33rd Northwest Fish Culture Workshop



Balishan Codge

SH 151 .N671 1950-1981 Index

Einar Wold, Chairman National Marine Fisheries Service 847 N.E. 19th Ave., Suite 350 Portland, OR 97232

503-230-5406

Program Committee:
Einar Wold
Roy Wahle
Bob Vreeland
Bob Smith
Mike DeLarm

November 30, 1982

Dear Fellow Fish Culturists:

This index contains separate author and subject references to material presented at the Northwest Fish Culture Conferences/Workshops from 1950 through 1981.

This publication is an expansion of the earlier index by Wally Hublou in 1966 and the 1967-1971 index provided by "Bud Ellis" in 1972. To provide continuity, the same categories identified earlier have been used in this latest index.

I wish to thank Robert Z. Smith and Robyn Mann for their assistance in organizing and processing the materials.

Sincerely,

Einar Wold Chairman

PROPERTY OF THE LIBRARY
COLUMBIA RIVER INTER-TRIBAL
FISH COMMISSION
729 N.E. Gregon, Suite 200
Portland, Oregon 97232
(503) 731-1304 • Fax (503) 238-3557

NORTHWEST FISH CULTURE CONFERENCE

HISTORICAL RECORD

YEAR	LOCATION	HOST AGENCY	CHAIRMAN
1950	Portland, Oregon	Fish & Wildlife Service	Perry
1951	Wenatchee, Washington	Fish & Wildlife Service	Burrows
1952	Seattle, Washington	Washington Dept. of Fisheries	Ellis
1953	Portland, Oregon	Fish Commission of Oregon	Cleaver
1954	Seattle, Washington	Fish & Wildlife Service	Rucker
1955	Portland, Oregon	Oregon Game Commission	Rayner
1956	Seattle, Washington	Washington Dept. of Game	Millenbach
1957	Portland, Oregon	Fish & Wildlife Service	Johnson, H.E.
1958	Seattle, Washington	Washington Dept. of Fisheries	Ellis
1959	Portland, Oregon	Fish Commission of Oregon	Jeffries
1960	Olympia, Washington	Washington Dept. of Game	Johansen
1961	Portland, Oregon	Oregon Game Commission	Jensen
1962	Longview, Washington	Fish & Wildlife Service	Burrows
1963	Olympia, Washington	Washington Dept. of Fisheries	Ellis
1964	Corvallis, Oregon	Oregon State University	Fryer
1965	Portland, Oregon	Fish & Wildlife Service	Halver
1966	Portland, Oregon	Fish Commission of Oregon	Hub1ou
1967	Seattle, Washington	University of Washington	Donaldson, L.R.
1968	Boise, Idaho	Idaho Fish & Game Department	Cuplin
1969	Olympia, Washington	Washington Department of Game	Johansen
1970	Portland, Oregon	Oregon Game Commission	Jensen
1971	Portland, Oregon	Fish & Wildlife Service	Smith, M.A.
1972	Seattle, Washington	Washington Dept. of Fisheries	Nob1e
1973	Wemme, Oregon	Fish Commission of Oregon	Jeffries
1974	Seattle, Washington	University of Washington	Salo
1975	Otter Crest, Oregon	Oregon State University	Donaldson, J.R.
1976	Twin Falls, Idaho	University of Idaho	Klontz
1977	Olympia, Washington	Washington Department of Game	Morrow
1978	Vancouver, Washington	Fish & Wildlife Service	Leith
1979	Portland, Oregon	Oregon Dept. of Fish & Wildlife	Jeffries
1980	Courtenay, B.C.Canada	Fisheries & Oceans Canada	Sandercock
1981	Olympia, Washington	Washington Dept. of Fisheries	Ashcraft

NAME	REPORT TITLE	YEAR
ABBOTT, ROBERT R.	THE TRAINING OF TROUT WITH SOUND STIMULUS	1969
	SEE KOSKI, <u>ET.AL.</u>	1970
	SEE SALO	1970
	TRAINING FISH WITH UNDERWATER SOUND PRACTICAL SUGGESTIONS	1972
ADAMS, BRYANT L.	SMOLT CHARACTERISTIC DEPENDENT ON WATER TEMPERATURE	1971
AINSWORTH, B.D. JR.	PROGRESS REPORT ON RAPID RIVER SALMON HATCHERY	1968
ALLEE, BRIAN J.	DEVELOPMENT OF GRAVEL INCUBATION HATCHERIES FOR CHUM, PINK, AND SOCKEYE SALMON ON THE QUINAULT INDIAN RESERVATION	1972
	ARTIFICIAL PROPAGATION OF QUINAUH SOCKEYE SALMON	1973
	SEE FERGUSON, GREG	1975
	SEE RILEY, KATHY	1975
	DEVELOPMENT OF A COHO SALMON (Oncorhynchus kisutch) BROODSTOCK HOLDING SYSTEM FOR A COMMERCIAL OCEAN REARING PROGRAM AT OREGON AQUA-FOODS	1980
ALLEE, BRIAN J. & ROBERT W. ANDERSON	Use of Sodium Thiosulfate Dechlorinated Municipal Water in Salmon Culture	1975
AMEND, DONALD F.	IN-VIVO EFFECTS OF FEEDING CERTAIN SULFONAMIDES TO SPRING CHINOOK SALMON A PROGRESS REPORT	1961
	THE USE OF MERCURIALS IN THE HATCHERY - A PROGRESS REPORT	1965
	MERCURIALS IN THE HATCHERY: ABSORPTION, DISTRIBUTION, AND RETENTION OF TIMSAN (ETHYL MERCURY PHOSPHATE) IN RAINBOW TROUT	1966
	A NEW VIRUS FROM CULTUS LAKE	1967
	EXPERIMENTAL CONTROL OF COLUMNARIS DISEASE WITH A NEW NITROFURAN DRUG	1968
	SEE DR. SERVIZI ET.AL.	1968
	A PROGRESS REPORT ON FURANACE	1969
	WHATS NEW IN EGG DISINEECTANTS	1970

AMEND, DONALD F. CON'T.	PREVENTION AND CONTROL OF INFECTIOUS HEMATOPOIETIC (IHN) VIRUS DISEASE IN RAINBOW TROUT	1974
	SEE GRISCHKOWSKY, ROGERS	1974
AMEND, DONALD F. & JOHN L. FRYER K.S. PILCHER	THE ABSORPTION OF SULFAMETHAZINE BY SPRING CHINOOK SALMON WHEN INCORPORATED IN FISH-MEAT AND OREGON PELLET DIETS	1962
AMEND, DONALD F. & JOHN L. FRYER	PRODUCTION TRAILS UTILIZING SULFONAMIDE DRUGS FOR THE CONTROL OF 'COLDWATER DISEASE' IN JUVENILE SILVER SALMON	1963
AMOS, KEVIN H.	SEE YASUTAKE, W.T.	1980
AMOS, KEVIN H. & G.W. KLONTZ	A PRELIMINARY REPORT ON THE CONTROL OF BACTERIAL KIDNEY DISEASE IN CHINOOK SALMON	1975
ANDERSON, ALTON R.	MARINE FISH FATS IN SALMON TEST DIETS	1966
ANDERSON, DOUG	BASIC HEMATOLOGY FOR FISH CULTURIST	1965
	1967 LAB. TRIALS AND TESTS OF THE FURUN- CULOSIS ORAL VACCINE PROGRAM	1967
ANDERSON, ROBERT D. & LAUREN DONALDSON	WINTER RUN STEELHEAD TROUT RETURNS TO THE UNIVERSITY OF WASHINGTON	1971
ANDERSON, ROBERT W.	SEE ALLEE, BRIAN J.	1975
APPLEBY, ANDY	'78 BROOD GREEN RIVER COHO POND LOADING/SIZE AT RELEASE STUDY	1981
ARP, ARTHUR H.	COST ACCOUNTING OF SALMON PRODUCTION IN COLUMBIA RIVER HATCHERY EVALUATION STUDY	1969
*	SUCCESSFUL PROPAGATION OF COHO SALMON IN AN UPPER COLUMBIA RIVER HATCHERY	1969
ASHLEY, LAWRENCE M.	THE ROLE OF HISTOPATHOLOGY IN FISH NUTRITION STUDIES WITH REMARKS ON TROUT HEPATOMAS.	1960
	WOUND HEALING IN ASCORBIC ACID DEFICIENT SALMONIDS	1968
ASHLEY, L.M. & J.E. HALVER C.E. SMITH R.R. SMITH	ASCORBIC ACID DEFICIENCY SYNDROM IN COHO SALMON	1967
BAILY, D.D.	SEE MACQUARRIE, D.W.	1980
BAILY, JACK E.	INCUBATION OF PINK SALMON EGGS IN A SIMULATED INTERTIDAL ENVIRONMENT.	1964
	PINK SALMON FRY PRODUCTION IN ALASKA	1972

BAKER, HARRY W. JR.	FEEDING EXPERIMENTS WITH CUTTHROAT TROUT	1956
	CUTTHROAT FEEDING EXPERIMENT LOT 7-CT	1957
	318 DAYS OF CONTINUOUS PELLET FEEDING TO RAINBOW TROUT	1957
	BROOD STOCK FEEDING AND ASSOCIATED MORTALITIES	1961
BAKER, IAN	SEE STOSS, J.	1981
BAKER, R.J. & M.S. KNITTEL J.L. FRYER	MEASUREMENT OF COPPER STRESS IN SALMONIDS BY INCREASED SUSCEPTIBILITY TO A BACTERIAL INFECTION	1979
BANKS, JOE L.	EFFECT ON DIFFERENT REARING TEMPERATURES ON GROWTH OF CHINOOK FINGERLINGS	1969
	COMPARATIVE RESPONSE OF CHINOOK AND STEELHEAD TO VARIATIONS IN THE ABERNATHY DRY DIET	1970
	CONTROLLED TEMPERATURE REARING OF FALL CHINOOK SALMON	1973
	METHODS OF HANDLING AND TRANSPORTATING GREEN FALL CHINOOK EGGS	1975
BANOWETZ, GARY M.	THE IMMUNDIAGNOSIS OF BACTERIAL KIDNEY DISEASE	1974
BARGER, LARRY	THE BOGACHIEL WINTER STEELHEAD SEMINATURAL REARING POND	1969
BARNABY, J.T.	SAFETY	1958
BARNEY, ELMO B.	DIET TRAILS INVOLVING THE USE OF OREGON MOIST PELLETS FOR FEEDING FINGERLING FALL CHINOOK, STEELHEAD, AND KAMLOOPS TROUT AT COLEMAN STATION	1962
	THE SUCCESSFUL USE OF CO ₂ ANAESTHESIA FOR SPAWNING FALL CHINOOK SALMON	1971
BARRETT, DON	SEE JOHNSON, A. KENNETH	1975
BAUER, JERRY A.	UMPQUA HATCHERY-REARED UMPQUA SPRING CHINOOK	1965
	RETURNS OF UMPQUA RIVER SPRING CHINOOK AND SUMMER STEELHEAD	1966
	WHAT HAS ARTIFICIAL PROPAGATION DONE FOR THE UMPQUA RIVER PROGRAM	1968
	PROGRESS REPORT ON CONTRIBUTION OF HATCHERY PRODUCED SPRING CHINOOK AND SUMMER STEELHEAD TO THE NORTH UMPQUA RIVER	1969

BAUER, JERRY A. CON'T	PROGRESS REPORT ON CONTRIBUTION OF MATCHERT PRODUCED SPRING CHINDOK AND SUMMER STEELHEAD IN NORTH UMPQUA RIVER	1970
	HATCHERY CONTRIBUTION OF ANADRAMOUS FISH TO THE NORTH UMPQUA RIVER	1971
	USE OF HATCHERY STEELHEAD IN THE MANAGEMENT OF THE NORTH UMPQUA RIVER	1972
BECKER, CLARENCE D.	SEE KATZ, MAX	1960
	SEE KATZ, ET. AL.	1960
BEININGEN, KIRK T.	SEE WYATT, WILLIS J.	1969
BELL G.R. & W. GRIFFIOEN O. KENNEDY	MORTALITIES OF PEN-REARED SALMON ASSOCIATED WITH BLOOMS OF MARINE ALGAE	1974
BELL, THOMAS G.	LASER AND FREEZE MARKING OF SALMONIDS AND CRUSTACEANS FOR IDENTIFICATION	1971
BELL, THOMAS G. & GEORGE A. PADGETT R.K. FARRELL	FREEZE AND LASER MARKING	1970
BENVILLE, PETE JR.	TOXICITY STUDIES OF DIMETHYLSULFOXIDE ON SILVER SALMON	1964
BERNIER, ADRIAN F.	A TEST OF OXYGEN UNDER PRESSURE IN TROUT DISTRIBUTION	1960
BIGEJ, RICHARD G.	EVALUATION OF PROTEIN LEVELS IN A HATCHERY DIET	1957
	DEVELOPMENT OF EFFECTIVE POND ALGICIDES	1957
	THRESHOLD TEMPERATURES FOR THE NORMAL DEVELOPMENT OF BLUEBACK SALMON	1958
•	DIET TRIALS WITH PASTEURIZED AND AUTOLYZED SALMON PRODUCTS	1960
	A PROGRESS REPORT ON THE 1961 DIET TRIALS	1961
BILLI, JAMES L.	A QUANTITATIVE COMPARISON OF PERITONEAL WASHES AND FECES FOR DETECTIVE INFECTIOUS PANCREATIC NECROSIS (IPN) VIRUS IN CARRIER BROOK TROUT	1967
BILTON, H.T.	RETURNS OF ADULT COHO SALMON FROM ACCELERATED AND NORMALLY REARED JUVENILES RELEASED FROM ROSEWALL CREEK, BRITISH COLUMBIA	1979
	EFFECTS OF SIZE AND TIME OF JUVENILE RELEASE	1980

BILTON, H.T. CON'T	THE INFLUENCE OF OCEAN AGE OF PARENTS ON FRESHWATER GROWTH OF STEELHEAD PROGENY	1980
BILTON, H.T. &	THE SECOND B.C. COHO SIZE AND TIME OF RELEASE	
J.A. VAN TINE	EXPERIMENT: PRELIMINARY RETURNS TO THE	1001
	QUINSAM HATCHERY	1981
BIRKS, E.K.	SEE EWING, R.D.	1981
BITLE, FRED W.	PELLET FEEDING EXPERIMENT	1959
	TRANSPORTATION OF FISH-PLASTIC BAGS WITH OXYGEN	1960
	RAINBOW TROUT SPAWN TAKING	1961
	USE OF TROXYMITE IN REPAIR OF CONCRETE	1962
	Use of 'Daraweld' in Repair of Concrete	1962
	WATER REUSE	1966
	ALARM SYSTEM	1969
BJORNN, TED	THE ROLE OF HATCHERIES IN THE FUTURE OF SNAKE RIVER SALMON AND STEELHEAD RUNS	1976
BLISS, J.D.	1957 DIAMOND LAKE EGG TAKE	1957
BOREHAM, A.	SEE MCLEAN, W.E.	1980
BORGESON, DAVID P.	STATUS OF MICHIGAN'S SALMON PROGRAM	1966
BOUCK, GERALD R.	FEASIBILITY OF STRIPED BASS (Morone saxatilis) CULTURE IN WELL WATER AT CORVALLIS, OREGON	1976
	GAS BUBBLE DISEASE RESEARCH: PROGRESS IN 1981	1981
BOUCK, GERALD R. & GARY A. CHAPMAN	EFFECTS OF HOLDING TEMPERATURES ON REPRODUCTIVE DEVELOPMENT IN ADULT SOCKEYE SALMON	
PHILIP W.SCHNEIDER,JR DONALD G. STEVENS	(Oncorhynchus nerka)	1975
BOUCK, GERALD & M.D. CAIRNS	DOES OMP DIET INHIBIT REPRODUCTION IN ADULT SOCKEYE SALMON	1976
BOUCK, G.R. & D.A. JOHNSON	INHIBITION OF SALTWATER TOLERANCE IN COHO SALMON (Oncorhynchus kisutch) BY DISEASE TREATMENTS	1977
BOUCK, GERALD R. & STANLEY D. SMITH	MORTALITY OF EXPERIMENTALLY DESCALED COHO SALMON SMOLTS IN FRESHWATER AND IN SEAWATER	1977
BRADFORD, W.L.	SEE CONTE, ET.AL.	1961
BRADLEY, TERENCE	SEE OLSEN, WAYNE H.	1980

