

## GENERAL INDEX

	Page		Page
Alaska, Karluk Lake.....	407	buffalo mullet.....	316
O'Malley Lake.....	430	bullhead, common.....	350
Thumb Lake.....	429	deep-water.....	351
salmon-tagging in.....	399-406	mongrel.....	351
statistical review of salmon:		burbot.....	393
index (Parts I-IV).....	663-673	Busycyon canaliculatum.....	99
Part III: Prince William Sound, Copper River,		Campostoma anomalum.....	329, 348
and Bering River.....	187-247	canadense griseum, Stizostedion.....	365
Part IV: Southeastern Alaska.....	437-663	canadensis, Cynoperca.....	365
Alectrion obsoleta.....	99	canaliculatum, Busycyon.....	99
Alvordius maculatus.....	370	caprodes zebra, Percina.....	370
Ambloplites rupestris.....	382	carp, German.....	322
Ameluridæ.....	349	carpio, Cyprinus.....	322
Amelurus natalis.....	350	Carpiodes cyprinus.....	316
nebulosus.....	350	cataractæ, Rhinichthys.....	328
anisurum, Moxostoma.....	321	catfish, spotted.....	349
anomalum, Campostoma.....	329, 348	yellow.....	350
Aplites salmoides.....	380	Catostomus commersonii.....	317
Aplodinotus grunniens.....	383	Catostomidæ.....	317
artedi, Leucichthys.....	308	Centrarchidæ.....	378
Atherinidæ.....	383	channel cat.....	349
atherinoides, Notropis.....	332, 335, 339	chrysops, Lepibema.....	359
atromaculatus atromaculatus, Semotilus.....	329	chub, creek.....	329
atronasus lunatus, Rhinichthys.....	327	crested.....	323
aureolum, Moxostoma.....	320	river.....	323
Ball, Edward M., and Willis H. Rich: Statistical review		Storer's.....	324
of Alaska salmon fisheries. Index (Parts I-IV).....	663-673	cinerea, Urosalpinx.....	85
Part III: Prince William Sound, Copper River, and		cisco.....	308
Bering River.....	187-247	Clinostomus elongatus.....	330
Part IV: Southeastern Alaska.....	437-663	clupeaformis, Coregonus.....	310
bairdii bairdii, Cottus.....	387, 389	Clupea pallasii.....	15, 263
kumlieni, Cottus.....	387, 389	cockatosh.....	385
barred killifish.....	356	codfishes.....	393
bass:		coeruleus coeruleus, Poecilichthys.....	376
black.....	378	coeruleus, Oligocephalus.....	376
largemouth.....	380	commersonii, Catostomus.....	317
smallmouth.....	378	common bullhead.....	350
gray.....	383	shiner.....	339
goggle-eyed.....	382	sucker.....	317
rock.....	382	sunfish.....	381
silver.....	359	Contributions to the early life histories of sixty-two species	
white.....	350	of fishes from Lake Erie and its tributary waters.....	293-398
basses, sea.....	359	copelandi, Cottogaster.....	373
bifrenatus, Notropis.....	331	Rheocrypta.....	373
bill-fish.....	305	Copeland's darter.....	373
black bass, largemouth.....	380	Coregonidæ.....	308
smallmouth.....	378	Coregonus clupeaformis.....	310
black-head minnow.....	347	cornutus chrysocephalus, Notropis.....	339
black-nosed dace.....	327	chrysocephalus, Luxilus.....	339
minnow.....	331	costalesi, Smaragdus.....	120
black sided darter.....	370	Cottidæ.....	385
blue darter.....	376	Cottogaster copelandi.....	373
blunt-nosed minnow.....	343	Cottus bairdii bairdii.....	387, 389
Boleichthys exilis.....	377	bairdii kumlieni.....	387, 389
boleosoma, Gobionellus.....	120, 121	franklini.....	387
boleosoma nigrum nigrum.....	374	ictnlops.....	389
breviceps, Evorthodus.....	117, 120	ricei.....	391
