

INDEX.

	Page.		Page.
A.			
Abadejo.....	80	Anchovy.....	55, 419
Aberdeen.....	186	fishing.....	388
Abbott, Leon.....	189	Anderson, Capt. James L.....	404, 438
Acanthocybium solandri.....	77	Andrews, E. A.....	87
Acanthurus chirurgus.....	78	Anemometer.....	149
cœruleus.....	78	Angelfischerei.....	284
tractus.....	78	Angel fish.....	178, 386
Acerina.....	40	Angermann River.....	327
Acclimatization of fish in Australia.....	81	Angling, cited.....	272
Aclanella mornani.....	237	Anguilla.....	111
Acroperus leucocephalus.....	443	aucklandii.....	55
Actinophrys.....	434	australis.....	55
Acushnet River.....	312	cubana.....	111
Addison Center, schooner.....	249	rostrata.....	111
A. F. Gifford, schooner.....	175	Anguillidæ.....	208
Agassiz, Prof. A.....	311	Annis, jr., James.....	85
Prof. L.....	293, 294	Anolophus, v. grœcum.....	178
Agonostoma forsteri.....	55	Anthias richardsoni.....	54
Ahlborn, Forester.....	117	Appetite of the muskrat.....	297
Aiken, Capt. John P.....	438	Applegate Creek.....	217
Alaska Commercial Company.....	134	Aquaria, artificial sea-water for.....	465
Territory, salmon of.....	134	Aquia Creek.....	199
Albatross, electric lighting.....	153	Artificial propagation of salmon.....	201
engines.....	145	sea-water.....	465
steamer.....	151	Arcachon.....	106
Albicore.....	77	Bay.....	98, 100
Albula vulpes.....	79	Portuguese oyster in.....	100
Aldon, Mr.....	404	Archibald, Mr.....	413
Alewives.....	7, 203	Architenthis harvøyi.....	403
catching of.....	255	Arctocephalus cinereus.....	53
Algæ, habitat of.....	24	Arens, C.....	120
Algeria, fisheries of.....	418	Arius felis.....	79
Algiers, fish imported.....	393	Armstrong, George W.....	83
quantity of fish imported.....	392	W. M.....	233
Alice M. Williams, schooner.....	446, 464	Arripis salar.....	54
Allman, Professor.....	193	Arrow-head.....	160
Alpena, Mich.....	113	Arthur, Chester A.....	359
Altenfjord.....	388	Asia.....	127
Amagansett, N. Y.....	177, 386	Astroscoopus.....	386
Amber jack.....	77	anolophus.....	178
American Angler, cited.....	311	Atherina stipes.....	79
Field, cited.....	296	Atkins, Charles G.....	115, 176, 341, 383
Fish-cultural Association.....	463	Atlantic Halibut Company.....	240
fish in English waters.....	60	Atwater, W. O.....	203, 238
fish exported.....	393	Aude, River.....	138
lotus.....	159, 160	Auray River.....	103
Amiurus albidus.....	292	Ausable River, grayling in.....	470
melas.....	292	Austin, Tex.....	230
nebulosus.....	292	Australasia.....	127
Ammotretis guntheri.....	55	Australia.....	128, 190
Ancher, Ernst.....	167	Avoca, N. C.....	162
		Ayrshire.....	193

B.		Page.
	Page.	
Babson, Capt. F. J.	405, 406, 435, 437, 464	Blackford, E. G. 16, 112, 176, 210, 315, 323, 332, 361
Bacalao	80	Black grouper
Bache, R. M.	373, 374	River
Back Lake	470	Black, L. H.
Bacon, Sir Francis	14	Blackwills
Bade, Captain	118	Bladder-wort
Baird distilling apparatus	149 160, 257, 261, 456
G. W.	145, 153	Bland, John
Prof. S. F. 132, 48, 177, 267, 291, 318, 350, 379		Blank forms, list of
Balao	79 397
Balaós	79	Blatchford, Capt. Benjamin F.
Baldwin, Charles H.	352 175
Balistes carolinensis	78	Blaufelchen (Coregonus)
vetula, occurrence of	13 121
Ballahoo	79	Blear-eyed herring
Ballantrae	103, 107	Block Island
Baltimore, Md.	316	fishing grounds
Banmeyer, M.	52 49
Banquereau	237	Blue-back mullet
Barber, C. H.	87	Bluefish
Barden, John H.	338 7, 78, 123, 203, 263, 312, 444
Barmen, trout at	119	Blue flag
Barneget City, N. J.	177, 386	perch
Barnes, E.	140, 242 37
Barracouta of New Zealand	54	Boar-fish
Barracuda of Florida	77	Bodianus rufus
Bartet, Mr.	281	Bonaci
Bartie Pierce, schooner	438 77
Bartlett, J. R.	315	Bone-fish
Bass	338 79
big-mouthed	7	Bonito
black	7 7, 77
size of	365	Booth & Sons, A.
Batrachus tau	79 303
Battery Station	520	Booth Bay lobster fishery
Bean, Dr. Tarleton H. 13, 38, 217, 240, 292, 293, 341, 387, 391	 424
Beardslee, L. A.	288	Borthwick, Christopher
Bear Lake	51 60
Becharde Brothers	176	Borne, Max von dem 115, 122, 168, 219, 284, 290, 300, 376, 384
Behr, von	275, 383, 420	Boston Bay fisheries
Belgium, fish imported	393	Daily Advertiser cited
oyster yield	468 252
Belone acus	388	Bothnia, Gulf of
vulgaris	40 328
Benecke, Professor	122, 324, 384	Bottemanne, C. J.
Berlin International Fishery Exposition	349 169, 170, 456
Bernuchen, Germany	122, 210	Bottle-nose dolphin
Bibelhausen, brooks stocked	119 431
Birge, Professor	440	whale
Birkbeck, Edward	291 178, 386
Birkenfield, brooks stocked	119	Bouchon-Brandely
Biscayne Bay	263 17, 101
Bishop, C. R.	142	Bower, Seymour
Bitters	86 113
Black Angel	78	Bragenia
bass	32, 60, 72, 203, 218, 262 171
bass in England	106	Brakeley, John H.
sent from America to Ger- many	384 159
small-mouthed, caught	470	Branchiobdella astaci
spawning in Germany	219	parasita
eel	55 301
Blackfish, hatching of	415	Brandely, M.
	 27, 28
		Brandt, Martin
	 395, 396
		Brasena peltata
	 159
		Brazil, fish for
	 300
		Bream
	 78, 80
		Brenner, Capt. Ivar
	 324
		Bretagne, France
	 185
		Briand, Captain
	 219
		Brigs, E. A.
	 441
		Brill
	 55
		British Columbia
	 126, 313
		North America, fish exported
	 127, 392
		Broad River, obstructions to fish
	 232
		Broad shad
	 79
		Brocchi, Dr. P.
	 97
		Brooks, W. K.
	 17, 27, 354, 355, 356
		Brook trout
	 7, 60, 72, 112, 203, 273, 276, 277, 279, 280, 293, 420
		culture
	 119
		from Cristine Lake
	 293
		Monadnock Lake
	 293
		weight of
	 311
		Broquet, M.
	 111
		Brownell, Charles H.
	 83
		Brown, J. E.
	 179
		Brumme, Dr.
	 329

