564				
FRISA, C	1344				
FROMM, PD	961				
FROST, S	831				
FROST, WE	1414				
FRY, DH	776	1571			
FRY, FEJ	1361				
FRYER, JL	298	526			
FUJIHARA, MP	465				
FUJII, T	1013				
FUJITA, T	47	107			
FULMER, BA	782				
FULTON, LA	715	723			
FUNK, JD	492	835	840		
GADGIL, M	1694				
GALASUN, PT	1506				
GALAT, DL	558				
GALBRAITH, DM	1606				
GALKINA, LA	642				
GALKINA, ZI	1485				
GALL, GAE	256	747	1602		
GARD, R	249	863	1299		
GARDINER, WR	1181				
GARRISON, RL	519	1279			





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A U T H O R	REFERENCE NUMBERS
GOTTWALD, S	1215
GOULD, C	925
GOULD, WR	754
GRACHEV, LE	1303
GRACHEV, LY	1491 1498 1499
GRAFF, DR	513 1288
GRAMMELTVEDT, A	1107
GRAS, J	680 972
GRASSHOFF, K	1100
GRAY, R	218
GRAYBILL, JR	274
GREENLAND, DC	587 593
GREENOUGH, JW	628
GREGORY, RW	586
GRIBANOV, VI	958
GRIFFIOEN, W	80 823
GRIFFITH, JS	1278
GRIFFITH, NA	598
GRIM, M	1663
GRISWOLD, BL	521
GRITSENKO, OF	156 161 1289 1471 1476 1478 1497
GRITZ, RL	114
GROOT, C	620 808 1071 1539
GROUTAGE, TM	517
GROVES, AB	403 457
GRUCHY, CG	351 469
GUDEFIN, Y	680
GULIDOV, MV	1404 1516
GULLAND, JA	1528
GUNNEROD, T	282
GUNSTROM, GK	518 540 580
GUSTAFSON, KJ	1632
GUYARD, H	1116 1117
GWARTNEY, LA	21 1098



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A U T H O R	REFERENCE NUMBERS
HAAS, JB	1304
HAGENMAIER, HE	120 121 646 1252 1651
HAGSTROM, BE	970
HAHN, WE	1308 1309
HALE, JG	212 507 546 588
HALL, JD	352 1076 1621
HALL, KJ	383
HALLOCK, RJ	753 776
HALSEY, TG	653
HALTER, MT	374
HAMAI, I	1193
HAMOR, T	122 1250 1271
HANAMURA, N	8 13
HANE, S	1561 1614
HANEK, G	366
HANSEN, DJ	596
HANSEN, EA	1075
HANSON, AJ	291
HANSON, JA	777 778
HANSON, JN	543
HARA, TJ	1225 1247 1326 1408
HARADA, S	87
HARDING, GD	814
HARMON, TJ	770
HARRIS, EJ	1344 1406
HARRIS, GS	1134
HARRIS, JGK	945
HARRISON, SE	272
HARRY, GY JR	622
HARTMAN, G	217
HARTMAN, GF	397 667 1144 1360 1606
	1626
HARTMAN, WL	337 622
HARVEY, HH	341 579 1635

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REFERENCE NUMBERS

HARVEY, RAL	638	699			
HARWOOD, JE	1140	1143			
HASHIMOTO, S	845	849	850	851	856
HASLER, AD	612	614	795	796	1128
	1405				
HATFIELD, CT	700				
HAUSER, BW	798				
HAVEY, K	241				
HAVEY, KA	501				
HAYAGURI, M	130				
HAYASHI, K	1533				
HAYASHINAKA, N	103				
HAYDUK, SH	386				
HAYES, LW	1251				
HAZAWA, Y	1637				
HAZEL, CR	738				
HEALEY, MC	812				
HEARD, WR	275	393	568		
HEDRICK, DG	1063				
HEIMER, JT	433	1690			
HEISER, DW	1562				
HEIST, CE	477				
HEITZ, FA	1016				
HELAND, M	1120				
HELLAWELL, JM	934				
HELLE, JH	415	706			
HEMPEL, G	1527				
HENDERSON, EB	645	1110	1370		
HENKING, H	1378	1595			
HENNEKEY, RJ	573				
HENNICK, DP	36	263	503		
HENRY, JC	972				
HENRY, KA	600	611			
HERBERT, DWM	1410				



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A U T H O R	REFERENCE NUMBERS
HERMAN, LJ	297 597
HERMAN, RL	355
HERMANUTZ, RO	235
HETTLER, WF	872
HEUTS, MJ	170
HEYL, HL	497
HIBIYA, K	1059
HIGASHI, H	1245
HIGLEY, DL	613
HIKITA, T	108 159
HILDEBRAND, SG	227
HILDEN, DA	212 507
HILTIBRAN, RC	1572
HILTZ, HK	572
HIRAI, S	1175
HIRAKI, O	166
HIRAYAMA, K	1083 1084
HIROI, O	847 935 938 939 1192
	1195
HITZ, CR	394
HIYAMA, Y	1177 1178
HOAG, SH	599
HODGINS, HO	30 247
HOEHM, M	552
HOFFMAN, GL	304 1287
HOFFMAN, GL JR	1638
HOFFMAN, GL SR	1638
HOFFMAN, TC	1091 1101
HOGLUND, LB	1678
HOKANSON, KEF	219 964
HOLDEN, AV	1246
HOLETON, GF	224
HOLLAND, GA	724
HOLT, PDJ	1657
HOLT, SJ	1418

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A U T H O R	REFERENCE NUMBERS
HOOPES, DT	601
HOOS, RAW	1065
HOPKINS, CL	1305 1411
HORRALL, RM	612 614 796 1128
HORTON, HF	237 274 382 1302 1661
HOSKINS, GE	242 828
HOSS, DE	872
HOURSTON, AS	724
HOYLE, RJ	448 459 766
HUBBS, C	730 870
HUCKABEE, JW	598
HUMPHREYS, RM	301
HUNGAR, LD	769
HUNI, A	831
HUNT, RL	1264 1282 1434 1435 1623
HUNTER, CJ	353
HUNTER, JG	771
HUNTSMAN, AG	1441
HURLEY, DA	1352 1415
HUSMAN, S	1156
HUTTON, KE	290 315
HUYSER, DJ	1143
HWANG, PC	284 467
HYATT, KD	383
HYDE, J	742
ICHIKAWA, M	687
IDLER, DR	270 284 448 459 467 766
IEVLEVA, MY	191 194 1314 1582
IGARASHI, H	144
IGNAT'EVA, GM	684 1319
IHSSEN, P	233 369
IIDA, H	1577
IKEDA, S	1173



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REFERENCE NUMBERS

INCERPI, A	209				
INT NORTH PAC FISH COMM	6	7			
INT PAC SALMON FISH COMM	1	2	3	4	5
	890	911	921	930	975
	976	977	978	979	980
	981	982	983	985	986
	987	988	989	990	991
	992	993	994	996	997
	998	999	1402		
ISHIDA, T	11	14	941	942	1194
ISHIGAKI, K	941				
ISHIHARA, T	1177	1178			
ISHII, S	1245				
ISHIKAWA, T	1236				
ISLAM, MA	1174				
ITO, T	619				
IUCHI, I	664	1188	1248		
IVANCHENKO, LA	947				
IVANCHENKO, OF	947				
IVANKOV, VN	59	147	162	1034	1318
	1332	1464	1496		
IVANOV, AP	1049				
IVANOVA, AP	1000				
IVLEV, VS	1646				
IWAI, T	619				
IWASZKIEWICZ, M	1205				
JACKSON, JM	733				
JAHN, LA	254	676	1521		
JALABERT, B	866				
JAVAID, MY	1568	1569			
JENKINS, RM	1647				
JENKINS, TM JR	251	744			
JENKINSON, DW	917	920	925		
JENSEN, AL	220	266	1284		
JENSEN, KW	663				
JENSEN, PT	742				

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A U T H O R	REFERENCE NUMBERS
JEWELL, JF	45
JOCHIMSEN, W	527
JOHANNSEN, H	1100
JOHNSEN, RC	615
JOHNSON, AK	446
JOHNSON, GR	380
JOHNSON, HE	374 1665
JOHNSON, L	774 1201
JOHNSON, LG	950
JOHNSON, MG	1542
JOHNSON, R	34
JOHNSON, RC	1553
JOHNSON, WE	918
JOHNSTON, JM	630
JOHNSTON, N	1412 1413
JOLY, C	1166
JONES, AH	346
JONES, AN	1079 1324
JONES, BF	408
JONES, BR	219
JONES, IW	438
JONES, JRE	398
JORDAN, FP	763 794 809
JORDON, C	283
JOYNER, T	1347
JUDD, JM	460
JUNGE, CO	437 1346 1543
KAIROV, EA	124
KAIROV, EG	1430
KAJI, S	116
KAJIHARA, T	1178
KALASHNIKOVA, ZM	1457
KAMIZONO, M	1155
KAMYSHNAIA, MS	963
KAMYSHNAYA, MS	84 89 138 1457 1600



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KANEKO, T	1245
KANID'EV, AN	139 146 1041 1334
KANID'YEV, AN	1469 1481
KANIEWSKI, A	1215
KANNO, Y	1193
KARAKOTSKY, ED	137
KARCHER, R	1344
KARZINKIN, GS(ED)	1579
KASAKOV, RV	1052
KASATKINA, SV	1686
KASHIWAGI, M	1290
KASSNER, J	1376
KATO, DA	78
KATO, T	165 685 686
KATZ, M	399
KAWAI, S	1173
KAWASHIMA, S	687
KAZAKOV, RV	1490
KEENLEYSIDE, MHA	1399 1565
KEITH, JA	1617
KELLER, WT	550 562
KELLNER, KR	1163
KEMPFERT, KD	235
KENDEL, RE	71
KENNEDY, M	1321
KENNEDY, O	80
KENNEDY, VS	515
KEPSHIRE, RM JR	512
KERNS, OE JR	451 622
KERSHAW, WE	831
KERSWILL, CJ	1564
KESNER, WD	745
KHALTURIN, DK	1472 1480
KHALTURINA, MI	1472
KHAN, NY	258

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A U T H O R	REFERENCE NUMBERS
KIKUCHI, S	105
KIMURA, S	669 1160
KINGSBURY, A	44
KINUMAKI TA	1577
KIRKA, A	1004 1030
KIRKPATRICK, D	430 1523
KIRPITSCHNIKOW, WS	174
KIRTON, MP	114
KITAHARA, T	854
KITAMURA, S	1231
KITTELSEN, A	238
KLEIN, C	1640
KLEIN, WD	1394
KLEINER, CF	964
KLOKOV, VK	182 1074
KLOPPEL, TM	278 701
KNEPP, GL	1137
KNIGHT, AE	1145
KOBAYASHI, H	104
KOBAYASHI, T	87 848 853 1333
KOCHI, K	942
KOKHANSKAYA, YM	1483
KOKHMENKO, LV	1509 1586
KOLESNIK, YA	185 1513
KOLGAEV, AM	49 1000 1339 1560
KOLYUSHEV, AI	1331
KOMAROVA, NP	168
KONCHIN, VV	1470 1494 1500
KONOVALOV, FM	181
KONOVALOV, SM	91 1270
KORATAYEV, GK	1465
KOROVINA, VM	1403
KORZHENKO, VP	1557
KOSAKA, S	1194
KOSHIDA, H	128 129



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A U T H O R	REFERENCE NUMBERS
KOSHIDA, T	95
KOSHINSKY, GD	333
KOSKI, KV	38 286 382 649 1691
KOSORIC, D	175
KOSSWIG, C	1315
KOSTAREV, VL	178 186 1072
KOSTYUNIN, GM	1481
KOSYREVA, RY	189 1049
KOZLOVSKIY, DA	1461
KRAMER, RH	396 577
KRANTZ, GE	477
KRASNOWSKI, P	46
KRCMA, RF	625
KRENKEL, PA	973
KROGIUS, FV	88 115 132 205 665 967 1460 1475
KROKHIN, EM	92 131 145
KRUEGER, F	250
KRUPP, MA	1561 1614
KUBO, T	859
KUDO, Y	116
KUHN, AL	1140
KULIKOVA, NI	1505
KUMAR, LA	1222
KUNDA, M	942
KUNESCH, WH	552
KUNZ, YW	674
KUO, C-M	1038 1104 1105 1109
KURAHASHI, S	105 106 109 110 163 1046
KWAIN, WH	830 1067 1078 1196 1398
KYASIMOV, IB	177
LABAR, GW	1286
LAFAYANCE, DA	728

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A U T H O R	REFERENCE NUMBERS
LAGUEUX, R	1172
LANDER, RH	214 611 713
LANDOLT, ML	1359
LANDRUM, BJ	1545
LANGER, OE	878
LANTZ, RL	1621 1664
LAPIN, VI	148
LAPIN, YE	1489
LARIMORE, RW	567
LARKIN, PA	28 232 243 892 1189 1202 1266 1419
LARMOYEUX, JD	629 1135
LARSON, CC	21
LARSON, GL	343
LARSON, P	44
LATTA, WC	1432
LATTAM, ON	279
LAURENCE, GC	230 372 594
LAWLER, GH	774
LAWRENCE, M	824
LE JEUNE, R	1170
LEAR, WH	800 805 1681
LEATHAM, H	934
LEATHERLAND, JF	841
LEBEDEV, YM	1029
LEGENDRE, V	1170 1171
LEGGETT, JW	1666
LEGGETT, WC	269 1306
LEITH, DA	298
LEITRITZ, E	752
LEMMEN, NJ	984
LEVANIDOV, VY	139 164 192 1313 1337
LEVIN, CB	458
LEYZEROVICH, KA	1329



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A U T H O R	REFERENCE NUMBERS
LI, MF	283
LIAO, PB	575 640 953 974
LIBOSVARSKY, J	1005 1039 1543
LIGHTLY, DT	76
LILLEHAMMER, A	662
LIN, L	841
LINCOLN, RF	1107
LINDROTH, A	1422
LINDSEY, CC	244
LINDSTROM, T	1632
LISCOM, KL	214
LISTER, DB	68 262 474 482 638 652 699
LISTER, NJ	884 1393
LIVINGSTON, DL	1063
LLOYD, R	956
LOCKE, DO	241
LOEFFLER, CA	1126 1146
LONNING, S	970
LORZ, HW	322 1534 1677
LOVTRUP, S	1146
LOWRY, GR	400 1526
LOWRY, RR	1251
LUCOP, J	894
LUKINA, OV	943 1551
LUND, RE	1682
LUQUET, P	1639
LUSK, S	1017 1018 1019 1032
LUTHER, W	1618
LYASHENKO, AG	148
LYUBITSKAYA, AI	1403
MACCRIMMON, HR	830 1081 1307 1365
MACDONALD, JR	485 759
MACEK, KJ	462
MACHNIAK, K	125 1130 1131

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A U T H O R	REFERENCE NUMBERS
MACKINNON, DF	529
MACLEAN, IA	656
MACY, PT	1603
MADDOCK, BG	551
MADISON, DM	796 1128
MAEKAWA, K	941
MAGOMEDOV, GM	1293 1311 1484
MAHNKEN, C	1347
MAITLAND, PS	1439
MAIWA, T	1177 1178 1179 1237
MAJOR, RL	422 516 621
MAKSIMOV, VA	658 1473 1487 1512
MALININ, LK	167 682 1584
MALYUKINA, GA	1044 1470
MALYUKINA, GA (ED)	1579
MANGELSDORF, P	1086
MANNING, GT	1533
MANTLEY, KR	24 25
MANZER, JI	880
MARCHEPHYN, MJ	542
MARCHETTI, R	1267
MARKERT, JR	240 474
MARKING, LL	215
MARKIW, ME	375
MARKOVITSEV, VG	1050
MARR, DHA	1239 1382
MARRIOTT, RA	548
MARSHALL, DE	72
MARTENS, DW	1167 1327 1368
MARTIN, J	817
MARTIN, JW	565
MARTIN, NV	470 1535
MARUSOV, EA	1044
MASLENNIKOVA, NV	1493 1514
MASON, JC	281 321 328 384 816 820 821 822



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A U T H O R	REFERENCE NUMBERS
MASON, JW	1558
MATHISEN, OA	282 603 622
MATLIN, NA	419
MATSUMOTO, H	105 106 109 110 163 1046
MATTON, P	279
MAUSOFF, R	1139
MAXFIELD, GH	214 713
MAXON, K	535
MAY, AW	805
MAYER, FL JR	1068
MAYO, RD	640 953
MCBRIDE, J	1077
MCBRIDE, JR	300 310 316 368 1449
MCCART, P	292 306 1363 1549 1625
MCCARTNEY, TJ	562
MCCAULEY, RW	522 547
MCCLEAVE, JD	293 1283
MCCLENDON, EL	256
MCCONNELL, SC	1104
MCCORMICK, JH	219 339
MCCRIMMON, H	1196 1398
MCCRIMMON, HR	223 236 389
MCDERMOTT, LA	1362
MCDONALD, J	802 806 825 881 892 899 1387
MCDONALD, JG	285 915 1266
MCFADDEN, JT	299 1440 1622
MCFADDEN, TW	276
MCGREGOR, JF	1643
MCINERNEY, JE	476
MCINTYRE, JD	231 1371
MCKERN, JL	382
MCKIM, JM	257 360