brook silverside.....	383	creek chub.....	326
stickleback.....	392	crested chub.....	323

	Page	fish—continued.	Page
Cristivomer namaycush namaycush.....	315	barred killifish.....	356
crSOLEUCAS crSOLEUCAS, Notemigonus.....	342	bass:	
Cynoperca canadensis.....	365	black.....	378
Cyprinidæ.....	322	largemouth.....	380
Cyprinodontidæ.....	356	smallmouth.....	378
Cyprinus carpio.....	322	gray.....	383
cyprinus, Carpiodes.....	316	goggle-eyed.....	382
		rock.....	382
dace, black-nosed.....	327	silver.....	359
horned.....	329	white.....	359
long-nosed.....	328	basses, sea.....	359
red-sided.....	330	carp, German.....	322
Dahlgren, Edwin H., and George A. Rounsefell:		white.....	316
Fluctuations in the supply of herring, <i>Clupea pallasii</i> , in		cat, channel.....	349
Prince William Sound, Alaska.....	263-291	silver.....	349
darter, black-sided.....	370	catfish, spotted.....	349
blue.....	376	yellow.....	350
Copeland's.....	373	catfishes.....	349
Iowa.....	377	channel cat.....	349
Johnny.....	374	chub, creek.....	329
rainbow.....	376	crested.....	323
soldier.....	376	river.....	323
deep-water bullhead.....	351	Storer's.....	324
sculpin.....	385	cisco.....	306
deliciosa straminea, <i>Hybopsis</i> .....	332	cockatosh.....	385
stramineus, <i>Notropis</i> .....	332, 339	Copeland's darter.....	373
diaphanus menona, <i>Fundulus</i> .....	356	common bullhead.....	350
menona, <i>Zygocetus</i> .....	356	shiner.....	339
diatoms, Karluk Lake, Alaska.....	434	sucker.....	317
dolomieu, <i>Micropterus</i> .....	378	sunfish.....	381
drill, oyster.....	85	creek chub.....	329
drumfishes.....	383	crested chub.....	323
drum, freshwater.....	383	dace, black-nosed.....	327
		horned.....	329
eel-pout.....	393	long-nosed.....	328
Effects of pulp mill pollution on oysters.....	125-186	red-sided.....	330
elongatus, <i>Clinostomas</i> .....	330	darter, black-sided.....	370
emerald minnow.....	335	blue.....	376
Erinemus storerianus.....	324	Copeland's.....	373
Esocidæ.....	352	Iowa.....	377
<i>Esox lucius</i> .....	352	Johnny.....	374
<i>Esox masquinongy</i> .....	353	rainbow.....	376
<i>Eucalia inconstans</i> .....	392	soldier.....	376
<i>Eupomotis gibbosus</i> .....	381	deep-water bullhead.....	351
Evorthodus breviceps.....	117, 120	deep-water sculpin.....	385
lyricus.....	117	drumfishes.....	383
minutus.....	124	drum, fresh-water.....	383
exilis, <i>Boleichthys</i> .....	377	eel-pout.....	393
Pocellichys.....	377	emerald minnow.....	335
Factors influencing the spawning and setting of oysters in		fat-head minnow.....	347
Galveston Bay, Tex.....	57-83	fresh-water drum.....	383
fat-head minnow.....	347	gar, long-nosed.....	305
Federighi, Henry: Studies on the oyster drill ( <i>Urosalpinx</i>		gar-pike.....	305
cinerea, Say).....	85-115	German carp.....	322
fish:		gobies.....	117
bill-fish.....	305	goggle-eyed bass.....	382
black bass.....	378	golden shiner.....	342
largemouth.....	380	grayback minnow.....	356
smallmouth.....	378	gray bass.....	383
black-head minnow.....	347	gudgeon.....	393
black-nosed dace.....	327	hammerhead.....	319
minnow.....	331	herring, lake.....	308
black-sided darter.....	370	Pacific.....	15, 263
blue darter.....	376	toothed.....	306
blunt-nosed minnow.....	343	hog sucker.....	319