	Page.		Page.
Brüssow, Oekonomierath.....	117, 118, 121, 211	Carp confused with hybrids.....	805
Buccephalus.....	40	cooking of.....	139
cuculus.....	40	culture.....	122
Buckland, Frank.....	73, 121	distribution.....	307, 308, 309
Bucksport Salmon Station.....	169, 170	edible qualities.....	124, 170, 205
Bugheads.....	7	enemies of.....	85, 808
Burnham, Capt. Adoniram J.....	49	food for.....	152, 310, 449, 455
Burns & Co., J. J.....	447	value of.....	306
Bur-reed.....	160	for sale.....	456
Butcher, E. Z.....	205	fried.....	139
Butler, M. C.....	232	growth.....	308
Butter-fish.....	55	how to catch.....	124, 268
Buzzard's Bay.....	208	cook.....	151
Byron Hines, schooner.....	446	hybrids.....	267
		in alkaline water, reared.....	426
C.		England.....	14
Cadet, schooner.....	404	James River.....	112
Cailliet, Mr.....	433	Lake Erie.....	306
Calamus.....	77	Susquehanna River.....	306
arctifrons.....	78	introduced about 1830.....	266
bajonado.....	78	ponds, construction of.....	83, 85
calamus.....	78	in Texas.....	230
penna.....	78	plants for.....	159
pennatula.....	78	sites for.....	83
California salmon. 138, 144, 262, 273, 275, 276, 278, 419		price-list of.....	307
in James River.....	290	price of.....	366
reared in Wisconsin.....	436	protecting the eggs of.....	221
trout.....	311	reared by U. S. Fish Commission.....	307
in South Carolina.....	164	regeneration of the scales.....	345
planting.....	286	shipment.....	310
Callifaver mullet.....	79	size of.....	14, 75
Callistoga, schooner.....	134	soup.....	139
Callitriche heterophylla.....	160	spawning of.....	222
Canada, breeding of salmon.....	362	stew.....	139
oyster yield.....	468	trade.....	308
relations with.....	427, 435	vitality.....	16, 178, 183, 305
Canadian cod fishery.....	460	Carpenter, Charles.....	295
fisheries.....	457	Carr, T. F. Robertson.....	60, 64, 213, 431
value of.....	458	Carrie E. Parsons, schooner.....	240, 251
fresh-water fisheries.....	462	Carrie S. Dayle, schooner.....	409
Great Lake fisheries.....	463	Carroll, Captain.....	89
herring fishery.....	461	Cartagena, State of.....	412
lobsters.....	462	Cary, H. H.....	339
mackerel fishery.....	461	Casella, Louis P.....	415
oysters.....	358	Casella-Miller thermometer, treatment of.....	415
salmon fisheries decline.....	363	Caspari, Mr.....	122
Cape Ann Bulletin cited.....	142	Castelin, M.....	111
Cape Cod lobster fishery.....	423	Catawba River.....	163
May porpoise oil and fishing com- pany.....	431	Catesby, Mark.....	79
Caranx.....	77	Catfish.....	7, 32, 79, 309
crinitus.....	78	propagation of.....	292
georgianus.....	54	speckled.....	321
Carassius.....	40	transferring of.....	212
Carcharias brevirostris.....	79	Cat-tail flag.....	160
lamia.....	79	Cauchon, Hon. Mr.....	362
punctatus.....	79	Cavia.....	78
Cardinal flower.....	160	Caviare.....	347
Carlisle, J. G.....	306	Cedar Keys.....	135
Carnax chrysos.....	78	Central America.....	127
hippos.....	78	Pacific Railroad.....	126
latus.....	78	Centropomus undecimalis.....	78
Carnivorous plant.....	259	Centropristia atrarius.....	415
Carp.....	7, 31, 72, 74, 119, 123, 261, 309	Ceratophyllum demersum.....	160
caught with a hook.....	380	Cercaria.....	39, 40
		Certes, A.....	433

	Page.
Curtis, J. E.....	395
Cusk.....	90, 92, 252, 254, 255
Cutting & Co.....	134
Cybiium maculatum.....	416
Cyclopterus lumpus.....	178
Cylinder food, contents of.....	449
Cyprinus.....	40
carpio.....	267
vimba.....	326
Cyttus australis.....	54
Cyclopterus lumpus.....	386

D.

Dagle, Capt. Charles.....	405
Dago, Capt. John.....	464
Dall, William H.....	125, 298
Danube.....	119, 123
Darwin, Charles.....	258
David A. Story, schooner.....	94, 446
Day, Dr. Francis.....	121
Dead Brook.....	172
Dead fish.....	361
Deal's Island, N. C.....	178
Deep Point.....	200
Dalaware Bay.....	233
River.....	337, 346
restocking of.....	337
Delia E. Norwood, schooner.....	436
De Montaugé, M.....	101
Dempsey, Capt. William.....	15
Denmark, fish exported.....	393
oyster yield.....	468
Dennysville, Me.....	314
Desmids, habitat of.....	24
Després, Mr.....	273, 277, 279
Destruction of fish.....	335
fish-food by Bladderwort.....	443
fish in the Great Lakes.....	223
small fish.....	184
Deutsche Fischerei Zeitung.....	329, 333, 395
Dentz, trout culture at.....	119
Devil-fish.....	403
Devil's Lake.....	351
Dexter, Newton.....	339
D'Hailoy, Leon.....	112
D'Homergue, Louis C.....	189, 314
Diamond-backs.....	7
Dinphragm for oyster ponds.....	17, 19
Diatoms, habitat of.....	24
Dick, Thomas.....	190
Dietrich, Prof. Dr.....	451, 453
Diplodus holbrookii.....	80
probatocephalus.....	78
rhomboids.....	78, 80
unimaculatus.....	78
Distoma cirrigerum.....	300
Dogfish.....	248, 352
Dog Snapper.....	77
Dolphin.....	77, 386
Donaldson, B. J.....	310
Donnelly, F. L.....	310, 319
Dowell, B. F.....	64, 217, 409
Doyle, John.....	48
Dresden conference.....	419
Druid Hill hatching house.....	316

	Page.
Drum.....	7, 137
Dry shrimps.....	126
Dubard, Mr.....	278
Dublin trout.....	293
Dubranius, Gesnar.....	14
Janus.....	14
Ducks.....	85
Ducretet, Mr.....	433
Duecker, Baron von.....	120
Duke, R. T. W.....	16, 305
Dukehart, J. P.....	143
Dunbar herring fisheries.....	194
Dunn, Matthias.....	76
Mr.....	441
Dunning, Philo.....	439
Dutch nets.....	317
Dynamite.....	186

E.

Earll, R. E.....	76, 292, 415
Eastern Shore Oyster Company.....	43
Eckerdt, George.....	219
Eckernfoerde, Bay of.....	118
Economist.....	169
Edinburgh Scotsman, cited.....	311
Edison Company.....	154
Edisto River.....	161, 163, 165
Edward Everett, schooner.....	401
Edwards, Joshua B.....	177, 386
Edwards, Vinal N.....	37, 314
Edward Webster, schooner.....	89
Eels.....	7, 75, 119, 203, 255, 311, 312
breeding of.....	208
culture of.....	122
life of.....	389
migration of.....	300
Eel (tuna).....	55
Eggs, mode of taking.....	113
transportation of.....	163
Egyptian lotus.....	160
Elder.....	118
Elacate canada.....	78
Elbe.....	117, 120
Electric Light, schooner.....	249
Electric lighting.....	153, 389
Ellensburg, Oreg.....	174
Elliott, Henry W.....	206, 297
Ellzey, Mason Graham.....	297
Elops saurus.....	78
E. L. Rowe, schooner.....	249
Elsie Smith, schooner.....	240
Elsner, B.....	118
Emry, T. L.....	225
Enders, F. H.....	308
England.....	69, 120, 127
fish for.....	361
English trout.....	31
Engraulis encrasicolus.....	55
Ephippus faber.....	416
Epinephelus.....	77
ascensionis.....	78
bonaci.....	77, 78
guttatus.....	78
falcatus.....	77, 80
italara.....	78

