INDEX.

Page.	Game and matination in Basific States	Page,
Abundance of Shad on West Coast 414	Carp, acclimatization in Pacific States	
Acclimatization of Fish and other Water	Catfish, acclimatization in Pacific States.	004-095
Animals in the Pacific States	Catfish Fishery in Pacific States, Origin	388
Agricultural School at Freising, Fish- cultural Methods	and general Extent of	392
cultural Methods	Chinaels Salmen table sharing eath at	002
Coast	Chinook Salmon, table showing catch at Millet's Fishery on Snake River	966_975
	Clam, Soft (Mya arenaria)	467_46Q
Alexander, A. B., quoted: Catfish	Colorado River, Introduction of Shad into	406
Lobster	Color of Eggs of Lobster	137
Shad	Color Variations in Young Lobster	184
Striped Bass	Color Variations in Tolling Lobster	
Arkansas and Indian Territory, Fishes	Columbia River Basin, stocking with Shad	406
and Mollusks of	Cox, Ulysses O., and B. W. Evermann, on	400
Alturas Lake 254	the Fishes of the Neuse River Basin	Q0Q_Q10
Alturas Lake, Redish at		202-010
	Crappies (Pomoxis annularis and P. spa-	440
	roides), introduction into Pacific States.	440
	Crawfish and Salmonoids, Culture of, in smaller water-courses	260_278
Auger Falls	Crawford, James, quoted	
	Cream-colored Lobsters	139
Awa (Chanos cyprinella), introduction into Pacific States	Cusk (Brosmius brosme)	470
Babcock, John P., quoted:	Death-feigning habit of Lobsters	
Brook Trout	Delchamps, John J., on Oysters of Mobile	104-100
Carp	Bay and Sound	339
Shad 426	Destruction of Egg Lobster and its Spawn.	62-64
Bavarian Fishery Association, Course of	Diamond-back Terrapin	471
Instruction at	Digging and Burrowing Habits of the	411
Bibliography of Lobster Literature 229-237	Lobster	27-29
Black Basses (Micropterus salmoides and	Distribution and abundance of Catfish in	21-20
M. dolomieu), introduction into Pacific	Pacific States	386
States	Distribution of the Lobster	14-16
Blue Crab, proposed introduction on	Economic importance, food value, and in-	
Pacific Coast 472	jurious qualities of Carp in Pacific	
Bluefish (Pomatomus saltatrix)	States	395-403
Blue Lobsters	Edible qualities of Catfish	392
Brook Trout (Salvelinus fontinalis), accli-	Eel (Anguilla chrysypa)	438-440
matization on Pacific Coast	Eggs laid by Lobster and Law of Produc-	
California Fish Commission, quoted, as to—	tion	50-55
Atlantic Salmon 430	Eggs of Lobster, Laying of	39-40
Awa	Eggs of Lobster, Preparation of	226
Brook Trout	Eigenmann, C. H., quoted	470
Carp	Embryology of the Lobster	202-217
Catfish	Enemies of the Lobster	
Eel	Environment of the Lobster	17
Landlocked Salmon 431	Evermann, B. W., on Salmon Investiga-	
Shad	tions in Idaho in 1894	253-284
Striped Bass 449, 450	Evermann, B. W., and Ulysses O. Cox, on	
Whitefish 429	Fishes of the Neuse River Basin	303-310

****	- ugo.	l	I ago.
Fish-culture in Germany, Notes on		Lobster, the American—Continued.	