brook silverside.....	383	horned dace.....	329
stickleback.....	392	horned pout.....	350
buffalo mullet.....	316	Iowa darter.....	377
bullhead, common.....	350	Johnny darter.....	374
deep-water.....	351	killifish, barred.....	356
mongrel.....	351	lake herring.....	308
burbot.....	393	sculpin.....	387

fish—continued.	Page	fish—continued.	Page
lake herring—continued.		spotted catfish.....	349
shiner.....	335	stickleback, brook.....	392
trout.....	315	two-spined.....	392
largemouth bass.....	380	stonecat.....	351
lawyer.....	393	stone-roller minnow.....	348
ling.....	393	sucker.....	319
log perch.....	370	Storer's chub.....	324
long-nosed dace.....	328	straw-colored minnow.....	332
miller's thumb.....	387, 389	sucker, common.....	317
minnow, blackhead.....	347	hog.....	319
black-nosed.....	331	red-horse.....	320, 321
blunt-nosed.....	343	stone-roller.....	319
emerald.....	335	white.....	317
fat-head.....	347	suckers.....	317
grayback.....	356	sunfish, common.....	381
mud.....	352	sunfishes.....	378
rosy-faced.....	339	swordfin.....	316
spot-tailed.....	334	thumb, miller's.....	387, 389
stone-roller.....	348	toothed herring.....	306
straw-colored.....	332	trout, lake.....	315
mongrel bullhead.....	351	trout-perch.....	357
mooneye.....	306	two-spined stickleback.....	392
mud minnow.....	352	wall-eyed pike.....	368
mullet.....	317	white bass.....	359
buffalo.....	316	carp.....	316
red-fin.....	320	whitefish.....	310
white-nosed red-fin.....	321	whitefishes.....	308
muskallunge.....	353	white-nosed red-fin mullet.....	321
muskalonge.....	353	white sucker.....	317
northern pike.....	352	yellow catfish.....	350
Pacific herring.....	15, 263	yellow perch.....	362
perch, log.....	370	yellow pike.....	368
yellow.....	362	Fish, Marie Poland: Contributions to the early life his-	
perches.....	362	tories of sixty-two species of fishes from Lake Erie and	
pickereel.....	352	its tributary waters.....	293-398
pike, northern.....	352	flavescens, Perca.....	362
sand.....	365	flavus, Noturus.....	351
wall-eyed.....	368	floridana, Huro.....	380
yellow.....	368	Fluctuations in the supply of herring, <i>Clupea pallasii</i> , in	
pike-perch.....	368	Prince William Sound, Alaska.....	263-291
pout, horned.....	350	in southeastern Alaska.....	15-56
pumpkinseed.....	381	franklini, Cottus.....	387
quillback.....	316	freshwater drum.....	383
rainbow darter.....	376	<i>Fundulus diaphanus menona</i> .....	356
red-sided dace.....	330	Gadidæ.....	393
red-horse sucker.....	320, 321	Galtsoff, P. S., A. E. Hopkins, and H. C. McMillin:	
red-fin shiner.....	339	Effects of pulp mill pollution on oysters.....	125-186
mullet.....	320	gar, long-nosed.....	305
rice sculpin.....	391	garmani, Gobius.....	120
river chub.....	323	gar-pike.....	305
rock bass.....	382	Gasterosteidæ.....	392
rosy-faced minnow.....	338	German carp.....	322
sand pike.....	365	gibbosus, Eupomotis.....	381
sauger.....	365	gigas, Ostrea.....	1, 162
sculpin.....	380	Ginsburg, Isaac: Juvenile and sex characters of <i>Evorthod-</i>	
deep-water.....	385	<i>us lyricus</i> (Fam. Gobiidæ).....	117-124
lake.....	387	gobies.....	117
rice.....	391	juvenile and sex characters.....	117
sea basses.....	359	<i>Evorthodus lyricus</i> .....	121