	Page.		Page.
<i>Epinephelus microlepis</i>	77, 78	Fish, sale of.....	319
<i>morio</i>	77	sinews	126
<i>nigritus</i>	240, 251	tank	168
<i>striatus</i>	77	transfer of.....	359
<i>venosus</i>	78	from smacks	359
Erie, Lake	306	Fish-eating plant	257
Ethel, schooner	445	Fish-egg, obtained from United States ..	419
Ethel Maud, schooner	249, 437	Fish-food	73, 449, 453
Eubalena australis	53	analysis of	453
Euplotes charon	434	value of	350
patella	434	Fish Hawk, steamer	16, 199, 207, 241, 242
Euthynnus alliteratus	77	trawling record	367, 368
Evening Register cited.....	138	Fish-hooks	323
Ewart, Prof. Cossar.....	193, 197, 311, 316	history of	282
Ewing & Co.	340	Fish-traps, location of.....	406
Mr	199	Fish-way for Willamette River	470
Excelsior, tug	216	movable	200
Exeter, Marquis of.....	60	Fish-ways.....	375
Eyemouth.....	60	need of	185
F.			
Fahnestock, Dr	165	Fish-wings	126
Fannie Belle, schooner	91	Fisher, Dr. A. K.	208
Fantail mullet	79	Mr	318
Farmington River	68	Wm. J	134
Faunce, Conrad	340	Fisheries, value of	348
Capt. Edward	339	Fishermen, names of	224
Fenton, Henry J	310, 319	Fishery products shipped	127
Ferguson, T. B	227, 229, 244	Fishes, effect of cold on	369
Ferrier, Charles	216	method of destroying	311
Fiber zibethicus	298	of Florida Keys	77
Filter for oyster ponds	17	Fishing Gazette cited.....	75, 166, 257
Finback whale	407	grounds of Gulf of Mexico	289
Finély, Charles I	88, 174	products exported	125
Finistère	185	vessels	167
Finland, Gulf of	328	Fistularia serrata	178, 386
Finn, W	333	Fitzhugh, D. H.	470
Fire Island, New York.....	178, 386	Flat-fish	64
Fish and fisheries, notes upon.....	305, 359, 450, 469	Flemish Cap	255
bones	126	Flint River	321
Brook	119	Floats for fattening oysters	302
Bureau	310	Flohkrebe (crustaceans)	384
culture	65, 69, 70	Flounder	7, 63, 203
Chinese method	88	or Patiki	65
in France	273	Flute mouth	178, 386
results of.....	115, 261, 290	Flying Cloud, schooner	81
depletion of	51	Focet, Mr	278
destruction of	317, 335, 353	Foley, D. J	315
exported from France	392	Fontell, H. O	324, 326
food for	320	Food for trout and carp	449, 453
for New South Wales.....	365	Food-flour, contents of.....	449, 450
guano, analysis	238	Forbes, James	121
imported into Danzig	393	R. B	181
Hamburg	393	S. A	443
Königsberg	933	Forest and Stream cited	239, 305, 361, 443
Memel	393	Fourth Lake	439
Stettin	393	Fowle, Frank	406
mortality	378	Fraiche, Felix	374
notes upon	359	France	76, 112, 120, 138
nutritive value of.....	203	fisheries of	349, 417
of Devil's Lake	351	fish exported	392, 393
oil	126	fish imported	392
exports of, from Norway.....	382	oyster yield.....	468
ponds, destructive visitors.....	85	Francis, Francis	272
preserving of	395	Fraser River	314
		Freiburg	121
		Frelinghuysen, Hon. F. T	291

	Page.		Page.
French grunt	78	Gloucester, Mass	180, 240
Fresh-water fish, small	7	Glyceria canadensis	160
organisms, effect of high		fruitans	160
pressures on	483	obtusa	160
rhizopods	25	Glyptocephalus cynoglossus	318
Fric, Prof. A	117	Goat-fishes	78
Friedlaender, Oscar O.	47	Goebel, Franz	119
Frostfish	54	Golden Hind, schooner	249
Frozen-horring trade	81	Gold-fish	309
Füchten	120	care of	381
Fuller, Thomas	14	price-list of	307
		Goldsmith	88
G.		Maid, schooner	249
Gadida, number of eggs	76	Gonorhynchus greyi	55
Gadus australls	55	Goode, G. Brown	78, 291, 468
macrocephalus	76	Goodfellow	362
morrihua	57	Goodrich, S. G.	295
pollachius	76	Goose Lake	470
virens	76, 334	Goos, Louis	453, 454
Gag	77, 78	Gracio, boat	129
Galaxias attenuatus	55	Grand and Western Banks fishery	91
fasciatus	55	Banks	237, 411
Gales	92	Lake Stream	343
Gallatin River	336	Menan Bank	404
Gammarus	123	Grass Porgy	78
Gar	7, 55, 63, 79	Gray, Capt. William P	437
Garde, Lake	277	Grayling	55, 119, 121, 336, 470
Garman, Prof. Samuel	128	Gray snapper	77
Garnier, Mr	280	trout	7
Garret, James	246	Great Britain and Ireland, fish exported ..	392
Gartempe River	144	imported ..	393
Gaspereau, trapping of	448	oyster yield	468
Gastrostomum	40	Lake fisheries, depletion of	218
Gelb Brook	119	Lakes	65
Gelsami	208	fishing in	223
Genypterus blacodes	55	Wicomico River	199, 200
Gemmiger, Dr	123	Greece, quantity of fish imported	392
Geneva Lake	364	Green Moray	79
George Curtis, steamer	91	Greenfield, Alfred	190
George H. Bradley, steamer	406	Greenland halibut fishery	91, 445
George Humphrey, steamer	410	shark	64
George Peabody, schooner	409	trip to	408
George's Bank	91, 250, 251, 252, 255, 404, 411	Greenlow, Capt. Albert	240, 251
cod fishery	89, 91	Green River	232
Georgetown, S. C	140, 101	Green, Seth	84, 275, 288, 318
Gerber, jr., C	151	Greenstreet, Captain	309
German Fishery Association	356, 393	Greenwich Bay	338
trout, transportation of	361	Greppy, Dr	105
Germany, fish imported	393	Greenwood, Walter J.	293
oyster yield	468	Gresse, Uriah	178
Gerres cinereus	79	Gristes salmoides	72
gula	79	Grouper	77, 263
Gestain, M.	111	Grunt	7, 77, 78, 79, 80
Gibney, T. A	136	Gryphaea angulata	101
Gigantic jew fish	78	Gryphée angulense	101
Gilo, W. S	312	Grystes nigricans	60, 72
Gill, Captain	129	salmoides	80
Gill-net fisheries	129, 101	Guasa	78
fishing in Great Lakes	223	Gurnard	55
preservative	59	Gussio Blaisdell	401
Girvan	197	Gyrodactylus	89
Gisler, Nils	327		
Gitson, Alonzo	246	H.	
Gloucester fisheries, notes on ..	89, 129, 191, 249, 401, 410, 444	Haack, Director	122, 375, 419
		Habersham, William Ney A	52

