## INDEX.

AGASSIZ, PRO: SSOR, drawings of eggs of the Coregonus palæa asseen under a powerful magnifier, 131, 132; requests specimens of Salmonidæ, 322 - 325.

t

e

- AINSWORTH, spawning race, 29-31; Collins's modification of, 32-36; period of hatching, table, 129.
- ALEVINS, duration of period, 140; effect of cold on, 146; experiments with, 305; first appearance of, 139; glass lining in troughs an injury to, 143; habits of, 140 - 146; instinct to hide, 143; meaning of word "alevin," 139; monstrosities annong, 147; perversity in, 145; quantity of water necessary to, 146; tendency to follow current of water, 144; transportation of, 196.
- AMERICAN FISH CULTURISTS' ASSO-CIATION, organization of, 319-322.
- ANIMAL PARASITES, description of, on young fry, 186; on large trout, Appendix I.
- APPARATUS for hatching, 47.
- AQUEDUCTS, charred, 48; covered, 49; hatching room, 48; security of, 48.
- ATKINS, table of spawn in different fish, 268; table of impregnated salmon eggs at Maine State Salmon-Breeding Establishment, 92.
- AUTHORITIES, list of, 336-342.
- BERTRAM, extract from Harvest of the Sea, 228-335.
- BREEDERS, effect of health on progeny, 165.
- BUCKLAND, FRANK, directions for marking salmon, 325-327; table of spawn in different fish, 267.
- BUILDINGS, number o 40, 41; carpenter's shop, 43; h hing house, 44; ice house, 43; meat room, 41, 42; office, 43; store-room, 43.

- Byssus, cause of, 119: effect of, 120; peculiarities of, 120.
- CANADIAN CORRESPONDENCE, letters from Mr. Whitcher, 297-299.
- CANNIBALISM, danger of, 189; remedy for, 187.
- CLEANLINESS inculcated and necessary, I, App. COLD SPRING TROUT PONDS, brief
- COLD SPRING TROUT PONDS, brief sketch of, 287-295; table of spawn taken in one month, 269, 270; table of spawning time, 269.
- Commissarry DEPARTMENT, care and preparation of meat, 214; cheapness of food, 210; fish flesh used as food, 213; keeping meat, 215; kind of food, 211 - 214; minnows as food, 212; nutritious food, 212; plate of meat-cutter, 215; sour-milk curd, 213; worms and insects used as food, 213; variety in food, 212.
- Coste, arrangement of glass grilles, 64-67; table of period of spawning of European fish which reproduce in fresh water, 271.
- Covers, material for, 63; necessity for, 62.
- DISEASES of young fry, 178-193; list of, 177; large trout, 191.
- DISTRIBUTING SPOUT, description of, 53; office of, 53; preparation of, 53.
- EGGS, appearance of impregnated and unimpregnated, 125, 126; cause of death among, 121-129; color of, 106; daily examination while hatching, 120; development at hatching time, 129, 130; different fish produced by, 130; effect of light on, 42, 43; enemies to hatching, 118, 119; hatching, 112-135; how to tell what eggs will produce good