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MCKINNEY, TD	404
MCLAREN, JB	513
MCLEAN, WE	1014
MCLEAVE, JD	834
MCLEAY, DJ	971
MCNEIL, WJ	428 512 607 697 709 865 1054 1090 1369 1567- 1629
MEAD, RW	1641
MEDNIKOV, BM	1020
MEEHAN, WR	361 555 696 1093 1102
MEEKIN, TK	465
MEGALOVSKAYA, VN	35
MEHRLE, PM	1068
MEISTER, AL	268
MEITH, SJ	738
MEL'NIKOVA, MN	1482
MENEHEN, RS	729
MENEZO, Y	1662
MENSHUTKIN, VV	58 1426 1451 1580
MERRELL, TR, JR	628
METSKER, H	1095
MIGALOVSKII, IP	1688
MIGHELL, JL	621
MIHARA, T	133
MIHURSKY, JA	515
MILLER, DL	1679
MILLER, ER	570 1288
MILLER, JG	444
MILLER, JM	946
MILLER, RW	557
MILMAN, LS	117
MILORADOV, GK	148
MINAKER, BA	317 320
MISRA, PM	1168



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MITANS, AR	1328 1429
MITCHELL, BS	1645
MITCHUM, DL	532
MOLLER, D	198 487
MOLNAR, K	366
MOMOT, WT	1436
MONAN, GE	722
MONK, BH	605
MOORE, KD	298
MOORE, TD	532
MORAWSKA, B	1217
MORGAN, RP	1675
MORI, T	687
MORING, JR	1664
MORLEY, RB	468 489 492 767
MORRIS, RL	950
MORROW, JE	114
MORTON, WM	749 1550
MOUNCE, DE	903
MOUNIB, MS	467 1227
MOUNT, DI	511
MOYLE, PB	528
MUELLER, LH	235
MUISE, BC	1110
MUNDIE, JH	255 903 1349
MURAI, T	602
MURAVLEV, AS	1002
MURPHEY, EW	712 717
MURRAY, AR	770
MURRAY, PD	620
NAEVDAL, G	198
NAGATA, TH	323
NAGOSHI, M	134
NAKAGAWA, H	1257 1258 1259 1260 1261

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NAKAGAWA, K	1231
NAKAMURA, M	847
NAKATSUKASA, Y	648
NARVER, DW	319 811 823 881 895 896 898 1069 1070 1388 1392 1409
NASH, CE	1038 1104 1105 1109
NASH, F	808
NEAVE, F	17 18 892 919
NEAVE, NM	1520
NECHAYEVA, NL	1049
NEEDHAM, PR	392
NELSON, ML	1088 1089 1094
NEPROSHIN, AY	1515
NESCHAEVA, NL	157
NEUMAN, R	897
NEUSTROEV, GV	1611 1612
NEWCOMBE, C	217
NEWCOMBE, HB	1643
NEYFAKH, AA	1654
NEZDOLIIY, VK	1510
NICHOLSON, HF	195 632 633
NICOLA, SJ	734 736 826 1295
NIGHTINGALE, JN	1367
NIKOL'SKAYA, IS	1540
NIKOLAEVA, ET	192 202 203 1033
NIKOLAYEV, AS	1503
NIKULIN, OA	188
NILSSON, N-A	1519
NISHIDA, H	853
NISHINO, K	854 855 857 860
NISHIYAMA, T	1180 1531
NISSINEN, T	308
NOBLE, RE	585
NOMURA, M	1058 1157 1176



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NOMURA, T	56 57 1056
NORDENG, H	789 1249 1253
NORDIN, NG	552
NORRIS, DO	208 1125 1636
NORRIS, LA	361
NORTHCOTE, TG	280 322 367 472 481 875 1534
NOSE, Y	1174 1177 1178
NOVIKOV, GG	658 1466
NOVOTNEY, AJ	403
NOVOTNY, V	973
NYMAN, OL	498
O'BRIEN, P	780
OAKLEY, B	1253
OGI, H	1366
OGILVIE, DM	1446 1679
OGINO, C	1155 1576
OHARA, S	1231
OHATA, T	941
OHNO, S	425
OKUNO, A	110
OLIFAN, VI	90
OLIFIRENKO, LN	1477
OLSEN, JC	1659
OLSON, KR	961
OLSON, LE	215
OLSON, PR	553
OLSON, WH	543
OMORI, M	1237
OOTA, I	1232 1236
OPHEL, IL	460
ORCUTT, DR	583
ORR, LD	956
ORRELL, RF	1412
OSANAI, K	1175

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OSEID,DM	569 871 1345
OSHIMA,K	740 1308 1309
OSHIMA,M	112
OSSIANDER,FJ	1101
OSTROUMOVA,IN	1047
OTT,AG	237 1302
OTTO,RG	476
OVCHINNIKOV,VV	1590
OWENS,EL	466
PACKARD,A	868
PACKER,RK	1184
PAINE,JR	66 317
PAK,F	1454
PALOHEIMO,JE	1447
PALOMBI,F	1650
PANOV,DA	102
PARDOE,GI	1657
PARK,DL	615 626
PARKER,RR	455 762 892 926
PARR,WH	19
PATTEN,BG	716 1597
PATTERSON,HR	290
PATTIE,JH	545
PATTON,S	786 1254
PAULEY,GB	305 465
PAULIK,GJ	386 440
PAULIK,GL	516
PAVLOV,DS	1510 1525
PAYNE,RH	364 788
PAYUSOVA,AN	1425
PEARSON,LS	1304
PEASE,BC	1655
PECHKURENKOV,VL	1458 1502 1589
PECK,JW	506
PEDERSEN,PC	19 23



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PENAZ, M	1003 1384
PENZES, B	1428
PERLMUTTER, A	1518
PERNA, A	1062
PEROVA, SY	1042
PERSOV, GM	196 1507
PETERS, MD	1153
PETERSON, DA	576
PETERSON, EJ	318
PETIT, J	866
PETRENKO, IN	152 153
PETRENKO, LA	85
PETTIJOHN, LL	1359
PHILLIPS, AM	387
PHILLIPS, RW	286 307 416 584 1664 1693
PHINNEY, DE	1099
PICKERING, QH	1437
PIERRE, J-C	1114
PIETSCH, JP	493
PILLAI, AK	650 671
PINHORN, AT	1443
PINSKII, FY	1027
PIPER, RG	1135
PIPPY, JHC	765 768
PLATOSHINA, LK	204
PLETICHA, P	1377
PLOSILA, DS	550 562
PODDUBNYI, AG	682 1583 1584 1585 1588
PODYMAKHIN, VN	1611 1612 1687 1689
POLAR, SM	807
POLLARA, B	417
POLLOCK, RD	414 531
POLYAKOV, GD	1450

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POON, DC	37 446
POPESCU, E	1575
PORTER, TR	379 544
POST, G	278 561 701
POSTNIKOV, VM	193
POSTON, HA	1063
POTTS, WTW	1335 1336
POWER, DV	278 701
POWER, G	480 861 1306 1548 1607 1634
POY, A	1649
PRAVDIA, IF	617
PRAZDNIKOV, EV	1385 1386
PRENTICE, EF	712
PROGRESSIVE FISH CULTURIST	566
PROKES, M	1003
PUGH, JR	722
PULLIAM, BR	583
PUTZ, RE	304
QADRI, SU	258 1570
QUIMBY, MC	449 1359
RABE, FW	1294 1554
RADZINSKAYA, LI	1456
RAHRER, JF	388
RALEIGH, RF	229 294 513 625 626 829
RAMSAY, BA	1445
RAND, S	813
RANDALL, R	46
RAO, GMM	793
RAWSTRON, RR	743 746
RAZZELL, WE	1563
REBSDORF, A	1006
REDICK, R	1096
REED, EB	1397



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REED, RJ	578 698
REICHENBACH-KLINKE, H-H	1112
REIMERS, PE	352 464 936 1291
REINERT, RE	356
REINGOLD, M	520 1673
RESHETNIKOV, YS	1466
REYNAUD, R	972
RICE, SD	631 966
RICHARDSON, NE	834
RICKER, WE	16 27 880 883 892
	1203
RIDENHOUR, RL	782
RIDGWAY, GJ	775
RIEHL, R	1381
RIMSH, EY	177
RINGLER, NH	1076
RINGSTAD, NR	818
RISA, S	79
RITTER, JA	236
ROBERSON, K	582
ROBERTS, E	326 475
ROBERTS, FL	327 423
ROBERTS, RA	1375
ROBERTS, RF	1147
ROBERTSON, OH	1561 1614
ROBINS, GL	909 1599
ROBINSON, D	429
ROBINSON, DG	910
ROGERS, DE	616
ROMASHOV, DD	1616
ROSE, JH	9
ROSENBERG, AJ	1166
ROSIER, C	1412
ROSS, AJ	344
ROSSI, A	1650

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REFERENCE NUMBERS

ROUBAUD, P	677				
ROUNSEFELL, GA	609				
ROUSE, BT	380				
ROWLAND, RG	708				
ROYCE, WF	622				
RUCKER, RR	311	1342			
RUDY, PP	1335	1336			
RUGGLES, CP	659	694			
RUHKLOV, FN	1322	1468	1474		
RUMSEY, GL	1064				
RUPP, RS	390				
RUSSO, RC	377	1682			
RYBOCK, JT	1661				
RYZHKOV, LP	1340	1424	1452		
SAHKANICK, AI	650				
SAITA, A	1111				
SAITO, K	854	855			
SAKAGUCHI, T	1232				
SAKAI, K	1157				
SAKAMOTO, Y	686				
SAKHNENKO, EG	660	1656			
SAKUM, OF	1242	1541			
SALMIN, SA	1481				
SALO, EO	649				
SANDERCOCK, FK	317	320			
SANDERS, JE	298				
SANGALANG, GB	672				
SANO, S	10	15	111	127	133
SASAKI, K	941				
SASAKI, S	939				
SATIA, BP	1367				
SATO, R	41	1175	1177	1178	1179
	1237	1290			
SATO, Y	939				



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SATON, M	116
SAUNDERS, JW	447 810 1341 1444
SAUNDERS, LH	480 861 1634
SAUNDERS, RL	345 645 907 1110 1218 1364 1370 1416 1442 1520
SAVOST'YANOVA, GG	1631
SAVVAITOVA, KA	658 1268 1269 1270 1462 1473
SCARSBROOK, JR	825 915
SCHAFFER, WE	256
SCHAFFER, WM	960
SCHEMINSKY, F	135
SCHERER, E	824
SCHIEWE, MH	1008
SCHIMMEL, SC	596
SCHINDLER, O	184
SCHMIDT, PJ	1645
SCHNEBERGER, E	1244
SCHOFIELD, CL	395
SCHOLZ, A	1128
SCHOLZ, AT	796
SCHOUWENBURG, WJ	500
SCHRECK, CB	252 750
SCHRODER, S	39
SCHRODER, SL	693
SCHWARTZ, FJ	873
SCOTT, D	1372
SCOTT, KR	338
SEARS, HS	361
SEDLAR, J	1536
SEEGRIST, DW	249
SEIBEL, MC	23 26
SELIFONOV, MM	180
SEMKO, RS	136
SENN, HG	545

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SENTA, T	688	689		
SERVIZI, JA	1167	1327	1368	1401
SHAPIRO, AP	1463			
SHAPIRO, MA	1220			
SHAPLEY, SP	207			
SHATUNOVSKY, MI	1600			
SHAW, TL	787			
SHEALY, MH JR	331			
SHEEHAN, S	897			
SHEHADEH, ZH	1038	1105		
SHEKHANOVA, IA	118	148	149	1458 1502
	1589			
SHELBOURN, JE	432	944		
SHELTON, JM	414	1292		
SHEPARD, MP	12	906		
SHERIDAN, WL	1092	1101	1369	
SHERSNEV, AP	1040			
SHETTER, DS	299			
SHEVTSOVA, EY	1455			
SHIMIZU, M	1177	1178		
SHIMOMURA, M	1230			
SHIRAHATA, S	687	944		
SHIRKOVA, AP	1051			
SHIROTA, A	1593			
SHNAREVICH, ID	660	1152	1656	
SHORT, Z	553			
SHULMAN, SS	54			
SHUMWAY, DL	514			
SHURBEN, DS	1410			
SIEFERT, RE	221	297	371	597 1132
SIGINEVICH, GP	99			
SILLIMAN, RP	264	704		
SILLS, JB	537			
SILVEY, WD	1136			



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SIMON, RC	29 585
SIMONOVA, NA	200
SIMPSON, K	620 808
SIMS, CW	627
SINGER, PC	618
SINNHUBER, RO	691
SITKO, V	810
SKEA, J	1344 1406
SKERVOLD, H	79
SKIDMORE, JF	442
SKJERVOLD, H	496
SKUD, BE	1200
SLANEY, PA	367 877
SLATICK, E	702 703
SMEDLEY, SC	709 1090
SMETANIN, MM	1588
SMIRNOV, AI	48 84 100 113 119 138 1277 1379 1457
SMITH, AK	539
SMITH, CA	344
SMITH, CE	377 995
SMITH, EJ	1219 1220
SMITH, HD	291 495 634 794 809 893 894 901 1389
SMITH, JB	1361 1642
SMITH, JR	722
SMITH, LL	1345
SMITH, LL JR	396 504 569 577 871
SMITH, LS	1367
SMITH, M	1449 1645
SMITH, MW	541 1444
SMITH, RJF	488
SMITH, RM	234
SMITH, SB	1624
SMOLEI, AI	1338

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SNEED, KE	867
SNIESZKO, SF	932
SOIN, SG	1559
SOKOLOVA, MM	86
SOLOMON, DJ	791
SOLOV'EV, LG	1404
SOLOV'YEV, LG	1486
SOLTERO, RA	636 639
SOMMANI, E	1555
SOROKIN, YI	102
SPAAS, JT	170
SPANGLER, GR	1325
SPARKS, RE	248
SPARROW, RAH	454
SPEISS, C	670
SPOOR, WA	221 1132
SPOTTE, SH	1009
SPRAGUE, JB	879 886 1218 1416 1445
ST AMANT, JA	1296
STANLEY, JG	867
STARIK, SS	1152
STASKO, AB	123 1128
STEIGENBERGER, LW	1685
STEIN, RA	352 948
STEPANOV, VD	1031
STEPHENS, K	897
STEWART, DJ	948
STEWART, JE	1081
STEWART, KW	458
STOKES, RM	966
STONE, E	1617
STONE, ET	1401
STRASDINE, G	1077
STRASDINE, GA	1563



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STRATY,RR	350
STRIFFLER,WD	1373
STUCKEY,HM	355
SUETAKE,T	935 938 939
SUGIHASHI,T	1245
SUGII,K	1577
SUKATSKAS,VT	1310
SUKHANOV,VV	1330 1517
SUNDE,LA	774
SUTHERLAND,DB	1356
SUTHERLAND,DF	623 842
SUTTERLIN,A	813
SUTTERLIN,AM	218
SUTTERLIN,N	813
SUWA,T	1231
SUYAMA,M	1576
SVETLOV,MF	189
SVETOVIDOV,AN	54
SVIRSKII,AM	682 1584
SWARTZELL,PG	779
SWIFT,DR	206 783
SWIFT,MC	737
SYDOR,J	923
SYKORA,JL	1219 1220
SYLVESTER,JR	335
SYMONS,PEK	761 814 838
SYNAK,M	1219 1220
SYRETT,RF	221
SZOLLCSI,D	866
TACK,PI	277
TAGMAZ'YAN,ZI	1501
TAGUCHI,K	111 1233 1234 1235
TAIT,JS	369
TAKAGI,K	634
TAKAHASHI,H	847

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TAKAHASHI, T	1577
TAKAMA, K	144
TAKANO, K	938 1232 1236
TAKASHIMA, F	1157
TAMARIN, AE	168
TAMURA, K	619
TANAKA, M	1162 1164
TANAKA, T	940 942
TARRANT, RM JR	410
TAUTZ, AF	1071 1165
TAYLOR, JE	954
TAYLOR, WG	1285
TELYSHEVA, IG	1502 1589
TEN, VS	1591
TERAO, T	103 105 106 109 110 163 169 1046
TERNER, C	650 671 1221 1222 1223
TETZLOFF, CL	1433
THIBAULT, M	1114
THOMAS, AE	313 534 587 593 595 1292
THOMAS, SF	1561
THOMOPOULOS, A	1169
THOMPSON, CS	486 702 705
THOMPSON, N	1561
THOMPSON, RN	433
THORNE, RE	358
THORSLUND, TW	964
THORSTEINSON, FV	864
THURSTON, RV	377 1682
TIMOSHINA, LA	1511
TINSLEY, IJ	1251
TIRET, L	1118
TITAREV, EF	1026
TODD, I	620