	Page.		Page.
Haddock.....	7, 55, 64, 74, 92, 94, 95, 96, 184, 203, 251, 252, 254, 408	Hermes, Dr.....	465
H. A. Duncan, schooner.....	408, 409	Herndon, C. G.....	412
Hæmulon.....	77	Hérons.....	85
aurolineatum.....	78	Herring.....	74, 90, 92, 93, 94, 96, 97, 197, 203, 249, 250, 251, 312, 340, 366, 401, 402, 403, 410, 417, 459
flavolineatum.....	78	Herring, branch.....	62
gibbosum.....	78	eggs, fertilization of.....	193
parra.....	78, 80	transfer of.....	310
plumieri.....	77, 78	exports of.....	360
scirrus.....	78	fisheries.....	13, 199, 221, 371
tæniatum.....	78	fresh-water.....	7
Hake.....	90, 92, 252, 255, 409, 444	glut.....	62
Halibut.....	82, 90, 92, 93, 94, 95, 96, 203, 249, 250, 251, 252, 253, 254, 255, 408, 409, 410, 411, 444, 445	habits of.....	61
evaporated.....	404	hatching.....	409
fishery.....	90, 91	imports of.....	360
near Iceland, abundance of.....	463	in inclosed waters.....	383
size of.....	315	market.....	392
Haliotis.....	126	Nova Scotia.....	7
rufescens.....	125	size of.....	311
Hamburg aquarium.....	467	spawning of.....	194
Hamlen, William.....	206, 241, 247	Hessel, Rud.....	166, 175, 294, 297, 308, 311, 345, 470
Haploidonotus grunniens.....	448	Heteranthera reniformis.....	160
Hapuku.....	54	Hickory jack.....	61
Hardhead.....	77, 79	Hind, Professor.....	459
Hardy, L. H.....	317	Hinkelmann, Herr.....	389
Harrell, J. Dock.....	448	Hiruda medicinalis.....	175
Harriet Miller, boat.....	60	officinalis.....	175
Harris, Gwynn.....	13, 221	Histophorus.....	77
Hartz, William.....	120	History of the fish-hook.....	282
Harz, C. O.....	300, 449, 453, 454	H. M. Rogers, schooner.....	445
Hasselblatt, Mr.....	324	Hock, P. P. C.....	17
Hatchery, description of.....	329	Hoffmann, R. E.....	276, 465
on Edisto River.....	163	Hogfish.....	7, 75
Hatching-box.....	316	Holacanthus ciliaris.....	75
shad eggs in spring water.....	198	Holden, E. C.....	304
Havre de Grace, Md.....	319	Holland, oyster yield.....	465
Republican cited.....	341	Holocentrum.....	75
Hawaii.....	126, 127	Holosticha flava.....	434
Hawaiian mullet.....	141	Homarus Americanus.....	421
Hawks enemies to fish.....	377	Hone, George.....	71
Hæmargus borealis.....	64	Hönne.....	120
Header, William.....	143	Honolulu.....	145
Heath, Neil.....	369	Horner & Hyde's preservative.....	51
Hector, James.....	53	Hooper, Mate R. A.....	401
Heincke, Professor.....	324	Hope On, bark.....	50
Helen, steamer.....	416	Hornwort.....	160
Holix adspersa.....	166	Horse-eye Jack.....	71
aspersa.....	87	Horse-mackerel.....	50
nauticoides.....	166	Horst, R.....	11
pomatia.....	166	Hovey, H. C.....	341
Hemingway & Co., H. F.....	303, 304	Hound-fish.....	71
Hemirhamphus balao.....	79	Howland, Henry S.....	171
intermedius.....	55	Hoxie, Walter.....	80
unifasciatus.....	79	Hoy, Philo R.....	439, 444
Henri N. Woods, schooner.....	249	Hubbard, Daniel S.....	171
Henry Dennis, schooner.....	237, 249, 250	Hubrecht, Professor A. A. W.....	17, 271
Friend, schooner.....	410	Hudson, George A.....	121
Lake.....	335	River.....	338, 360
Hensman, John T.....	166	Hughes, Smith E.....	371
Hérault River.....	138	Hume, R. D.....	88, 170
Herbert M. Rogers, schooner.....	445	Hungary, fishway in.....	201
Hereward, schooner.....	49	Husko, C. J.....	161, 164, 166
Herman Babson, schooner.....	446	Huxley, Professor.....	18, 193, 451
		Hydrallmania.....	191

I.		Page.			Page.
Iceland halibut fishery.....	446		King, Captain		406
Ides	309		Capt. Merrill B.....		438
Index to blanks	400		William W		436
Indian Creek	174		salmon		134
Head	200		King's Ferry		208
Inspection of fish	1		Klamath Lake.....		470
Invertebrate products shipped.....	126		Kleiter, Mr.....		277
Ipswich Bay.....	130, 131, 132, 133, 250		Klinger Lake.....		336
Iris versicolor.....	160		Klip-fish.....		372, 391
Iron King, tug.....	214		market.....		392
Isaac Patch, vessel	436		Knowles, Herbert M.....		178
Italy, fisheries of	349		Kogia goodei		177, 386
oyster yield.....	468		Kokopu.....		55
quantity of fish imported.....	392		König.....		451
Iwanowski, Alex	247		Königsbruck.....		120
J.			Koons, B. F.....		87
Jack	77, 78		Kralings-veer salmon market		116
Jackal, steamship	194		Krueger, A. C.....		306
Jacobs, Capt. Solomon.....	89, 429, 430		Küddow, salmon in the		117
Jacobson, Herman	282, 322, 329, 333, 348, 356,		Kumo River		325
371, 375, 384, 389, 392, 393, 395, 433, 449, 453, 465			Kunkel, Professor		393
James River.....	290		Kurilo Islands		220
Japan, fisheries of	352		Kurren, vessel		167
J. E. Garland, schooner.....	249		Kutzdorf.....		299
Jennie Seaverns, schooner	438		Kymmene River		322
Jericho Creek.....	140, 243		L.		
Jerome, George H.....	84		Labrichthys bothryocosmus		55
Jerrell, H. P.....	185, 273, 299		Lachnolamus suillus		78
Jevenau.....	118		La Costa mullet fishery		136
Jew-fish, occurrence of.....	240		Lafin & Co		223
J. J. Clark, schooner.....	404		Lake Champlain fish, list of.....		287
John Dory.....	54		Monroe		318
John S. Bray, schooner.....	436		trout.....		32, 76, 112, 121, 275, 278, 312, 361
Johnson.....	88		in France		52
Jolt head Porgy	78		La Motte, Alfred V.....		124
Joncas, L. Z.....	457		Lamprey.....		203
Jones, J. F.....	321		Landlocked salmon		32, 76, 87, 114, 276, 341
Jordan, David S.....	77, 111, 292		breeding of.....		343, 383
Joseph Story, schooner.....	405		in Erie Canal		288
Juncus effusus.....	160		size of.....		342
K.			Landseer, schooner		438
Kabler, N. L.....	366		Land Snapper		77
Kahawai.....	54		La Petite France		186
Kahlo, Charles	365		La Tremblade.....		105
Kansas, fish propagation in	312		La Trinité River.....		103
Karlen, M. Chabot	98		Latris ciliaris		54
Karluk Fishing Company	134		hecataea.....		54
Keene, Capt. Charles A.....	15		Laura Layward, schooner.....		408
Keitel, vessel.....	167		Lauterberg trout culture		120
Kelsoy, Henry F.....	187		Leather-jacket.....		55, 79
Kemp, Bill, the carp fisherman.....	272		Leather-fish		79
Kennedy, Mathew.....	366		Leech, cow		175
Kennicott, Robert.....	297		culture.....		175
Kensington, E. T.....	74		Leersia oryzoides		160
Kenworthy, C. J.....	80		Lefebvre, Alfred.....		280
Keratois is ornata.....	237		Le Have Bank		175
Key West.....	77, 136		Lehmann, J.....		452
Kimball, J. H.....	293		Leidy, Joseph.....		25
S. I.....	386		Lepidopus caudatus		54
King-fish	54, 77, 79		Leroy, A.....		273, 280
King-fishers.....	85, 376		Leslie, Charles C.....		256
trapping of.....	375		Loukart, Dr.....		301
			Lewis, Capt. Eben F.....		430
			Lez River		138