sheepshead.....	383	<i>Evorthodus minutus</i> .....	124
shiner, common.....	339	gobio, <i>Mugilostoma</i> .....	120
golden.....	342	<i>Gobionellus boleosoma</i> .....	120, 121
lake.....	335, 330	shufeldti.....	121
silver bass.....	359	Gobius garmani.....	120
silver cat.....	349	lyricus.....	117, 120, 121
silverside, brook.....	383	parvus.....	120
skipjack.....	383	wurdemannii.....	121
smallmouth bass.....	378	goggle-eyed bass.....	382
soldier darter.....	376	golden shiner.....	342
spot-tailed minnow.....	334	gray bass.....	383

	Page		Page
grayback minnow.....	356	Karluk Lake, Alaska.....	407
grunniens, <i>Aplodinotus</i> .....	383	diatoms.....	434
gudgeon.....	393	limnology.....	407
<i>Hadropterus maculatus</i> .....	370	physical and chemical data.....	408
hammerhead.....	319	bottom deposits, chemistry of.....	421
herring:		lake, location, and physical features.....	408
lake.....	308	lakes, chemistry of.....	415
Pacific.....	15, 263	streams, chemistry of.....	418
fluctuations in supply of.....	15, 263	temperatures.....	411
Prince William Sound.....	263	water, transparency of.....	411
fishery.....	264	plankton data.....	423
fishing grounds.....	267	centrifuge.....	432
history and development.....	264	net.....	423
populations, local.....	269	Karluk Lake.....	425
recommendations.....	289	O'Malley Lake.....	430
supply, condition of.....	273	Thumb Lake.....	429
abundance, factors influencing.....	273	<i>Labidesthes sicculus</i> .....	383
Southeastern Alaska.....	16	lake herring.....	308
catch records.....	25	sculpin.....	387
abundance, levels of.....	33	shiner.....	335
catch, average size.....	25	trout.....	315
average weekly.....	29	largemouth bass.....	380
decline of older fishing grounds.....	26	lawyer.....	393
number of deliveries, changes in.....	26	<i>Lepibema chrysops</i> .....	359
depletion, biological evidence of.....	36	<i>Lepisosteidae</i> .....	305
factors affecting catch.....	16	<i>Lepisosteus osseus</i> .....	305
fishing effort, changes in unit of.....	19	<i>Leucichthys artedii</i> .....	308
plants, capacity of.....	23	limi, Umbra.....	352
regulations, effect of.....	16	limnology, Karluk Lake, Alaska.....	407
season, changes in.....	16	Limnological studies of Karluk Lake, Alaska, 1926-1930.....	407-436
recommendations.....	38	ling.....	393
toothed.....	306	log perch.....	370
heterodon, <i>Notropis</i> .....	331	long-nosed dace.....	328
heterolepis, <i>Hybopsis</i> .....	331	<i>Lota maculosa</i> .....	393
<i>Notropis</i> .....	331	lucius, <i>Esox</i> .....	352
<i>Hiodon tergisus</i> .....	306	lurida, <i>Ostrea</i> .....	2, 125
<i>Hiodontidae</i> .....	306	<i>Luxilus cornutus chrysocephalus</i> .....	339
Hopkins, A. E.: Factors influencing the spawning and setting of oysters in Galveston Bay, Tex.....	57-83	lyricus, <i>Evorthodus</i> .....	117-124
Sensory stimulation of the oyster, <i>Ostrea virginica</i> , by chemicals.....	249-261	<i>Gobius</i> .....	117, 120, 121
Temperature and the shell movements of oysters.....	1-14	<i>maculatus</i> , <i>Hadropterus</i> .....	370
Hopkins, A. E., P. S. Galtsoff, and H. C. McMillin: Effects of pulp mill pollution on oysters.....	125-186	Alvordius.....	370
hog sucker.....	319	<i>maculosa</i> , <i>Lota</i> .....	393