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TODD, IS	65 695 1189
TOFT, R	1298
TOKUI, T	98
TOMITA, T	939
TOMLINSON, M	310
TOMLINSON, N	1449
TONEY, D	524
TONEY, DP	556
TOPASCHKA, M	1653
TRAMS, EG	785 1254 1312
TREFETHEN, PS	457 623
TRINKHAUS, JP	1011
TRIPLETT, E	354
TRUSCOTT, B	270 448 766
TRUSH, TJ	334
TRUSSELL, RP	962
TSIRKOVA, MK	151
TSUCHIYA, Y	1257 1258 1259 1261
TSUYUKI, H	326 475 1645
TSVETKOV, VI	1510
TUCKER, HH	430 1523
TUCKER, JH	219
TUGARINA, PY	193
TUINSTRA, KE	636 639
TURDAKOV, AF	201 1453 1492
TURNER, CE	808
TYLER, RW	503
TYTLER, P	82
UCHIYAMA, M	105 106 109 110 163
UEDA, K	1046
USHIYAMA, M	116 687 1225 1408
UTTER, FM	1245
UZMANN, JR	247 775 1263
VAHS, W	386
	1633

A U T H O R I N D E X

A U T H O R

REFERENCE NUMBERS

VALENTINE, JP	21				
VAN CITTERS, RL	707				
VAN CLEVE, R	608	610			
VAN HYMING, JM	1198				
VAN OVERBEEKE, AP	300	316			
VANDERWALKER, JG	711				
VANSTONE, WE	240	474			
VASS, WP	886				
VAUX, WG	606				
VERNIDUB, MF	140				
VERNIER, J-M	1138				
VERNON, EH	724	726			
VERRAES, W	651	654	655	657	
VIGOR, WN	1437				
VINCENT, B	852				
VIOX, CA	325				
VLADYKOV, VD	351				
VLASENKO, MI	968				
VOGELE, LE	568				
VOLOBUEV, VV	188	1053			
VOLOVIK, SP	61	141	156	161	1037
VOLZ, CD	713				
VOTH, DR	1061				
VOYER, RA	573				
VRONSKIY, BB	1508				
VUKOVIC, T	175				
WADDEN, RN	1358				
WADLEY, GW	226	246			
WAGNER, HH	837	1224	1226		
WAHLE, RJ	340	721			
WAINWRIGHT, AW	868				
WALES, JH	691				
WALKER, CE	68	73	78	262	652
	656	699			



A U T H O R I N D E X

A U T H O R	REFERENCE NUMBERS
WALLER, WT	248
WALLIS, J	538
WARE, DM	1683
WARNER, K	209 756
WARREN, CE	1151
WARREN, JW	775
WATANABE, E	1598
WATER RESEARCH CENTRE	1648
WATERS, CA	405
WATTS, EG	679
WEATHERLEY, AH	833
WEBER, E	1150
WEBER, H	690
WEDEMEYER, G	222 1142 1228
WEIHS, D	790 792
WEIR, RA	547
WEIS, JS	1518
WEISBART, M	827
WELANDER, AD	226 246
WELLS, RA	1054
WEST, DA	731
WESTERS, H	1317
WESTIN, DT	959
WEXLER, BC	1614
WHEALDON, EW	537
WHEELER, CO	353
WHITAKER, J	817
WHITE, WJ	330
WICKETT, WP	312 1129 1537
WICKWIRE, RH	778
WIENIAWSKI, J	1213
WILD, A	31
WILDISH, DJ	807 884 908 1393
WILHELM, R	1651
WILKINS, NP	681

A U T H O R I N D E X

A U T H O R	REFERENCE NUMBERS
WILLFORD,WA	537
WILLIAMS,GI	934
WILLIAMS,WG	995
WILSON,RCH	347 1350
WILSON,RP	1148
WINNICKI,A	1159 1240 1241 1343 1610
WITHEY,KG	951
WITHLER,FC	301 468 489 492 767
	891 1603
WITHLER,IL	434
WITTY,K	1396
WOBESER,G	380
WOLF,K	375 449 1359
WOOD,FEA	63 69
WOOD,JA	656
WOODALL,WL	1641
WOODHEAD,AD	1532
WRIGHT,FT	452
WRIGHT,JE	1262
WRIGHT,JE JR	427
WYATT,EJ	1297
WYDOSKI,RS	436
YAMAMOTO,K	1055 1192 1232 1236
YAMAMOTO,M	664
YAMAMOTO,T	52
YAMAMOTO,TS	675 928 929 957
YAMAUCHI,T	1660
YAMAZAKI,F	1057 1158
YARZHOMBEK,AA	142 635 1493 1514
YASTREBKOV,AA	158 641
YASUDA,F	1174
YASUKAWA,M	935 938 939
YASUTAKE,WT	1342
YOCOM,TG	381



A U T H O R I N D E X

A U T H O R	REFERENCE NUMBERS
YODER, WG	1274
YOKOHIRA, Y	108
YOLE, YE	1685
YOSHIDA, N	942
YOSHIDA, T	1176
YOSHIZAKI, I	110
YOUNG, PC	324
YURKEVICH, GV	1044
YUROVITSKIY, YG	1615
YUROWITZKY, YG	117
ZABOLOTSKII, AA	1229
ZAHNER, R	1021
ZAKS, MG	86
ZAMA, K	144
ZAMAKHAEV, DF	50
ZASOSOV, AV	1604
ZDRAZILEK, P	1017
ZEISS, E	1256
ZEITOUN, IH	277
ZENNER, H	1374 1633
ZHELTKOVA, MV	94
ZHITENEV, AN	643 644
ZHITENEVA, LD	644
ZILLI, WB	618
ZIMMER, PD	508 683 720
ZIRGES, MH	563
ZIRKIN, BR	846
ZITKO, V	914
ZORBIDI, ZK	183 1048 1594
ZORBIDII, ZK	192
ZOTIN, AI	554 1608
ZUEVA, KD	55
ZYBLUT, ER	67 172

SPECIES - DEVELOPMENTAL STAGE INDEX





SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX REFERENCE NUMBERS					
(SALMONIDS, GENERAL)						
GENERAL	95	101	119	167	173	185
	195	327	336	353	425	426
	437	466	493	523	525	575
	632	633	637	640	761	807
	814	858	875	877	878	898
	899	934	949	974	1103	1135
	1151	1152	1346	1380	1579	1581
	1583	1603	1620	1622	1647	1680
	1693					
GERMINAL TISSUE	327	1055	1056	1507		
EGGS, RIPE UNFERTILIZED	327	440				
EGGS, FERTILIZED	43	101	135	144	196	321
	440	535	557	558	862	878
	1103	1123	1124	1134	1483	1507
	1619	1680				
EGGS, AT HATCHING	862	1680				
LARVAE OR ALEVINS NEWLY HATCHED	102	135	142	196	862	1103
	1123	1124	1134	1619	1680	
LARVAE OR ALEVINS AT EMERGENCE	307	544	862	1693		
FRY, MIGRATING	47	637	1118	1349	1619	1693
FINGERLINGS	142	171	196	403		
SMOLTS	56	153	196	1346		
SUBADULTS, FRESHWATER	1296	1680				
SUBADULTS, SALTWATER	153	399	408	1680		
ADULTS, FRESHWATER MATURING	578					
ADULTS, SALTWATER MATURING	56	57	167	399	858	878
	1056	1058	1059	1619		
ADULTS, SPAWNING	97	101	142	164	179	637
	749	1035	1058	1059	1243	1346



SPECIES - DEVELOPMENTAL STAGE INDEX

SPECIES STAGE	REFERENCE NUMBERS					
(SALMONIDS, GENERAL)						
ADULTS, SPAWNING	1507	1620				
ADULTS, AFTER SPAWNING	1035					
(ONCORHYNCHUS)						
GENERAL	3	6	7	9	27	28
	30	192	515	932	955	1081
	1246	1277	1412	1413	1529	1551
EGGS, FERTILIZED	9	606	955	1101	1337	1457
	1471	1668				
LARVAE OR ALEVINS NEWLY HATCHED	606	769	1101	1337		
FRY, MIGRATING	154	722	769	955	1025	
FINGERLINGS	1025					
SMOLTS	955	1025				
SUBADULTS, FRESHWATER	1025	1471				
SUBADULTS, SALTWATER	1025	1347	1471			
ADULTS, FRESHWATER MATURING	1025	1471				
ADULTS, SALTWATER MATURING	6	7	27	154	182	192
	880	885	906	1025	1405	
ADULTS, SPAWNING	9	885	894	955	1101	1326
	1412	1413	1457			
GORBUSCHA						
GENERAL	14	27	53	119	137	138
	141	146	164	192	207	262
	354	475	635	709	843	865
	892	1001	1034	1035	1080	1092
	1273	1277	1427	1463	1545	
GERMINAL TISSUE	196	1491	1507	1541		
EGGS, RIPE UNFERTILIZED	48	301	446	468	585	767

SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX REFERENCE NUMBERS					
	GORBUSCHA					
EGGS, RIPE UNFERTILIZED	865	1629				
SPERM, RIPE	48 767	119	301	446	468	585
EGGS, FERTILIZED	27 119 164 453 604 697 804 888 1072 1300 1457	34 139 242 489 607 709 826 901 1090 1354 1474	45 142 262 492 641 710 827 983 1092 1357 1481	53 148 428 510 642 725 864 993 1129 1385 1619	81 158 439 548 643 767 865 1001 1171 1386 1629	113 162 441 554 644 799 876 1054 1200 1427 1681
EGGS, AT HATCHING	119	489				
LARVAE OR ALEVINS NEWLY HATCHED	20 32 158 607 826 1368 1629	21 36 211 697 827 1369	22 44 428 709 865 1401	24 45 489 710 947 1481	25 119 510 725 1054 1596	26 139 604 799 1091 1619
LARVAE OR ALEVINS AT EMERGENCE	32	370				
FRY, MIGRATING	1 81 139 306 492 724 865 1023 1489 1619	17 84 143 342 503 726 888	27 87 150 361 565 762 919	34 89 156 370 572 804 983	37 119 158 453 607 827 993	55 138 164 484 697 864 1001 1481 1600 1681
FINGERLINGS	61 1594	164	947	1037	1108	1489
SMOLTS	162	164	1042	1066	1072	1368



SPECIES - DEVELOPMENTAL STAGE INDEX

SPECIES STAGE	REFERENCE NUMBERS					
<b>GORBUSCHA</b>						
SUBADULTS, SALTWATER	455	933	1001	1474	1491	
ADULTS, FRESHWATER MATURING	370	415				
ADULTS, SALTWATER MATURING	1	12	17	20	21	22
	24	25	26	27	32	34
	36	44	59	67	77	81
	89	119	136	137	147	162
	164	192	199	263	315	354
	370	455	724	776	785	786
	799	803	809	835	840	865
	911	926	930	976	977	979
	983	988	989	993	994	998
	999	1001	1035	1091	1092	1189
	1235	1314	1427	1465	1477	1489
	1491	1582	1681			
ADULTS, SPAWNING	4	11	12	14	17	44
	76	81	93	119	138	146
	147	158	162	164	178	179
	182	263	275	342	354	413
	441	489	492	548	607	641
	642	697	706	709	710	724
	763	767	786	804	864	865
	888	901	919	933	983	1001
	1034	1035	1066	1072	1087	1090
	1092	1200	1235	1273	1303	1312
	1313	1322	1323	1333	1334	1369
	1464	1474	1481	1491	1515	1541
	1567	1571	1629			
ADULTS, AFTER SPAWNING	164	1035				
<b>KETA</b>						
GENERAL	18	27	33	42	74	75
	111	119	133	164	192	207
	453	472	475	635	648	843
	853	865	892	1080	1273	1277
	1427	1484	1495	1496	1505	1545
	1685					
GERMINAL TISSUE	39	196	1175	1381	1498	1507

SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX					
	REFERENCE NUMBERS					
KETA						
EGGS,RIPE UNFERTILIZED	103	127	446	453	585	675
	851	865	929	938	1192	1381
	1468	1629				
SPERM,RIPE	103	119	127	446	585	929
	935	957	1495			
EGGS,AT FERTILIZATION	938					
EGGS,FERTILIZED	15	18	31	33	34	38
	45	70	81	113	119	133
	139	142	156	164	169	172
	178	242	320	329	334	428
	453	472	489	553	554	641
	642	649	826	827	828	845
	848	849	850	851	856	864
	865	928	929	938	939	943
	957	1129	1234	1292	1293	1427
	1457	1468	1474	1481	1484	1496
	1505	1537	1560	1619	1629	1691
	EGGS,AT HATCHING	31	119	489	553	828
LARVAE OR ALEVINS NEWLY HATCHED	15	31	38	45	49	119
	139	156	169	211	428	453
	472	489	826	827	845	853
	865	943	1000	1290	1468	1479
	1481	1560	1619	1629	1691	
LARVAE OR ALEVINS AT EMERGENCE	38	81	472	1627	1691	
FRY,MIGRATING	15	18	33	34	37	38
	41	70	81	111	119	133
	139	156	172	202	312	317
	320	361	384	432	453	454
	474	484	565	649	652	695
	699	827	864	865	891	1033
	1177	1178	1193	1204	1230	1233
	1234	1290	1292	1468	1481	1484
	1496	1530	1594	1619	1629	1691
FINGERLINGS	27	41	55	61	161	164
	186	203	453	891	943	1037



SPECIES - DEVELOPMENTAL STAGE INDEX  
REFERENCE NUMBERS

SPECIES  
STAGE

KETA

FINGERLINGS	1040	1041	1469	1498	1594	
SMOLTS	164	474	1037	1042		
SUBADULTS, FRESHWATER	41	169				
SUBADULTS, SALTWATER	18	41	80	133	163	453
	1496	1498				
ADULTS, SALTWATER MATURING	12	15	18	27	34	64
	70	111	119	133	162	164
	172	187	192	204	263	391
	453	776	797	809	848	854
	855	856	857	860	865	1001
	1073	1074	1128	1175	1179	1192
	1233	1237	1254	1318	1427	1468
	1481	1484	1496	1505	1557	1691
ADULTS, SPAWNING	10	12	15	18	33	38
	39	42	70	76	78	81
	93	113	116	119	133	161
	164	169	178	182	186	188
	263	317	320	413	450	453
	489	539	638	641	642	649
	693	715	763	856	864	865
	1071	1074	1087	1095	1204	1233
	1234	1273	1293	1303	1311	1313
	1322	1323	1333	1339	1355	1464
	1468	1474	1496	1505	1629	1691
ADULTS, AFTER SPAWNING	164	855				

KISUTCH

GENERAL	27	60	119	192	227	240
	267	273	475	506	652	731
	811	843	892	1044	1076	1080
	1151	1213	1427	1495	1529	1685
GERMINAL TISSUE	196	1507				
EGGS, RIPE UNFERTILIZED	240	505				
SPERM, RIPE	119	1302	1495			

SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX REFERENCE NUMBERS					
	KISUTCH					
EGGS, AT FERTILIZATION	1302					
EGGS, FERTILIZED	34	119	142	277	281	320
	334	374	438	481	519	537
	540	553	652	731	827	828
	841	958	1076	1129	1132	1139
	1151	1228	1285	1427	1457	1621
EGGS, AT HATCHING	119	553	841	1139	1151	
LARVAE OR ALEVINS NEWLY HATCHED	119	156	211	281	374	481
	537	549	827	841	958	1076
	1132	1304	1479	1621	1628	
LARVAE OR ALEVINS AT EMERGENCE	286	328	481	1664		
FRY, MIGRATING	71	119	281	286	298	317
	328	352	361	385	386	456
	482	500	540	605	624	625
	652	659	711	712	818	820
	821	822	827	903	1014	1265
	1304	1526	1553	1593	1594	1597
	1619	1621	1630	1674		
FINGERLINGS	114	156	164	320	361	385
	476	509	612	625	668	741
	742	795	796	816	823	842
	900	902	958	1014	1048	1065
	1142	1144	1151	1224	1284	1353
	1552	1594				
SMOLTS	68	317	385	505	611	614
	626	627	652	659	699	722
	772	822	958	1069	1070	1279
	1396	1621				
SUBADULTS, FRESHWATER	71	156	614	1265	1619	1645
SUBADULTS, SALTWATER	80	222	335	741	746	958
	1048	1069	1594	1645		
ADULTS, FRESHWATER MATURING	506	612				
ADULTS, SALTWATER MATURING	12	27	34	119	136	192



SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX					
	REFERENCE NUMBERS					
KISUTCH						
ADULTS, SALTWATER MATURING	240	320	356	505	508	611
	683	702	703	720	721	742
	746	776	795	796	809	822
	882	958	984	1128	1308	1309
	1408	1421	1427			
ADULTS, SPAWNING	12	76	119	164	183	227
	317	356	505	506	539	652
	715	731	739	763	882	958
	1087	1095	1225	1279	1284	1303
	1304	1353	1408	1515	1621	1645
MASU						
GENERAL	112	119	133	146	192	475
	843					
GERMINAL TISSUE	196	847	1507			
EGGS, RIPE UNFERTILIZED	103	127	1195			
SPERM, RIPE	103	119	127			
EGGS, FERTILIZED	98	119	133	349	1457	
EGGS, AT HATCHING	119					
LARVAE OR ALEVINS NEWLY HATCHED	119	847	1037			
FRY, MIGRATING	81	119	133	349	847	940
	941	942	1194			
FINGERLINGS	119	156	757	1037	1194	
SMOLTS	156	1037				
SUBADULTS, SALTWATER	133	1501				
ADULTS, SALTWATER MATURING	81	119	133	162	192	199
	1195	1477				
ADULTS, SPAWNING	119	128	133	146	162	349
	1160	1194	1464			

SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX					
	REFERENCE NUMBERS					
NERKA						
GENERAL	16	27	119	131	145	192
	200	243	261	292	337	354
	363	383	473	475	483	589
	608	609	610	622	635	665
	889	892	897	915	932	955
	967	1044	1080	1094	1167	1199
	1266	1273	1275	1277	1295	1327
	1330	1388	1426	1427	1460	1495
	1517	1545				
GERMINAL TISSUE	191	194	196	1180	1499	1507
EGGS, RIPE UNFERTILIZED	103	127	210	260	301	468
	767	1180	1401			
SPERM, RIPE	103	119	127	210	301	468
	751	767	1401	1426	1495	
EGGS, AT FERTILIZATION	282					
EGGS, FERTILIZED	13	16	27	40	119	142
	169	190	239	282	439	489
	538	622	696	725	767	827
	876	905	920	978	983	1080
	1093	1097	1098	1102	1129	1141
	1167	1300	1327	1389	1390	1391
	1402	1427	1457	1537	1627	1635
	1641	1659				
EGGS, AT HATCHING	489	1627	1635			
LARVAE OR ALEVINS NEWLY HATCHED	119	169	211	463	489	630
	725	827	905	1080	1141	1167
	1327	1351	1352	1368	1387	1390
	1401	1627	1635	1641	1659	
LARVAE OR ALEVINS AT EMERGENCE	1627	1635	1641			
FRY, MIGRATING	2	13	27	40	66	69
	115	119	150	180	200	239
	261	265	285	292	294	296
	335	337	429	461	463	474
	495	536	572	599	608	609



SPECIES - DEVELOPMENTAL STAGE INDEX

SPECIES STAGE	REFERENCE NUMBERS					
NERKA						
FRY, MIGRATING	610	616	622	625	630	647
	656	696	802	806	827	829
	843	863	881	895	896	909
	912	944	978	983	992	997
	1023	1080	1093	1097	1098	1102
	1141	1165	1167	1327	1351	1368
	1387	1549	1586	1587	1594	1599
	1627	1635	1641			
FINGERLINGS	27	119	164	180	205	239
	285	429	622	625	630	668
	694	812	825	843	910	1065
	1080	1108	1127	1387	1392	1401
	1475	1517	1594	1601		
SMOLTS	16	27	62	86	91	115
	119	150	191	361	363	429
	474	589	622	626	627	696
	772	806	843	863	883	910
	967	1080	1366	1368	1387	1389
	1391	1499	1517	1539		
SUBADULTS, FRESHWATER	163	169	819	1645		
SUBADULTS, SALTWATER	80	91	181	335	393	410
	429	599	622	825	843	967
	1050	1281	1475	1499	1517	1645
ADULTS, FRESHWATER MATURING	300	310	322	687	1534	1586
	1601					
ADULTS, SALTWATER MATURING	2	12	13	16	19	23
	27	46	63	65	69	86
	88	119	132	192	271	282
	316	340	354	368	391	422
	478	486	490	491	508	509
	516	589	603	608	609	610
	620	624	634	679	683	703
	704	720	721	727	760	773
	776	794	808	809	815	863
	883	890	917	921	925	975
	978	980	981	982	985	986
	987	990	991	992	996	997

SPECIES - DEVELOPMENTAL STAGE INDEX

SPECIES  
STAGE

REFERENCE NUMBERS

NERKA

ADULTS, SALTWATER MATURING

1013 1080 1099 1180 1189 1198  
1199 1266 1275 1401 1421 1426  
1427 1449 1475 1601 1645

ADULTS, SPAWNING

5 8 12 13 16 23  
27 63 65 69 76 92  
115 119 131 164 169 190  
200 260 282 285 291 300  
319 322 350 354 358 413  
451 478 489 539 601 616  
622 679 687 715 727 763  
767 773 863 881 883 905  
913 916 920 967 978 983  
992 1080 1087 1088 1089 1093  
1094 1095 1097 1098 1102 1161  
1165 1198 1199 1266 1273 1275  
1295 1299 1300 1303 1323 1330  
1389 1391 1402 1464 1475 1503  
1517 1574 1587 1601 1625 1641  
1645 1692

ADULTS, AFTER SPAWNING

131 145 265 300 337 490  
491 679 1449

TSHAWYTSCHA

GENERAL

27 29 30 72 74 75  
119 192 305 475 526 600  
613 652 889 892 955 995  
1022 1044 1080 1280 1379 1508  
1546 1685

GERMINAL TISSUE

518 846

EGGS, RIPE UNFERTILIZED

435 559 563

SPERM, RIPE

119 1302

EGGS, AT FERTILIZATION

563 1302

EGGS, FERTILIZED

72 119 226 253 311 313  
320 329 348 414 424 439  
519 526 545 553 621 729



SPECIES - DEVELOPMENTAL STAGE INDEX  
 REFERENCE NUMBERS

SPECIES  
 STAGE

TSHAWYTSCHA

EGGS, FERTILIZED	738	827	1129	1291	1292	1300
	1457	1508	1537	1667	1670	1671
	1672					
EGGS, AT HATCHING	119	553	1291			
LARVAE OR ALEVINS NEWLY HATCHED	119	208	211	253	311	512
	527	545	738	827	1125	1291
	1669					
LARVAE OR ALEVINS AT EMERGENCE	580	593	936	1291	1669	1670
	1672					
FRY, MIGRATING	27	68	72	119	208	289
	313	348	352	464	465	482
	519	526	559	587	593	605
	613	624	625	711	716	753
	780	827	936	1291	1292	1669
	1671	1673				
FINGERLINGS	27	68	311	317	320	424
	464	494	509	593	595	613
	625	626	668	713	842	887
	922	924	936	959	965	1008
	1226	1297	1353			
SMOLTS	253	464	615	621	626	627
	718	722	936			
SUBADULTS, FRESHWATER	595	1645				
SUBADULTS, SALTWATER	626	673	1301	1342	1645	
ADULTS, FRESHWATER MATURING	289	305	595			
ADULTS, SALTWATER MATURING	12	27	68	119	192	271
	320	340	486	508	516	526
	534	600	615	624	683	702
	703	705	708	720	721	753
	776	782	882	887	922	927
	984	1022	1198	1301	1308	1309
	1408	1561	1614			
ADULTS, SPAWNING	12	27	68	72	74	76

SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX					
	REFERENCE NUMBERS					
TSHAWYTSCHA						
ADULTS, SPAWNING	78	119	290	305	317	348
	424	457	465	518	520	531
	539	563	582	623	628	721
	723	733	740	763	776	779
	882	887	936	1022	1087	1095
	1198	1225	1303	1323	1353	1408
	1417	1508	1515	1561	1645	1667
	1673	1692				
ADULTS, AFTER SPAWNING	1417					
OTHER						
GENERAL	112	159				
SMOLTS	685					
(SALMO)						
GENERAL	351	499	570	658	1081	1373
	1632					
EGGS, FERTILIZED	245	1618				
LARVAE OR ALEVINS NEWLY HATCHED	245					
SUBADULTS, FRESHWATER	1632					
ADULTS, SPAWNING	444					
AGUABONITA						
GENERAL	252					
ADULTS, FRESHWATER MATURING	532	781				
CLARKI						
GENERAL	267	811	1076	1278	1360	1526
	1621					
SPERM, RIPE	213	533	586			
EGGS, FERTILIZED	142	177	254	318	1223	1300



SPECIES - DEVELOPMENTAL STAGE INDEX

SPECIES  
STAGE

REFERENCE NUMBERS

CLARKI

EGGS, FERTILIZED	1617					
EGGS, AT HATCHING	318					
FRY, MIGRATING	229	254	404	829	1521	1617
FINGERLINGS	254	732	741	900	1644	
SMOLTS	822	1070				
SUBADULTS, FRESHWATER	400	698				
SUBADULTS, SALTWATER	741					
ADULTS, FRESHWATER MATURING	254	676	732	734	1286	
ADULTS, SALTWATER MATURING	822					
ADULTS, SPAWNING	293	325	739	1283	1286	

GAIRDNERI

GENERAL	27	30	75	129	174	267
	273	338	346	380	382	383
	475	517	811	843	889	932
	954	1022	1030	1122	1213	1263
	1274	1280	1360	1376	1438	1524
	1531	1538	1542	1546	1555	1602
	1620	1631	1637	1648	1658	1695
GERMINAL TISSUE	283	1176	1232	1236	1367	1381
	1624	1645	1658			
EGGS, RIPE UNFERTILIZED	127	237	256	274	409	1157
	1174	1221	1222	1240	1257	1258
	1259	1260	1261	1271	1367	1381
	1438	1485	1576	1642	1658	
SPERM, RIPE	127	148	213	237	274	533
	666	866	1176	1271	1371	1653
	1662					
EGGS, AT FERTILIZATION	238	496	787	866		

SPECIES - DEVELOPMENTAL STAGE INDEX

SPECIES  
STAGE

REFERENCE NUMBERS

GAIRDNERI

EGGS, FERTILIZED	43	73	118	120	121	142
	148	214	215	231	246	249
	278	288	304	329	344	396
	416	419	443	445	496	522
	553	556	561	584	631	636
	639	646	650	651	661	664
	666	671	677	684	690	691
	701	747	828	830	871	966
	972	1011	1047	1067	1111	1129
	1138	1145	1151	1154	1159	1164
	1166	1182	1183	1186	1187	1190
	1191	1206	1208	1211	1212	1221
	1222	1223	1238	1240	1241	1252
	1256	1257	1258	1305	1319	1343
	1345	1359	1367	1372	1374	1377
	1423	1438	1493	1511	1537	1576
	1577	1598	1606	1608	1617	1633
	1642	1643	1649	1650	1652	1653
	1654	1656	1663	1670	1672	
EGGS, AT HATCHING	120	121	231	278	443	553
	747	871	1138	1145	1151	1154
	1208	1252	1576	1649		
LARVAE OR ALEVINS NEWLY HATCHED	208	215	279	396	416	584
	636	639	654	655	657	661
	664	830	868	869	871	966
	972	1047	1125	1138	1145	1149
	1154	1162	1173	1188	1206	1208
	1241	1248	1251	1257	1267	1377
	1438	1511	1576	1577	1617	1636
	1638	1656				
LARVAE OR ALEVINS AT EMERGENCE	215	869	1112	1267	1664	1670
	1672					
FRY, MIGRATING	71	73	81	151	198	208
	215	238	249	280	298	367
	386	496	605	625	631	636
	639	657	670	712	817	829
	868	871	971	1047	1064	1067
	1112	1116	1149	1155	1165	1188
	1230	1245	1267	1287	1288	1317



SPECIES - DEVELOPMENTAL STAGE INDEX

SPECIES STAGE	REFERENCE NUMBERS
GAIRDNERI	
FRY, MIGRATING	1345 1372 1577 1593 1617 1621 1630
FINGERLINGS	73 214 215 272 361 375 377 494 496 517 541 629 668 699 732 741 747 774 793 801 817 824 837 842 900 959 964 995 1047 1063 1064 1065 1078 1142 1144 1173 1188 1196 1209 1214 1231 1267 1359 1398 1434 1568 1569 1620 1639 1661
SMOLTS	246 251 317 320 389 445 496 615 627 686 699 722 745 837 1069 1554
SUBADULTS, FRESHWATER	71 214 236 247 251 302 377 496 541 602 661 673 680 686 698 732 746 793 956 961 995 1021 1026 1047 1060 1078 1110 1148 1158 1188 1196 1214 1229 1232 1236 1247 1365 1398 1410 1434 1459 1506 1533 1619 1624 1631 1639 1645
SUBADULTS, SALTWATER	222 741 1069 1645
ADULTS, FRESHWATER MATURING	232 245 247 271 302 377 389 392 412 513 552 590 624 658 661 732 734 736 737 743 744 746 775 793 801 907 1077 1185 1188 1229 1248 1305 1554 1577
ADULTS, SALTWATER MATURING	81 417 434 486 508 509 615 683 702 703 720 721 745 809 1198 1207 1614 1645 1676
ADULTS, SPAWNING	174 175 214 217 223 246 256 295 317 392 520 524 539 552 576 583 667 680

SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX					
	REFERENCE NUMBERS					
<b>GAIRDNERI</b>						
ADULTS, SPAWNING	707	715	739	747	748	750
	775	1022	1071	1117	1157	1164
	1165	1174	1198	1207	1208	1209
	1211	1305	1323	1372	1485	1595
	1606	1620	1624	1626	1631	1645
	1656	1661	1662	1676	1692	
<b>GILAE</b>						
<b>SALAR</b>						
GENERAL	54	362	366	452	487	497
	501	765	770	788	810	889
	960	1170	1306	1400	1416	1427
	1430	1441	1523	1529	1584	
GERMINAL TISSUE	196	1242	1381	1507		
EGGS, RIPE UNFERTILIZED	268	284	674	1335	1336	1381
	1456	1485	1595			
SPERM, RIPE	270	284	448	459	766	1595
EGGS, FERTILIZED	35	43	122	140	142	170
	241	259	554	674	714	951
	952	1043	1049	1052	1107	1121
	1126	1146	1227	1250	1300	1335
	1336	1382	1403	1427	1456	1457
	1470	1490	1502	1540	1544	1595
	1611	1612	1652	1686	1687	1688
	1689					
EGGS, AT HATCHING	170	1686	1688	1689		
LARVAE OR ALEVINS NEWLY HATCHED	35	140	168	170	241	542
	674	869	947	1047	1049	1052
	1149	1239	1370	1382	1393	1442
	1470	1490	1502	1589	1640	1686
	1687	1688				
LARVAE OR ALEVINS AT EMERGENCE	869	1490				
FRY, MIGRATING	79	85	99	168	198	303



SPECIES - DEVELOPMENTAL STAGE INDEX

SPECIES STAGE	REFERENCE NUMBERS
SALAR	
FRY, MIGRATING	662 674 681 768 852 908 923 931 1016 1047 1064 1079 1114 1149 1181 1324 1341 1357 1370 1393 1431 1439 1510 1564 1565 1619
FINGERLINGS	55 85 157 259 347 501 662 668 681 759 813 834 838 839 904 908 914 947 1027 1049 1079 1106 1197 1328 1329 1341 1350 1357 1393 1399 1407 1416 1422 1429 1439 1442 1443 1446 1510 1547 1566 1568 1569
SMOLTS	79 501 681 758 759 764 1328 1364 1378 1410 1442 1482 1520 1695
SUBADULTS, FRESHWATER	1619
SUBADULTS, SALTWATER	168 768 879 1110 1356 1407 1429 1445 1448 1482 1544 1564 1565 1566
ADULTS, FRESHWATER MATURING	411 759 907 1328 1329
ADULTS, SALTWATER MATURING	124 152 218 345 362 364 497 666 681 682 768 791 800 805 884 960 1016 1298 1416 1427 1430 1448 1466 1482 1585 1595
ADULTS, SPAWNING	152 209 268 269 345 423 447 485 645 714 931 960 1106 1113 1121 1218 1323 1328 1357 1358 1364 1378 1430 1457 1472 1485 1544 1585 1592 1595 1692
ADULTS, AFTER SPAWNING	1378 1448

SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX					
	REFERENCE NUMBERS					
TRUTTA						
GENERAL	54	134	273	309	355	477
	660	810	937	954	1004	1017
	1024	1030	1061	1274	1455	1480
	1524	1538	1543	1555	1677	1694
GERMINAL TISSUE	1018	1019	1381			
EGGS,RIPE UNFERTILIZED	674	1222	1240	1381	1395	1454
SPERM,RIPE	1271	1395				
EGGS,FERTILIZED	142	170	177	396	551	554
	561	650	661	666	674	684
	784	1075	1115	1116	1129	1208
	1210	1222	1223	1240	1241	1256
	1300	1316	1319	1321	1343	1344
	1382	1384	1403	1493	1514	1595
	1610	1649	1651	1654	1657	1695
EGGS,AT HATCHING	170	560	1649	1651		
LARVAE OR ALEVINS NEWLY HATCHED	170	177	396	560	784	1120
	1215	1241	1382	1384	1514	1532
LARVAE OR ALEVINS AT EMERGENCE	1321	1344				
FRY,MIGRATING	177	431	662	1003	1115	1116
	1120	1181	1205	1288	1316	1321
	1324	1344	1411	1432	1439	1532
	1609	1695				
FINGERLINGS	662	937	1063	1406	1434	1439
SMOLTS	251	663	937	1205	1378	1480
SUBADULTS,FRESHWATER	251	477	746	1079	1205	1320
	1321	1432	1434	1619		
ADULTS,FRESHWATER MATURING	245	513	590	678	746	1003
	1216	1466	1480	1519		
ADULTS,SALTWATER MATURING	1018	1210	1440	1466	1480	1522
	1592	1595				