	Page.		Page.
Lhopital, M.	100, 102, 111	McLain, Capt. George	437
Life-Saving Service	177, 387	McLellan, Lieutenant.....	292
assistance	385	McMenamin & Co.....	48
Station 6, North Carolina....	386	McQuim, Capt. John S	463
Light-House Board assistance.....	385	Mackerel.....	7, 54, 89, 90, 92, 96, 203, 249, 250, 251, 252, 253, 254, 255, 401, 402, 404, 407, 408, 410, 411, 418, 444, 445, 447, 459
Lilies	159	abundance	406
Lime kills fish	186, 311	destruction of	248
Ling	55, 64	fishery	91
fisheries	371	from Saint Lawrence Bay	407, 427, 435
Linnaean Society	230	the South Pacific	405
Linstow, Dr. von	300, 301	in the Gulf of Maine	430
Lincoln, Benjamin	314	movements of	15, 90
Liostomus philadelphicus	137	scarcity of	427, 435
Little-head Porgy	78	search for	49
Little-mouth Porgy	78	Spanish	7, 266, 352
Lizzie Jones, schooner.....	254	Mackrill, Alfred	75
Lobelia cardinalis	160	Madison River	336
Lobsters	7, 75, 203, 312	Madson, Captain	408
artificial propagation of.....	426	Madni Lake	121
decrease of	421	Magdalen Islands	254
decrease in size of	423	Main, salmon in the	116
distribution of	422	Maine lobster fishery	424
migrations of	422	Maitland, Sir James G.....	69, 114
protective laws	423	Mallory, D. D.	303
transplanting of	16	Malmgren, A. J.....	322
Loch Leven trout	114	Mambrino Chief, schooner	463
Loffoden herring	334	Manatee	264
Lohmann, Carl	116	Mangrove Snapper.....	77
London Fisheries Exhibition	175, 277, 291	Manatee, schooner.....	134
Loomis, Watts T.	288	Manley, J. J.	60, 69
Lord, Henry W	351	Manna grass	160
Lorient oyster establishments.....	107	Marenes	105
Loss of life in the fisheries	181	Margate fish	78
Gloucester fisheries.....	180	Margie Smith, schooner.....	96
Lotello bacchus	55	Marine animals	177
Low, D. W	181, 408	monster	55
W. F.	320	products.....	1
Lowell, James Russell.....	291	Marion, schooner	134
Lower Cedar Point	209	Markham, Va	361
Lower Mosel	119	Marsh hens	308
Lucioperca	219	Marston, R. B.	73, 121
Ludwigia palustris	159, 160	Martha C., schooner	249
Lulea River	327	Martin, Capt. Charles.....	410
Lumpfish	178, 386	E. L.	341
Lundberg, Dr. Rudolf	326	Capt. George H.....	409, 437
Lutjanus	77	S. J. ..89, 129, 191, 240, 249, 406, 410, 430, 444	408, 446
analis	77	Mary, schooner	134
caballerote	77	Mary E., schooner	408, 409, 446
campechianus	78	Fernald, schooner.....	408
caxis	77	Maryland Academy of Sciences.....	61
chrysaurus.....	77	Masileurat, Lagénard, Dr	144
jocu	77	Matanra, steamship	369
synagris	77	Mather, Fred	114, 123, 274, 365, 366
Lycodes vahlhi	401	Mathias Point	199
Lyman, Theodore	255	Mattawoman Creek.....	200
M.			
McClain, Captain	250	May-fish	285
McDonald, Capt. James.....	438	Mayport	245
M.13, 17, 27, 164, 193, 212, 261, 286, 416	362	Mazyck, W. St. J.	161
MacDougall, Hon. Wm	225, 229	Mearns, Edgar A	297
McDowell, C. M	175	Meat flour	449
McEachern, Capt. Henry	429	Mecklenburg Rivers	117
McFarland, Capt. John T.....	429	Mecklenburg-Schwerin	120
McKinley, David	142	Medary, Charles S.	307

	Page.		Page.
Mediterranean oysters.....	106	Mosel, salmon in the.....	110
Medomak River.....	255	Moseley, Prof. H. N.....	257, 259, 261
Meek, Seth E.....	111	Moselle River.....	280
Megalops.....	80	Mosquito larvæ.....	310
atlanticus.....	79	Point.....	200
Megaptera.....	53, 216	Moxley Point.....	340
Melanson, Capt. David.....	405	M. S. Ayer, schooner.....	438
Menden.....	120	Muddy flavor in fish, cure of.....	305
Mendota, Lake.....	361, 430, 442	taste of carp.....	205
Menhaden.....	7, 91, 123, 252, 312, 404, 410	Mud plantain.....	160
fishing.....	47	shad.....	7
food.....	406	Mugil albula.....	79
spawn.....	406	brasiliensis.....	79
Menona, Lake.....	430	chaptalii.....	142
Merchant, jr., George.....	142	liza.....	79
Morian, J. W.....	246	perusii.....	55
Merriam, C. Hart.....	287, 297	Mullet.....	7, 55, 79, 144, 456
Mervin, Mr.....	242	fisheries.....	135, 136, 137
Mesh of nets.....	353	fishing.....	137
Mexican Fish Commission.....	124	fresh-water.....	7
Mexico, Gulf of.....	144, 289	habits of.....	136
M. H. Perkins, schooner.....	445	occurrence of.....	80
Micha, Oscar.....	302	Munster, salmon run at.....	116
Michigan Fish Commissioners.....	83	Muraenoides gunnellus.....	123
Lake.....	67	Murray cod.....	31
smallness of mesh used in.....	303	Musk-rat.....	86
Microgadus.....	123	as a fish-eater.....	297
Middle Prong.....	237	destructive to carp.....	296
Mietzel River.....	299	food of.....	295
Migazzy, Count William.....	209	mode of destroying.....	470
Miller, Hon. John F.....	141	Mussels.....	75, 203, 419
W. B.....	187	Mustelus antarcticus.....	55
Miller's Thumb.....	79	Muth, H. W. C.....	307
Millet, Mr.....	274	Mutton-fish.....	77
Mills & Son, William.....	359	Myriophyllum.....	160
Milne-Horne, David.....	328		N.
Minks.....	86	Nanjemoy Creek.....	200
Minnow.....	55	Nanticoko River.....	341
Minot, A. S.....	456	Narragansett Bay.....	338
Missisquoi River.....	288	Nassau grouper.....	77
Mississippi River.....	312	Nasturtium officinale.....	160
Mist, schooner.....	446	National Museum.....	175
Mitchell, Hon. Peter.....	362, 457	Park fishes.....	335
Mr.....	194, 320	Fish-culture Association.....	73
Möbius, Professor.....	356, 358	Nature cited.....	317
Mobjack Bay.....	199, 200	Nehcim, trout near.....	120
Modern Angler cited.....	270	Nehrkorn-Riddagshausen.....	122
Practical Angler cited.....	272	Nelson Acclimatization Society.....	190
Mohawk River.....	288	New Zealand.....	191
Moki.....	54	Nelumbium.....	159
Monacanthus convexirostris.....	55	luteum.....	159, 160
hispidus.....	79	speciosum.....	160
ocellatus.....	70	Nene River.....	166
Monk-fish, hatching of.....	407, 408	Neptomenus brama.....	54
Monroe Lake.....	246, 318	Netherlands, fish exported.....	392, 393
Montabaur.....	110	Nets in Lower Chesapeake.....	200
Moon-fish.....	78, 204	Potomac.....	200
Moores, I. R.....	315	preservatives for.....	58
Moose River.....	288	prices of.....	359
Moray.....	78	Nettle, Richard.....	362
Morbihan.....	103	Neuse River.....	162
Morrill Boy, schooner.....	130, 133, 192	Neustadt, Bay of.....	118
Morris, M. Cooper.....	120	New Jersey.....	189
Mortality of fishermen.....	180	fishing prohibition.....	187, 189
Florida fishes.....	263		