horned dace.....	329	Mann, Albert, C. Juday, Willis H. Rich, and G. I. Kemmerer: Limnological studies of Karluk Lake, Alaska, 1926-1930.....	407-436
pout.....	350	<i>masquinongy</i> , <i>Esox</i> .....	356
<i>Hodsonius hudsonius</i> .....	334	McMillin, H. C., A. E. Hopkins, and P. S. Galtsoff: Effects of pulp mill pollution on oysters.....	125-186
<i>hudsonius</i> , <i>Notropis</i> .....	334	<i>micropogon</i> , <i>Noconis</i> .....	323
<i>Huro floridana</i> .....	380	<i>Micropterus dolomieu</i> .....	378
<i>Hyborhynchus notatus</i> .....	343, 347	miller's thumb.....	387, 389
<i>Hybopsis deliciosa straminea</i> .....	332	minnow, black-head.....	347
heterolepis.....	331	black-nosed.....	331
<i>Hypentelium nigricans</i> .....	319	blunt-nosed.....	343
<i>Ictalurus punctatus</i> .....	349	emerald.....	334
<i>inconstans</i> , <i>Eucalla</i> .....	392	fat-head.....	347
Iowa darter.....	377	grayback.....	356
Johnny darter.....	374	mud.....	352
Juday, C., Willis H. Rich, G. I. Kemmerer, and Albert Mann: Limnological studies of Karluk Lake, Alaska, 1926-1930.....	407-436	rosy-faced.....	339
Juvenile and sex characters of <i>Evorthodus lyricus</i> (Fam. <i>Gobiidae</i> ).....	117-124	spot-tailed.....	334
Kemmerer, G. I., C. Juday, Willis H. Rich, and Albert Mann: Limnological studies of Karluk Lake, Alaska, 1926-1930.....	407-436	stone-roller.....	348
killifish, barred.....	356	straw-colored.....	332
		<i>minutus</i> , <i>Evorthodus</i> .....	124
		mongrel bullhead.....	351
		mooneye.....	306
		<i>Moxostoma aureolum</i> .....	320
		<i>Moxostoma anisurum</i> .....	321
		mud minnow.....	352
		<i>Mugilostoma gobio</i> .....	120

	Page		Page
mullet.....	317	oysters—continued	
buffalo.....	316	sensory stimulation of, by chemicals.....	249-261
red-fin.....	320	alkalies.....	254
white-nosed red-fin.....	321	cane sugar.....	256
muskallunge.....	353	cumarin.....	251
muskalonge.....	353	magnesium chloride.....	252
		potassium chloride.....	252
namaycush namaycush, Cristivomer.....	315	quinine sulphate.....	254
natalis, Ameiurus.....	350	sodium chloride.....	252
nebulosus, Ameiurus.....	350	spawning and setting of, in Galveston Bay.....	57-83
nigricans, Hypentelium.....	319	cultch, use of wire bags.....	80
nigrum nigrum, Boleosoma.....	374	diatoms, abundance of.....	77
Nocomis micropogon.....	323	Offatts Bayou, description of.....	60
northern pike.....	352	salinity and pH of water.....	67
notatus, Hyborhynchus.....	343, 347	setting, observations on.....	70
Notemigonus crysoleucas crysoleucas.....	342	determining dates of.....	72
Notropis atherinoides.....	322, 335, 339	influence of salinity on.....	74
bifrenatus.....	331	periods during season.....	73
cornutus chrysocephalus.....	339	spat, growth of.....	71
deliciosus stramineus.....	332, 339	spawning season.....	60
heterodon.....	331	sex.....	64
heterolepis.....	331	water temperature.....	65
hudsonius.....	334	temperature and shell movements of.....	1-14
rubifrons.....	338	Olympia oysters, experiments with.....	2
Noturus flavus.....	351	shell behavior, diurnal variation.....	6
		Eastern oysters, experiments with.....	11
obsoleta, Alectrion.....	99	Ostrea lurida.....	2
Oligocephalus coeruleus.....	376	Ostrea virginica.....	11