BRANNON, ERNEST L.	THE WEIGHT OF SOCKEYE FRY IN RELATION TO PHYSICAL FACTORS DURING DEVELOPMENT	1963
	SUCCESS OF ARTIFICIAL INCUBATION FACILITIES AND SPAWNING CHANNELS WITH FRAZER RIVER SOCKEYE SALMON	1969
	SEE NOSHO, TERRY	1973
BRANNON, E.L. & L.R. DANALDSON	University of Washington Accelerated Coho	1979
BRITTAIN, C.F.	EGG AND FRY CABINET	1956
	EXPERIMENTAL SALMON HATCHING IN FLOATING SCOWS	1958
	EGG AND FRY CABINET TESTS WATER AND AIR TEMPERATURE FLUCTUATIONS	1961
BROCK, IRVIN R.	DEVELOPMENT OF A SHEEFISH CULTURE PROGRAM IN ALASKA: EGG TAKE TO FED FRY RELEASE	1979
	UTILIZATION OF 'WASTE' HEAT FOR A FISH HATCHERY IN INFERIOR ALASKA	1980
BROWN, WILLIAM G.	Costs and Returns of Salmon Hatchery Production' Alternatives	1974
BRUHN, DAVID	HAGERMAN, IDAHO NATIONAL FISH HATCHERY AS A STEELHEAD HATCHERY	1979
BRUHN, DAVE & BILL WALSDORF	SOME EFFECTS, ON RAINBOW TROUT BROODSTOCK, OF REDUCING WATER TEMPERATURE FROM 59° F. TO 52° F.	1975
BRUIN, W.J. & LAURA M. MUMAW JOHN W. NIGHTINGALE	USE OF A CLINOPTILOLITE AMMONIA REMOVAL FILTER IN A RECIRCUALTING SALMON REARING FACILITY	1979
BRUIN, W.J. & J.W. NIGHTINGALE L.M. MUMAW	EVALUATION OF FISH GROWTH AND NITROGENOUS WASTE HANDLING IN A RECIRCULATING SALMON REARING FACILITY WITH A CLINOPTILOLITE FILTER	1980
BRUNSON, WAYNE	NEW USES FOR OLD FISH TREATMENT CHEMICALS	1971
	SEE CRAWFORD, BRUCE	1974
	PROGRESS REPORT OF VACCINATIONS AS A MEANS OF CONTROLLING DRUG RESISTANT BACTERIAL OUTBREAKS IN WASHINGTON GAME DEPARTMENT HATCHERIES	1976
BUCHANAN, DAVID V.	EFFECTS OF INCREASING TEMPERATURES AND BACTERIAL DISEASES FOUND NATURALLY IN THE WILLAMETTE RIVER TO FOUR STOCKS OF STEELHEAD SMOLTS	1975
	HATCHERY RELEASES AND SUBSEQUENT RETURN OF SUMMER STEELHEAD ABOVE A DAM	1976

BUCHANAN, DAVID V.	MONITORING SMOLT OUTMIGRATION OF HATCHERY STEELHEAD IN THE WILLAMETTE RIVER SYSTEM	1977
	EFFECTS OF SIZE ON SMOLT DUTMIGRATION	1979
BUCHANAN, DAVID V. & M.G. WADE R.M. HOOTON W.C. WINGFIELD	A MINIMUM THRESHOLD SIZE FOR HATCHERY STEELHEAD SMOLTS	1981
BUCKLEY, JAMES & CECIL M. WHITMORE	SUBLETHAL EFFECTS OF WEST POINT TREATMENT PLANT EFFLUENT ON COHO SALMON	1974
BURKE, JOHN A. & JOSEPH R. SULLIVAN	Toward Control of IHNV	1981
BURROWS, ROGER E.	FEEDING TRIALS WITH BLUEBACK SALMON 1950 FIRST EXPERIMENT	1950,
	FEEDING TRIALS WITH BLUEBACK SALMON 1950 SECOND EXPERIMENT	1950
	ENTIAT SALMON CULTURAL LABORATORY	1951
	EFFECT OF CONTROLLED TEMPERATURES ON SALMON EGGS	1954
	THE EFFECT OF STREAM TEMPERATURE PATTERNS ON THE SURVIVAL OF PINK SALMON EGGS	1955
	ELECTRICAL DIVERSION OF ADULT SALMON	1955
	ALTERATIONS IN REARING POND DESIGN	1955
	A RECTANGULAR-RECIRCULATING REARING POND	1956
	THE EFFECT OF CONTROLLED LIGHT ON SEXUAL MATURATION OF ADULT BLUEBACK SALMON	1956
	ENVIRONMENTAL LIMITATIONS IN REARING PONDS	1958
	FACTORS LIMITING PRODUCTION IN REARING PONDS	1959
	REARING POND ENVIRONMENTS	1960
	PROGRAM OF THE ABERNATHY SALMON CULTURAL LAB.	1961
	EFFECT OF FINGERLING STAMINA ON ADULT SURVIVAL	1964
	APPLICATION OF RESEARCH DEVELOPMENTS AT THE SALMON-CULTURAL LABORATORY	1966
	SEE PANEL; NOBLE, ET. AL.	1961
	CHANGES IN FISH CULTURE NECESSARY TO IMPROVE QUALITY OF CHINOOK FINGERLINGS	1968

	ADULT SURVIVALS OF SALMON REARED UNDER ENVIRONMENTAL CONTROL	1969
	ADULT RETURNS OF SALMON REARED IN REUSE AND SINGLE-PASS WATER SYSTEMS	1970
BUSCH, ROBERT A.	THE RANGEN TROUT RESEARCH PROGRAM	1976
BUZZELL, LARRY & Donald A. Musgrove	A New Egg Sorting Device for Salmon, Trout, and Steelhead Eggs A Slide Presentation	1974
CAINS, M.D.	SEE BOUCK, GERALD	1979
CAIRNS, DONALD	TEST OF COMMERCIAL DRY FEEDS ON SILVER SALMON	1959
	TESTS OF COMMERCIAL DRY FEEDS ON FALL CHINOOK	1959
CAMPBELL, S.L.	MECHANICAL FEEDER, FISH CROWDER, FISH LOADER AND DISTRIBUTION UNIT, AND NEW SPAWNING EQUIPMENT IN OPERATION AT COLEMAN	1959
CARNES, G. & W. GRIFFIEON J. STOSS	PRODUCTION AND TRANSPORTATION TECHNIQUES OF GAMETES COLLECTED FROM REMOTE FRESHWATER AND SALTWATER LOCATIONS IN S.E. ALASKA	1981
CANNADY, BRUCE	DIET TRIALS - FALL CHINOOK SALMON - 1951	1951
	DIET TRIALS OF COMMERCIAL DRY MEAL MIX	1956
	SPRING CHINOOK SALMON HOLDING AND SPAWNING OPERATIONS	1956
CEDERHOLM, C.J.	THE IMPACTS OF LOGGING ON SALMONID RESOURCES	1977
CHAPMAN, GARY A.	EFFECTS OF TEMPERATURE DURING A SIMULATED MIGRATION OF ADULT SOCKEYE SALMON (Oncorhynchus nerka)	1967
	SEE BOUCK, GERALD R.	1975
CHAPMAN, PATRICK F.	McCall Summer Chinook Salmon Hatchery	1981
CHASE, DEAN L.	PRELIMINARY STUDIES USING SYNTHETIC POLYMERS TO REDUCE TURBIDITY IN A HATCHERY WATER SUPPLY	1971
CHILCOTE, MARK W.	SEE CRAWFORD, BRUCE A.	1978
CISAR, J.O.	SOME CHARACTERISTICS OF ANTIBODIES FROM JUVENILE SALMON	1970
CLARK, JERRY E.	RELATIONSHIP BETWEEN AQUACULTURAL DEVELOPMENT AND INSTITUTIONAL CHANGE	1978
CLAYTON, JOHN	JOB ACCOUNTING AT A SALMON HATCHERY	1971

CLEAVER, FRED	SOME EFFECTS OF MARKING CHINOOK SALMON BY FIN CLIPPINGS	1967
	SURVIVAL OF INTER-HATCHERY TRANSFERS OF FALL CHINOOK	1968
CLENDENER, HOMER B.	EARTHEN REARING PONDS FOR WINTER STEELHEAD PRODUCTION	1972
COATES, JOHN A.	HEMATOPOIETIC EFFECT OF XANTHOPTERINS AND A 1/100 RATIO OF VITAMIN ^B 12 TO FOLIC ACID *WHEN INJECTED INTO YOUNG ANEMIC CHINOOK SALMON	1951
	FEEDING EXPERIMENTS,	1954
	PROGRESS REPORT ON DIET EXPERIMENTS WITH SALMON	1956
COATES, JOHN A. & R.L. SCHWAB	BRINE SHRIMP FEEDING EXPERIMENTS	1955
COLEY, TRAVIS C.	THE CONTROL OF BACTERIAL KIDNEY DISEASE: 1977 UPTAKE	1977
COMBS, BOBBY D.	RESULTS OF 1954 FEEDING TRIALS	1954
	1955 PITUITARY EXPERIMENT	1955
	ALGICIDE EXPERIMENTS	1955
	EFFECT OF LIGHT ON MATURATION	1955
×	RELATIONSHIP BETWEEN WATER TEMPERATURE AND TIME OF HATCH OF CHINOOK SALMON EGGS	1956
	AN EVALUATION OF BOUND DIETS	1956
	THE STAGE OF DEVELOPMENT AT WHICH CHINOOK SALMON EGGS CAN WITHSTAND COLD WATER TEMPERATURES	1957
	THE EFFECT OF CONTROLLED LIGHT ON THE SEXUAL MATURATION OF ADULT BLUEBACK SALMON	1957
	A REVIEW OF THE PITUITARY EXPERIMENTS AT THE ENTIAT SALMON CULTURAL LABORATORY	1958
	RECONSTITUTED DRY MEAL DIETS FOR CHINOOK SALMON	1959
	EFFECTS OF LIGHT ON MATURATION OF ADULT BLUE- BACK SALMON	1959
	TUNNEL TESTS OF CHINNOK SALMON FINGERLINGS	1960

COMBS, BOBBY D.	RECONSTITUTED DRY MEAL DIETS FOR CHINOOK SALMON	1960
CON'T	CONTROL OF TREMATODE CERCARIAE IN HATCHERY WATER SUPPLIES	1962
	PRELIMINARY EXPERIMENTS IN WATER RE-USE	1963
	AN ELECTRICAL GRID FOR CONTROLLING TREMATODE CERCARIAE IN HATCHERY WATER SUPPLIES	1963
	THE RECLAMATION OF WATER	1964
	THE RECLAMATION AND RE-USE OF WATER	1965
	VARIATION IN QUALITY CHINOOK SALMON EGGS AND FRY	1968
	PROGRESS IN WATER RECLAMATION STUDIES	1971
CONGLETON, JAMES L.	POLLUTION ABATEMENT FOR FISH HATCHERIES	1972
CONRAD, JOHN F.	PROGRESS REPORT ON 'BAD-EGG' STUDIES	1961
	'BAD-EGG' STUDIES CONTINUED	1962
	OBSERVATIONS ON STRESS-DISEASE CORRELATION IN JUVENILE COHO SALMON	1963
	A MYXOBACTERIUM AND MYXOSPORIDIAN FOUND IN JUVENILE SALMONIDS AT OREGON FISH COMMISSION HATCHERIES IN 1965	1965
	SEE HOLT, R.A.	1970
CONTE, FRANK P.	CELLULAR REGENERATION IN THE FISH (Oncorhynchus kisutch)	1964
CONTE, FRANK P. & HARRY H. WAGNER W.L. BRADFORD	BLOOD STUDIES ON STEELHEAD TROUT (Salmo gairdneri)-1. MEASUREMENT OF BLOOD VOLUME AND PLASMA VOLUME UTILIZING IODINATED ALBUMIN (1 ¹³¹ HSA)	1961
CONTE, FRANK P. & Harry H. Wagner T.O. Harris	SALINITY ADAPTATION IN STEELHEAD TROUT AND COHO SALMON IN RELATION TO MIGRATION DISPOSITION	1963
COSSETTE, B.J.	A HOLDING DEVICE USED WHILE SPAWNING SALMON	1972
CRAWFORD, BRUCE & WAYNE BRUNSON	REPORT ON THE CAUSE AND TREATMENT OF STEELHEAD MORTALITY AT THE WELLS DAM HATCHERY AND AT THE WASHBURN ISLAND REARING POND	1974

	A STATUS REPORT ON THE EFFECT OF THE USE OF A	
MARK W. CHILCUTE STEVEN A. LEIDDR		1978
CRAWFORD, DAVID L.	SEE WESTGATE, JOHN	1974
	SEE LAW, <u>ET.AL</u> .	1970
	SEE LAW, DUNCAN K.	1976
CRAWFORD, DAVID L. & DUNCAN K. LAW JOHN W. WESTGATE DAVID A. LEITH	SOME ASPECTS OF THE PROTEIN ENERGY REQUIREMENTS OF SPRING CHINOOK SALMON	1976
CRAWFORD, DAVID L. & JOHN W. WESTGATE JEAN P. LAGASSE	ASCORBIC ACID IN MOIST PELLETIZED FISH RATIONS	1979
CROSTON, C.B.	DIGESTIVE ENZYMES OF SALMON	1957
	ENZYME STUDIES AT THE WESTERN FISH NUTRITION LABORATORY	1961
CULVER, RAYMOND F.	CONTROL OF COLUMNARIS ON JUVENILE SPRING CHINOOK	1964
	CONTROL OF ICHTHYOPHTHIRIUS UNDER UNFAVORABLE WATER CONDITIONS AT OAK SPRINGS HATCHERY	1968
	A PREVIEW OF THE COLE RIVER HATCHERY	1972
	AN ELECTROFISHER FOR SORTING ADULT SALMON AND STEELHEAD	1974
CUMMINGS, EDWIN	SALMON RANCHING IN DREGON	1978
CUMMINGHAM, DONALD	THE PACO FISH PUMP	1970
CUPLIN, PAUL	IDAHO PRODUCTION DIET TESTS - 1963	1963
	IDAHO PRODUCTION DIET TESTS - 1964	1964
	IDAHO PRODUCTION DIET TESTS - 1965	1965
	IDAHO PRODUCTION DIET TESTS - 1966	1966
	IDAHO PRODUCTION DIET TESTS - 1967	1967
	CHELATED MINERALS IN IDAHO TROUT DIETS	1968
	LINEAR PROGRAMMED IDAHO OPEN FORMULA DIET	1970
CUPLIN, PAUL &	PANTOTHENIC ACID REQUIREMENTS OF HENRYS LAKE CUTTHROAT TROUT FRY	1970

CURTRIGHT, SHARI	SEE FELDMANN, GARY	1977
DAHRENS, ORVILLE F.	SEE ROMEY, DAN	1970
	SEE LEITH, DAVID A.	1975
DAMRON, TOM	SEE NOBLE, ET.AL.	1961
DAVIS, J.P. & D.J. MEERBURG T.R. PORTER	UPWELLING INCUBATION BOXES FOR ATLANTIC SALMON (salmo salar)	1978
DECEW, MARK	AGE AND SIZE OF STEELHEAD TROUT OUTMIGRANTS FROM MARION FORKS HATCHERY, BY SCALE ANALYSIS	1963
	PRELIMINARY REPORT ON THE USE OF ANTIBIOTICS TO CONTROL BACTERIAL INFECTIONS, IN ADULT SALMON	1969
	FROGRESS IN THE STUDY OF ANTIOBIOTIC EFFICACY AND TERATOGENICITY IN ADULT CHINDOK SALMON (Oncorhynchus tschawytscha)	1971
DENTLER, JOHN	EFFICACY OF TWO FUNGICIDES ON EGGS OF CHINOOK SALMON AND SUBSEQUENT EFFECTS ON SALTWATER SURVIVAL	1981
DOLLAR, ALEXANDER M.	NUTRITION AND DISEASE IN TROUT	1960
	COOPERATIVE INVESTIGATIONS OF TROUT HEPATOMA	1961
	EVALUATION OF DRY FEEDS FOR IDAHO CUTTHROAT PROGRAM	1965
DONALDSON, EDWARD M.	SEE HUNTER, GEORGE A.	1980
	SEE HUNTER, GEORGE A.	1981
	SEE STOSS, J.	1981
DONALDSON, JACK R.	THE POSSIBILITIES FOR CULTURING CRAY FISH	1971
DONALDSON, JOHN R.	EFFECT OF VARIATION OF TEMPERATURES ON EGGS	1954
	GROWTH RESPONSE OF TROUT TO LAKE FERTILIZERS	1956
DONALDSON, DR. LAUREN	PROGRESS AND PROBLEMS IN FEEDING FISH IN THE WESTERN STATES	1952
	MINERALS OF IMPORTANCE TO FISH	1954
	EARLY MATURING SOCKEYE AND COHO FROM THE RELEASE OF LARGE ZERO-AGE FINGERLINGS	1969
	RETURN OF ZERO-AGE COHO 'JACKS' FROM THE SEA	1970
	SEE ANDERSON, ROBERT	1971