	Page.		Page.
New South Wales, fish for	365	Oyster as an article of food	356
New York	126, 127	beds, artificial	418
Tribune cited	360	breeders, difficulties	332
New Zealand	114, 126	culture	43
fisheries	53	at Saint Jerome Creek	235
fishes found in market	54	branches of	98
Nickerson, Seth	184	condition of	109
Nicklas, Carl	453	dangers threatening	109
Night-herons	308	in France	97
Night-seining for mackerel	142	origin of	97
Niasequogue River	198	culturists, advice to	110
Noordock-Hegt, Mr	276	diaphragm	17
North Carolina, Monthly Bulletin	33	edible qualities of	358
Northern Eagle, schooner	409	enemies of	138
North German Lloyd Steamship Com- pany	361	experiments, notes upon	354
Norway, fish exported	392, 393	fattening of	302
fisheries of	349	fisheries, yield of	468
oyster yield	468	fishery near Auray	103
Notes upon fish and fisheries	305, 359, 456, 469	flavor of	29
Nova Scotia, mackerel from	252	food of	29
Nowicki, Dr. M.	209	for New South Wales	365
Nuphar	171	in America	357
advena	159, 160	industry, condition of	233
Nutritive value of fish	203	needs of	233
Nye, jr., Willard	220, 312	of the world	468
Nymphaea	171	planting	30
flava	160	ponds, construction of	23
odorata	159, 160	filters for	17, 29
		sediment in	25
		temperatures of	29
		preparing	358
		raising centers	105
		spawning period of the American	29
		spat, apparatus for collecting	373
		transportation of	219
		P.	
		Page, George Shepherd	311
		Pagrus unicolor	54
		Palmer, B. D.	124
		Palometa	78
		Pampa	78
		Panguitch Lake	51
		Panama	126
		Paragorgia	237
		arborea	401
		Paramecium colpoda	434
		Parasites on fish	37, 40
		Paris, France	76
		Pargo, Colorado	80
		Parrot-fishes	79
		Parsons, Capt. Theodore	82
		Edwin F.	57
		Paulsen, Paul George	392
		Pearl shell	128
		Pearls, export of	365
		from Mexico	365
		Pedee River	140, 243
		Peirce, Milton P.	183, 305
		Peixotto, Benjamin F.	417
		Peltorhamphus novaezealandia	55
		Penobscot River salmon station	169, 170, 173
		Perch	31, 63
		mortality	361, 439, 440, 443
		white	7

O.

Obstruction to fish	232
Occoquan Creek	200
Oculus indicus	186
Oceanica	127
Octopus obesus	403
Oder River	117, 120, 299, 396
Odwards, J. N.	309
Ogeechee River	123
Ohio River	143
Ohlert, Miller A.	120, 122
Oldwife	78
Olga, schooner	134
Oligorus gigas	54
macquarientis	31
Oligoplites saurus	79
Ombie-Chevalier	280
O'Meara, Mr	266
Onward, schooner	130
Open-mouth grunt	78
Oregon	174, 217
fish-culture in	469
Osipee, schooner	410
Ostracum tricornae	79
Ostrea canadensis	358
cochlear	108
cyrnusii	108
edulis	17, 40, 101, 108, 358
stantina	108
virginica	40, 356
Ourthe River	169
Owen, Professor	272
Owls	85
Oyster	7, 75, 203, 312
artificially raised	355

	Page.		Page.
Perch, yellow.....	7, 203	Portugal, oyster yield.....	468
Percis colias.....	54	Potamogoton.....	159, 171
Perkins, Colonel.....	56	Potomac fisheries.....	351
Permit (Pampa).....	78	River.....	61, 65, 143, 199, 221, 339
Peru, exports to.....	126	bass in.....	470
Phalaropes.....	50	Potsdam carp culture.....	122
Phantom, schooner.....	410	Pott, Mr.....	451
Phillips, Barnet.....	135, 144	Powell's Creek.....	200
Phocæna communis.....	432	Presumpscot River.....	342
Phoenix, schooner.....	401	Primnoa reseda.....	237
Phoxinus.....	40	Prims, salmon in the.....	115
Pickeral.....	7, 203	Prince Edward Island.....	357
Pickeral-weed.....	160	Proceedings of the Society of Acclimatization.....	112
Pierce, H. D.....	263	Proctor, Richard A.....	55
H. H.....	17, 43, 332	Prohibition of fishing by steam vessels with purse seines.....	187, 189
Pierson, Mr.....	244	Prototroctes oxyrhynchus.....	55
Pigg, L. H.....	456	Prussia, fish exported.....	393
Pigment cells.....	41	Pseudophycis breviusculus.....	55
Pigmy sperm whale.....	177, 386	Pseudotriacis microdon.....	177, 386
Pike.....	7, 224	Pseudorhombus scaphus.....	55
destroy trout.....	395	Publications of Fish Commission.....	397
perch.....	203	Pudding-wife.....	78
yellow.....	7	Puffing-pig.....	409, 432
Pilchard or sardine.....	55, 79	Pumps of Albatross.....	150
Pintadilla.....	78	Punta Rassa.....	136, 137, 144
Pintsch, Anton.....	209	Pusey & Jones Company.....	151
Pisciculture.....	69		
Planting of Irish shells.....	87	Q.	
PlatyGLOSSUS bivittatus.....	79	Quattlebaum, Paul.....	380
radiatus.....	78	Quiberon Bay.....	103
Pleuronectes.....	123	Quinnat salmon.....	304
Pleuronema marina.....	434		
Pocomoke Sound.....	199	R.	
Pó Creek.....	103	Radmann & Son, M.....	327
Podhorsky, H.....	117	Ragged Point shad fishery.....	200
Poey, Prof. Félipo.....	79, 80	Rainbow trout.....	217, 420
Pogy.....	90	artificially hatched.....	360
Point Judith, R. I.....	173, 386	growth of.....	360
Poison berries.....	186	Raisin River, carp near.....	306
Poisonous water.....	265	Raja nasuta.....	55
Pole flounder, edible qualities of.....	317	Raleigh, N. C.....	162
Pollock.....	7, 76, 89, 90, 129, 130, 131, 250, 251, 252, 254, 255, 401, 409	Rantzau, Count.....	117
Pomacanthus arcuatus.....	178, 386	Ranunculus aquatilis.....	160
aureus.....	78	Rasch, H. H.....	26
Pomadasy chrysopterus.....	78, 80	Rathbun, Richard.....	421
Pomadasy virginicus.....	78	Rathelot, Mr.....	273, 275
Pomatoms saltatrix.....	78	Rattlesnake grass.....	160
Pompano.....	7, 73, 264, 290, 315	Raub, Jerry.....	340
Pond culture.....	329	Ravallia.....	78
Pond-lily.....	159	Ravenel, W. DeC.....	235
Pond-weed.....	159	Raveret-Wattel C.....	76, 138, 273, 274, 277, 279, 299, 312
Pontederia cordata.....	160	Rays.....	79
Pope's Creek.....	200	Reaper, schooner.....	96
Poppe, Robert.....	267	Redding, B. B.....	202
Poprad River.....	209	Joseph D.....	266
Poquasin river.....	199	Red cod.....	55
Porgies.....	7, 77, 78, 416	fish.....	137, 142
Pork-fish.....	78	grouper.....	77, 78
Porpoise.....	264	salmon.....	134
collecting of.....	385	snapper.....	54, 78, 80, 290
fishing at Cape May.....	431, 432	Regen.....	119
Portland, Me.....	310		
Oreg.....	64		
Portsmouth.....	131, 132, 133		