Fishes and Mollusks collected in Arkansas	_	Bibliography	229-237
and Indian Territory in 1894	341-349	Color variations	
Fishing Season for Catfish in Pacific	391	Composition of Shell and Gastroliths.	227-228
States	_	Defensive Mutilation and Regenera-	100 100
Food-fishes taken in the Menhaden Fishery Food of Catfish	387	tion of lost parts	
Food of Lobster, and manner of procur-	901	Digging and Burrowing Habits	27-29
ing it	29-32	Distribution	14-16 57-58
Food of Shad	416	Eggs, Hatching of	
Food Qualities of the Shad	425	Embryology Enemies	
Forest and Stream, quoted	398	Environment, Character of	170-124
Frequency of spawning of Lobster	70-73	Food of Lobster, and how it is pro-	11
Freising Agricultural School, Fish-cul-	10-10	cured	29-32
tural Methods	320	Habits	
Fykenets used in Catfish Fishery in Pacific	020	Habits and Environment	14-32
States	389	Hatching of the Eggs	57
Gastroliths in the Lobster	88-94	History of Larval and Early Adoles-	91
Geographical Distribution of Shad on	00-04	cent Periods	167-201
Pacific Coast	410	Intelligence	17-18
Germany, Notes on Fish-culture in		Laying of Eggs	39-40
Goldfish, introduction into Pacific States.	403	Molting and Growth	75-99
Green, Seth, quoted:	405	Movement, Powers of	18-20
Greene, S. H., quoted	421	Number of Eggs laid and Law of Pro-	10 20
Growth of Lobster, Rate of	96-99	duction	50-55
Habits and Environment of the Lobster.	14-32	Pairing of the Lobster and of other	00 00
Habits of Lobster from time of Hatching	14-04	Crustacea	35-39
until Period of Maturity	161-166	Periodical Migrations and their rela-	00 00
Haddock (Melanogrammus æglifinus)	470	tions to Changes in Environment	20-27
Hake (Phyciss chuss)	470	Period of Incubation at Woods Hole	
Hermaphroditism in Lobsters	149	and rate of Development	55-57
Herrick, Francis II., on the American Lob-		Preparation of Eggs	226-227
ster	1-252	Rate of Growth	96-99
Hessel, Rudolph, quoted	400	Relative Abundance of Sexes	73-74
Hunt, E. W., quoted	432	Reproduction	33-74
Influence of new Environment on habits		Reproductive Organs 33-34,	
of Shad	409	Sensibility to Light	27
Intelligence of the Lobster	17-18	Sexual Maturity, Period of	65-70
Intensive Pond-culture at Sandfort		Shell, Shedding of	79
Introduction of Carp into Pacific States.	393	Shell, Structure and Growth of	77
Introduction of Catfish into Pacific States.	382	Size attained	109-117
Jaffé, S., on intensive Pond-culture in		Spawning, Frequency of	70-73
Sandfort	311-314	Structural Variations	143-149
Jordan & Gilbert, quoted	397	Time of Hatching of Lobsters at	
Lake Trout, acclimatization on Pacific		Woods Hole	5 7-5 8
Coast	433	Mackerel (Scomber scombrus)	470
Landlocked Salmon, acclimatization on	- 1	Marine Food, Sources of	351-368
Pacific Coast	431	McDonald, Marshall, quoted	409
Larval and Early Adolescent Periods of	J	Meek, Seth Eugene, on Fishes and Mollusks	
Lobster	167-201	collected in Arkansas and Indian Terri-	
Loch Leven Trout, acclimatization on		tory in 1894	341-349
Pacific Coast	433	Menhaden, Enemies of	299
Lobster on Pacific Coast	459-463	Menhaden Fishery in 1894, H. M. Smith	
Lobster, the American: Francis H. Her-		on	285-302
rick on	1-252	Menhaden, Movements of Schools of	299
Autotomy in Young and Adult	100-103	Menhaden, Size and Fatness of	300

INDEX. 475

	Page.		Page.