DONALDSON DR.LAUREN	RETURN OF ACCELERATED COHO SMOLTS AS TWO-YEAR	
CON'T	OLD ADULTS	1972
	CHUM SALMON HATCHERIES OF JAPAN	1973
	RECENT DEVELOPMENT IN FISH CULTURE IN ICELAND, NORWAY, SCOTLAND, AND ENGLAND	1977
	THE PACIFIC SALMON HATCHERY PROGRAM OF THE USSR	1978
	SEE BRANNON, E.L.	1979
DOWNEY, PHIIIP C.	RETENTION TIME IN CIRCULATING PONDS	1979
	A Systems Approach to Hatchery Production or Everything you Wanted to Know About Fish But Were Afraid to Ask Your Computer	1981
DRAGO, HOWARD V.	PRODUCTION FEEDING OF SPRING CHINOOK WITH OREGON PELLETS (DOGFISH)	1963
	PRODUCTION FEEDING TRIALS WITH OREGON STARTER MASH	1966
DURLING, T.B.	PROGRESS REPORT ON THE INTRODUCTION OF COHO SALMON IN THE GREAT LAKES	1967
EARP, BRIAN J.	AN INTERIM REPORT ON FISH DISEASE INVESTIGATIONS	1951
	FISH DISEASE INVESTIGATION, STATE OF WASHINGTON DEPARTMENT OF FISHERIES	1952
	REPORT ON LOW-LEVEL SULFAMETHAZINE PROPHYLAZIS FOR THE CONTROL OF KIDNEY DISEASE	1954
	PROGRESS REPORT ON FISH DISEASE STUDIES	1956
	THE EFFECT OF CERTAIN ANTIBIOTICS ON THE BACTERIUM <u>Cytophaga Psychriphila</u>	1957
	DISEASE PROBLEMS WITH DRY DIETS IN SILVER SALMON	1958
EHINGER, PAUL F. JR.	POLLUTION ABATEMENTTWENTY COLUMBIA RIVER PROGRAM HATCHERIES	1974
EKLUND, DR. MEL	OCCURRENCE OF BOTULISM IN SALMONID REARING FACILITIES	1981
ELLIOTT, DIANA GODSEY	SEE GRISCHKOWSKY, ROGERS	1975
ELLIOTT, JOSEPH W.	THE ROLE OF FISH BODY CHEMISTRY IN CHARACTERIZING PHYSICAL CAPABILITY OF CHINOOK SALMON FINGERLING	1962
	CHEMICAL DIFFERENCES OF HATCHERY-REARED FALL CHINOOK SALMON FINGERLING	1963

CON'T	CHARACTERISTICS	1964
ELLIS, C.H.	1950 KALAMA RIVER HATCHERY DIET EXPERIMENT	1950
	PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD	1951
	1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1952
	ABSTRACT OF DISCUSSION CONCERNING SURVIVALS OF SALMON AS AFFECTED BY VARIABLES IN REARING AND PLANTING TECHNIQUES	1956
	PRELIMINARY RETURNS OF MARKED FISH FROM COLUMBIA RIVER BARGING EXPERIMENTS	1957
	PROGRESS SUMMARY OF WASHINGTON'S HATCHERY EXPERIMENTS	1958
	A RETURN OF ADULT COHO SALMON DEMONSTRATING A HIGH DEGREE OF SELECTIVITY IN HOMING	1968
	VARIANCES IN SURVIVAL OF SALMON EGGS AS EXPERIENCED BY VARIOUS FIELD PERSONNEL WHEN USING DELAYED FERTILIZATION TECHNIQUES	1970
	THE STATE OF WASHINGTON SURPLUS SALMON PROBLEM	1971
ELLIS JAMES N.	THE RECIRCULATING HATCHING UNITS AT THE COLLEGE OF FISHERIS, UNIVERSITY OF WASHINGTON	1964
EMADI, HOAAEIN	YOLK SAC. MALFORMATION IN PACIFIC SALMON	1971
ENNIS, ED	ADVANTAGES OF ACCELERATED INCUBATION IN TEMPERATURE CONTROL SYSTEMS AND CONTROL OF LOW TEMPERATURE DISEASE IN DEEP TROUGH INCUBATION UNITS	1972
ERICKSON, DAVE	A SPINAL CURVATURE RELATED TO <u>ICHTHYOSPORIDIUM</u> INFECTION IN RAINBOW TROUT	1963
ERICKSON, J. DAVID	TOXAPHENE POISONING OF RAINBOW TROUT	1968
EVENSON, M.C.	SEE EWING, R.D.	1981
EVENSON, MICHAEL D.	SEE PRIBBLE, HOWARD J.	1975
EVENSON, MIKE & JIM PRIBBLE JIM LICHATOWICH	EXPERIMENTAL CROSSES OF HATCHERY AND WILD STEELHEAD AT COLE RIVERS HATCHERYS, OREGON	1974

EWING, R.D.	SEE JOHNSON, S.L.	1975
EWING, R.D. & S.L. JOHNSON	EFFECTS OF DETERGENTS ON GILL (Na+K)-ATPASE ACTIVITY IN CHINOOK SALMON	1975
EWING, R.D. & M.C. EVENSON E.K. BIRKS	RELATIONSHIPS BETWEEN SEX, COLORATION AND MIGRATION TENDENCY IN STEELHEAD TROUT	1981
FAGERLUND, U.H.M. & J.R. McBRIDE	POTENTIAL FOR SEX STEROIDS AS GROWTH PROMOTERS	1974
FALLERT, STEVE	SEE NOBLE, <u>ET.AL.</u>	1961
FARRELL, R. KEITH	THE SALMON DISEASE FLUKE PAST AND PRESENT	1963
	SEE BELL, ET.AL.	1970
FARRELL, R. KEITH & LYNN D. WINWARD	THE INTERNATIONAL IDENTIFICATION SYSTEM	1966
FELDMANN, GARY	THE EFFECT OF ACCELERATED GROWTH AND EARLY RELEASE ON THE TIMING, SIZE, AND NUMBER OF RETURNS OF COHO SALMON (Oncorhynchus kisutch)	1974
FELDMANN, GARY & Martin Figg	THE EFFECT OF ACCELERATED GROWTH AND EARLY RELEASE ON TIMING, SIZE, AND NUMBERS OF RETURN OF QUINAULT SOCKEYE SALMON	1975
	GROWTH RATE DIFFERENCES IN SUBPOPULATIONS OF QUINAULT SOCKEYE SALMON	1976
FELDMANN, GARY ε DAVID SMITH	A PRELIMINARY REPORT ON THE EFFECT OF SIZE AND TIMING ON GILL ATPASE ACTIVITY OF SOCKEYE SALMON (0. $nerka$)	1976
FELDMANA, GARY & SHARI CURTRIGHT	PRELIMINARY REPORT ON THE EFFECT OF SIZE AND TIMING ON GILL ATPASE IN QUINAULT SOCKEYE AND STEELHEAD AND QUEETS FALL CHINOOK	1977
FERGUSON, GREG & BRIAN ALLEE	Oxygen Consumption of Coho Salmon in a Pumped Saltwater Raceway	1975
FESSLER, JAMES L.	WATER TEMP. CONTROLS IN EXPERIMENTAL HATCHERY	1967
	CHANGES IN CHEMICAL COMPOSITION, COEFFICIENT OF CONDITION AND BODY MORPHOLOGY ASSOCIATED WITH THE PARR-SMOLT TRANSFORMATION IN STEELHEAD TROUT	1968
	SOME SMOLT CHARACTERISTICS IN SUMMER STEELHEAD	1973
FIGG, MARTIN	SEE FELDMANN, GARY	1975
	SEE FELDMANN, GARY	1976

FLATOW, ROBERT E.	THE CONTROL OF FISH DISEASE IN THE HATCHERY BY USE OF HIGH RADIATION, MONITORED ULTRA VIOLET AND A NEW FILTER SYSTEM	1970
	HIGH VOLUME AND ECONOMIC, ULTRA-VIOLET WATER PURIFICATION AND FILTRATION UNITS FOR HATCHERIES	1971
	UPDATING ULTRA-VIOLET LIGHT WATER PURIFICATION	1972
FLYNN, JAMES K.	TREATMENT OF A MONOGENTIC TREMATODE RESISTANT TO AN ORANOPHOSPHATE	1979
FOCHT, RICHARD	PREDICTING THE SIZE-RELATED GROWTH POTENTIAL OF KAMLOOPS TROUT IN AN AQUACULTURE SYSTEM	1979
FORTUNE, JOHN	PROGRESS REPORT ON CONTRIBUTION OF HATCHERY PRODUCED SUMMER STEELHEAD TO SILETZ RIVER	1971
FOSTER, ROBERT W.	PERCIVAL COVE DELAYED CHINOOK PROGRAM	1975
•	MASS INCUBATION AT WASHINGTON DEPARTMENT OF FISHERIES HATCHERIES	1978
	HATCHERY EVALUATIONS-WDF STYLE	1979
	THE MUDDY ROAD HOME OR WHO PUT THIS MOUNTAIN IN MY RIVER	1980
FOWLER, LARRY G.	ADVANCES WITH THE ABERNATHY DIET	1968
	PROGRESS REPORT ON THE ABERNATHY DRY DIET	1969
	PROGRESS WITH THE ABERNATHY DRY DIET	1971
	HERRING MEAL REPLACEMENTS IN THE ABERNATHY DIET	1974
FOWLER, LAURIE G.	1962 FEEDING TRIALS, SALMON-CULTURAL LABORATORY	1962
	1963 FEEDING TRIALS, SALMON CULTURAL LABORATORY	1963
	NURTITIONAL STUDIES AT ABERNATHY SALMON-CULTURAL LABORATORY	1964
	STARTING DIETS AND THE RESURLTS OF THE 1966 FEEDING TRIALS	1966
FOX, CECIL L.	THE FISH SORTING FACILITY AT COWLITZ TROUT HATCHERY	1968
	THE HEATED WATER SYSTEM AT MICHIGANS PLATT RIVER HATCHERY	1969

FUX, CECIL L.	AN ENGINEERING FIRM LOOKS AT HATCHERY WASTEWATER	
CON'T	TREATMENT	1973
	WISCONSIN'S BAYFIELD HATCHERY UTILIZES SOME NEW TECHNIQUES	1973
FREITAG, GARY R.	STRAYING AND HOMING OF TRANSPLANTED DISAPPEARANCE CREEK, ALASKA CHUM SALMON TO BEAVER FALLS HATCHERY, ALASKA	1980
FRYER, DR.JOHN L.	FURNUCULOSIS IN ADULT SALMON AND STEELHEAD TROUT	1963
	SEE LAW, DUNCAN	1961
	SEE AMEND, ET.AL.	1962
	SEE AMEND	1962
	SEE SPENCE	1963
	SEE SANDERS	1966
	SEE SANDERS	1967
	SEE NELSON ET.AL.	1969
	SEE GOULD ET.AL.	1969
	CURRENT RESEARCH CONCERNING ORAL IMMUNIZATION OF SALMONIDS AGAINST BACTERIAL DISEASE	1970
	SEE ROHOVEC, J.S.	1974
	SEE BAKER, R.J.	1979
FRYER, JOHN L. & ALEX YUSHA K.S. PILCHER	METHODS FOR THE PREPARATION OF TISSUE CULTURES FROM SALMONID FISHES	1962
FRYER, J.L. ε G.L. TEBBIT	IMMUNIZATION OF FISH FOR CONTROL OF INFECTIOUS HEMATOPOIETIC NECROSIS	1975
FRYE, TED	THE EFFECT OF ENVIRONMENTAL FACTORS ON VITAMIN RETENTION IN PROCESSED FISH FOOD	1976
FUJIHARA, M.P.	Chondrococcus columnaris Antibody Production in Columbia River Fishes	1966
	COLUMNARIS EXPOSURE AND ANTIBODY PRODUCTION IN SEAWARD AND UPSTREAM MIGRANT SOCKEYE SALMON	1967

CHARLES JOHNSON	EVALUATION OF THREE PLASTIC SUBSTRATES IN THE INCUBATION OF CHUM SALMON	1981
	THE USE OF PLASTIC SUBSTRATE IN THE INCUBATION OF COHO SALMON AT A COLD WATER HATCHERY	1981
GARLICK, LEWIS R.	SOME PRINCIPLES OF HATCHERY FEED ROOM ARRANGEMENT AND MANAGEMENT	1955
GARRISON, ROBERT L.	THE GROWTH OF JUVENILE SALMONIDS IN REARING PONDS	1964
	PROGRESS AGAINST VIBRIOSIS IN SALTWATER REARING AT LINT SLOUGH	1969
	VIBRIO IMMUNIZATION STUDIES	1972
GASTINEAU, ALFRED C.	A COMPARISON OF SEVERAL SALMON VISCERA INCLUDED IN THE DIET FED TO SOCKEYE FINGERLINGS AT THE LEAVENWORTH, WASHINGTON FISH CULTURAL STATION	1954
	CLARK'S NEW AGE TROUT FEED FOR SOCKEYE SALMON FINGERLING DIET	1957
	FEEDING DRY FEEDS TO SOCKEYE SALMON	1958
	COMMERCIAL DRY FEEDS FOR SOCKEYE SALMON FINGERLING	1959
	FREQUENCY OF FEEDING DRY FEEDS TO SOCKEYE SALMON FINGERLING	1960
GATES, D.H.	COMMERCIAL FISH REARING ON CAPE BRETON ISLAND	1975
GAYLORD, W.H. JR.	Nocardiosis in Young Salmon	1957
GEARHEARD, JIM	EARLY VS. LATE RELEASE OF STEELHEAD OR WHAT A DIFFERENCE A MONTH MAKES	1981
GIGER, RICHARD	SEE RAYNER	1966
GORBMAN, A.	SEE C.L. JOHNSON, ET.AL.	1967
GOULD, R.W. & J.E. SANDERS J.L. FRYER	OCCURRENCE OF THE PROTOZOAN FISH PARASITE (Ceratomyxa shasta). IN THE COLUMBIA RIVER BASIN AND THE ULTRA-STRUCTURE OF THE SPORT	1969
GOVEN, BEVERLY A.	ANTIPROTOZOAN IMMUNIZATION STUDIES IN THE CHANNEL CATFISH, (Ictalurus punctatus)	1979
GRAYBILL, JIM	FISH CULTURAL PROGRAM AT MT. HOOD COMMUNITY COLLEGE	1973
GREEN, C.C.	KIDNEY DISEASE IN RAINBOW BROOD STOCK	1957