	Page.		Page.
Regnard, Dr	433, 435	Saint Jerome Creek	24
Reid, Oscar, cited	268	John's River	241, 244, 339
Reporter, schooner	406	Joseph, Mich	223
Retropinna richardsoni	55	Mary's River	206, 241, 244
Réunion, quantity of fish imported	392	Philibert Creek	103
Reynolds, S. J.	246	Pierre, fish exported	392
Rhine, The	115, 119	<i>Salmo carpio</i>	277, 279
Rhizopods, habitat of	24	<i>criox</i>	328
Rhombosolea monopus	55	<i>fario</i>	31, 121, 361
Rice cutgrass	160	<i>fontinalis</i>	60, 72, 112, 273, 276, 277, 279, 280, 281, 311, 420
Rice, Henry J	17, 28	<i>gairdneri</i>	217
Richards & Harrison	219	<i>gloveri</i>	341
Richardson, Mr	293	<i>irideus</i>	165, 420
Ridgway, J. H	177	<i>namaycush</i>	32, 52, 76, 113, 275, 276, 280, 281, 312, 313
Ringkjøbing, Denmark	396	<i>oquassa</i>	311
Roach	456	<i>quinnat.</i>	138, 144, 169, 273, 275, 276, 277, 281, 304, 419
Roanoke River	230, 286	<i>salar</i>	70, 322, 328, 341, 420
Robalo	78	<i>salar</i> subsp. <i>sebago</i>	280
Robb, Mr.	199	<i>salvelinus</i>	52
Robertson, Dugald	311	<i>sebago</i>	341
Robinson, Capt. Henry	206, 305	<i>thymallus</i>	285
W. Russell	290	Salmonidae	69
Rock cod	54	Salvelinus	311
Rock-fish	7, 78, 225, 320	Salvelinus fontinalis	280, 293, 294, 420
Rockhind	77	Salmon	74, 134, 160, 201, 203, 251, 252, 275, 280, 338
Rockport	130, 131, 133	Canadian	52
Rodents, trapping of	375	breeding of	362
Rodgers, Frederick	341	canneries	314
Roe market	392	canning	126, 313
Rogue River	174	capture of	173, 366
trout	217	caught in Quebec, New Brunswick, and Nova Scotia	363
Romano Cape	136	confinement of	170
Ronco Amarilla	78	culture	68, 115
Grande	77	fishery	68, 134, 173, 185
pricto	78	hatched in McCloud River	201
Root, Henry T	338	hatching	88, 174, 314
Rosenstihl, jr., William	381	hook	52
Rothsay	194	migrations	322
Round Pompano	78	occurrence of	364
Routledge's Handbook of Fishing cited	268	of Columbia River	304
Roux, Dr	435	penning of	169
Rowan, Stephen C	387	production	313
Rowe, Mr	355	statistics	116
Rowley, Dr	361	trout	7, 203
Rumpf, Carl	356	weights of	178
Runner	78	Salt, use of	58
Rusk, Governor	439, 442	Salt-water organisms, effect of high pressures on	433
Russ, East Prussia	168	Saluda River	232
Russia, fish imported	393	Sampit River	101
oyster yield	408	Sand-eel	55
Ryder, John A	17, 37, 43, 152, 235, 261, 302, 345, 373, 375, 381	Sand-fish	78
S.		Sanderson, Professor Burdon	259
Saale	117	Sandwich Islands, fish for	308
Saarburg	119	Sandy Bar shad fisheries	199
Sachs, T. R	120	San Francisco Bay	341
Saco lobster fishing	425	Cal	125, 126, 127, 219
Sacramento River	68, 201, 314, 341	Sangsoe vache	175
salmon, annual yield	201	Sanibel Island mullet fisheries	137
Sagittaria variabilis	160	Sanitary report on Old Providence Island	412
Saibling	64	Santa Catalina island	412
Sailors' choice	78, 80		
Saint Andrew's	412		
Croix River	342		

	Page.		Page.
Santee River	161	Shad fishing on the Edisto River	165
Sarah Putnam, schooner	446	food of	61
Sardine fisheries	417	habits of	61
Sardines	79	hatching	206, 310, 319
Sargo Raiado	80	hickory	7
Satilla River	207	in California	341
Saucer-eye	78	Oregon waters	88
Sauer, salmon in the	115	the Potomac	361
Savannah River	163	notes on	337
Sawanus margmollis	352	planting of	320
Sawara	352	porgy	78
Scallops	203	winter	7
Scamp	77, 80	work in South Carolina	161
Scarus coruleus	79	Shark	79, 144, 177, 315, 352, 386
croicensis	79	Sharks, collecting of	385
Scherzer, Dr. Karl von	348	Sheat-fish	72
Schleier Lake	121	Sheepshead	7, 78, 144, 448
Schleswig-Holstein	118	abundance of	311
Schleuse, salmon in the	116	Shell-fish	79
Schoodic salmon	342	Shells	126
Schoolmaster	77	Irish	87
Schuster, C.	121, 361, 419	Sheley, G. A.	353
Scomber australasicus	54	Shepard, George V	17, 43
Scomberomorus cavalla	77	Shetland fisheries	372
regalis	78	Shiloh, schooner	446
maculatus	78	Shore fisheries	91
Scorpena grandicornis	79	Shrew-mice	376
plumieri	79	Shrimp	123
stearnsi	79	shells	126
Scotch cod and ling fisheries	371	Shultz, G. R.	137
herring fisheries	60, 431	Sibbaldius	53
fisheries	64	Sicotte, Judge	362
Scotland	114	Sidera funebris	79
fish exported	393	Sidera moringa	78
Scottish Fishery Board	103	Sieg, trout in the	119
Scudder, Charles W	179, 397	Sigsbee sounding machine	151
Sculpins	314	Silas Fish, bark	405
Scup	7	Silk, W. T	166
Sea-bass, note on	365	Siler, Andrew L	51
Sea fish, penning of	377	Silurus glanis	72
Sea fisheries of France and Algiers	417	Silver eel	55
Sea-fishing, use of light in	387	fish	78
Seal, fur	53	price list of	307
skins	127	gar	7
Searus guacamaia	79	Simmons, N	366
Sea serpent	56, 128	Simms, jr., G. E.	257, 259
trout	185	Skate	55, 74, 352
culture	115	note on	365
water, making of	466	Skidmore, James	339
Sebago Lake	342, 383	Skipjack	7
Sebec salmon	342, 343	Slippery Dick	79
Sediment in oyster ponds	25, 28	Smart	88
Seelig, G	117	Smelt	7, 55, 203
See-weise fish-breeding establishment	361	Smithsonian Institution	177, 387
Selene vomer	78	Smooth-hound	55
Senné-Desjardins, M.	106, 107, 111	Smith, Capt. Henry O.	81
Seriola dumérili	77	Joseph	248
lalandii	54, 77	Point	200
Serranus formosus	78	Smiley, Cbas. W	1, 65, 85, 183, 201, 240, 268, 305, 337, 359, 369, 385, 456, 469
Seymour, Captain	56	Snails, culture of	166
Shad	7, 32, 79, 203, 241, 262, 312, 340	Snakes	86
culture	66	enemies to fish	220, 230
eggs, transportation of	161, 198	Snake River fishes	335
fisheries	13, 63, 140, 199, 221, 318, 319	Snappers	53, 54, 77, 204
fisheries of Charleston, S. C.	244		