SPECIES - DEVELOPMENTAL STAGE INDEX  
REFERENCE NUMBERS

SPECIES  
STAGE

TRUTTA

ADULTS, SPAWNING	175	177	539	663	784	937
	1005	1017	1019	1032	1039	1117
	1216	1217	1320	1323	1344	1378
	1430	1440	1454	1480	1595	1677

ADULTS, AFTER SPAWNING	1378					
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OTHER

GENERAL	129	1277	1315			
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EGGS, RIPE UNFERTILIZED	1452					
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SPERM, RIPE	201	1453	1492			
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EGGS, FERTILIZED	142	566	1340	1424	1452	1470
	1487	1494	1500			

LARVAE OR ALEVINS NEWLY HATCHED	1340	1452	1470	1500		
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FRY, MIGRATING	1340	1452	1500			
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FINGERLINGS	1500	1509				
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SMOLTS	1473					
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SUBADULTS, FRESHWATER	1509					
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ADULTS, FRESHWATER MATURING	658	1466	1473			
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ADULTS, SALTWATER MATURING	1473	1487	1512			
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ADULTS, SPAWNING	128	175	1338	1453	1473	1487
	1512					

(SALVELINUS)

GENERAL	570	1081	1632			
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SUBADULTS, FRESHWATER	1331	1632				
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ADULTS, SPAWNING	130	749	1515			
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SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX					
	REFERENCE NUMBERS					
<b>ALPINUS</b>						
GENERAL	75	193	224	314	366	771
	843	1053	1268	1269	1270	1363
	1462	1497	1685			
GERMINAL TISSUE	1381					
EGGS,RIPE UNFERTILIZED	184	1381	1634			
SPERM,RIPE	184					
EGGS,FERTILIZED	206	1300	1471	1478		
SMOLTS	405					
SUBADULTS,FRESHWATER	1268	1375	1471	1478	1497	1678
SUBADULTS,SALTWATER	1053	1268	1471	1497		
ADULTS,FRESHWATER MATURING	405	771	1249	1253	1269	1289
	1466	1471	1478	1519	1586	1634
ADULTS,SALTWATER MATURING	156	789	1053	1478	1592	
ADULTS,SPAWNING	771	1053	1269	1289	1363	1478
	1497	1634	1692			
<b>FONTINALIS</b>						
GENERAL	129	216	220	257	266	299
	355	360	366	427	430	436
	477	507	546	810	861	1122
	1151	1184	1262	1264	1274	1278
	1282	1294	1307	1310	1444	1462
	1536	1542	1547	1548	1556	1623
GERMINAL TISSUE	436	1381				
EGGS,RIPE UNFERTILIZED	184	462	529	751	1119	1222
	1381	1395	1415	1595		
SPERM,RIPE	127	184	462	550	562	586
	1119	1395	1595			
EGGS,AT FERTILIZATION	562					





SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX						
	REFERENCE NUMBERS						
<b>MALMA</b>							
GENERAL	75	479	811	843	859	1268	
	1383	1462	1550				
EGGS, RIPE UNFERTILIZED	1383						
EGGS, FERTILIZED	142	479	1383	1690			
LARVAE OR ALEVINS NEWLY HATCHED	1383						
FRY, MIGRATING	228	479	1562	1605			
FINGERLINGS	361	859					
SMOLTS	359	479					
SUBADULTS, FRESHWATER	1037	1501					
SUBADULTS, SALTWATER	1409	1605					
ADULTS, FRESHWATER MATURING	156	359	418	508	578	581	
	683	1383	1666				
ADULTS, SALTWATER MATURING	720						
ADULTS, SPAWNING	228	323	359	407	859	1383	
	1562	1666	1690				
<b>NAMAYCUSH</b>							
GENERAL	74	75	125	258	341	387	
	470	843	1096	1172	1570	1685	
SPERM, RIPE	533						
EGGS, FERTILIZED	125	371	530	547			
LARVAE OR ALEVINS NEWLY HATCHED	371						
FRY, MIGRATING	530						
FINGERLINGS	948						
SUBADULTS, FRESHWATER	369	735	1361	1433			



SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX						
	REFERENCE NUMBERS						
NAMAYCUSH							
ADULTS, FRESHWATER MATURING	356	387	388	470	735	777	
	1201	1535					
ADULTS, SPAWNING	125	387	388	470	530	778	
	1096	1172	1201	1244	1361	1535	
	1692						
FONTINALIS X NAMAYCUSH							
GENERAL	1262						
EGGS, AT FERTILIZATION	233						
EGGS, FERTILIZED	225	357	373	1660			
LARVAE OR ALEVINS NEWLY HATCHED	225	373	1660				
FRY, MIGRATING	233						
SUBADULTS, FRESHWATER	369	1325	1394				
ADULTS, FRESHWATER MATURING	1325						
ADULTS, SPAWNING	225	357	369	373	1262	1325	
OTHER							
GENERAL	1122	1268	1276	1414	1462		
EGGS, RIPE UNFERTILIZED	1414						
EGGS, FERTILIZED	142	669	1414	1613			
LARVAE OR ALEVINS NEWLY HATCHED	669	1414	1613				
FRY, MIGRATING	669	1276	1414				
FINGERLINGS	165	1037	1476				
SUBADULTS, FRESHWATER	165	1037	1476	1501			
ADULTS, FRESHWATER MATURING	1289						
ADULTS, SALTWATER MATURING	1414						

SPECIES - DEVELOPMENTAL STAGE INDEX

REFERENCE NUMBERS

SPECIES  
STAGE

OTHER

ADULTS, SPAWNING

1276 1289 1414

(OTHER SALMONID HYBRIDS)

GENERAL

100 108 169 326 585 755  
1122

EGGS, RIPE UNFERTILIZED

106 109

EGGS, FERTILIZED

100 104 106 108 169 170  
489 751 754 905

EGGS, AT HATCHING

170

LARVAE OR ALEVINS NEWLY HATCHED

100 106 169 170 184 211  
489 905

FRY, MIGRATING

103 105 106 107 184 754

FINGERLINGS

165 963

SUBADULTS, FRESHWATER

110 163 165 169 1046

ADULTS, FRESHWATER MATURING

105 169 498 1289

ADULTS, SALTWATER MATURING

963

ADULTS, SPAWNING

107 108 109 110 130 166  
169 326 489 585 905 1289  
1332

(OTHER FISHES)

GENERAL

50 51 54 58 74 94  
101 123 126 134 155 164  
167 174 176 193 195 197  
235 248 250 255 264 308  
324 327 330 336 341 353  
365 366 383 388 397 402  
420 425 426 433 458 460  
466 469 488 499 509 511  
514 515 521 543 555 567  
579 591 592 596 617 618



SPECIES - DEVELOPMENTAL STAGE INDEX

SPECIES  
STAGE

REFERENCE NUMBERS

(OTHER FISHES)

GENERAL

632	633	653	660	717	719
728	752	790	792	798	814
825	831	843	867	874	877
889	893	918	932	945	949
953	961	962	968	969	973
1000	1006	1007	1009	1012	1028
1029	1030	1031	1036	1044	1045
1051	1062	1081	1082	1083	1084
1085	1086	1100	1101	1103	1122
1131	1133	1136	1137	1140	1143
1147	1150	1151	1153	1156	1202
1203	1204	1273	1315	1411	1418
1419	1425	1427	1428	1439	1447
1450	1451	1461	1463	1464	1483
1486	1502	1513	1524	1525	1528
1529	1531	1543	1563	1575	1578
1579	1580	1581	1583	1584	1590
1591	1597	1604	1621	1623	1637
1646	1647	1648	1655	1680	1682
1685	1690	1695			

GERMINAL TISSUE

327	471	617	1010	1055	1057
1381	1507	1654			

EGGS, RIPE UNFERTILIZED

96	117	234	244	276	327
378	394	594	596	692	970
1010	1038	1381	1616	1683	

SPERM, RIPE

467	564	1272	1492	1616	1662
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EGGS, FERTILIZED

43	52	82	83	101	117
118	148	221	230	234	276
297	308	371	376	378	390
398	442	502	504	554	557
568	569	573	574	577	592
594	596	597	598	666	684
688	690	730	783	870	871
873	950	952	970	1011	1020
1104	1129	1130	1132	1163	1164
1345	1403	1404	1420	1423	1437
1458	1483	1486	1488	1493	1502
1504	1507	1514	1516	1518	1527
1528	1537	1559	1572	1613	1615

SPECIES STAGE	SPECIES - DEVELOPMENTAL STAGE INDEX REFERENCE NUMBERS					
(OTHER FISHES)						
EGGS, FERTILIZED	1616 1657	1618 1675	1649 1680	1650 1683	1652	1654
EGGS, AT HATCHING	569	871	1516	1649		
LARVAE OR ALEVINS NEWLY HATCHED	52 371 569 871 1132 1504 1609	82 372 574 872	160 378 594 873 1420 1514 1646	221 421 597 945 1425 1516 1683	230 502 868 947 1467 1528	331 504 870 1104 1502 1589
LARVAE OR ALEVINS AT EMERGENCE	571	594	1112			
FRY, MIGRATING	82 574 868 1345 1528 1617	90 591 871	189 592 931 1467 1579	244 594 1002 1507 1593	381 619 1112 1510 1597	571 822 1155 1527 1609
FINGERLINGS	149	824	947	1047	1151	1510
SUBADULTS, FRESHWATER	822 1459	1037 1680	1050	1060	1148	1433
SUBADULTS, SALTWATER	50	1680				
ADULTS, FRESHWATER MATURING	333 592 1466	379 617 1519	399 678	406 683	508 833	578 1201
ADULTS, SALTWATER MATURING	50 573 1056 1131	56 689 1057 1430	57 720 1058 1466	124 822 1059	189 832 1105	234 945 1109
ADULTS, SPAWNING	96 390 871 1059 1164	101 401 931 1101 1273	164 591 945 1105 1425	174 688 1051 1109 1430	308 689 1057 1130 1450	376 870 1058 1131 1461



SPECIES - DEVELOPMENTAL STAGE INDEX  
REFERENCE NUMBERS

SPECIES  
STAGE

(OTHER FISHES)

ADULTS, SPAWNING

1464 1507 1527 1588 1692

1	1464	1507	1527	1588	1692
2	1464	1507	1527	1588	1692
3	1464	1507	1527	1588	1692
4	1464	1507	1527	1588	1692
5	1464	1507	1527	1588	1692
6	1464	1507	1527	1588	1692
7	1464	1507	1527	1588	1692
8	1464	1507	1527	1588	1692
9	1464	1507	1527	1588	1692
10	1464	1507	1527	1588	1692
11	1464	1507	1527	1588	1692
12	1464	1507	1527	1588	1692
13	1464	1507	1527	1588	1692
14	1464	1507	1527	1588	1692
15	1464	1507	1527	1588	1692
16	1464	1507	1527	1588	1692
17	1464	1507	1527	1588	1692
18	1464	1507	1527	1588	1692
19	1464	1507	1527	1588	1692
20	1464	1507	1527	1588	1692
21	1464	1507	1527	1588	1692
22	1464	1507	1527	1588	1692
23	1464	1507	1527	1588	1692
24	1464	1507	1527	1588	1692
25	1464	1507	1527	1588	1692
26	1464	1507	1527	1588	1692
27	1464	1507	1527	1588	1692
28	1464	1507	1527	1588	1692
29	1464	1507	1527	1588	1692
30	1464	1507	1527	1588	1692
31	1464	1507	1527	1588	1692
32	1464	1507	1527	1588	1692
33	1464	1507	1527	1588	1692
34	1464	1507	1527	1588	1692
35	1464	1507	1527	1588	1692
36	1464	1507	1527	1588	1692
37	1464	1507	1527	1588	1692
38	1464	1507	1527	1588	1692
39	1464	1507	1527	1588	1692
40	1464	1507	1527	1588	1692
41	1464	1507	1527	1588	1692
42	1464	1507	1527	1588	1692
43	1464	1507	1527	1588	1692
44	1464	1507	1527	1588	1692
45	1464	1507	1527	1588	1692
46	1464	1507	1527	1588	1692
47	1464	1507	1527	1588	1692
48	1464	1507	1527	1588	1692
49	1464	1507	1527	1588	1692
50	1464	1507	1527	1588	1692
51	1464	1507	1527	1588	1692
52	1464	1507	1527	1588	1692
53	1464	1507	1527	1588	1692
54	1464	1507	1527	1588	1692
55	1464	1507	1527	1588	1692
56	1464	1507	1527	1588	1692
57	1464	1507	1527	1588	1692
58	1464	1507	1527	1588	1692
59	1464	1507	1527	1588	1692
60	1464	1507	1527	1588	1692
61	1464	1507	1527	1588	1692
62	1464	1507	1527	1588	1692
63	1464	1507	1527	1588	1692
64	1464	1507	1527	1588	1692
65	1464	1507	1527	1588	1692
66	1464	1507	1527	1588	1692
67	1464	1507	1527	1588	1692
68	1464	1507	1527	1588	1692
69	1464	1507	1527	1588	1692
70	1464	1507	1527	1588	1692
71	1464	1507	1527	1588	1692
72	1464	1507	1527	1588	1692
73	1464	1507	1527	1588	1692
74	1464	1507	1527	1588	1692
75	1464	1507	1527	1588	1692
76	1464	1507	1527	1588	1692
77	1464	1507	1527	1588	1692
78	1464	1507	1527	1588	1692
79	1464	1507	1527	1588	1692
80	1464	1507	1527	1588	1692
81	1464	1507	1527	1588	1692
82	1464	1507	1527	1588	1692
83	1464	1507	1527	1588	1692
84	1464	1507	1527	1588	1692
85	1464	1507	1527	1588	1692
86	1464	1507	1527	1588	1692
87	1464	1507	1527	1588	1692
88	1464	1507	1527	1588	1692
89	1464	1507	1527	1588	1692
90	1464	1507	1527	1588	1692
91	1464	1507	1527	1588	1692
92	1464	1507	1527	1588	1692
93	1464	1507	1527	1588	1692
94	1464	1507	1527	1588	1692
95	1464	1507	1527	1588	1692
96	1464	1507	1527	1588	1692
97	1464	1507	1527	1588	1692
98	1464	1507	1527	1588	1692
99	1464	1507	1527	1588	1692
100	1464	1507	1527	1588	1692

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S U B J E C T I N D E X

SUBJECT DIVISIONS		REFERENCE NUMBER			
PART 1-MEDIATING FACTORS, ENVIRONMENTAL					
PHYSICAL FACTORS					
GENERAL					
1	GENERAL	8	75	119	267
		404	451	517	704
		770	896	897	916
		958	1004	1080	1205
		1313	1412	1413	1427
		1441	1691		
WATER					
10	DISCHARGE	74	113	122	131
		164	223	249	272
		273	321	428	453
		486	501	507	541
		575	626	628	637
		652	703	705	758
		764	809	934	958
		973	1042	1061	1063
		1075	1131	1135	1288
		1313	1323	1327	1406
		1427	1429	1432	1442
		1468	1474	1487	1508
		1512	1542	1606	1619
		1625	1626	1627	1629
		1668	1676	1678	1691
11	DIRECTION OF FLOW	212	606	753	829
		1013	1042	1117	1585
12	INCLUSIONS	164	207	396	543
		577	613	694	770
		824	878	953	974
		1080	1117	1118	1369
		1373	1690	1693	
SUBSTRATE					
20	CHARACTERISTICS	38	42	74	81
		164	178	207	211
		255	451	472	481
		583	601	606	607
		649	688	739	1000
		1001	1030	1054	1069
		1080	1101	1130	1167



S U B J E C T I N D E X

SUBJECT DIVISIONS	REFERENCE NUMBER
PART 1-MEDIATING FACTORS, ENVIRONMENTAL	
PHYSICAL FACTORS	
SUBSTRATE	
20 CHARACTERISTICS	1201 1239 1241 1307 1313 1373 1383 1414 1468 1474 1479 1508 1592 1606 1623 1626 1628 1629 1664 1690 1691
21 BEHAVIOUR	428 878 1373
22 FINES, INORGANIC	40 42 146 164 207 414 555 725 876 878 974 1028 1070 1075 1130 1292 1444 1474 1619 1621 1623 1627 1629 1655 1670 1672 1691 1693
23 FINES, ORGANIC	126 164 864 1070 1327 1627
WATER-SUBSTRATE INTERACTIONS	
30 WATER-SUBSTRATE INTERACTIONS	42 78 139 164 207 211 271 318 486 494 539 583 601 606 659 811 965 973 1004 1054 1069 1075 1079 1080 1138 1141 1144 1167 1313 1327 1333 1356 1360 1414 1520 1525 1546 1585 1606 1629 1668 1693
ELECTROMAGNETIC ENERGY	
40 VISIBLE LIGHT	15 49 122 322 431 547 552 661 703 824 830 834 869 934 936 1027 1041 1058 1067 1086 1105 1108 1109 1138