GRIFFIOEN, WARD	SEE BELL, G.R.	1974
	SEE CARNES, G.	1981
GRIFFIOEN, WARD ε J. VOELKNER	GROWTH RATES OF JUVENILE CHUM IN COLD WATER FED ON FIVE DIFFERENT RATION TYPES	1980
GRISCHKOWSKY, ROGER ε DONALD F. AMEND	SURVEY FOR INFECTIOUS HEMATOPOIETIC NECROSIS VIRUS IN ALASKA SOCKEYE SALMON (Oncorhynchus nerka)	1974
GISCHKOWSKY, ROGER & DIANA GODSEY ELLIOT	INCREASE IN KNOWN DISTRIBUTION OF INFECTIOUS THEMATOPIETIC NECROSIS VIRUS IN ALASKAN SOCKEYE SALMON	1975
GROBERG, WARREN	RECENT DEVELOPMENTS IN FISH VIRAL EXAMINATIONS AT OREGON HATCHERIES	1979
GRAMAN, DAVID B.	UPDATE: ERYTHROMYCIN PHOSPHATE WATER HARDENING AS A CONTROL OF BACTERIAL KIDNEY DISEASE IN CHINOOK SALMON	1979
	UPDATE: BACTERIAL KIDNEY DISEASE CONTROL 1979-1981 ACTIVITIES AT THE UNIVERSITY OF IDAHO	1981
GUENTHER, RAYMOND W.	FOOD AS A VECTOR OF THE SOCKEYE SALMON VIRUS DISEASE	1954
GUNSOLUS, ROBERT T.	ARE WE PROPERLY MANAGING DUR HATCHERY COHO STOCKS?	1978
HAGEN, WILLIAM JR.	THE CONTRIBUTION OF HATCHERIES TO ANGLING	1961
HAGER, ROBERT	MANIPULATION OF COLUMBIA RIVER HATCHERY COHO STOCKS TO MEET THE NEEDS OF FISHERIES MANAGEMENT	1970
	PRELIMINARY RESULTS OF THE 1969 BROOD COHO TIME AND SIZE AT RELEASE STUDY	1972
•	SEE KACZYNSKI, VIC	1981
HALL, JAMES D.	FURNCULOSIS IN THE CHESTNUT LAMPREY	1964
HALYER, JOHN E.	1950 PROGRESS REPORT, NUTRITIONAL REQUIREMENTS OF CHINOOK AND BLUEBACK SALMON	1950
	VITAMIN-TEST DIET FOR CHINOOK SALMON	1951
	THE QUALITATIVE WATER-SOLUBLE VITAMIN REQUIREMENT OF CHINOOK SALMON	1952
	PROTEIN REQUIREMENT STUDIES WITH SALMONIDS	1954
	THE AMINO ACID REQUIREMENTS OF CHINOOK SALMON	1955

HALVER, JOHN E.	PROTEIN REQUIREMENTS OF SALMON	1956
	AMINO ACID REQUIREMENTS OF CHINOOK SALMON	1957
	AMINO ACID REQUIREMENTS OF SALMON	1958
	ISOLEUCINE, LEUCINE, PHENYALANINCE AND VALINE REQUIREMENTS OF CHINOOK SALMON	1959
	CARCINOGENOSIS IN TROUT	1960
	TRYPTOPHAN REQUIREMENTS OF CHINOOK, SOCKEYE AND SILVER SALMON	1964
	SEE ASHLEY <u>ET.AL</u> .	1967
	SEE C.E. SMITH <u>ET.AL</u> .	1967
	ENIGMA IN SEA FISH HUSBANDRY	1969
	VITAMIN C ₃ FOR FISH	1971
	SEE WOLF, DAVID A.	1979
	SEE TUCKER, BARBEE	1981
	SEE VILLALON, J.R.	1981
HALVER, J.E. & G.N. WOGAN L.M. ASHLEY R.R. SMITH	SIZE AND SENSITIVITY OF TROUT TO AFLAXTOXIN B ₁	1967
HALVER, J.E. & G. PIGOTT	MANUFACTURING LARVAL FISH FEED PRACTICES	1979
HAMMERSTROM, RICHARD	SUSCEPTIBILITY OF TWO SPECIES OF SALMON TO BOTULISM INTOXIFICATION	1964
HANDY, PAUL	ANADROMOUS FISH ARE RETURNING	1971
HANKS, DELBERT	PRESENATION OF THE OREGON DEPARTMENT OF FISH AND WILDLIFE MOBILE MICRO TAGGING UNIT	1977
HANSEN, RICHARD J.	HATCHERY EFFLUENT STANDARDS IN CALIFORNIA	1973
HARACHE, Y. & A. NOVOTONY	FIRST SPAWNING OF MATURE CULTURED COHO IN THE REGION OF BRETAGNE (FRANCE).	1975
	FIRST RESULTS OF COHO SALMON FARMING IN FRANCE	1975
HARCHE, Y. & P. LAGARDE P. PROUZET	AN INTERNAL MAGNETIC TAG FOR SALMON SMOLTS	1977
HARRELL, LEE WILEY	MASS MORTALITIES IN PUGET SOUND AQUACUTURE	1973

MICHAEL H. SCHIEWE	FURTHER EVIDENCE OF TWO STRAINS OF PATHOGENIC VIBRIOS IN SALMON IN PUGET SOUND	1974
HARRIS, BILL	STANDARD DESIGN LIBERATION TANK CUTS COSTS	1971
HARRIS, T.O.	SEE CONTE, ET.AL.	1973
HARVEY, DICK	LIVING RIVER	1973
HAWKES, CLIFFORD L.	A PHOTOGRAPHIC METHOD FOR PRECISE GROWTH MEASUREMENT OF LIVE UNANESTHETIZED FISH	1972
HAWKES, DR.JOYCE A.	THE FINE STRUCTURE OF THE EPIDERMIS AND CHROMATOPHORES OF SALMONID SKINS	1972
HEARD, WILLIAM R.	FRUSTRATED FISH FROM FALL RELEASES: SIGNIFICANCE OF THE TIME WINDOW IN ALASKA	1979
	OBSERVATIONS ON HOMING OF COHO SALMON FROM SHORT DISTANCE TRANSPLANTS	1980
HELMS, BILL	AERIAL FISH DROP EXPERIMENTS (PRESENTED BY RALPH GARBUTT)	1961
HEMING, T.A.	INFLUENCE OF TEMPERATURE ON TIME TO COMMENCE FEEDING OF CHINOOK SALMON ALEVINS	1980
HENDRICKS, JERRY D.	SEE PUTMAN, GEORGE B.	1975
	POST-MORTEM BILE DAMAGE TO RAINBOW TROUT LIVERS	1976
	A NATURALLY OCCURING TOXIN AND CARCINOGEN IN COTTONSEED PRODUCTS	1977
HENDRICKS, JERRY & STEVE L. LEEK	KIDNEY DISEASE POSTORBITAL LESIONS IN CHINOOK SALMON	1974
HERSHBERGER, W.K.	GROWTH AND DEVELOPMENT IN YOUNG CHINOOK SALMON DERIVED FROM INTERYEER-CLASS CROSSES	1974
HESSER, E.F.	METHODS OF FISH HEMATOLOGY	1959
HICKS, CHARLES E.	GROWTH RATES AND CONDITION INDEX FOR RAINBOW TROUT FED DRY DIETS	1964
HIGGS, DAVE	SEE McCallum, Ian	1980
HIGGS, KENNE	PRACTICAL APPLICATIONS OF WATER REUSE SYSTEMS IN REGION ONE HATCHERIES	1968
HILL RAYMOND L.	SEE MORTON, K.E.	1973
	COMPARISON BETWEEN TWO METHODS OF FEEDING AS RELATED TO FIN EROSION	1974

HILL, RAYMOND L. CON'T	RESULTS OF TREATMENTS FOR SOFT SHELL EGG DISEASE IN CHINOOK SALMON	1977
HILL, RAYMOND L. ε DON E. RATLIFF	RINSING UNFERTILIZED STEELHEAD EGGS AND I.H.N. VIRUS	1980
HILTZ, CHARLES	SEE HULL	1963
HOLT, R.A.	SEROLGICAL TYPING AND CONTROL OF (gytophaga psychrophila) THE CAUSITIVE AGENT OF BACTERIAL COLD WATER DISEASE	1969
HOLT, R.A. & J.F. CONRAD	OBSERVATIONS ON PSEUDO-KIDNEY DISEASE AND THE REDMOUTH DISEASE BACTERIUM IN OREGON SALMONIDS	1970
HOLT, R.A. & J.E. SANDERS	EFFECTS OF WATER TEMPERATURE ON INFECTION OF YOUNG SALMONIDS BY (Chondrococcus columnaris)	1973
HOLT, R. & M. SMITH J. ZAKEL D. MAHER	ANTIBIOTIC INJECTION OF ADULT SPRING CHINOOK SALMON TO REDUCE PRESPAWNING LOSSES AT SEVERAL OREGON FISH HATCHERIES	1979
HOLWAY, JAMIESON E.	COLLAPSING MEMBRANE DISEASE OF BROOK TROUT EGG AND SAC FRY	1967
	TRANSFERING MODERN ADVANCES IN TROUT CULTURE To COHO SALMON	1975
	TEMPERATURE UNITS PER INCH OF GAIN PER 30 DAYS (TU/INCH GAIN): ITS SIGNIFICANCE AND USE	1976
	EAGLE CREEK NATIONAL FISH HATCHERY DENSITY STUDY FOR COHO SALMON	1980
	EAGLE CREEK NATIONAL FISH HATCHERY DENSITY STUDY	
HOOTON, R.M.	SEE BUCHANAN, DAVID V.	1981
HOPLEY, CHARLES W.JR	. FEEDING OF CHINOOK SALMON ALEVINS	1974
	THE EFFECT OF EARLY FEEDING ON THE RATE OF YOLK ABSORPTION IN CHINOOK SALMON (Oncorhynchus tshawytscha)	1975
	COWLITZ SPRING CHINOOK REARING DENSITY STUDY	1980
HORAK, DONALD L.	CAN THE STAMINA TUNNEL BY USED TO PREDICT SURVIVAL OF HATCHERY REARED RAINBOW TROUT	1970
HORN, E.B.	SILVER SALMON FEEDING TEST WITH CLARK'S NEW AGE DRY TROUT FOOD	1957
	FEEDING SILVER SALMON AT QUILCENE HATCHERY (DRY FEED)	1958

HORTON, HOWARD F.	THE EFFECTS OF TIME, DENSITY, MOTION AND STARVATION ON THE SURVIVAL OF TRANSPORTED TROUT	1958
	ADVANCES IN CRYO-PRESERVATION OF SALMONID SPERM	1968
HOSKINS, G.E. & E.T. STONE	AN EPIZOOTIC OF ATYPICAL BACTERIAL KIDNEY DISEASE IN ADULT MIGRANT COHO	1980
HUBLOU, WALLACE F.	MARION FORKS FIRST FEEDING EXPERIMENT	1951
	MARION FORKS SECOND FEEDING EXPERIMENT	1951
	NOTES ON THE EXPERIMENTAL FEEDING PROGRAMS AT THE MARION FORKS LABORATORY DURING 1952	1952
	1954 NUTRITIONAL STUDIES AT SANDY, OREGON	1954
	PRODUCTION TYPE DIET EXPERIMENT, SANDY	1955
	A PROGRESS REPORT ON NUTRITIONAL RESEARCH IN OREGON	1956
	AN EXPERIMENT USING PMA AND LIGNASAN TREATMNETS AS A PROPHYLAXIS AGAINST BACTERIAL GILL DISEASE	1957
	PROGRESS REPORT ON PRODUCTION DIET EXPERIMENTS	1957
	PROGRESS REPORT ON NUTRITION RESEARCH	1958
	FURTHER INFORMATION CONCERNING OREGON PELLETS IN PRODUCTION	1960
	OREGON PELLETS AS A STARTING DIET FEEDING OF DEHYDRATED OREGON PELLETS	1961
HUBLOU, WALLACE F.	SUGGESTIONS CONCERNING 'PROCEEDINGS OF THE N.W.F.C.C.'	1967
	PLANNING COMMITTEE REPORT	1968
HUBLOU, WALLACE F. & IRVING W. JONES	OREGON FISH COMMISSION HATCHERY PRODUCTION SUMMARY 1960-1967 BROOD SALMON AND STEELHEAD	1969
HULL, MARVIN	PROGRESS WITH SUMMER-RUN STEELHEAD, SKAMANIA	1961
	INCREASED SIZE IN SUMMER RUN STEELHEAD ADULTS	1968
	TESTING EXTENDED DAYLIGHT HOURS WITH TUNGSTEN LIGHTFOR EARLIER SPAWNING OF SUMMER-RUN STEELHEAD	1970
	ADULTS STEELHEAD RETURNS FROM PLANTS RELATED	1971
	PROGRESS? REPORT ON SUMMMER-RUN STEELHEAD AT SKAMANIA HATCHERY	1974

HULL, MARVIN & CHARLES HILTZ	NEW TOOL FOR SPAWNING	1963
HUMPHREYS, JIM	SMALL SCALE SALMON ENHANCEMENT PROJECTS IN NORTHERN PUGET SOUND	1981
	EXPERIMENTAL PRODUCTION OF ALL FEMALE AND STERILE GROUPS OF COHO SALMON (Oncorhynchus kisutch)	1980
HUNTER, GEORGE A. & EDWARD DONALDSON EDTON T. STONE	CONTROL OF SEX IN SALMONIDS: PILOT RELEASE OF STERILE AND ALL-FELMALE GROUPS OF COHO SALMON (neorhynchus kisutch) FROM THE CAPILAN SALMON HATCHERY	1981
HUNTER, CHARLES J.	AN AIRLIFT FLOATING FISH TANK	1975
HURLEY, D.A.	EFFECT OF SPAWNING DENSITY OF SOCKEYE SALMON ON THE NUMBER OF RESULTING FRY	1965
IVERSON, RON	RECENT TRENDS IN THE PACIFIC COAST ANADROMOUS FISH PROGRAM	1980
IWAMA, GEORGE K. & ARTHUR R. TAUTZ	A SIMPLE GROWTH MODEL FOR HATCHERY SALMONIDS	1979
JAMES, MILTON C.	HATCHERY RECORD KEEPING	1959
JEFFRIES, ERNEST R.	EXPERIMENTAL DESIGN, 1949 AND 1950 FEEDING TRIALS	1950
	1950 FEEDING EXPERIMENTS	1951
	WORK DONE BY THE OREGON FISH COMMISSION AT THE SANDY LABORATORY DURING 1952	1952
	SUMMARY OF A 1956 BROOD SILVER SALMON MARKING EXPERIMENT AT THE KLASKANINE HATCHERY	1959
	FISH CULTURE OPERATIONS AT THE OXBOW-BROWNLEE DAMS ON THE SNAKE RIVER	1961
	SEE PANEL: NOBLE ET.AL.	1961
JEFFRIES, ERNIE	A NEW PROBLEM-DISPOSAL OF ADULT SALMON RETURNING TO HATCHERIES	1971
JENSEN, ANDREW	TEMPERATURES INCUBATION ANALYSIS AT RINGOLD STUDY AREA	1968
JENSEN, CHRIS C.	PRELIMINARY RESULTS OF COMMERCIAL PELLET FEEDING AT OREGON GAME COMMISSION HATCHERIES	1959
	PROGRESS REPORT ON AUTOMATION AT OREGON STATE GAME COMMISSION HATCHERIES	1960
	PROGRESS REPORT ON FROZEN FOOD PELLET FEEDERS	1967

JENSON, J.O.T.	EFFECT OF TOTAL GAS PRESSURE, TEMPERATURE, AND TOTAL WATER HARDNESS ON STEELHEAD EGGS AND ALEVINS	1980
	MECHANICAL SHOCK SENSITIVITY, WATER UPTAKE AND DEVELOP- MENT OF INTERNAL EGG PRESURE IN COHO SALMON EGGS	1980
JOHANSEN, JOHN M.	IMPROVEMENT IN CUTTHROAT PROGRAM FEEDING DRY FEED	1958
	INDEXES OF EVALUATING A TROUT HATCHERY SYSTEM	1965
	ANALYSIS OF HATCHERY PERFORMANCE BASED ON INDEXES OF EVALUATION WITH COMMENTS ON THE INFLUENCE OF MORTALITY	1966
JOHNSEN, RICHARD	MARKING JUVENILE SALMON BY IMMERSION IN DMSO- TETRACYCLINE SOLUTIONS	1966
JOHNSON, A. KENNETH	SEE JUNGE	1967
	SEE POON	1969
	RESULTS OF 1970 FALL CHINOOK STORED EGGS SHIPMENT	1970
	SEE MCINTYRE, JOHN D.	1973
	SEE MCINTYRE, J.D.	1974
	SEE MCINTYRE, JOHN D.	1976
	SEE MCINTYRE, JOHN D.	1977
JOHNSON, A. KENNETH ε DON BARRETT	UP, UP, AND AWAY IN A FISH LOCK WITH SPECIAL EMPHASIS ON THE NEW BONNEVILLE SALMON HATCHERY SPAWNING FACILITIES	1975
JOHNSON, BARNEY W.	TRANSPORTATION OF FRESHLY SPAWNED, FERTILIZED PINK SALMON EGGS BY AIR	1954
JOHNSON, CLARENCE L.	IODINE METABOLISM IN ADULT CHINOOK SALMON	1966
JOHNSON, C.L.	ASCORBATE IN RAINBOW TROUT	1971
JOHNSON, C.L. & K. OSHIMA A. GORBMAN	FISH CAN SMELL SALT	1967
JOHNSON, CHARLES	SEE FUSS, HOWARD	1981
	SEE FUSS, HOWARD	1981
JOHNSON, CHARLES & CLARENCE BRACKISH	WATER ENVIRONMENT FOR RAISING FISH	1972
JOHNSON, D.A.	SEE BOUCK, G.R.	1977