	Page.		Page.
Snook	78, 137	Susie Hooper, schooner.....	427
Société Nationale d'Acclimatation	273	Sutton, Warner P	305
Society of Acclimatization	76	Swallows, mortality of, in Wisconsin.....	442
Soft-shell crabs, cultivation of.....	256	Swan, J. B	13
Soldin, Lake	299	S. W. Craig, schooner	129
Sole	55	Sweden, fish exported.....	393
South Carolina, carp sent to.....	310	Swelling-fish	79
Southern Pacific Railroad.....	126	Sword-fish	444
Spain, oyster yield	468	fishery	446
quantity of fish imported.....	392	Synodus cubanus.....	79
Spanish hogfish	78	Syria, fisheries of	456
mackerel.....	78, 416		
hatching of.....	415	T.	
Sparganium eurycarpum.....	160	Talisman	433
Sparrows, mortality of, in Wisconsin	442	Tangier Sound	199
Specimens received	177	Tangipahoa River.....	448
Speckled catfish	321	Tangs	78
Sphyrna plicuda	77	Tanks for transferring fish	168, 312
Sphyrna tiburo	79	Tar	352
Spike fish	77	Tarakihl	54
Spinney, Mr	58	Tarpon	204
Spofford's Pond.....	171	Tarpum.....	79
Spot	7	food qualities of.....	80
Spotty	55	Tarr & Bro. James G	447
Sprat	45	R. S	57
Spratt, Joseph.....	238	Tay River.....	213
Springer, Captain.....	252	Taylor	61
Mr	353	fresh-water.....	7
Spring Lake, N. J	177, 386	salt-water.....	7
Sprottan	120, 122	William.....	303
Squeteague.....	7	Temperature of engine-room	150
Squid	89, 90, 254, 401	variations.....	306
off Cape Breton	405	Temperatures	172, 200, 230, 264, 367
size of	15	Tench	31
specimen of	403	cooking of.....	139
Squirrel	79	Ten-pounder.....	78
S. R. Zane, schooner	91	Tetrodon nephelus.....	79
Standing, Dr	420	Terrapin	7
Stanley, Mr	311	salt-water	7
Star-fish	138	soft-shell	143
Star-gazer.....	178, 386	Thermometer, treatment of	415
Statesman cited	298	Third Lake, Wisconsin	430
Statistics, oyster-cultural.....	100	Thompson, Edward	176
Staranger, Norway	26	Edward H.....	208
Stearns, Robert E. C.....	219, 313	Three Brothers, schooner	134
Silas.....	289	Thyrsites atun	54
Sterling, C.....	306	Tile-fish	409
Dr. E.....	218	Toad-fishes.....	79
Stevens, B. J	440	Tobacco-boxes	7
Stilwell, E. M	311	Tom-cod	123
Sting-ray	55	Tom-tate	78
Stolephorus browni	79	Toule Lake	470
Stone, Livingston	119, 178, 311, 362	Townshend, Smith.....	1
Storm, results of	408	Trachurus trachurus.....	54
Stover, E. S	426	Trachy notus carolinus.....	78
Striped bass.....	7	glaucus	78
propagation of.....	225, 229	rhodopus.....	78
grunt.....	78	rhomboides	78
Struthers, Professor.....	216	Transactions of American Fish-cultural	
Sturdevant, E. D	159	Association	85
Sturgeon.....	7, 63, 312, 338, 346	New Zealand Institute.....	371
Sucker	7	Transporting eggs on trays	162
Sullivan, Mr.....	245	Trapa natans.....	160
Sumpter, Capt. J. W.....	286	Traps, steel.....	296
Sun-fish	7, 78	Traun Brook, trout in.....	119

	Page.
Travailleur	483
Trematoda	39
Trematodes, development of	39
Trevally	54
Trichurus lepturus	78
Trigla kumu	55
Trinity River	104
Tropidonatus sipidon	239
Trout	74, 224, 262, 280, 285, 336, 388
breeding of	362, 364
culture	64, 217
eggs, transportation of	361
enemies of	375
food for	331, 449
in German waters	393
penning of	377
rainbow	64
salmon	7
salt-water	7
Thames	71
True, Frederick W	431
Trumpeter	54
Trutta carpio	420
Trygon thalassia	55
Tunny	456
Tupper, Capt. Joseph I.	438
Turbot	55, 78
Turkey and Egypt, quantity of fish imported	392
Turkey Gut, near Cape May, N. J.	386
Tursiops subridens	386
truncatus	178
tursio	431
Turtle	7
Gut, N. J.	178
Tuscarora rice	159, 160
Tweed River	328
Tylosurus crassus	78
notatus	79
Typha latifolia	160
U.	
Ulea River	322
Union River	342
United States, fish exported	302
Menhaden Oil and Guano Association	189
oyster yield	468
Upeneus balteatus	78
maculatus	78
Upper Ruhr	120
Utah fisheries	51
Utricularia gibba	160
vulgaris	257, 259, 261, 443, 456
V.	
Vacuum Oil Company	157
Valery-Mayot, Prof	138
Valotton, James L.	305
Van Mater, J. H.	13
Venning, W. H.	303
Vessels, list of	40
movements of	402
Victor, schooner	408
Victoria regia	100

	Page.
Village Bells, schooner	447
Vineyard Sound	314
Vista, steamer	91
Von Stemann	118
Von Winterstein	115
Vorticelles	434
W.	
Waccamaw River	140, 161, 243
Wagner, Mr.	280
Wahoo	77
Wallbaum, Mr.	284
Wallem, Fredrik M.	382, 402
Waller, Mr.	189, 349
Withers	361
Walrus ivory	126
oil	126
Walton, Izaak	72
Warehou	54
Warner & Sons, J	286
Warner, J. S.	220
Warren, J. Crosby, schooner	91
Warren River	338
Washington, treaty of	3. 7
Wasserspitzmäusen	376
Wasteways for ponds	37
Water-chestnut	160
cress	160
lily	159
milfoil	160
Waterproofing for nets	143
Water-purplane	159, 160
shield	159
starwort	160
Watt's Island	199
Way, D. L.	318
Weak-fish	7
penning of	377
Weems's floats	302
Weichsel	120
Weight of fish	391
Wein, Dr. E.	450, 455
Weir	173
Weith, Professor	394
Weldon, N. C.	225, 229
Welch, Rithel & Co	314
Welland River	168
Welsher, W. A.	364
Werso, salmon in the	116
Weser, salmon in the	117, 120
Western Banks	250, 255
West Indies, quantity of fish imported ..	392
West, John	246
Whale	404, 407
collecting of	385
fisheries	53
in the river Tay	213
oil, value of	53
products	126
sperm	264
value of	360
Wheeler, L. T.	221
Whitcher, W. F.	363
Whitecombe, W. P.	31
White, Charles A.	297

	Page.		Page.
Whitefish	7, 32, 60, 75, 112, 119, 121, 203, 223, 262, 274, 280, 315, 420	Wittmack, Professor	324
distribution	316	W. J. King, schooner	402
eggs, taking of	113	Wonson, Mr.	58
eggs, record of	316	Wood's Holl, Mass.	16
hatching of	190, 316	Wood, W. M.	16, 140, 199, 241, 242
in France	52	Worth, S. G.	33, 162, 225, 229
propagation	335	Würzburg, Germany.	119, 361
transportation	190	Y.	
scarcity of	353	Yellow angel	78
White water-crowfoot	160	grunt	78
water-lily	160	pond-lily	160
Whiting	55, 78, 80	tail	77
Willamette River	470	water-lily	160
William H. Jordan, schooner	438	Yellowstone River	336
Williams & Co., C. A.	360	York River	199, 200
Wilmot, S.	60, 73, 121	Spit	199, 200
Wilson, Mr.	197, 311	Yssel River	276
Wilson & Co., H. O.	224	Z.	
Windmill Point	199, 200	Zealandia, steamship	190
Winslow, Capt. C. C.	252	Zenk, Dr. F.	361
Winslow, Lieutenant F.	17, 233, 354	Zeus faber	54
Winter shad	63	Ziphioids	177
Winyah Bay	140, 161	Ziphius cavirostris	178, 386
Winyaw Bay shad fisheries	242	Zizania aquatica	159, 160
Wisconsin State Journal	442	Zwatzen, char planted at	121
Withen, O. B.	310		