S U B J E C T I N D E X

SUBJECT DIVISIONS	REFERENCE NUMBER
PART 1-MEDIATING FACTORS, ENVIRONMENTAL	
PHYSICAL FACTORS	
ELECTROMAGNETIC ENERGY	
40 VISIBLE LIGHT	1140 1141 1144 1196
	1207 1239 1356 1398
	1399 1403 1414 1443
	1446 1521 1525 1529
	1579 1597 1609
41 NON-VISIBLE RADIATION	35 118 148 226
	246 253 298 424
	540 580 824 968
	1125 1377 1458 1483
	1502 1504 1589 1611
	1612 1613 1616 1636
	1643 1652 1653 1686
	1687 1688 1689
42 ELECTRICITY	214 389 523 548
	713
TEMPERATURE	
50 TEMPERATURE	15 31 52 74
	78 89 99 115
	122 139 164 169
	170 177 178 203
	206 211 219 222
	223 224 226 229
	230 272 280 283
	303 321 335 339
	352 363 376 378
	381 422 428 430
	431 432 439 443
	445 448 459 465
	467 468 473 502
	515 520 522 546
	551 591 596 604
	605 616 626 640
	653 684 694 701
	729 730 758 764
	770 774 783 809
	811 829 833 837
	839 844 845 856
	864 869 870 872
	877 915 918 932



S U B J E C T I N D E X

SUBJECT DIVISIONS	REFERENCE NUMBER
PART 1-MEDIATING FACTORS, ENVIRONMENTAL	
PHYSICAL FACTORS	
TEMPERATURE	
50 TEMPERATURE	934 935 944 952
	955 958 962 964
	965 992 1001 1003
	1013 1020 1039 1046
	1047 1049 1052 1058
	1067 1069 1075 1076
	1078 1080 1104 1105
	1107 1108 1109 1110
	1117 1127 1130 1131
	1138 1148 1151 1154
	1159 1167 1185 1208
	1209 1213 1256 1271
	1287 1296 1307 1333
	1356 1382 1390 1394
	1406 1414 1420 1429
	1459 1468 1482 1487
	1490 1492 1495 1496
	1511 1512 1517 1524
	1527 1528 1530 1538
	1542 1547 1549 1569
	1579 1606 1609 1621
	1626 1627 1645 1655
	1659 1669 1671 1673
	1676 1679 1680 1682
	1690 1691 1695
51 ICE FORMATION	744 1013 1427 1629
PRESSURE	
60 PRESSURE, HYDROSTATIC	438 576 842 1001
	1135 1510 1531
61 PRESSURE, MECHANICAL	278 503 701 1080
	1271 1402 1585
62 PRESSURE AND SUPERSATURATION	82 83 311 430
	509 542 549 579
	605 624 718 932
	1008 1029 1031 1063
	1252 1297

S U B J E C T I N D E X

SUBJECT DIVISIONS	REFERENCE NUMBER
PART 1-MEDIATING FACTORS, ENVIRONMENTAL	
PHYSICAL FACTORS	
PRESSURE	
63 PRESSURE, OSMOTIC	135 284 866 1043 1581
TOPOGRAPHY	
70 COVER	73 131 178 601 659 811 1001 1069 1070 1076 1079 1130 1131 1144 1606
CHEMICAL FACTORS	
GENERAL	
100 CHEMICAL FACTORS	119 146 217 218 553 622 897 958 1080 1131 1153 1336 1388 1579
PROPERTIES OF WATER	
110 DISSOLVED OXYGEN	31 40 43 122 139 164 168 169 203 221 281 297 308 321 324 371 398 402 428 443 445 514 569 573 575 579 597 607 613 618 626 629 640 678 753 770 774 826 833 864 871 932 943 953 1001 1008 1009 1013 1028 1054 1063 1075 1076 1080 1084 1112 1117 1129 1132 1135 1138 1141 1151 1152 1167 1215 1241 1288 1296 1297 1333 1459 1468 1486 1487 1516 1524 1537 1538 1609 1615 1619 1621 1627 1629 1637 1655 1680 1690 1691 1693 1695



S U B J E C T I N D E X

SUBJECT DIVISIONS	REFERENCE NUMBER			
PART 1-MEDIATING FACTORS, ENVIRONMENTAL				
CHEMICAL FACTORS				
PROPERTIES OF WATER				
111 PH, CO2, HARDNESS	78	139	283	284
	288	341	395	493
	529	553	613	618
	640	866	904	908
	932	953	958	962
	965	1009	1078	1080
	1103	1112	1117	1136
	1142	1147	1151	1184
	1241	1248	1271	1333
	1343	1360	1388	1406
	1410	1468	1487	1610
	1627	1655	1657	1682
	1690	1695		
112 NITROGEN COMPOUNDS	40	377	618	619
	629	631	640	953
	956	959	961	962
	965	971	974	995
	1009	1014	1060	1062
	1084	1112	1133	1135
	1137	1143	1148	1150
	1153	1384	1410	1493
	1638	1648	1682	1693
	1695			
113 CATIONS	284	619	644	1085
	1152	1272	1335	1336
	1360	1374	1633	1638
	1648	1695		
114 ANIONS	131	145	337	613
	974	1152	1563	1638
115 SALT WATER	41	169	201	298
	309	378	384	432
	447	476	512	596
	602	619	645	706
	733	779	780	793
	827	832	836	841
	849	850	851	864
	866	923	928	1013

SUBJECT INDEX

SUBJECT DIVISIONS	REFERENCE NUMBER
PART 1-MEDIATING FACTORS, ENVIRONMENTAL	
CHEMICAL FACTORS	
PROPERTIES OF WATER	
115 SALT WATER	1036 1092 1107 1108 1110 1142 1226 1230 1272 1290 1335 1336 1356 1357 1366 1370 1375 1410 1420 1530 1601 1655 1680 1695
116 FRESH WATER	41 309 432 454 506 632 633 731 748 928 936 1170 1335 1336
POLLUTANTS	
130 OXYGEN DEMAND	297 324 618 636 639 932 953 973 974 1014 1083 1084 1152 1167 1327 1655
131 BIOCIDES (PESTICIDES, HERBICIDES)	215 234 235 241 279 356 361 374 411 462 500 537 630 670 698 700 759 810 814 879 948 950 951 1068 1246 1305 1341 1344 1372 1393 1406 1446 1556 1564 1565 1566 1572 1617 1644 1665 1679
132 SURFACTANTS	1267
133 TOXIC AGENTS (OTHER THAN 131, 132)	114 133 248 257 272 346 347 360 442 504 519 537 592 596 598 672 691 738 787 819 871 884 886 904 908 914 932 1021 1062 1065 1112 1167



S U B J E C T I N D E X

SUBJECT DIVISIONS	REFERENCE NUMBER
PART 1-MEDIATING FACTORS, ENVIRONMENTAL	
CHEMICAL FACTORS	
POLLUTANTS	
133 TOXIC AGENTS(OTHER THAN 131,132)	1218 1219 1220 1228
	1238 1345 1350 1357
	1368 1371 1380 1401
	1416 1428 1437 1445
	1458 1563 1648 1655
	1679 1695
DRUGS, SPECIAL CHEMICALS	
140 PROPHYLACTICS, DRUGS	120 276 288 316
	344 348 355 419
	461 465 493 526
	532 556 561 678
	740 835 840 886
	929 1077 1109 1532
141 ANAESTHETICS, TRANQUILLIZERS	676 1283
142 OLFATORY STIMULANTS	410 614 789 791
	795 813 1044 1247
	1308 1678
CHEMICAL TAGS, MARKS	
150 CHEMICAL TAGS, MARKS	149 265 331 460
	488 564 571 784
	1227 1228
GENERAL	
200 BIOLOGICAL FUNCTIONS, RESPONSES	133 1268 1310 1455
	1480
DESCRIPTIVE CHARACTERISTICS	
210 TAXONOMY, SYSTEMATICS	252 336 351 453
	498 499 658 749
	937 1053 1096 1268
	1270 1455 1495
211 GEOGRAPHIC DISTRIBUTION, GEOGRAPHIC ORIGIN	4 5 8 9
	10 11 12 13

SUBJECT INDEX

SUBJECT DIVISIONS	REFERENCE NUMBER
PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
DESCRIPTIVE CHARACTERISTICS	
211 GEOGRAPHIC DISTRIBUTION,GEOGRAPHIC ORIGIN	15 16 18 19
	20 21 22 23
	24 25 26 27
	28 29 36 44
	45 46 54 64
	65 74 75 76
	78 111 119 141
	159 161 162 164
	173 181 188 195
	199 258 265 295
	302 337 356 363
	364 378 384 385
	391 400 434 436
	453 469 479 487
	505 600 612 622
	634 641 642 689
	708 714 723 724
	741 772 776 777
	778 815 816 825
	843 848 894 896
	897 907 915 917
	918 921 925 926
	927 930 958 960
	975 976 977 979
	980 981 984 985
	986 988 989 990
	991 992 993 994
	996 998 999 1001
	1024 1042 1048 1053
	1066 1072 1074 1080
	1087 1094 1095 1096
	1099 1106 1174 1199
	1200 1201 1211 1266
	1300 1307 1315 1322
	1383 1400 1407 1409
	1412 1413 1414 1433
	1440 1448 1455 1457
	1460 1462 1464 1468
	1472 1473 1474 1477
	1480 1481 1482 1487
	1496 1497 1499 1501
	1505 1506 1509 1522
	1536 1541 1551 1571
	1600 1605 1607 1624
	1626 1629 1631 1634



S U B J E C T I N D E X

SUBJECT DIVISIONS	REFERENCE NUMBER
PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
DESCRIPTIVE CHARACTERISTICS	
211 GEOGRAPHIC DISTRIBUTION,GEOGRAPHIC ORIGIN	1641 1676 1677
212 MORPHOMETRICS,MERISTICS	15 27 31 32
	33 37 38 39
	41 50 51 79
	84 85 87 88
	89 91 99 100
	103 105 106 107
	108 110 119 141
	158 159 162 163
	164 165 168 169
	170 180 181 184
	196 197 198 202
	203 205 208 213
	244 245 250 252
	257 258 285 292
	299 302 326 332
	333 339 342 345
	352 360 363 370
	371 372 374 378
	383 385 386 388
	396 405 424 429
	434 436 441 445
	453 469 470 474
	484 490 501 504
	505 512 585 591
	592 600 602 613
	622 661 669 685
	686 689 694 696
	710 714 721 732
	736 743 745 747
	754 755 771 774
	777 816 817 818
	820 821 822 823
	830 843 859 861
	863 871 872 881
	902 909 912 927
	936 937 940 941
	944 946 955 958
	960 963 964 967
	1001 1004 1017 1022
	1033 1034 1040 1046
	1049 1053 1058 1067
	1068 1074 1080 1092

SUBJECT INDEX

SUBJECT DIVISIONS				REFERENCE NUMBER
PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES				
BIOLOGICAL FACTORS				
DESCRIPTIVE CHARACTERISTICS				
208	212	MORPHOMETRICS,	MERISTICS	1096 1104 1108 1125
202	207	208	212	1127 1132 1151 1155
198	199	200	203	1168 1173 1193 1194
200	202	203	204	1200 1201 1205 1206
217	205	206	209	1209 1214 1216 1219
207	207	207	207	1231 1245 1268 1269
205	205	205	205	1272 1276 1282 1289
208	208	208	208	1306 1318 1321 1325
218	208	208	208	1328 1329 1332 1352
210	209	209	210	1357 1361 1363 1364
208	209	209	210	1378 1382 1400 1407
200	200	200	200	1414 1422 1425 1429
200	200	200	200	1440 1444 1447 1448
200	200	200	200	1449 1450 1453 1454
200	200	200	200	1455 1457 1460 1462
200	200	200	200	1468 1472 1473 1475
200	200	200	200	1476 1480 1481 1482
200	200	200	200	1484 1485 1487 1489
200	200	200	200	1491 1492 1496 1497
200	200	200	200	1498 1499 1504 1505
200	200	200	200	1506 1511 1512 1513
200	200	200	200	1516 1517 1522 1526
200	200	200	200	1535 1536 1544 1545
200	200	200	200	1548 1554 1561 1562
200	200	200	200	1570 1573 1593 1599
200	200	200	200	1607 1608 1609 1619
200	200	200	200	1620 1623 1624 1626
200	200	200	200	1630 1631 1632 1634
200	200	200	200	1635 1639 1641 1645
200	200	200	200	1647 1676 1677 1680
200	200	200	200	1681 1683 1690
200	200	200	200	13
200	200	200	200	14
200	200	200	200	15
200	200	200	200	16
200	200	200	200	17
200	200	200	200	18
200	200	200	200	27
200	200	200	200	31
200	200	200	200	71
200	200	200	200	81
200	200	200	200	96
200	200	200	200	101
200	200	200	200	105
200	200	200	200	106
200	200	200	200	109
200	200	200	200	134
200	200	200	200	149
200	200	200	200	153
200	200	200	200	158
200	200	200	200	177
200	200	200	200	183
200	200	200	200	188
200	200	200	200	198
200	200	200	200	200
200	200	200	200	209
200	200	200	200	244
200	200	200	200	256
200	200	200	200	260
200	200	200	200	272
200	200	200	200	281
200	200	200	200	282
200	200	200	200	291
200	200	200	200	295
200	200	200	200	296
200	200	200	200	299
200	200	200	200	322
200	200	200	200	328
200	200	200	200	345
200	200	200	200	356
200	200	200	200	357
200	200	200	200	387
200	200	200	200	388
200	200	200	200	400
200	200	200	200	436
200	200	200	200	462
200	200	200	200	470
200	200	200	200	479
200	200	200	200	482



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SUBJECT DIVISIONS		REFERENCE NUMBER			
PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES					
BIOLOGICAL FACTORS					
DESCRIPTIVE CHARACTERISTICS					
213	SIZE	489	496	504	505
		518	536	559	569
		616	621	627	641
		642	643	649	684
		686	697	706	716
		731	735	745	747
		756	758	760	764
		778	799	800	801
		803	804	805	811
		817	901	905	910
		917	920	925	958
		1001	1003	1004	1005
		1018	1019	1023	1038
		1039	1042	1054	1057
		1074	1099	1103	1120
		1141	1174	1178	1180
		1189	1201	1211	1212
		1213	1217	1219	1229
		1239	1269	1276	1279
		1293	1295	1300	1303
		1316	1325	1363	1366
		1378	1383	1387	1391
		1400	1420	1433	1436
		1454	1464	1485	1499
		1527	1532	1535	1544
		1565	1661	1666	1677
		1690	1691	1692	
214	AGE	14	23	27	46
		48	49	62	79
		91	119	149	170
		203	205	219	225
		266	291	299	339
		345	350	356	357
		364	365	388	391
		400	406	421	436
		453	463	477	479
		485	505	518	528
		541	586	600	613
		621	622	696	745
		747	756	758	760
		764	771	777	778
		780	782	800	805
		816	822	847	849

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SUBJECT DIVISIONS	REFERENCE NUMBER
PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
DESCRIPTIVE CHARACTERISTICS	
214 AGE	861 869 874 910
	917 925 927 937
	944 958 960 972
	1003 1017 1047 1048
	1053 1080 1103 1154
	1172 1189 1201 1211
	1216 1217 1229 1269
	1279 1292 1301 1325
	1328 1330 1366 1383
	1400 1407 1437 1440
	1448 1450 1455 1460
	1472 1473 1475 1481
	1482 1484 1485 1487
	1488 1492 1496 1497
	1498 1499 1507 1508
	1512 1517 1522 1527
	1535 1554 1562 1573
	1579 1608 1619 1623
	1627 1628 1631 1634
	1642 1645 1656 1677
	1691
215 BIOCHEMICAL COMPOSITION	30 99 117 119
	142 144 148 151
	152 153 199 213
	216 240 247 265
	310 354 356 387
	402 406 412 474
	478 487 497 498
	499 635 644 646
	658 660 666 671
	680 690 788 820
	821 854 855 856
	857 859 860 868
	950 957 972 1035
	1056 1063 1176 1180
	1250 1251 1259 1260
	1261 1367 1438 1456
	1457 1465 1466 1469
	1477 1478 1493 1514
	1557 1576 1577 1598
	1600 1601 1617 1624
	1635 1639 1641 1654
	1656 1657 1658 1660