JOHNSON, HARLAN E.	1950 COLEMAN HATCHERY PRODUCTION DIET DORENA DAM EXPERIMENTAL HATCHERY	1950
	RESULTS OF EXPERIMENTS AT THE DORENA DAM EXPERIMENTAL LABORATORY	1952
	ALL-MEAT DIETS FOR CHINOOK SALMON	1954
	HATCHERY RECOVERIES OF MARKED FALL CHINOOK SALMON	1957
	TESTS ON DRY FEED FOR SALMON	1958
	RECOVERIES OF MARKED ADULT FALL CHINOOK SALMON FROM SPRING CREEK AND LITTLE WHITE SALMON	1959
	RECOVERIES OF MARKED ADULT FALL CHINOOK SALMON FROM SPRING CREEK AND LITTLE WHITE SALMON	1960
	RECOVERIES OF MARKED ADULT SALMON RELEASED FROM SPRING CREEK AND LITTLE WHITE SALMON NATIONAL FISH HATCHERIES	1961
	RECOVERIES OF MARKED ADULT SALMON RELEASED FROM SPRING CREEK AND LITTLE WHITE SALMON NATIONAL FISH HATCHERIES	1962
	ANESTHESIA FOR ADULT SALMON	1965
	CARBON DIOXIDE ANESTHESIA FOR ADULT SALMON	1968
	SEE KATZ	1967
JOHNSON, K.E.	AN EVALUATION OF TWO RAINBOW TROUT STRAINS FOR RESISTANCE TO (Ceratomyxa shasta)	1972
JOHNSON, KEITH A.	RECENT OBSERVATIONS CONCERNING Cerotomyxa shasta	1971
	UPDATE ON LUMMI INDIAN AQUACULTURE	1975
	TEST FOR ANTIGENIC INTERFERENCE WITH HIVAX* Vibrio anguillarum and REMOVAX* ERM COMBINATION BACTERINS FOR IMMERSION VACCINATION OF FALL CHINOOK SALMON AND RAINBOW TROUT	1979
	EVALUATION OF AN EXPERIMENTAL Aeromonas salmonida VACCINE	1980
JOHNSON, RIVCHAR S.	SEE QUEIRDO, LEWIS E.	1976
JOHNSON, S.L.	SEE EWING, R.D.	1975
JOHNSON, S.L. ε R.D. EWING JAMES A. LICHATOWI	ACTIVATED ATPASE IN GILL TISSUE	1975

JOHNSTON, JAMES M.	TERRITORIAL AND FEEDING BEHAVIOR OF STEELHEAD	1070
	AND COHO WITHIN A STREAMS MICROHABITATS	1970
JONES, G. IVAN	THIAMIN LOSS IN STARVED LIVER	1950
JONES, IRVING W.	MARKING SALMONIDS WITH TETRACYCLINE ANTIBIOTICS	1964
	TETRACYCLINE MARKING AND THERMAL BRAND STUDIES	1965
	TETRACYCLINE MARKING AND THERMAL BRAND STUDIES - A PROGRESS REPORT	1966
	SEE JUNGE	1967
	SEE HUBLOU	1969
JUNGE, CHARLES, O & A.K. JOHNSON IRVING JONES	ELECTROCUTING AND TETRACYCLINE MARK SAMPLING OF BIG CREEK HATCHERY COHO RETURNS	1967
KACZYNSKI, VIC W.	CONCEPTUAL REDESIGN OF MID-COLUMBIA SPAWNING CHANNELS TO RACEWAYS	1979
KACZYNSKI, VIC & BOB HAGER JIM WOOD	REDESIGN OF THE PRIEST RAPIDS SALMON HATCHERY	1981
KATZ, BOB	RESPIRATORY DISEASES AND THEIR TREATMENT	1977
KATZ, MAX ε CLARENCE D. BACKER	Cryptobia salmositica A HEMOFLAGELLATE PARASITE OF COHO SALMON	1960
KAZT, MAX & CLARENCE D. BECKER ALBERT K. SPARKS	PRELIMINARY OBSERVATIONS REGARDING THE DISTRIBUTION OF Cryptobia IN THE PACIFIC COAST STATES	1961
KATZ, MAX & H.E. JOHNSON	CLORINATED HYDROCARBON INSECTICIDES AND FISH	1967
KENNEDY, O	SEE BELL, G.R.	1974
KEPSHIRE, B.M. ε GARY G. WALL	MARINE SURVIVAL OF COHO SALMON SMOLTS RELEASED DIRECTLY FOR TRANSPORT VEHICLIES INTO ESTUARIES	1980
KEPSHIRE, BERNARD M.	GROWTH OF PINK CHUM AND CHINOOK SALMON IN HEATED SEA WATER	1971
	SEE TORKKO, CHARLES E.	1977
KINCAID, HAROLD L.	PROGRESS OF STRAIN EVALUATION STUDIES	1977
	COMPARISON OF RAINBOW TROUT STRAINS IN HATCHERY AND FIELD TESTS	1978

KINCHELOE, JOHN	INFECTIOUS PANCREATIC NECROSIS	1962
KING, J.G.	SEE KLONTZ, G.W.	1974
KING, JOHN L.	STEELHEAD FARM PONDS	1961
KLONTZ, GEORGE W.	ORAL IMMUNIZATION OF RAINBOW TROUT	1963
(BILL)	HEMATOLOGY AND FISH DISEASES	1963
	THE TEAM	1964
	THE FURUNCULOSIS FAD	1966
	FDA CLEARANCE AND REGISTRATION OF DRUGS FOR USE IN FISH CULTURE	1967
	Status of Oral Immunization of Juvenile Coho Salmon Against Furunculosis	1968
	To Transfer of Not TransferThat is the Question	1972
	PRODUCTION VERSUS PRODUCT: A PARADOX ?	1974
	SEE STROUD, RICHARD K.	1974
	A PHILOSOPHY OF FISH CULTURE	1975
	SEE AMOS, KEVIN H.	1975
	AQUACULTURE IN IDAHO	1976
	TREAT-THINK-AND BE WARY	1977
	A METHOD OF CONDUCTING HATCHERY DIET TRIALS	1977
	RECENT ADVANCES IN BIOFILTER PERFORMANCE	1978
•	RESPIRATORY DISEASES OF HATCHERY REARED SALMONIDS	1979
	A METHOD OF POND INVENTORYING	1979
	HATCHERY SITE SELECTION OR 'WHY DOES IT HAVE TO BE THIS WAY ?'	1981
	SEE DOWNEY, PHILIP C.	1981
KLONTZ, G.W.(BILL) & J.G. KING	STATUS OF THE IDAHO FOOD FISH INDUSTRY	1974
	ENVIRONMENTAL GILL DISEASE (EGD): WHAT IT IS AND WHAT TO DO ABOUT IT	1981
KLONTZ, G.W. (BILL) & LESLIE SCHAEFFER DREW SCHAEFFER	THE OREGON STEELHEAD DEMOSTRATION PROJECT	1981

KNITTEL, MARTIN D.	AEROMONAS LIQUEFACIENS INFECTIONS IN ADULT CHINOUK SALMON	1963
	SEE BAKER, R.J.	1979
KNOWLES, VERON	A COMPARISON OF TECHNIQUES FOR SPAWNING STEELHEAD TROUT	1964
KOLB, RICHARD	A HISTORY OF THE WASHINGTON DEPARTMENT OF FISHERIES PINK SALMON REARING PROGRAM	1975
	SETTLING OF WATER BORNE SOLIDS USING READILY AVAILABLE MATERIALS	1981
KOSKI, K. VICTOR	SEE E.O. SALO	1967
	SEE DR. J.B. SADDLER	1969
	SEE DR. J.B. SADDLER	1970
KOSKI, K. VICTOR & S.L. SCHRODER E.O. SALO R.R. ABBOTT	PEN REARING OF DR. DONALDSON'S RAINBOW STEELHEAD CROSSES AT BIG BEEF CREEK	1970
KOSKI, R.O.	RECENT DEVELOPMENTS IN FISH TRANSPORTATION IN OREGON	1961
LAGARDE, P.	SEE HARCHE, Y.	1977
LAGASSE, JEAN P.	SEE LEITH, DAVID A.	1975
	SEE CRAWFORD, DAVID L.	1979
LAROCHE, GILLES	SEE WOODALL	1963
LARRICK, WALTER D.	THE INITIAL PHASES OF AN OPERATING CENTRAL INCUBATION FACILITY IN SOUTHEAST ALASKA	1980
LARSON, MAX E.	SEE SMITH, R.	1972
LARSON, R.E.	KELP MEAL AS A DIET SUPPLEMENT FOR SALMONIDS	1977
LAW, DUNCAN K.	BASIS FOR DIET COMPOSITION	1955
	PROBLEMS IN MANUFACTURE AND STORAGE OF MOIST PELLETS	1957
	A REPORT ON THE AMBRETTE PELLET MAKING MACHINE	1958
	TECHNIQUES IN PASTEURIZATION OF SALMON PRODUCTS	1958
	RANCID DIET STUDIES, (CONT'D)	1959
	THE EFFECTS OF SELECTED ANTIOXIDANTS AND SELENIUM ON FISH FEED	1960

LAW, DUNCAN K. con't	STUDIES ON COTTONSEED OIL MEAL SUBSTITUTES, BINDERS AND A MODIFIED VITAMIN MIX	1963
	SEE CRAWFORD	1969
	SEE CRAWFORD, D.L.	1973
	SEE WESTGATE, JOHN	1974
	SEE CRAWFORD, DAVID L.	1974
	SEE CRAWFORD, DAVID L.	1976
LAW, DUNCAN K. ε JOHN L. FRYER	COMMERCIAL PASTEURIZATION OF SALMON VISCERA AND ITS POSSIBLE EFFECTS ON THE INCIDENCE OF FISH TUBERCULOSIS	1961
LAW, D.K. D.L. CRAWFORD R.B. MCKEE J.W. WESTGATE	GROWTH RESPONSES OF CHINOOK SALMON TO HERRING OIL OF VARIOUS QUALITIES	1976
LEACH, JAMES G.	THE PASCO FISH TRANSFER PUMP.	1969
LEEK, STEVE L.	SEE HENDRICKS, JERRY D.	1974
	SEE SMITH, ROBERT Z.	1974
	TAGGING PROGRAMS AT SPRING CREEK, WILLARD AND CARSON NATIONAL FISH HATCHERIES	1979
LEIDER, STEVEN A.	SEE CRAWFORD, BRUCE A.	1978
LEITH, DAVID A.	OREGON PELLETS IN PRODUCTION	1959
	STUDIES ON OREGON PELLET FEEDING TECHNIQUES	1964
	SEE LAW, DUNCAN K.	1976
	WASTE DISCHARGES FROM REPRESENTATIVE SALMON CULTURING FACILITIES IN OREGON	1976
	SEE CRAWFORD DAVID L.	1976
LEITH, DAVID A. KEITH D. MORRE	CONTROL OF CERATOMYXA IN A HATCHERY WATER	1967
LEITH, DAVID A. & JEAN P. LAGASSE ORVILLE F. DAHRENS	EFFECTS OF LIPID NUTRITION ON POST-RELEASE SURVIVAL OF COHO SALMON	1975
LEONARD, DENNIS W.	NATURAL ZEOLITES IN FISH CULTURE	1978
LEWIS, ERNEST	DESIGN OF AN AQUACULTURE FACILITY FOR WOODSHOLE OCEANOGRAPHIC INSTITUTE	1973

LEWIS, STEPHEN C.	EVALUATION OF RETURNS FROM HATCHERY-REARED KOKANEE SALMON AT ODELL LAKE, OREGON	1975
LIAO, PAUL B.	THE NITRIFICATION PROCESS FOR RECONDITIONING FISH HATCHERY WATER	1971
	FISH HATCHERY WATER RECONDITION REUSE SYSTEMS	1972
	AMMONIA PRODUCTION RATE AND ITS APPLICATION TO FISH CULTURE SYSTEM PLANNING AND DESIGN	1974
LICHATOWICH, JAMES A.	SEE EVENSON, MIKE	1974
	SEE JOHNSON, S.L.	1975
	SEE PRIBBLE, HOWARD J.	1975
LIENTZ, JOE C.	SEE OLSON, WAYNE H.	1976
LORZ,	ATTEMPTS TO CONTROL EARLY MATURATION OF COHO SALMON	1966
	AN EVALUATION OF TECHNIQUES FOR AUGMENTING THE NATURAL PHOTOPERIOD TO ADVANCE THE ONSET OF MIGRATION IN WINTER STEELHEAD	1973
	THE EFFECTS OF TEMPERATURE ON GILL ATPASE ACTIVITY, SALINITY TOLERANCE, AND MIGRATION IN WINTER STEELHEAD TROUT	1973
	EFFECTS OF COPPER IONS IN FRESHWATER ON GILL ATPASE ACTIVITY, MIGRATION AND SEA WATER ADAPTATION OF JUVENILE COHO SALMON	1975
	EFFECTS OF SELECTED HERBICIDES ON SMOLTING IN COHO SALMON	1980
MACMILLIAN, R.W.	A SAND BIO-FILTER FOR REMOVAL OF AMMONIA NITROGEN	1981
MACQUARRIE, D.W. & D.D. BAILEY	ADULT RETURNS TO THORNTON CREEK-THE SALMONID ENHANCEMENT PROGRAM'S FIRST JAPANESE-STYLE CHUM SALMON HATCHERY	1980
MAHER, D.	SEE HOLT, R.	1979
MAHNKEN, CONNIE	A PAPER ON ACCELERATED COHO BUT DID NOT PROVIDE AN ABSTRACT	1979
MAHNKEN, CONRAD V.W.	THE SIZE OF COHO SALMON AND TIME OF ENTRY INTO SEA WATER: PART 1 EFFECTS ON GROWTH AND CONDITION INDEX	1973
	SEE SPINELLI, JOHN	1975
	SEE SPINELLI. JOHN	1976