O'Malley Lake, Alaska.....	430	Ostrea gigas.....	1
omiscomaycus, Percopsis.....	357	Pacific herring.....	15, 263
osseus, Lepisosteus.....	305	pallasii, Clupea.....	15, 263
Ostrea gigas.....	1, 162	parvus, Gobius.....	120
lurida.....	2, 125	Perca flavescens.....	363
virginica.....	11, 57, 249	perch, log.....	370
oyster drill.....	85	yellow.....	362
control measures.....	105	Percidæ.....	362
preventing distribution.....	107	Percina caprodes zebra.....	370
removal from infested area.....	107	Percopsidæ.....	357
natural history of.....	86	Percopsis omiscomaycus.....	357
breeding habits.....	101	pickerel.....	352
creeping and migrations.....	93	pike, northern.....	352
description of species.....	80	sand.....	365
feeding habits.....	97	yellow.....	368
range and occurrence.....	86	wall-eyed.....	368
salinity and distribution.....	89	pike-perch.....	368
temperature effects.....	96	Pimephales promelas promelas.....	347
tropisms.....	103	Poecilichthys coeruleus coeruleus.....	376
oysters:		exilis.....	377
effects of pulp mill pollution on.....	125	pollution, effects of pulp mill on oysters.....	125
I. The effect of sulphite waste liquor on the oyster		pout, horned.....	350
(Ostrea lurida).....	125	promelas promelas, Pimephales.....	347
acid liquor, experiments with.....	134	pumpkinseed.....	381
general considerations.....	132	punctatus, Ictalurus.....	349
neutralized liquor, experiments with.....	145	quillback.....	316
material and methods.....	129	rainbow darter.....	370
sensory reaction to liquor.....	147	red-fin mullet.....	320
sulphite waste liquor.....	126	shiner.....	339
results, discussion of.....	148	red-horse sucker.....	320, 321
II. The effect of sulphite waste liquor on the rate		red-sided dace.....	330
of feeding of Ostrea lurida and O. gigas.....	162	Rheocrypta copelandi.....	373
III. Investigations of oyster mortality in Oak-		Rhinichthys atronatus lunatus.....	327
land Bay, Wash.....	167	cataractæ.....	328
concentration of liquid Oakland Bay.....	167	rice sculpin.....	391
conclusions.....	184	ricei, Cottus.....	391
ecological observations.....	174	Rich, Willis H.: Salmon-tagging experiments in Alaska,	
barnacles, growth of.....	174	1930.....	399-406
domestic sewage.....	176	Rich, Willis H.: O. Juday, G. I. Kemmerer and Albert	
log storage.....	175	Mann: Limnological studies of Karluk Lake, Alaska,	
plant growth.....	175	1926-1930.....	407-436
spawning.....	174		
sulphite waste liquor pollution.....	180		
survey of beds.....	168		

	Page		Page
Rich, Willis H., and Edward M. Ball: Statistical review of Alaska salmon fisheries.		shiner, common.....	335
Index (parts I-IV).....	663	golden.....	342
Part III: Prince William Sound, Copper River, and Bering River.....	187-247	lake.....	335
Part IV: Southeastern Alaska.....	437-663	red-fin.....	339
river chub.....	323	shufeldti, Gobionellus.....	121
rock bass.....	382	sicculus, Labidesthes.....	383
rosy-faced minnow.....	338	silver bass.....	359
Rounsefell, George A.: Fluctuations in the supply of herring ( <i>Clupea pallasii</i> ) in southeastern Alaska.....	15-56	cat.....	349
Rounsefell, George A., and Edwin H. Dahlgren: Fluctuations in the supply of herring, <i>Clupea pallasii</i> , in Prince William Sound, Alaska.....	263-291	silverside, brook.....	383