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BIOLOGICAL FACTORS	
DESCRIPTIVE CHARACTERISTICS	
215  BIOCHEMICAL COMPOSITION	1684
216  STOCK IDENTIFICATION	91 154 247 475 708 815 1001 1181 1466 1477 1512 1624 1661
217  ANATOMY, MORPHOLOGY	119 277 314 356 497 617 651 654 657 692 828 841 1112 1157 1269 1301 1318 1374 1423 1476 1507 1579 1593 1596 1686
218  DEVELOPMENT	49 83 117 119 121 125 135 139 140 144 191 246 253 254 277 436 453 474 484 651 654 655 657 664 690 830 845 847 853 868 928 929 939 943 957 958 970 1010 1011 1038 1043 1049 1067 1111 1112 1116 1126 1132 1138 1145 1154 1162 1164 1169 1182 1183 1186 1187 1190 1191 1206 1208 1241 1292 1376 1383 1386 1401 1403 1414 1415 1423 1442 1455 1456 1458 1467 1490 1500 1502 1507 1511 1514 1532 1559 1598 1611 1615 1618 1627 1633 1635 1640 1642 1643 1650 1651 1652 1653 1654 1656 1659 1660 1663 1684 1686 1688 1689

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BIOLOGICAL FACTORS					
DESCRIPTIVE CHARACTERISTICS					
219	DEVELOPMENTAL ANOMALIES	35	52	106	148
		211	234	238	269
		348	389	407	413
		489	492	504	527
		540	580	604	849
		850	871	1063	1155
		1158	1342	1377	1393
		1502	1504	1516	1589
		1616	1620	1643	1644
		1653	1687	1688	
220	CYTOLOGY,HISTOLOGY	35	104	259	300
		316	635	646	648
		687	691	727	873
		1026	1158	1185	1230
		1290	1381	1385	1431
		1449	1582		
GENETIC,RACIAL CHARACTERISTICS					
230	GENETIC FACTORS	27	29	35	173
		426	427	475	498
		867	1080	1116	1214
		1262	1263	1461	1462
		1602			
231	POPULATION DIFFERENCES	16	17	27	28
		29	30	93	96
		115	119	164	181
		199	229	258	290
		294	350	364	369
		376	382	423	427
		436	453	477	487
		634	706	710	724
		749	781	788	815
		829	859	863	1001
		1024	1074	1080	1131
		1209	1270	1274	1306
		1318	1400	1414	1425
		1477	1485	1505	1512
		1558	1570	1579	1602
		1609	1620	1624	1625
		1634	1691		



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GENETIC,RACIAL CHARACTERISTICS	
232 AGE OF MATURITY	17 18 27 59
	92 101 109 119
	162 163 165 169
	177 182 183 188
	260 268 291 299
	322 345 359 436
	453 470 492 546
	611 645 663 686
	714 771 773 778
	797 861 863 887
	937 958 960 1001
	1005 1017 1022 1032
	1034 1039 1080 1099
	1131 1194 1211 1216
	1276 1279 1318 1325
	1328 1329 1331 1363
	1389 1391 1414 1440
	1473 1475 1476 1482
	1487 1497 1512 1522
	1535 1676 1677 1690
233 GENES,CHROMOSOMES	169 205 231 252
	327 364 373 387
	423 425 499 788
	1107 1414 1505 1616
234 INBREEDING	238 496 775
235 HYBRIDIZATION	100 103 106 107
	108 109 110 112
	127 128 129 130
	166 169 175 184
	233 326 387 453
	489 498 585 751
	905 1080 1289 1595
236 SELECTION,BREEDING	174 216 496 1022
	1106 1620
237 GYNOGENESIS	675 867 1107 1692

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PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
GENETIC,RACIAL CHARACTERISTICS	
238 SEX RATIOS	15 46 69 81
	92 101 162 169
	183 188 253 293
	299 322 349 359
	388 391 434 453
	485 663 689 742
	745 758 760 764
	767 799 800 805
	847 854 856 857
	861 863 917 925
	927 937 958 1001
	1005 1017 1032 1039
	1053 1056 1080 1130
	1131 1168 1189 1216
	1262 1268 1269 1276
	1279 1295 1325 1328
	1329 1414 1440 1472
	1473 1476 1480 1482
	1484 1487 1496 1497
	1506 1508 1512 1562
	1625 1626 1631 1634
	1645 1658 1666 1676
	1677 1691
239 FECUNDITY	13 14 15 68
	72 81 109 113
	119 164 169 183
	186 188 209 214
	228 246 256 257
	266 268 282 295
	299 317 320 349
	357 360 376 388
	436 453 470 505
	563 591 689 706
	710 747 778 799
	804 809 861 863
	913 927 931 958
	1001 1017 1019 1022
	1032 1051 1080 1092
	1099 1130 1131 1174
	1201 1211 1217 1220
	1235 1273 1276 1303
	1305 1311 1318 1320
	1325 1331 1332 1338



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BIOLOGICAL FACTORS	
GENETIC,RACIAL CHARACTERISTICS	
239  FECUNDITY	1363 1383 1389 1414 1440 1450 1453 1454 1464 1468 1480 1487 1491 1496 1497 1505 1507 1508 1512 1527 1544 1607 1620 1631 1634 1677 1690 1691 1692
PHYSIOLOGICAL CHARACTERISTICS	
250  PHYSIOLOGICAL FACTORS	1096 1551
261  INGESTION,ASSIMILATION	118 134 303 526 853 869 948 1173 1228 1352 1458 1577 1613 1627
262  EXCRETION,ELIMINATION	526 631 956 961 965 966 1012 1014 1083 1133 1493 1514 1695
263  GROWTH AND METABOLISM	43 72 82 99 134 140 230 490 491 554 594 602 629 674 853 929 1063 1064 1133 1221 1222 1223 1227 1239 1251 1356 1455 1456 1513 1598 1608 1619
264  DEVELOPMENTAL VELOCITY OF EGGS	43 52 100 113 118 119 169 170 190 196 206 219 226 371 374 376 378 394 439 443 453 462 484 489 502 522 530 559 661 664 677 684 730 783 849 850

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BIOLOGICAL FACTORS	
PHYSIOLOGICAL CHARACTERISTICS	
264 DEVELOPMENTAL VELOCITY OF EGGS	871 928 939 957
	958 1011 1020 1054
	1068 1080 1104 1130
	1132 1138 1141 1151
	1208 1238 1319 1383
	1390 1414 1415 1420
	1456 1488 1504 1511
	1576 1611 1616 1618
	1627 1633 1641 1654
	1659 1667 1680 1683
	1688 1690 1691
265 METABOLISM, INTERMEDIARY	57 117 120 142
	222 284 593 631
	650 670 671 674
	785 786 828 849
	854 889 966 1133
	1166 1173 1240 1252
	1254 1257 1258 1312
	1560 1642 1649 1654
	1660 1662 1665 1695
266 HAEMATOLOGY, SEROLOGY, IMMUNOLOGY	30 41 114 140
	143 148 289 290
	315 477 595 658
	664 681 727 775
	781 827 855 856
	857 860 971 1012
	1047 1127 1184 1188
	1206 1215 1248 1386
	1431 1469 1477 1533
	1561 1614 1637 1657
	1695
267 ENDOCRINE	56 57 191 204
	208 240 300 368
	490 491 492 672
	679 750 819 835
	840 841 889 1035
	1056 1057 1059 1125
	1158 1192 1195 1242
	1581 1614 1636 1640



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PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
PHYSIOLOGICAL CHARACTERISTICS	
267 ENDOCRINE	1645
268 CONDITION	62 153 191 219 296 317 333 472 508 515 564 597 617 621 683 689 698 700 720 734 745 758 764 782 856 965 1017 1035 1047 1211 1231 1314 1318 1378 1431 1478 1498 1527 1595 1630 1631 1637 1644 1691
269 RESPIRATION,RESPIRATORY,METABOLISM	114 122 148 168 169 170 224 396 430 453 514 678 793 872 943 1003 1037 1080 1127 1151 1166 1213 1250 1317 1368 1404 1424 1442 1452 1470 1486 1494 1500 1523 1540 1559 1579 1609 1612 1615 1680
270 GAMETOGENESIS,EGG MATURATION	109 194 196 562 594 677 680 692 1019 1055 1056 1057 1158 1175 1192 1195 1232 1236 1242 1257 1258 1261 1331 1381 1383 1415 1453 1541 1557 1582 1654
271 FERTILIZATION,WATER HARDENING,HATCHING	16 18 104 108 121 126 177 231 297 569 594 646 675 767 787 866 888 905 1043 1075 1107 1119 1139 1159

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PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES					
BIOLOGICAL FACTORS					
PHYSIOLOGICAL CHARACTERISTICS					
271	FERTILIZATION, WATER HARDENING, HATCHING	1240	1257	1258	1300
		1302	1336	1343	1383
		1438	1540	1576	1627
		1691			
272	SMOLTING	55	79	125	551
		837	1279	1581	1649
		1651			
273	MATURATION OF ADULTS	56	109	310	315
		343	490	491	497
		594	617	660	661
		672	679	687	727
		733	745	779	782
		785	786	832	835
		840	854	855	856
		857	860	889	992
		1018	1019	1035	1053
		1056	1057	1058	1059
		1105	1109	1180	1192
		1195	1207	1208	1209
		1243	1269	1301	1314
		1331	1363	1383	1449
		1487	1491	1498	1499
		1505	1507	1561	1614
		1645			
274	OSMOREGULATION, ION REGULATIONS	86	827	841	1043
		1142	1146	1224	1226
		1290	1336	1351	1375
275	PERFORMANCE, CAPACITY, ENDURANCE	37	201	274	279
		296	369	378	381
		446	559	587	589
		593	705	792	793
		807	808	824	836
		842	1008	1021	1080
		1127	1151	1213	1272
		1396	1421	1492	1520
		1524	1532	1533	1585
		1590	1680		



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PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
PHYSIOLOGICAL CHARACTERISTICS	
276 TOLERANCE AND RESISTANCE	168 169 229 233
	272 288 304 339
	347 360 361 377
	395 442 476 500
	502 504 519 532
	596 605 630 631
	691 730 738 780
	819 833 839 844
	870 871 877 914
	923 943 952 959
	971 995 1021 1060
	1065 1078 1103 1106
	1110 1112 1127 1137
	1148 1150 1238 1246
	1267 1271 1368 1401
	1406 1410 1416 1437
	1442 1445 1446 1495
	1510 1523 1569 1590
	1637 1652 1655 1680
	1695
277 SURVIVAL,VIABILITY,MORTALITY	1 13 15 16
	17 18 33 38
	40 41 45 48
	52 66 70 71
	72 80 81 82
	100 103 106 108
	113 114 119 139
	148 156 163 164
	165 169 170 177
	178 185 186 197
	201 206 210 212
	214 215 219 220
	221 225 226 234
	235 241 242 257
	272 278 285 297
	299 301 305 308
	313 325 332 333
	335 339 340 341
	342 346 348 349
	360 370 371 372
	373 374 386 390
	395 396 398 409
	412 414 421 424

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BIOLOGICAL FACTORS	
PHYSIOLOGICAL CHARACTERISTICS	
277 SURVIVAL,VIABILITY,MORTALITY	428 435 448 453
	459 462 465 467
	472 479 481 484
	492 496 500 501
	502 503 505 520
	526 534 537 538
	548 550 563 564
	569 573 577 585
	591 592 596 598
	602 604 607 611
	613 615 616 619
	621 624 627 628
	636 639 649 652
	661 663 685 691
	694 696 697 700
	701 709 710 718
	725 727 729 734
	742 743 746 747
	754 759 762 771
	774 783 799 801
	804 806 810 820
	821 826 830 836
	839 842 850 856
	861 864 865 866
	870 871 872 874
	875 876 878 881
	884 922 923 935
	938 941 942 945
	954 964 971 978
	983 992 993 995
	997 1000 1021 1023
	1035 1052 1060 1062
	1063 1064 1068 1072
	1075 1076 1077 1078
	1080 1090 1092 1104
	1110 1130 1132 1134
	1141 1148 1155 1167
	1176 1177 1200 1208
	1210 1220 1231 1233
	1245 1246 1267 1271
	1285 1288 1292 1297
	1304 1305 1312 1316
	1327 1328 1341 1344
	1345 1346 1350 1357
	1361 1364 1370 1371



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PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
PHYSIOLOGICAL CHARACTERISTICS	
277 SURVIVAL,VIABILITY,MORTALITY	1372 1384 1387 1390 1393 1395 1401 1402 1414 1418 1420 1422 1427 1428 1444 1445 1449 1459 1468 1474 1481 1488 1490 1492 1496 1502 1504 1508 1510 1511 1516 1518 1524 1528 1530 1558 1566 1572 1578 1589 1599 1606 1609 1610 1617 1619 1620 1621 1627 1629 1630 1641 1643 1644 1646 1648 1656 1664 1670 1672 1674 1675 1681 1683 1687 1688 1690 1691 1693
278 CELL,TISSUE CULTURES	283 305 1385
279 HERMAPHRODITISM	379 581 648
280 STERILIZATION,GONADECTOMY	316 368 490 491
BEHAVIOUR AND PERCEPTION	
300 BEHAVIOUR AND PERCEPTION	119 150 167 306 337 578 812 824 1080 1149 1269 1414 1416 1421 1441 1529 1539 1578 1579 1581 1627 1678
301 VISUAL	232 236 272 280 293 343 432 457 461 463 546 676 837 902 909 912 1080 1105 1196 1207 1283 1286 1443 1467 1470 1500 1529 1539

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PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
BEHAVIOUR AND PERCEPTION	
301 VISUAL	1579 1583 1627 1628 1641
302 OLFACTORY	116 293 322 410 457 612 614 676 740 796 813 1044 1080 1225 1247 1249 1253 1283 1286 1298 1308 1309 1326 1405 1408 1579 1583 1678
303 SOUND,PRESSURE	1503 1515 1579 1583
304 RHEOTAXIS,THIGMOTAXIS	482 647 705 1080 1128 1442 1525 1579 1625 1627 1628 1678
305 GEOTAXIS,GALVANOTAXIS	293 309 869 1080 1341 1579 1583 1590 1627 1628
306 LEARNING,IMPRINTING	795 1015 1405 1579
307 RHYTHMS,INTERNAL	89 90 203 280 281 322 337 401 429 430 505 607 673 750 777 834 869 934 964 1027 1037 1042 1109 1136 1207 1229 1392 1397 1414 1424 1427 1433 1439 1471 1474 1491 1497 1501 1515 1534 1548 1549 1626 1627 1691
308 NON-SOCIAL BEHAVIOUR	49 119 163 203 232 384 416 454



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PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
BEHAVIOUR AND PERCEPTION	
308 NON-SOCIAL BEHAVIOUR	470 481 599 626
	673 705 821 834
	1044 1137 1149 1151
	1197 1229 1239 1269
	1325 1429 1443 1449
	1471 1479 1519 1579
	1594 1609 1627 1628
	1693
309 MIGRATION,HOMING	15 17 18 27
	29 33 56 57
	62 68 69 84
	86 87 89 115
	119 124 133 150
	153 162 164 167
	187 202 204 218
	228 229 263 271
	280 281 293 294
	337 340 342 354
	359 362 384 385
	400 415 422 431
	434 457 463 464
	479 484 495 505
	506 516 541 578
	589 615 620 621
	622 623 625 626
	627 634 647 659
	673 676 679 682
	696 702 703 710
	711 712 713 716
	722 724 745 749
	753 786 789 791
	792 795 796 808
	820 821 822 829
	843 883 916 934
	936 937 958 1001
	1013 1039 1042 1044
	1046 1053 1073 1080
	1128 1130 1131 1175
	1179 1192 1194 1195
	1218 1230 1237 1253
	1254 1283 1284 1286
	1298 1309 1312 1314
	1323 1325 1326 1341

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BIOLOGICAL FACTORS	
BEHAVIOUR AND PERCEPTION	
309 MIGRATION,HOMING	1394 1396 1405 1408
	1414 1416 1421 1430
	1435 1465 1468 1477
	1482 1487 1496 1512
	1521 1539 1579 1581
	1582 1585 1588 1605
	1614 1666 1669 1676
310 SCHOOLING,AGGREGATING	101 147 163 164
	167 251 328 352
	367 432 464 634
	659 693 790 812
	838 859 869 1000
	1044 1144 1149 1197
	1278 1321 1414 1443
	1452 1519 1529 1552
	1578 1579 1619 1626
	1666
311 SPAWNING	8 9 13 14
	15 16 17 18
	33 96 119 125
	138 142 146 147
	178 190 212 217
	219 223 227 263
	275 291 354 359
	390 392 401 447
	451 453 506 507
	530 539 576 582
	583 588 649 667
	687 693 731 832
	871 888 889 894
	916 958 1001 1005
	1035 1039 1053 1057
	1058 1071 1080 1087
	1088 1089 1090 1092
	1094 1095 1096 1101
	1102 1117 1130 1131
	1160 1164 1220 1243
	1269 1304 1312 1313
	1333 1334 1383 1389
	1414 1444 1457 1462
	1474 1487 1496 1503