MAHNKEN, CONRAD ε JOHN SPINELLI	EFFECTS ON GROWTH OF SALMONIDS FED DIETS CONTAINING SINGLE-CELL PROTEIN DERIVED FROM YEAST AND BACTERIA	1976
MANFIELD, EUGENE T.	SURVEY OF BACTERIAL KIDNEY DISEASE IN THE QUILLAYUTE RIVER SYSTEM	1979
	SURVEY OF KIDNEY DISEASE BACTERIA IN THE QUILLAYUTE RIVER SYSTEM	1980
MARLIAVE, JEFFREY B.	A TIDAL PLANKTON ACCUMULATOR FOR IN-SITU REARING OF PINK AND CHUM FRY	1980
MASTIN, HENRY E.	FACTORS INFLUENCING ABNORMAL EARLY MATURITY OF FEMALE SILVER SALMON OF HATCHEY ORIGIN	1955
MATTSON, CHESTER R.	DEVELOPMENT OF GROUND WATER FOR SALMON ENHANCEMENT CHANNELS	1979
MAYO, RONALD D.	HATCHERY WATER REQUIREMENTS BASED ON SALMONID OXYGEN DEMAND	1970
	A PROGRAM FOR THE STUDY OF FISH HATCHERY WATER TREATMENT SYSTEMS AT THE BOZEMAN FISH CULTURE DEVELOPMENT CENTER IN MONTANA	1971
McBRIDE, J.R.	SEE FAGERLUND, U.H.M.	1974
McCAIN, B.	CHARACTERIZATION OF FIVE FISH CELL LINES	1965
McCALLUM, IAN & DAVE HIGGS BRUCE OWEN	CHINOOK SALMON DIETS BASED ON PRESCRIBED PERFORMANCE AND BODY COMPOSITION	1980
McCLARY, DENNY	DEVELOPMENT AND USE OF AN EGG COUNTER	1967
McCORMICK, J. HOWARD	SEX RATIO CONTROL IN HATCHERY-REARED RUNS OF CHINOOK SALMON (0. tschawytscha)	1962
	PERCENTAGE OF SMALL BLOOD CELLS AS AN INDEX TO QUALITY IN FALL CHINOOK FINGERLINGS	1963
	SEX-RATIO CONTROL IN HATCHERY-PROPAGATED RUNS OF CHINOOK SALMON (PROGRESS REPORT)	1963
McDANIEL, DAVID W.	HATCHERY WASTE WATER TREATMENT AS VIEWED BY THE BUREAU OF SPORT FISHERIES AND WILDLIFE	1973
MCELRATH, ROBERT J.	TESTS OF DRY FEEDS FOR FALL CHINOOK SALMON AT THE CARSON NATIONAL FISH HATCHERY	1959
	TESTS OF DRY FEEDS FOR SPRING CHINOOK SALMON AT THE CARSON NATIONAL FISH HATCHERY	1959
MCELWAIN, IVAN B.	THE NEW WATER AERATION SYSTEM AT MESCALERO NATIONAL FISH HATCHERY	1969

MCINTYRE, JOHN D. & A. KENNETH JOHNSON	PRELIMINARY RESULTS OF SELECTIVE BREEDING TO INCREASE THE YIELD OF COHO SALMON PRODUCED AT BIG CREEK HATCHERY	1974
	RELATIVE SURVIVAL OF TWO TRANSFERRING PHENOTYPES IN BIG CREEK COHO SALMON: A PRELIMINARY REPORT	1976
	SELECTION TO INCREASE YIELD OF BIG CREEK COHO SALMON	1977
	PROGRESS OF COHO SALMON GENETIC STUDIES AT BIG CREEK	1973
MCKEE, THOMAS B.	FIRST FEEDING EXPERIMENT, SEPTEMBER 15, 1949 MARCH 27, 1950	1950
	SECOND FEEDING EXPERIMENT, AUGUST 1, 1950 FEBRUARY 27, 1951	1950
	1951 FEEDING EXPERIMENT	1951
	SANDY TANK TYPE EXPERIMENTAL DIET PROGRAM A PROGRESS REPORT, 1955	1955
	Malachite Green Equipment	1957
	RANCID DIET STUDIES	1959
	TRIALS WITH CRUMBLED OREGON PELLETS AND A PROGRESS REPORT OF OTHER 1962 NUTRITION STUDIES	1962
	OREGON PELLETS AS A STARTER DIET FOR SALMON AND STEELHEAD	1964
	MODIFICATIONS OF THE OREGON STARTER MASH	1967
	SEE CRAWFORD, ET.AL.	1969
	SEE CRAWFORD, D.L.	1973
	SEE WESTGATE, JOHN	1974
MCKERNAN, DONALD L.	1950 OREGON FISH COMMISSION NUTRITION RESEARCH PROGRESS REPORT	1950
	NUTRITIONAL DISEASES	1951
MCLEAN, W.E. & A. BOREHAM	AERATION OF HATCHERY WATER SUPPLIES	1980
MCLAIN, L.R.	SEE ZAUGG, W.S.	1973
MCNAIL, JOHN	Programming Fish Growth	1977

MCNEIL, WILLIAM J.	STATUS OF SIMULATED HATCHERIES FOR PINK AND CHUM SALMON	1970
	ZERO-AGE COHO AN UPDATE FROM OREAQUA	1979
MCPHERSON, BERRY	EFFECTS OF METHYLMERCURY EXPLOSURE ON SEA WATER ADAPTATION OF JUVENILE COHO AND STEELHEAD	1972
MEAD, ROBERT DR.	A VIRAL EPIZOOTIC AT CULTUS LAKE	1967
	SEE SERVIZI, ET.AL.	1968
MEERBURG, D.J.	SEE DAVIS, J.P.	1978
MILLENBACH, CLIFFORD	NUTRITIONAL PROBLEMS	1951
	Washington State Game Department - Feeding Program	1952
	RETENTION OF BROOD STOCK IN BLUE LAKE	1954
	DRY FEED FOR TROUT	1957
MILLS, DWAIN E.	Evaluation of Herring, Salmon, and Hake as Wet Ingredients for Oregon Pellets	1965
	DEVELOPMENT OF THE OREGON STARTER MASH	1966
	TESTING OF VEGETABLE AND FISH OILS AND PASTEURIZED HAKE AS OREGON PELLET INGREDIENTS	1968
	SEE CRAWFORD, ET.AL.	1969
	PRODUCTION RESULTS WITH IMPROVED OREGON STARTER MASH AND PELLETS	1970
	PRODUCTION TRIAL OF ABERNATHY DRY DIET FOR COHO	1971
	PRODUCTION TEST OF ANCHOVY, MENHADEN AND TUNA DILS IN OREGON MOIST PELLET	1979
MISSELDINE, MARK	SEE CUPLIN	1970
MIYAUCHI, DAVE	SUMMARY OF THE SALMON WASTE COLLECTION REPORT	1 951
MONTGOMERY, MONTY	HEMATOLOGY EXPERIMENT	1959
MOORE, KEITH D.	A COMPARISON BETWEEN THE USE OF PLASTIC HATCHING JARS AND STANDARD TROUGHS FOR INCUBATING COHO EGGS	1964
	A LARGE VOLUME MALACHITE GREEN DISPENSER	1966
	SEE LEITH	1967

MORGAN, REGINALD E.	MERCURIALS IN THE HATCHERY: SOME FACTORS INFLUENCEING THE TOXICITY OF TIMSAN (ETHYL MERCURY PHOSPHATE) TO RAINBOW TROUT	1966
	DIQUAT FOR TREATMENT OF COLUMNARIS IN COHO SALMON	1967
MORNING, JOHN R.	CHINOOK SALMON MARICULTURE STUDIES IN PUGET SOUND	1972
	MOVEMENTS AND ANGLER CATCHES OF TWO STRAINS OF HATCHERY-REARED RAINBOW TROUT IN A SMALL OREGON STREAM	1975
MORTON, K.E.	AN ATTEMPT TO CONTROL GROWTH THROUGH THE ALTERNATE FEEDING AND STARVATION OF FISH	1955
	FACTORS INFLUENCING THE EFFICIENT OPERATION OF THE MORTON FISH GRADER	1955
	THE DEVELOPMENT OF A GOLDEN TROUT BROOD STOCK IN OREGON	1957
	Notes on Improvements for the Morton Fish Grader	1957
	Notes on Egg Production from Second Generation Atlantic Salmon	1959
	KAMLOOPS RAINBOW FRY FEEDING TEST USING ONE HUNDRED PER CENT PELLETED FOODS	1959
	EXPERIMENTAL HEATING OF POND WATER TO START RAINBOW FRY ON A DRY DIET	1960
	Notes on Wizard Falls Hatchery Operations	1961
	A PRELIMINARY REPORT ON A NEW MULTIPURPOSE FISH MOVING MACHINE	1963
	MORTONS MONSTER IN ACTION	1968
MORTON, K.E. ε R.L. HILL	OBSERVATIONS AND SPECULATIONS ON FIN EROSION	1973
MORTON, WILLIAM M.	WHEN IS A SALMON A TROUT OR A CHARR OR VICE VERSE ?	1966
MULCAHY, D.M.	SEE SANDERS, J.E.	1973
MULCAHY, D.M. & J.E. SANDERS	DISTRIBUTION OF FISH VIRUSES IN OREGON	1975
MUMAW, LAURA M.	SEE BRUIN, W.J.	1979
	SEE BRUIN, W.J.	1980
MUSGROVE, DONALD A.	SEE BUZZELL, LARRY	1974

NAGGIAR, MORRIE	'FOLLOW THE FISH' A SELF-GUIDED TOUR OF THE BONNEVILLE HATCHERY	1966
NEALEIGH, GEORGE (BILL)	MALICHITE GREEN TREATMENT FOR HEATH INCUBATORS	1970
NELSON, DON	RESUME ON THE REPORT 'COMMERCIAL TROUT HATCHERIES OF SOUTHERN IDAHO'	1973
NELSON, J.S. DR. J.L. FRYER R.L. GARRISON	ORAL IMMUNIZATION OF SALMONID FISH FOR CONTROL OF VIBRIOSIS	1969
NEWMAN, H. WILLIAM	SUMMARY OF FEEDING TRIALS	1952
NIELSEN, JAMES R.	RAISING CATFISH IN OREGON FARM PONDS	1970
NIGHTINGALE, JOHN W.	NITROGEN METABOLISM AND FEEDING IN DONALDSON STRAIN RAINBOW TROUT	1973
	SEE BRUIN, W.J.	1979
	SEE BRUIN, W.J.	1980
NOBLE, RICHARD E.	ADVANCES IN DRY SALMON FEED	1967
	SELECTED LIBERATION SITES AS AN AID TO INCREASED SALMON PRODUCTION	1968
	USE OF HYBRIDIZATION AS A MEANS OF ENHANCEING SALMON PRODUCTION	1970
	HYBRIDIZATION AND ITS ROLE IN FISH CULTURE	1971
	DOWNSTREAM MIGRATION OF SILVER SALMONTIMING, AGE, SIZE, JACK SILVERS - GROWTH OR INHERITANCE	1958
	RESULTS OF FEEDING COMMERCIALLY PREPARED DRY FEEDS TO SILVER SALMON	1959
	PROGRESS REPORT	1964
	PRELIMINARY RESULTS OF HYBRIDIZING COASTAL AND PUGET SOUND STOCKS OF FALL CHINOOK	1965
NOBLE, R.E. & TOM DAMRON STEVE FALLERT	THE VIABILITY OF SILVER SALMON OVA AND SPERM AFTER HOLDING THE KILLED ADULTS FOR VARYING PERIODS OF TIME AS DETERMINED BY HATCHING SUCCESS	1961
PANEL: NOBLE, R.E. & ERNEST R. JEFFRIES JOHN PARVIN ROGER E. BURROWS MARVIN A. SMITH	FEEDING OF SPRING CHINOCK SALMON AND ASSOCIATED PROBLEMS	1961

NORMAN, FRED	VOLUNTEER HELP AS A MEANS TO AN END	1981
NOSHO, TERRY ε ERNIE BRANNON ERNIE SALO	SUMMARY OR UNIVERSITY OF WASHINGTON AQUACULTURE WORKSHOP	1973
NOVOTNY, ANTHONY J.	PROGRESS AND PROBLEMS IN THE MARINE CULTURE OF PACIFIC SALMON	1972
	THE SIZE OF COHO SALMON AND TIME OF ENTRY INTO SEA WATER: PART 2 EFFECTS OF VIBRIO VACCINATION	1973
	SEE HARACHE, Y.	1975
	SEE HARACHE, Y.	1975
OIHAYSEN, STEVEN K.	COORDINATION OF CODED-WIRE TAGGING ACTIVITIES AT FEDERAL HATCHERIES IN THE COLUMBIA BASIN	1979
OLSON, P.A.	TEMPERATURES AND COLUMBIA RIVER CHINOOK SALMON EGGS	1958
OLSON, PAUL R.	RELATIONSHIP OF FOOD SUPPLY TO FISH PRODUCTION AT FERN LAKE	1967
OLSON, WAYNE H. ε JOE C. LIENTZ	DWORSHAK NATIONAL FISH HATCHERY PROGRESS REPORT	1976
OLSON, WAYNE H. & TERENCE BRADLEY	THE ROLE OF MINERAL ENRICHMENT IN STEELHEAD PRODUCTION	1980
OSHIMA, K.	SEE JOHNSON ET.AL.	1967
OVERHOLSER, DONALD	ORAL IMMUNIZATION OF JUVENILE COHO SALMON	1966
OWEN, BRUCE	SEE McCallum, Ian	1980
OWEN, T.G.	NEW DEVELOPMENTS IN THE PRODUCTION AND USE OF SALMON PITUITARY EXTRACTS FOR INDUCED SPAWNING	1979
OWSLEY, DAVID E.	NITROGEN GAS REMOVAL USING PACKED COLUMNS	1978
	'FLUDIZED BEDS' THE LATEST TECHNOLOGY IN REUSE Systems	1981
PADGETT, GEORGE A.	FREESE AND LASER MARKING	1970
PARENTE, BILL	'ZAP!' A PRACTICAL APPLICATION OF THE LASER FOR MARKING FISH	1972
PARISOT, THOMAS J.	CHEMOTHERAPY OF ACID-FAST ORGANISMS OF FISH	1957
	ACID-FAST BACILLUS DISEASE OF FISH, A REVIEW	1957
	INFECTIOUS PANCREATIC NECROSIS IN THE WEST	1962

PARVIN, JUHN R.	A POSSIBLE DIET PROBLEM AT THE EAGLE CREEK FISH CULTURAL STATION	1957
	DRY FEED EXPERIMENTS AT EAGLE CREEK STATION	1958
	TIME STUDIES TO EVALUATE PELLET FEEDING AS COMPARED TO WET FEEDING	1959
	HATCHERY TESTING OF A COMMERCIAL DRY FEED TO SPRING CHINOOK SALMON	1959
	HATCHERY TESTING OF COMMERCIAL DRY FEED TO SILVER SALMON	1959
	1600 DIET TESTS ON SILVER SALMON AT THE EAGLE CREEK NATIONAL FISH HATCHERY	1960
	SEE PANEL: NOBLE ET.AL.	1961
	A DESCRIPTION OF THE DWORSKAH NATIONAL FISH HATCHERY	1969
	COST ANALYSIS OF REARING FIRST EGG COLLECTION IN REUSE SYSTEMS VERSUS RAW WATER	1971
	PROGRESS REPORT ON DWORSHAK NATIONAL FISH HATCHERY	1973
PARNISH, EVAN	RAPID RIVER HATCHERYPROGRESS REPORT	1976
PELNAR, JOHN	CHINOOK SALMON PELLET FEEDING	1958
	DRY FEEDING OF CHINOOK SALMON	1959
	FACILITIES USED IN VIRUS DISEASE STUDY AT THE COLEMAN NATIONAL FISH HATCHERY	1960
	PROGRESS REPORT ON THE COLEMAN VIRUS PROBLEM	1961
	PROGRESS REPORT THE COLEMAN VIRUS PROBLEM	1962
	PROGRESS REPORT ON THE COLEMAN VIRUS PROBLEM AND FROZEN PELLET FISH FEEDER	1963
	PROGRESS REPORT, COLEMAN VIRUS DISEASE AND AUTOMATIC FISH FEEDER	1964
PERRY, L. EDWARD	ARTIFICIAL PROPAGATION IN THE COLUMBIA BASIN	1976
PERRY, TED	HATCHERY EVALUATION IN BRITISH COLUMBIA	1979
	CATARACTS IN B.C. CHINOOK AND COHO: COSTS AND CURES	1981
PHILLIPS, ROBERT W.	THE INFLUENCE OF GRAVEL SIZE ON SURVIVAL TO EMERGENCE OF COHO SALMON AND STEELHEAD TROUT	1964