Menhaden, Spawning of	301	Shad Fishery of Columbia River	421
Migrations and movements of Shad on	1	Shad Fishery of Monterey Bay	416
Pacific Coast	412	Shad Fishery of San Francisco Bay and	
Migrations of Lobster	20-27	Tributaries	417
Mills, G. T., quoted	437	Shad planted in Utah and Idaho	407
Mississippi Sound and Mobile Bay, Oyster		Shad Trade of San Francisco	426
Beds of	325-339	Shoshone Falls	257
Mobile Bay and Mississippi Sound, Oyster		Smith, Hugh M., on Acclimatization of	
Beds of	325-339	Fish and other Water Animals in the	
Mollusks collected in Old River, Arkansas.	349	Pacific States	379-472
Molting and growth of Lobster	75-99	Smith, Hugh M., on an Investigation of	
Muskellunge, attempted introduction into		the Menhaden Fishery in 1894	285-302
Pacific States	437	Size and weight of Catfish in Pacific States	387
Nevada Fish Commissioner, quoted	385, 432	Size of Lobsters	109-120
Oyster Beds of Mobile Bay and Mississippi	,	Snake River 257-	-259, 262
Sound	325-339	Sources of Marine Food, James I. Peck	,
Oyster (Ostrea virginica)	464-467	on	351-368
Pairing of Lobster and other Crustacea	35-39	Spawning Season and Grounds of Shad on	
Parker, H. G., quoted	385	Pacific Coast	413
Parti-colored Lobsters	141	Spotted Lobsters	140
Payette Lakes	256	Stearns, R. E. C., quoted	467, 469
Payette River Basin	255-256	St. Francis River	344
Payette River, Headwaters of	261, 279	Stone, Livingston, fish-cultural work on	
Peck, James I., on Sources of Marine Food	351-368	Pacific Coast	380
Pike or Pickerel (Lucius lucius)	438	Stone, Livingston, on the Yellow Perch	447-448
Pike Perch or Wall-eyed Pike	448	Striped Bass (Roccus lineatus), introduc-	
Pollock (Pollachius virens)	470	tion into Pacific States	449-458
Pond-culture at Sandfort	311-314	Structure of Lobsters, Variations in	143-149
Prices of Shad on the West Coast	420, 424	Summary of Observations on the Lobster.	219-225
Quantity and value of Catfish Catch in	,	Sunfishes	441
Pacific States	391	Tautog	458
Rathbun, Richard, quoted	461, 462	Tench, introduction into Pacific States	403
Red-eye Perch or Rock Bass	441	Tegumental Glands of Lobster and their	
Red Lobsters	138	Relations to sense organs	125 - 133
Reproductive Organs of Lobster 33-34,	150-160	Terrapin, Diamond back	471
Results of Carp Planting in Pacific States.	394	Throckmorton, S. R., quoted	407, 449
Results of Shad Planting in California,		Townsend, C. H., quoted	465
Oregon, Washington, and Utah	407-409	Trout-culture in Germany	311-324
Ringed Perch (Perca flavescens)	447	Twin Falls	257
Ritter, Homer P., on Oyster Beds of Mobile		Von Behr Trout, acclimatization on the	
Bay and Mississippi Sound	325-339	Pacific Coast	433
Rock Bass or Red-eye Perch (Ambloplites	}	Wall-eyed Pike or Pike Perch	448
rupestris)	441	Warmouth Bass	441
Salmon Falls	258	Weight and Size of Shad in waters of the	
Salmon Investigations in Idaho in 1894,		Pacific	415
B. W. Evermann on	253-284	Weiser River, Headwaters of	276
Salmonoids and Crawfish, Culture of	369-378	Whitefish, Attempts to acclimatize on	
Salmon River Basin	254-255	Pacific Coast	428
Salmon River, Headwaters of 260,	277, 282	Wileox, W. A., quoted	418
Sandfort, Germany, Fish-culture at	311-324	Wilson, Ramon E., quoted	397
San Francisco Bulletin, quoted	396	White Bass	458
Scup or Porgy (Stenotomus chrysops)	470	Woodbury, J. G., quoted	435
Sexual Maturity of Lobster, Period of	65-70	Wozelka-Iglau, Karl, on culture of Sal-	
Shad, acclimatization in Pacific States	†	monoids and Crawfish in smaller Water-	
Shad Catch of Pacific Coast	424	courses	369-378
Shad Experiments in California	404-406	Yellow Perch (Perca flavescens)	447