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BIOLOGICAL FACTORS	
BEHAVIOUR AND PERCEPTION	
311 SPAWNING	1508 1515 1579 1581 1625 1626 1666 1676 1690
312 SUPERIMPOSITION OF REDDS	33 38 39 40 81 190 320 453 583 649 693 697 864 1157 1165 1461 1468 1508 1567 1606 1626 1629 1690 1691
313 HABITAT SELECTION	42 53 119 164 181 200 236 285 308 447 601 622 659 688 697 706 710 715 721 723 741 824 859 900 940 946 958 1046 1050 1053 1069 1070 1127 1161 1196 1269 1278 1322 1333 1398 1399 1402 1408 1409 1412 1413 1414 1443 1444 1446 1468 1471 1474 1480 1487 1508 1547 1568 1569 1606 1621 1623 1626 1629 1666 1676 1679 1690
ECOLOGICAL CHARACTERISTICS	
330 ECOLOGICAL FACTORS	27 42 126 129 273 312 383 515 590 665 770 771 789 791 865 878 893 898 900 1001 1013 1122 1123 1124 1240 1269 1294 1310 1323 1330 1337 1365 1425 1440 1441 1453 1461 1479 1544 1551 1560 1595 1622 1647 1693

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PART 2-BIOLOGICAL EFFECTS, FUNCTIONS, RESPONSES	
BIOLOGICAL FACTORS	
ECOLOGICAL CHARACTERISTICS	
331 DISTRIBUTION IN TIME	9 10 11 13
	14 15 16 33
	63 65 67 81
	113 119 161 164
	172 182 188 197
	205 243 299 322
	328 350 370 400
	434 453 472 481
	482 505 552 607
	608 609 610 634
	695 696 697 706
	710 721 724 758
	764 794 804 822
	856 863 936 940
	978 1001 1023 1045
	1048 1073 1099 1161
	1174 1200 1207 1209
	1366 1383 1389 1414
	1425 1468 1471 1475
	1478 1480 1481 1482
	1484 1491 1496 1497
	1505 1508 1587 1607
	1609 1620 1627 1629
	1667 1669 1671 1673
	1676 1681 1690 1691
332 DISTRIBUTION IN SPACE	9 10 14 18
	20 21 22 24
	25 26 33 36
	38 39 40 44
	69 71 74 81
	134 162 164 193
	197 251 267 285
	308 313 317 328
	337 350 352 363
	367 384 386 405
	421 437 451 472
	481 494 528 578
	607 613 622 626
	649 673 693 694
	695 696 697 706
	709 710 721 722
	730 816 820 821
	825 863 864 865



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PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
ECOLOGICAL CHARACTERISTICS	
332  DISTRIBUTION IN SPACE	869 874 881 902
	909 940 941 942
	945 958 967 983
	1001 1019 1030 1041
	1046 1079 1080 1088
	1089 1090 1091 1144
	1149 1165 1170 1194
	1197 1201 1205 1266
	1292 1360 1366 1369
	1387 1414 1422 1444
	1468 1470 1474 1481
	1487 1500 1501 1508
	1524 1552 1606 1619
	1626 1627 1628 1629
	1630 1674 1690
333  INTRAGRAVEL BENTHOS	53 126 164 200
	227 242 334 383
	555
334  INTRASPECIFIC COMPETITION	164 281 328 352
	528 694 771 940
	1278 1340 1519 1628
	1630
335  INTERSPECIFIC COMPETITION	73 88 164 193
	337 352 453 482
	494 578 616 622
	662 696 818 843
	1050 1120 1131 1144
	1276 1280 1411 1439
	1509 1519 1547 1579
	1595 1630 1634
336  PREDATION,SCAVENGING	13 15 61 81
	150 156 164 243
	245 335 337 416
	437 510 530 560
	584 608 609 610
	613 696 697 713
	716 826 838 843

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PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
ECOLOGICAL CHARACTERISTICS	
336 PREDATION,SCAVENGING	874 1015 1080 1130
	1131 1177 1178 1244
	1276 1299 1357 1417
	1419 1434 1471 1481
	1501 1509 1526 1530
	1586 1591 1594 1597
	1604 1606 1619 1629
	1641 1681
337 PARASITISM,DISEASE	47 54 60 80
	91 93 95 157
	181 256 304 305
	311 366 386 391
	392 399 435 452
	453 465 483 509
	529 532 534 574
	707 718 743 765
	768 932 935 949
	992 1016 1061 1080
	1130 1131 1245 1270
	1274 1287 1297 1325
	1327 1359 1362 1370
	1483 1638 1647
338 FOOD,FOOD SUPPLY,FEEDING	18 66 84 87
	90 94 99 101
	102 105 119 134
	149 151 162 164
	169 193 200 202
	203 245 310 337
	363 367 372 383
	393 405 421 429
	453 454 470 479
	530 536 599 630
	662 669 689 694
	696 698 735 737
	744 745 746 748
	774 816 859 877
	903 910 937 942
	946 958 967 968
	1016 1018 1025 1026
	1027 1033 1037 1040
	1041 1044 1047 1048



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BIOLOGICAL FACTORS	
ECOLOGICAL CHARACTERISTICS	
338  FOOD,FOOD SUPPLY,FEEDING	1050 1052 1058 1080
	1096 1127 1131 1152
	1180 1205 1211 1229
	1268 1269 1306 1320
	1321 1325 1356 1363
	1370 1392 1397 1409
	1411 1433 1436 1439
	1447 1448 1450 1471
	1475 1496 1499 1509
	1517 1519 1526 1527
	1528 1529 1530 1534
	1535 1549 1564 1565
	1586 1587 1593 1594
	1595 1599 1607 1609
	1619 1623 1634 1646
	1647 1674 1677 1695
339  STARVATION	66 310 372 823
	832 1047 1399 1568
	1599 1635
340  SURVIVAL OF POPULATIONS	6 7 15 18
	27 69 70 72
	81 101 138 155
	162 172 192 220
	262 266 282 312
	320 362 453 479
	517 590 600 603
	608 609 610 621
	622 637 649 688
	692 696 697 710
	809 811 863 864
	865 871 888 892
	899 919 935 938
	955 978 983 993
	1001 1051 1072 1101
	1200 1266 1277 1294
	1295 1325 1389 1461
	1468 1497 1579 1602
	1629 1694
341  ACCLIMATIZATION	84 336 590 642
	757 780 1121 1293

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PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
ECOLOGICAL CHARACTERISTICS	
341 ACCLIMATIZATION	1311 1379 1459 1484 1524 1530 1600
342 INTRODUCTIONS	27 98 105 111 138 245 415 774 1066 1121 1171 1265 1277 1284 1295 1304 1307 1324 1325 1379 1552 1554
343 NATURAL OBSTRUCTIONS	146 864 1080 1294 1402
344 CARRYING CAPACITY	249 337 385 501 613 622 741 771 814 820 821 825 848 865 964 1076 1120 1135 1198 1280 1282 1294 1317 1324 1330 1356 1365 1388 1416 1444 1475 1526 1623 1626 1629 1630 1677
345 ABUNDANCE	11 12 13 20 21 32 33 34 38 45 64 69 70 72 77 78 81 145 164 189 205 299 317 320 337 362 453 480 611 616 622 652 665 694 695 704 706 715 721 724 743 776 816 825 843 848 865 882 887 888 922 924 931 933 936 945 955 1001 1017 1087 1091 1092 1101 1165 1198 1199 1200 1201



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ECOLOGICAL CHARACTERISTICS					
345	ABUNDANCE	1204	1233	1234	1235
		1264	1266	1273	1278
		1295	1324	1328	1330
		1353	1365	1366	1414
		1416	1426	1427	1430
		1432	1441	1450	1460
		1468	1471	1472	1474
		1475	1478	1481	1484
		1491	1496	1498	1499
		1507	1517	1564	1566
		1574	1595	1619	1621
		1622	1623	1647	1677
		1681			
MANIPULATIVE EVENTS					
360	MANIPULATION OF STOCK,ENVIRONMENT	42	133	146	267
		275	293	362	616
		653	715	731	739
		810	811	875	877
		898	899	900	1076
		1080	1081	1287	1349
		1369	1380	1402	1563
		1579	1621	1655	1691
361	MAN-MADE OBSTACLES	9	72	124	125
		340	422	486	508
		509	516	531	604
		608	609	610	623
		625	626	627	628
		637	683	702	703
		705	720	723	842
		872	1101	1113	1130
		1131	1402	1430	1461
		1585			
362	EXPLOITATION	1	2	3	6
		7	12	13	15
		22	24	25	26
		34	46	64	69
		70	77	111	132
		136	137	147	164
		176	187	192	266

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BIOLOGICAL FACTORS	
MANIPULATIVE EVENTS	
362 EXPLOITATION	362 453 470 600
	603 608 609 610
	611 632 633 689
	724 732 736 782
	797 800 803 805
	858 861 880 883
	890 911 933 960
	978 982 983 984
	987 992 993 997
	1001 1080 1233 1244
	1264 1330 1419 1426
	1463 1496 1573 1632
	1647
363 ESCAPEMENT	1 2 4 5
	12 21 22 23
	24 25 26 34
	44 46 63 64
	65 67 68 69
	70 72 77 81
	131 172 186 282
	350 358 453 603
	607 608 609 610
	622 709 710 760
	776 803 863 865
	880 890 894 911
	913 921 925 926
	927 930 975 976
	977 978 979 980
	981 982 983 985
	986 987 988 989
	990 991 992 993
	994 996 997 998
	999 1080 1088 1089
	1091 1189 1198 1199
	1235 1266 1275 1299
	1389 1412 1413 1475
	1691
364 GEAR SELECTIVITY	182 412 663 1013
	1080 1189 1543



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PART 2-BIOLOGICAL EFFECTS,FUNCTIONS,RESPONSES	
BIOLOGICAL FACTORS	
MANIPULATIVE EVENTS	
365 OPTIMIZATION	113 164 622 883
	892 899 906 919
	992 1001 1022 1092
	1244 1275 1339 1604
	1620
PROCUREMENT,PROCESSING OF FISH	
380 EGG AND FISH PROCUREMENT AND PROCESSING	37 1159 1518
381 PRESERVATION	558 644
382 MOUNTING AND STAINING	458 533 558 769
	846 947 1423
384 AGING AND STAGING	50 51 59 382
	617 1034 1172 1269
	1480 1489
385 COLLECTING,TRAPPING,SAMPLING	133 261 286 307
	317 320 544 568
	572 617 643 656
	695 699 711 712
	719 726 758 763
	764 806 1179 1212
	1548 1602
386 COUNTING,ESTIMATING	72 160 171 179
	268 286 317 320
	358 438 440 450
	456 508 535 538
	683 720 721 726
	763 809 883 1002
	1092 1285 1592
387 MEASURING,WEIGHING	353 565
388 MARKING,TAGGING	72 93 111 123
	133 149 330 331

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388	MARKING, TAGGING	332	333	403	408
		418	420	450	460
		466	488	503	513
		571	623	634	638
		663	728	734	753
		761	762	768	784
		794	802	806	808
		858	882	885	895
		1080	1177	1178	1283
		1361	1364	1414	1489
		1584	1595	1675	1690
389	HOLDING, TRANSPORTING	48	210	212	226
		446	511	529	544
		615	676	935	938
		1142	1286	1340	
390	GUIDING	1113			
PROPAGATION, CULTURE					
410	PROPAGATION AND CULTURE	111	113	119	163
		165	259	296	317
		320	349	528	542
		543	570	588	645
		685	801	893	907
		937	1080	1081	1108
		1234	1310	1329	1339
		1449	1463	1469	1472
		1555	1617	1620	1631
		1647			
411	HATCHERIES, EGG-TO-FRY	2	9	32	72
		81	133	143	189
		198	287	306	318
		321	334	342	370
		453	484	522	527
		545	547	551	553
		752	799	804	850
		851	891	978	997
		1000	1023	1049	1052
		1104	1136	1163	1194
		1255	1256	1291	1292



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411 HATCHERIES, EGG-TO-FRY	1337 1348 1481 1596 1641
412 HATCHERIES, EGG-TO-FINGERLING OR SMOLT	61 157 164 177 523 525 600 611 640 752 887 891 922 924 937 1014 1040 1049 1197 1347 1353 1356 1422 1538
413 REARING FACILITIES	41 79 85 133 153 285 292 338 507 659 817 843 940 1027 1033 1063 1084 1115 1116 1135 1213 1214 1288 1347 1349 1453 1459 1506 1553 1641
414 SPAWNING CHANNELS	33 134 38 40 72 81 285 319 474 531 649 653 881 978 983 992 1292 1355 1357 1358 1387 1691
415 HABITAT IMPROVEMENT	298 328 429 637 717 736 821 953 1031 1084 1114 1115 1118 1121 1152 1214 1282 1296 1321 1430 1553 1585 1592 1623
416 INTRODUCTIONS	71 73 89 111 239 262 359 441 517 566 696 709 710 732 757 848 852 919 941 942 978 1046 1080 1090 1093 1097 1098 1102 1114 1122 1123 1124

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PROPAGATION, CULTURE	
416 INTRODUCTIONS	1205 1325 1354 1357 1359 1362 1484 1521 1535 1609 1681
417 SELECTIVE BREEDING, GENETIC MANIPULATION	97 198 449 524 1059 1119 1332 1602 1603 1620 1631
418 SPAWNING	39 96 100 133 212 237 270 274 301 323 444 459 468 492 550 562 767 866 867 1038 1104 1105 1109 1210 1234 1271 1371 1453 1492 1575 1595 1624
419 STORAGE OF SEX PRODUCTS	237 274 446 448 459 467 468 550 562 563 564 766 1176 1271 1302
420 PROPHYLAXIS, DISEASE CONTROL	157 174 276 298 344 348 355 375 380 419 449 465 473 493 523 549 556 561 951 968 1245 1483
421 FOODS, DIETS, FEEDING REGIMES	149 668 820 821 823 944 1064 1080 1083 1104 1155 1173 1231 1245 1317 1352 1431 1449 1577 1617
422 GRAVEL CLEANING	72 555 974 1153
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440 SAMPLING THE ENVIRONMENT	255 1546 1647



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PART 3-METHODS AND TECHNIQUES	
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441 WATER SAMPLING DEVICES, INTRAGRAVEL	308 433 521 1156 1690
442 WATER ANALYSIS, N COMPOUNDS	798 954 969 1085 1086 1100 1140 1143
443 WATER ANALYSIS, O <sub>2</sub> , TEMP., PERMEABILITY	433 557 954 1006 1084 1690
444 WATER ANALYSIS, IONS, METALS, POLLUTANTS	798 954 1136 1147 1690
445 EGG, ALEVIN SAMPLING	45 308 472 1134 1291
446 METEOROLOGICAL EVENTS	864 1136 1307 1388 1427 1528 1583 1690
447 BENTHOS SAMPLING	255 567 831 1007 1082
LABORATORY TECHNIQUE	
460 LABORATORY TECHNIQUE	397 742 795 969 1036 1065 1085 1086 1100 1146 1147 1169 1225 1240 1249 1285 1404 1408 1486 1494 1500 1502 1518 1531 1575 1579 1636
462 OSMOMETRY	1147
464 SPECTROGRAPHY	154 265 772 873 957
465 OBSERVATION TECHNIQUES	123 620 807 808 873 970 1281 1486

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PART 3-METHODS AND TECHNIQUES				
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465	OBSERVATION TECHNIQUES	1584		
466	BLOOD SAMPLING TECHNIQUES	240	417	1181 1438
		1658		
467	CHROMOSOME PREPARATION	327	458	471 846
468	PHOTOGRAPHY, X-RAY PHOTOGRAPHY	565		
NUMERICAL ANALYSIS				
480	NUMERICAL ANALYSIS	92	116	220 250
		324	480	865 931
		973	1193	1273 1373
		1406	1419	1447 1460
		1463	1464	1513 1517
		1567	1588	
481	DATA PROCESSING	248	261	1426 1496
482	YEAR CLASS ANALYSIS	13	15	27 65
		132	299	388 505
		758	764	777 874
		1001	1045	1198 1266
		1528	1580	1632
483	POPULATION GENETICS	1426		
484	ESTIMATING NUMBERS	19	20	21 22
		23	24	25 26
		36	44	132 136
		137	187	261 282
		299	404	611 622
		742	776	858 885
		1088	1089	1092 1094
		1198	1199	1346 1426
		1543	1574	1632 1690



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485 LIFE EXPECTANCY	185 455 704 1418
486 POPULATION MODELS	58 155 176 197
	243 264 266 299
	365 437 600 858
	861 874 945 1199
	1202 1203 1204 1266
	1275 1426 1451 1496
	1580 1591 1604 1646
	1694
487 GAS TRANSFER THEORY	329 1129 1537
BIBLIOGRAPHIES	
500 BIBLIOGRAPHIES	123 125 195 452
	765 862 1550 1603
	1647 1685