PIGOTT, GEORGE M.	PROGRESS REPORT: CONTAINERS FOR SHIPPING OF PRESERVED ALASKA SALMON WASTE	1950
	SEE HALVER, J.E.	1959
	SEE VILLALON, J.R.	1981
PIGOTT, ROY K.	THE ELWHA CHANNEL	1975
PILCHER, K.S.	SEE AMEND ET.AL.	1962
	SEE FRYER ET.AL.	1962
PIPER, ROBERT G.	AN APPROACH TO ESTABLISHING A LOADING CAPACITY FORMULA FOR TROUT HATCHERIES	1967
	METHOD OF CALCULATING CARRYING CAPACITIES IN FISH	1971
POON, DEREK C.	THE EFFECT OF DELAYED FERTILIZATION ON TRANSPORTED SALMON EGGS	1969
	GRAVEL INCUBATION HATCHERIES FOR PINK AND CHUM SALMON	1971
PORTER, T.R.	SEE DAVIS, J.P.	1978
PRESSEY, RICHARD T.	REVIEW OF FISH FARMING IN WASHINGTON STATE	1958
	THE INFLUENCE OF STOCK SELECTION OF COHO ON TIME OF ARRIVAL AT COLUMBIA RIVER HATCHERIES	1968
PRIBBLE, HOWARD J. & MICHAEL D. EVENSON JAMES A. LICHATOWIC	PRESURE SPRAY MARKING OF FISH WITH GRANULAR DYES	1975
PRIBBLE, JIM	SEE EVENSON, MIKE	1974
PROUZET, P.	SEE HARCHE, Y.	1977
PUTMAN, GEORGE B.	THE USE OF PREFORMED PLASTIC CONTAINERS AS REARING CAGES FOR SMALL LOTS OF FISH	1972
	ASCORBIC ACID DESTRUCTION IN MOIST DIETS	1976
	THE USE OF DRIED SLUDGE FROM THE SECONDARY TREATMENT OF POTATOE PROCESSING WASTES AS A FEED INGREDIENT FOR RAINBOW TROUT	1977
	SOME OBSERVATIONS ON THE USE OF FISH PROTEIN CONCENTRATE IN EXPERIMENTAL TROUT DIETS	1975
QUEIROLO, LEWIS E. & RICHARD S. JOHNSTON	A PRELIMINARY MARKET ANALYSIS OF DOMESTICALLY PRODUCED RAINBOW TROUT	1976

QUIDOR, CHARLES R.	Construction and Operation of Rapid River Hatchery	1964
	NIAGARA SPRINGS HATCHERY	1967
RASCH, TONY J.	Some Uses of Hatch, A HAtchery Simulation Model	1974
RATLIFF, DON E.	A DIFFERENCE IN RESISTANCE OF DESCHUTES RIVER STOCK SPRING CHINDOK TO (Ceratomyxa shasta) BY EXPOSURE PERIOD	1973
	1974 (Ceratomyxa shasta) STUDIES AT THE PELTON PROJECT DESHUTES RIVER OREGON	1974
	DISTRIBUTION OF THE INFECTIVE AGENT FOR (Ceratomyxa shasta) AT THE PELTON PROJECT, DESCHUTES RIVER OREGON	1977
	Ceratomyxa shasta, A Major Killer of Columbia River Salmon	1979
	SEE HILL, RAYMOND	1980
	Ceratomyxa shasta: INITIAL TIMEING, LONGEVITY, AND ABUNDANCE OF THE INFECTIVE STA'E IN THE DESCHUTES RIVER OF OREGON	1980
RATTRAY, ROBERT A.	SEE ROMEY, DANIEL B.	1974
RAYMOND, JAMES A.	RESULTS OF A TEST OF A RECIRCULATING SALMON INCUBATOR FOR ALASKAN VILLAGES WITH LIMITED WATER SUPPLIES	1981
RAYNER, JOHN	1950 OREGON GAME COMMISSION NUTRITION PROGRESS REPORT	1959
	FISH GRADER (AND MOVIE)	1954
	SALMON PROPAGATION COST IN TERMS OF CATCH OF ADULT FISH OF HATCHERY ORIGIN	1958
	THE ATLANTIC SALMON IN OREGON	1965
RAYNER, JOHN & RICHARD GIGER	THE CATCH AND MIGRATION OF HATCHERY COASTAL CUTTHROAT TROUT IN OREGON RIVERS	1966
REID, DAVID A.	WASTE HEAT UTILIZATION IN FISH CULTURE FACILITIES	1980
REIMERS, PAUL E.	THE FALL CHINOOK PROGRAM AT ELK RIVER HATCHERY	1974
	MEASURING LONG-TERM CHANGES IN THE FALL CHINOOK POPULATION IN ELK RIVER	1977
	SURVIVAL AND CONTRIBUTION OF FALL CHINOOK SALMON FROM ELK RIVER HATCHERY	1979

REISENBICHLER, REGINALD R.	POTENTIAL IMPACT OF ARTIFICIAL PROPAGATIONS OF ANADROMOUS SALMONIDS ON WILD POPULATIONS	1976
RICHARDSON, THOMAS	THE TEHAMA-COLUSA SALMON SPAWNING CHANNELS, 'A SUMMARY OF THE FIRST FOUR AND ONE-HALF YEARS OF OPERATION'	1975
RIDENHOUR, RICHARD L	. OPERATION OF THE HUMBOLDT STATE COLLEGE RECIRCULATING FISH HATCHERY: 1957—1963	1963
RODGWAY, GEORGE	SEE WEBER	1962
	SEE WEBER	1963
RILE, KATHY & BRIAN ALLEE	Use of 'Bio Pond Sludge' as a Feed Ingredient For Pen-Reared Coho Salmon	1973
ROBERTS, STEVEN	RENEWED INVESTIGATION INTO THE PREVENTION OF FURUNCULOSIS	1979
ROGERS, BOB	FREESTYLE INCUBATORS FOR EYEING EGGS: FALL 1981	1981
ROHOVEC, JOHN S.	PROGRESS IN ORAL IMMUNITY FOR Vibrio anguillarum	1971
ROHOVEC, J.S. & J.L. FRYER	ORAL AND PARENTERAL IMMUNIZATION OF FISH FOR THE CONTROL OF VIBRIOSIS	1974
ROLEY, DENNIS D.	SELECTIVE BREEDING OF COHO SALMON AT EAGLE CREEK NATIONAL FISH HATCHERY	1973
	FEEDING OF HATCHERY-REARED COHO SALMON ALEVINS	1974
	QUANTITATIVE PROTEIN REQUIREMENTS OF THE UNIVERSITY OF WASHINGTON RAINBOW TROUT BROOD STOCK	1975
	CATARACTS IN WASHINGTON STATE	1981
ROLEY, SHEILA EAGAN	THE EFFECTS OF PARENTAL AGE-CROSS ON THE CONTRIBUTION OF CHINOOK SALMON TO THE WASHINGTON FISHERY	1975
ROMEY, DANIEL B.	THE USE OF BACTROVET (SULFADIMETHOXONE) FOR CONTROL OF FURUNCULOSIS ON ADULT SALMON	1963
	TREATMENT OF SALMON AND STEELHEAD WITH SULFONIMIDES	1964
	THE USE OF SULFONAMIDES AND ANTIBIOTICS ON TWO DISEASES OF ADULT SALMON	1966
	SPRING CHINDOK ENERGY STORES STUDY	1968
	ANNETTE ISLAND HATCHERY 'OPERATION BROODSTRAP'	1979

ROMEY, DAN & ORVILLE DAHRENS	Some Comparisons of Natural and Artifically Reared Juvenile Spring Chinook Salmon	1970
ROMEY, DAN B. & ROBERT A. RATTRAY	CRYSAL LAKE: ALASKA'S NEW WATER REUSE FISH HATCHERY	1974
ROSE, JOE H.	OCEAN CATCH DISTRIBUTION OF FALL CHINOOK AND COHO SALMON PRODUCED IN COLUMBIA RIVER HATCHERIES	1970
ROSENTRTER, NANCY M.	WINTER STEELHEAD TROUT BROODSTOCK STRATEGIES IN OREGON	1980
ROSS, A.J.	IDENTIFICATION OF ACID-FAST ORGANISMS ISOLATED FROM FISH	1957
ROYAL, DR. LOYD A.	POTENTIALLY HARMFUL HATCHERY PRACTICES	1972
RUCKER, ROBERT R.	WOLF'S AND MCLAREN'S 'SYNTHETIC' OR TEST DIETS	1951
	SUMMARIZING CONTENTS OF A PAPER TITLED, 'A CONTAGIOUS DISEASE OF SALMON POSSIBLY OF VIRUS ORIGIN'	1952
	'LIGNASAN' FOR BACTERIAL GILL DISEASE	1955
	DISEASE CONTROL STUDIES	1956
	ICHTHYOSPORIDIUM INFECTIONS IN FISH	1957
	RED MOUTH	1958
	IMPACTED OVA OF CHINOOK SALMON	19 59
	Notes from 'Coagulated Yolk Conference'	1961
	FORMALIN IN THE HATCHERY	1962
	FISH DIAGNOSTICS LABORATORY	1964
	THE USE OF DRUGS IN FISH CULTURE	1965
	GROUND WATER TOXIC TO FISH	1967
	GAS BUBBLE DISEASE STUDIES OF FISH	1970
SAALFELD, ROBERT W.	RETURNS FROM HATCHERY-REARED FALL CHINOOK RELEASES INTO DESCHUTES RIVER	1965
SADDLER, J.B.	FATTY ACID VARIATION WITH DIET IN COHO SALMON (Oncorhynchus kisutch) (WALBAUM)	1965
SADDLER, JAMES B. & K.V. KOSKI	QUALITY OF CHUM SALMON FRY AS REFLECTED BY THEIR LIPID COMPOSITION DURING EARLY DEVELOPMENT STAGE	1969

5/	K.V. KOSKI	OF PELLET DIETS CURRENTLY USED IN FISHERIES	1970
Si	ALO, ERNEST O.	MINTER CREEK BIOLOGICAL STATION, WASHINGTON DEPARTMENT OF FISHERIES	1952
		RETURNS FROM PLANTS OF LARGE VS. SMALL FISH	1954
		AN ANALYSIS OF RETURNS TO SOOS CREEK HATCHERY 1964	1965
		CHINOOK SALMON PEN-REARING PROJECT IN PUGET SOUND	1971
		SEE NOSHO, TERRY	1973
		SEE WHITMUS, CLIFFORD J.	1977
		SEE KOSKI	1971
SA	ALO, E.O ε K.V. KOSKI	THE UNIVERSITY OF WASHINGTON SPAWNING CHANNEL AT BIG BEEF CREEK	1967
SA	ALO, E.O. & R.R. ABBOTT	REARING OF CHINOOK SALMON AT MANCHESTER	1970
SA	AMS, ROY	REARING OF COHO AND FALL CHINOOK SALMON IN WAHKEENA PONDS	1967
		TRANSPLANTATION OF ADULT COHO SALMON	1967
SA	ANDERCOCK, F.K. & E.T. STONE	THE EFFECTS OF REARING DENSITY ON SUBSEQUENT SURVIVAL OF CAPILANO COHO	1979
SA	NNDERS, JIM E.	SEE GOULD ET.AL.	1969
		THE EFFECTS OF TEMPERATURE ON THE PROCESS OF BACTERIAL KIDNEY DISEASE IN EXPERIMENTALLY INFECTED JUVENILE COHO SALMON	1972
		SEE HOLT, R.A.	1973
		SEE MULCAHY, D.	1975
		EFFECT OF SALT WATER ON BACTERIAL KIDNEY DISEASE IN YEARLING COHO SALMON	1979
SA	NDERS, J.E. & J.L. FRYER	Occurrence of the Protozoan Parasite (<i>Ceratomyxa shasta</i>) Among Salmonid Fishes in Oregon Waters	1967
	NDERS, J.E. & G.C. TEBBIT D.M. MULCAHY	INFECTIOUS PANCREATIC NECROSIS VIRUS IN TROUT FROM CENTRAL OREGON	1973

SATIA, BENEDICT PHILLIPS	QUANTITATIVE PROTEIN REQUIREMENTS OF RAINBOW TROUT	1972
	GROWTH RATE, FEED EFFICIENCY, AND REPRODUCTION RESPONSES OF RAINBOW TROUT (DONALDSON STRAIN) FEED MOIST AND DRY DIETS	1973
	ATTEMPTS AT LOWERING FEED COSTS WITH OUT LOWERING FEED QUALITY	1974
SCHAEFFER, DREW	SEE KLONTZ, G.W. (BILL)	1981
SCHAEFFER, LESLIE	SEE KLONTZ, G.W. (BILL)	1981
SCHIEWE, MICHAEL H.	SEE HARRELL, LEE W.	1974
SCHNEIDER, PHILLIP,	CADMIUM TOXICITY	1970
W. JR.	SEE BOUCK, GERALD R. '	1975
SCHOENAMAN, DALE E.	THE PHYSICAL AND CULTURAL ASPECTS OF THE TEHAMA-COLUSA FISH FACILITIES	1969
	PROGRESS ON THE TEHAMA-COLUSA FISH FACILITIES	1971
SCHRODER, S.L.	PEN REARING OF DR. DONALDSONS RAINBOW STEELHEAD CROSSES AT BIG BEEF CREEK	1970
SCHULTZ, ROLAND R.	USE OF SIMAZINE AND ATRAZINE FOR CONTROL OF PONDWEEDS AND FILAMENTOUS ALGAE	1964
SCHURMAN, GERALD	A New Approach to Fish Identification The Coded Wire Tagging Trailer	1972
SCHWAB, R.L.	SEE COATES	1955
SCORDELIS, PHILIP	PRELIMINARY RESULTS ON THE CONTROL OF FUNGUS ON FISH EGGS WITH A NEW ANTI-FUNGAL CHEMOTHERAPEUTIC	1977
SCOTT, CLYDE A.	THE UNITED STATES DEPARTMENT OF AGRICULTURE ROLE IN AQUACULTURE	1977
SEEB, JIM	SEE WISHARD, LISA	1977
SEIDEL, PAUL R.	EARLY LIFE HISTORY STUDY OF THREE WASHINGTON DEPARTMENT OF FISHERIES COHO SALMON (Oneorphynchus kisuteh) POPULATIONS BY INTERACIAL HYBRIDIZATION	1975
SENN, HARRY G.	A PROGRESS REPORT ON THE RESULTS OF RELEASING MIGRANT SIZE ZERO AGE COHO	1964
	THE EFFECTS TO OVUM FROM EXTREME ROUGH HANDLING OF ADULT COHO	1965
	THE EVALUATION OF COHO AT 10 PUGET SOUND HATCHERIES	1968

SENN, HARRY G.	POND TRAYS FOR INCUBATING SALMON EGGS	1970
	SUMMARY OF COHO CONTRIBUTIONS FROM PUGET	1071
	Sound and Washington Coastal Hatcheries	1971
	CHUM CULTURE IN JAPAN	1974
SERVIZI, JAMES A. DR. DR. R. MEAD DONALD AMEND	USE OF TEMPERATURE TO CONTROL A SALMONID VIRUS DISEASE	1968
SEVERSON, RICHARD	A CONTROLLED INCUBATION SYSTEM FOR MUITIPLE CROP SALMONID PRODUCTIONS	1975
SEYMOUR, ALLYN H.	EFFECT OF HIGH CONSTANT TEMPERATURE UPON THE MORTALITY AND GROWTH OF CHINOOK SALMON EGGS, FRY AND FINGERLINGS	1954
SHANKS, WARREN E.	A SIMPLE METHOD OF AMINO ACID DETERMINATIONS OF FISH FOODS	1956
	METHODS OF AMINO ACID ANALYSIS	1957
	CLASSIFICATION OF ESSENTIAL AMINO ACIDS FOR SOCKEYE SALMON	1959
	FIRST PHASE PILOT PLANT, A PROGRESS REPORT	1960
	METHODS FOR EVALUATING PROTEIN QUALITY	1961
	MEASUREMENT OF PROTEIN QUALITY	1962
	HATCHERY WATER QUALITY MONITORING	1971
SHEARER, KARL	A SIMPLE MODEL TO DESCRIBE ZINC STATUS IN TROUT	1981
SHELDON, RAY	DROP BACK METHOD FOR SORTING FALL CHINOOK	
	RESULTS OF GRADING COHO SALMON EGGS AT BONNEVILLE HATCHERY	1972
SIEMENS, LAIRO	TECHNIQUES FOR THE CAPTURE AND HOLDING OF WILD STEELHEAD IN BRITISH COLUMBIA	1980
SIMON, RAY	CHROMOSOMES AND SPECIES	1963
SINCLAIR, A.C.	PROPOSED DEVELOPMENT OF BROOD STOCK STATIONS IN ALBERTA, CANADA	1976
SINNHUBER, RUSSELL O.	1950 NUTRITION RESEARCH PROGRESS REPORT	1950
	COMPOSITION OF DIETS	1951
	ESSENTIAL FATTY ACIDS, REQUIREMENTS AND THE NUTRITION OF TROUT	1972