rupestris, <i>Ambloplites</i> .....	382	skipjack.....	383
rubifrons, <i>Notropis</i> .....	338	smallmouth bass.....	378
salmon, Alaska.....	187, 437	<i>Smaragdus costalesi</i> .....	120
Bering River.....	245	soldier darter.....	376
Copper River.....	238	spot-tailed minnow.....	334
Prince William Sound.....	187	spotted catfish.....	349
Eastern part.....	222	Statistical review of Alaska salmon fisheries:	
Hinchinbrook Entrance district.....	232	Index (Parts I-IV).....	663
Port Fidalgo district.....	225	Part III: Prince William Sound, Copper River, and Bering River.....	187
Port Gravina and Orca Bay district.....	227	Part IV: Southeastern Alaska.....	437
Valdez Arm district.....	222	stickleback, brook.....	392
Western part.....	204	two-spined.....	392
Eaglek Bay district.....	217	<i>Stizostedion canadense griseum</i> .....	365
Glacier Island district.....	220	vitreum.....	368
Knight Island Passage district.....	204	stonecat.....	351
Montague Strait district.....	211	stone-roller minnow.....	348
Port Wells district.....	214	sucker.....	319
Unakwik Inlet district.....	218	storerianus, <i>Erinemus</i> .....	324
Southeastern Alaska.....	437	Storer's chub.....	324
Behm Canal district.....	627	straw-colored minnow.....	332
Chatham Strait.....	484	Studies on the oyster drill ( <i>Urosalpinx cinerea</i> , Say).....	85
Clarence Strait district.....	587	sucker, common.....	317
Cordova Bay district.....	575	hog.....	319
Ernest Sound district.....	617	red horse.....	320
Frederick Sound.....	502	stone-roller.....	319
Icy Strait.....	449	white.....	317
Lynn Canal.....	474	sunfish, common.....	381
Nakat Bay district.....	551	swordfin.....	316
Peril Strait.....	534	Temperature and the shell movements of oysters.....	1-14
Revillagigedo Channel district.....	639	tergatus, <i>Hiodon</i> .....	306
Stephens Passage.....	513	thompsoni, <i>Trigloporus</i> .....	385
Stikine River.....	553	thumb, miller's.....	387, 389
Sumner Strait district.....	538	Thumb Lake, Alaska.....	429
Unallocated.....	650	toothed herring.....	306
West coast of Chichagof and Barnanof Islands district.....	523	<i>Trigloporus thompsoni</i> .....	385
West coast of Prince of Wales Island district.....	557	trout-perch.....	357
Yakutat.....	440	trout, lake.....	315
salmoides, <i>Aplites</i> .....	380	trouts.....	315
salmon-tagging, Alaska.....	399	two-spined stickleback.....	392
Cape Fox.....	402	Umbra limi.....	352
Kasaan Bay.....	404	Umbridae.....	352
Salmonidae.....	315	Urosalpinx cinerea.....	85
sand pike.....	365	virginica, <i>Ostrea</i> .....	11, 57, 249
sauger.....	365	vitreum, <i>Stizostedion</i> .....	368
Sciænidae.....	383	wall-eyed pike.....	368
sculpin.....	389	white bass.....	359
deep-water.....	385	carp.....	316
lake.....	387	sucker.....	317
rice.....	391	whitefish.....	310
sea basses.....	359	whitefishes.....	308
<i>Semotilus atromaculatus atromaculatus</i> .....	329	white-nosed red-fin mullet.....	321
Sensory stimulation of the oyster, <i>Ostrea virginica</i> , by chemicals.....	249-261	wurdemanni, <i>Gobius</i> .....	121
Serranidae.....	359	yellow catfish.....	350
sheepshead.....	383	perch.....	362
		pike.....	368
		<i>Zygonectes diaphanus menona</i> .....	356