SMALLEY, GEORGE V.	PRODUCTION RECORD OF KLASKANINE HATCHERY	1963
	MULTIPLE USE LIBERATION AND WEIGH-OUT TANKS	1966
SMITH, CHARLIE E.	BLOOD CHANGES IN SILVER SALMON FROM DIMETHYLSULFOXIDE	1964
	AFLATOXICOSIS IN COHO SALMON AND CHANNEL CATFISH	1966
	EFFECTS OF NITRITE ON THE BLOOD AND TISSUE OF SALMON AND TROUT	1971
	A PRELIMINARY REPORT OF THE EFFECTS OF METABOLIC PRODUCT ON THE QUALITY OF RAINBOW TROUT	1970
	STUDIES ON NITRITE TOXICITY IN RAINBOW TROUT	1973
SMITH, C.E. & J.E. HALVER	SEE ASHLEY <u>ET.AL.</u>	1967
SMITH, DAVID	SEE FELDMANN, GARY	1976
SMITH M.	SEE HOLT R.	1979
SMITH, MARVIN	HISTORY OF MODERN FISH CULTURE	1970
	POLLUTION ABATEMENT FACILITIES AT NATIONAL FISH HATCHERIES	1974
SMITH, QUENTIN	RESULTS OF THE FIRST YEAR OPERATION OF A NEW HATCHERY USING BURROWS PONDS	1967
SMITH, ROBERT R.	PRELIMINARY REPORT ON DIGESTION AND METABOLISM STUDIES IN CLOSED SYSTEMS	1965
	SEE ASHLEY ET.AL.	1967
	SEE HALVER ET.AL.	1967
у. Ж	FOOD ENERGY AND THE PRODUCTIVE VALUE OF FISH FOODS	1967
	HEAT PRODUCED BY LIVING FISH	1968
	PROGRESS IN EVALUATING FISH FEEDS ON THE BASIS OF DIGESTABILITY AND METABOLIZABLE ENERGY	1971
	RAISING TROUT WITH OUT ANIMAL PROTEIN	1973
SMITH, ROBERTR. & MAX E. LARSON	DESIGN AND USE OF EQUIPMENT TO FEED EXPERIMENTAL DIETS CONTAINING TOXIC MATERIALS TO SMALL LOTS OF FISH	1962
SMITH, ROBERT Z.	A PRELIMINARY STUDY INTO THE RECREATIONAL VALUE OF FISH HATCHERIES	1974

SMITH, ROBERT Z. & STEPHEN L. LEEK	MODIFICATION OF THE CODED-WIRE TAG MARKING PROCEDURE	1975
SMITH, STANLEY D.	SEE BOUCK, GERALD R.	1977
SMITH, WENDELL	FISH CONSERVATION	1966
SNYDER, BRUCE P.	THE USE OF PLASTIC BIO-FILTERS IN HEATH TECNA INCUBATORS AS AN ARTIFICIAL INCUBATION SUBSTRATE FOR CHUM SALMON ALEVINS	1977
	SEE WHITMUS, CLIFFORD J.	1977
SOWARDS, CHARLES	STUDENT PROJECTS AS A SOURCE OF INTERESTING AND USEFUL INFORMATION	1971
SPARKS, ALBERT K.	SEE KATZ ET.AL.	1961
SPENCE, KEMET	CONTROL OF DISEASES IN ADULT SALMON A PRELIMINARY REPORT	1962
SPENCE, KEMET & JOHN L. FRYER	ACTIVE AND PASSIVE IMMUNIZATION OF RAINBOW TROUT, SPRING CHINDOK SALMON AND COHO SALMON AGAINST Aeromonus salmonicida	1962
SPINELLI, JOHN	SEE MAHNKEN, CONRAD	1976
SPINELLI, JOHN & CONRAD MAHNKEN	THE EFFECTS OF DIETS CONTAINING DOGFISH MEAL (Squalus acanthias) ON THE MERCURY CONTENT AND GROWTH OF PEN-REARED COHO SALMON (Oncorhynchus kisutch)	1975
	CAROTENOID DEPOSITION IN PEN-REARED SALMONIDS FED DIETS CONTAINING OIL EXTRACTS OF RED CRAB (Pleuroneodes planipes)	1976
STANSBY, MAURICE E.	1950 PROGRESS REPORT, COLLECTION, PROCESSING AND ANALYSIS OF LEAVENWORTH HATCHERY DIET INGREDIENTS AND ALASKA SALMON VISCERA AND EGGS	1950
STAUFFER, GARY D.	Steelhead Rearing in Lake Quinault	1971
	GROWING SALMON BY THE NUMBERS	1972
STEEL, RONALD E.	UTILIZATION OF SHRIMP PROCESSING WASTE AS A DIETARY SUPPLEMENT FOR RAINBOW TROUT (Salmo gairdneri)	1970
STEVENS, DONALD G.	SEE BOUCK, GERALD R.	1975
STEWART, BRUCE	SEE KLONTZ, GEORGE W.	1981
STONE, ELDON T.	A DESCRIPTION OF THE CAPILANO HATCHERY	1972
	SEE HOSKINS, G.E.	1980
	SEE HUNTER GEORGE A.	1921

STOSS, J.	SEE CARNES, G.	1981
STOSS, J. & IAN BAKER EDWARD M. DONALDSON	STORAGE OF SALMON SPERM BY CRYOPRESERVATION	1981
STROUD, RICHARD K. & GEORGE W. KLONTZ	FISH HEALTH AND VETERINARY PRACTICE ACTS	1974
SULLIVAN, JOSEPH R.	SEE BURKE, JOHN A.	1981
SUSAC, JOHN K.	GROWTH ACCELERATION IN A COLD WATER HATCHERY	1962
SWAFFORD, JERRY	PERFORMANCE OF THREE CROSSES OF DESCHUTES SUMMER STEELHEAD AT ROUND BUTTE HATCHERY MADRAS, OREGON	1975
SWARTZ, DON	USE OF TETRACYCLINE TO DETERMINE SMOLT SIZE	1970
	WILLAMETTE RIVER SPRING CHINOOK SURVIVAL STUDY	1971
	SPRING CHINOOK	1974
	HOLDING AND SPAWNING SPRING CHINOOK IN REDUCED PHOTOPERIOD	1975
SWEENEY, JAMES	FEDERAL LAWS AS THEY RELATE TO HATCHERY WASTE WATER TREATMENT	1973
SWEIBERG, JIM	INSTRUMENTATION FOR HATCHERIES	1961
TAUTZ, AUTHUR F.	SEE IWAMA, GEORGE K.	1979
TAYLOR, W.G.	AUTOMATED FISH DISPATCHER	1965
	PHOTOELECTRIC EGG SORTER	1967
	SALMONID HERPESUIRUS: A NEW ISOLATE FROM RAINBOW TROUT	1975
TEBBIT, G.L.	SEE SANDERS, J.E.	1973
	SEE FRYER, J.L.	1975
TEBBIT, GUY & JOHN McMICHAEL	THE OCCURENCE AND DISTRIBUTION OF FISH VIRUSES IN ANADROMOUS SALMONID FISHES FROM OREGON	1973
TERRY, DON	WYOMING'S PROJECTED TEN YEAR FISHERIES PROGRAM	1963
THOMAS, ALLAN E.	THE USE OF STAMINA AS A MEASURE OF FINGERLING QUALITY	1962
	EFFECT OF FEEDING TWO CALORIC LEVELS ON QUALITY OF FINGERLING PRODUCED	1963

THOMAS, ALLAN E.	OPERATION OF THE ABERNATHY INCUBATION CHANNEL	1964
	ABERNATHY INCUBATION CHANNEL	1965
	EFFECT OF YOLK SAC ABSORPTION ON THE SWIMMING ABILITY OF FALL CHINOOK SALMON	1968
THOMPSON, C. KENT	AGGLUTININS TO THE REDMOUTH BACTERIUM IN THE BLOOD SERUM OF RAINBOW TROUT	1976
TODD, NEIL	FRASER VALLEY TROUT HATCHERY-BRITISH COLUMBIA'S FIRST HATCHERY USING A RECIRCULATION SYSTEM	1977
	DESIGN CONSIDERATIONS FOR A CHUM AND PINK SALMON HATCHERY AT COLD BAY, ALASKA	1977
TREFFRY, GARY A.	A HEATED WATER SUPPLY	1970
TRIPP, MARTHA J.	ACUTE COPPER AND ZINC TOXICITY IN CHINOOK SALMON	1964
TRUCH, W.P.	A New Fish Hatchery and Rearing For the Province of Alberta	1972
	THE QUINSAM RIVER FISH HATCHERY	1973
	SELECTIVE BREEDING RESEARCH STATION - MAPLE, ONTARIO	1974
	THE USE OF LOW-GRADE HEAT EFFULUENT FROM NUCLEAR POWER STATIONS IN AQUACULTURE	1975
	AN UNEXPLAINABLE DECLINE IN GROUND WATER TEMPERATURES AND ITS CONSEQUENCES AT THE DORION FISH HATCHERY (ONTARIO)	1976
	POTENTIAL FISH-CULTURE APPLICATION FROM THE USE OF WASTE HEAT	1977
TUCKER, BARBEE & J.E. HALVER GARY WEDEMEYER	ADEQUATE VITAMIN C IMPROVES RESISTANCE TO STRESS	1981
UDEY, L.R.	THE EFFECTS OF TEMPERATURE ON (Ceratomyxa shasta) DISEASE IN EXPERIMENTALLY INFECTED JUVENILE RAINBOW TROUT AND COHO SALMON	1972
UDWIN, ELLIS	SELECTION OF WATER TREATMENT TECHNIQUES FOR HATCHERY WATER SUPPLIES	1970
UTTER, FRED M.	GENETIC MARKING: A UNIQUELY VALUABLE TOOL FOR FISH CULTURISTS	1977
UZMANN, JOSEPH R.	THE USE OF PARASITES IN RACIAL STUDIES	1957
	THE HEXAMITA PROBLEM REAL OR IMAGINED ?	1960

UZMANN, JOSEPH R. CON!T	EXPERIMENTAL EFFECTS OF Nanophyetus Salmincola METACERCARIAE IN RAINBOW TROUT	1962
VAIL, HAMES P.	A STUDY OF THE EFFECTS OF A CENTRIFUGAL WASTE WATER CONCENTRATOR ON FISH HATCHERY REARING WATER	1973
VAN GALLEN, NEIL	DISSERTATION ON A MECHANICAL EGG PICKER	1972
VAN TINE, J.A.	QUINSAM RIVER PINK SALMON REHABILITATION AND STUDIES	1980
	PINK SALMON RETURNS TO THE QUINSAM HATCHERY FROM UNFED FRY AND SALTWATER REARED FRY RELEASED	1981
	SEE BILTON, H.T.	1981
VILLALON, J.R. & G.M. PIGOTT J.E. HALVER	RESPONSE OF MARINE FISH LARVAE TO ARTIFICIAL DIETS .	1981
VOELKNER, J.	SEE GRIFFIOEN, WARD	1980
VREELAND, ROBERT R.	ECONOMIC CONTRIBUTION OF 1965-1966 BROOD COLUMBIA RIVER HATCHERY COHO SALMON	1972
	SALMON HOMING - A MANAGEMENT TOOL ?	1974
	So You Want to Conduct An Evaluation Study ?	1979
	How 'YA GONNA KEEP 'EM UP AT THE HATCHERY ONCE THEY'VE SEEN YOUNGS BAY ?	1981
VROMAN, PAUL	ADJUSTABLE FRY GRADER	1962
	CONTRIBUTION OF THE ALSEA HATCHERY TO THE STEELHEAD FISHERY OF THE ALSEA RIVER	1965
	PROLONGED FORMALIN TREATMENT FOR FISH PARASITES	1968
	FIN CLIPPING YES OR NO	1976
WADE, M.G.	SEE BUCHANAN, DAVID V	1981
WAGNER, HARRY H.	THE SEAWARD MIGRATION AND RETURN OF HATCHERY-REARED STEELHEAD TROUT IN A COASTAL STREAM OF OREGON	1960
	THE CONTRIBUTION OF HATCHERY-REARED STEELHEAD TROUT TO THE SPORT FISHERY ON THREE OREGON RIVERS	1961
	SEE CONTE ET.AL.	1961
	SEE CONTE ET.AL.	1963

WAGNER, HARRI H.	LIFE HISTORY PATTERN OF HATCHERY-REARED	
CON'T	STEELHEAD TROUT	1963
	THE EFFECTS OF STOCKING YEARLING, HATCHERY-REARED WINTER STEELHEAD ON WILD POPULATIONS	1964
	THE EFFECT OF TWO DIFFERENT METHODS OF RELEASE ON THE SURVIVAL OF HATCHERY-REARED STEELHEAD	1966
	AN OBSERVATION OF THE EFFECT OF TEMPERATURE ON PARR-SMOLT TRANSFORMATION IN STEELHEAD TROUT	1969
	EFFECT OF STOCKING LOCATION OF JUVENILE STEELHEAD TROUT ON ADULT CATCH	1968
	PHOTOPERIOD AND THE PARR-SMOLT METAMORPHASIS IN STEELHEAD TROUT	1970
	PARR-SMOLT TRANSFORMATION IN WINTER STEELHEAD AS AFFECTED BY PHOTOPERIOD AND TEMPERATURE	1971
	How Do Adult Hatchery Steelhead Differ From Wild Ancestors ?	1972
WALES, J.H.	USE OF DOMESTICATED RAINBOW, STEELHEAD, AND GOLDEN TROUT IN HEPATOMA STUDIES	1966
WALL, GARY G.	ANCHORAGE AREA HATCHERIES: PRESENT PRODUCTION AND CONCEPTS FOR THE FUTURE	1979
	SEE KEPSHIRE, B.M.	1980
WALLIS, JOE E.	DIET STUDIES AT OAKRIDGE,	1955
	PROGRESS REPORT OF SPRING CHINOOK OPERATIONS AT THE WILLAMETTE HATCHERY	1963
	THE FIRE LAKE HATCHERY	1966
	AN INDOOR BURROWS REUSE SYSTEM	1970
	REARING SALMONIDS IN POWER PLANTS COOLING PONDS	1970
	HATCHERY PRODUCTION OF SALMON SMOLTS IN ALASKA	1971
	Marked Chinook Salmon in Kachemar Bay, Alaska	1979
WALSDORF, WILLIAM J	ORAL IMMUNIZATION OF COHO SALMON AGAINST FURUNCULOSIS AT QUILCENE NATIONAL FISH HATCHERY	1967
	WHIRLING DISEASE AT LAHONTAN NATIONAL FISH HATCHERY IN NEVADA	1971
	SEE BRUHN, DAVE	1975

WARD, DAVID L.	A NEW TYPE FISH TRAPPING FACILITY	1958
	TRINITY RIVER HATCHERY - CALIFORNIA'S NEW SALMON AND STEELHEAD INSTALLATION	1963
WARREN, JAMES W.	LABORATORY TESTS OF THE BACTERICIDAL ACTION AND FISH TOXICITY OF SIX QUATERNARY DISINFECTANTS	1964
	THE DETECTION OF INFECTIOUS PANCREATIC NECROSIS	1965
	SORE BACK OF RAINBOW TROUT: RESULTS OF 1967 FISH QUALITY EXPERIMENTS	1967
WATSON, ROBERT E.	ELOKOMIN ADULT STEELHEAD TAGGING PROGRAM	1963
WALTERS, KENNETH W.	WASTE HEAT AQUACULTURE	1977
WEBER, DOUGLAS	MARKING OF PACIFIC SALMON WITH TETRACYCLINE ANTIBIOTICS	1965
WEBER, DOUGLAS ε GEORGE RIDGWAY	PROGRESS REPORT ON MARKING OF PACIFIC SALMON WITH TETRACYCLINE ANTIBIOTICS	1962
	PROGRESS REPORT ON MARKING OF PACIFIC SALMON WITH TETRACYCLINE ANTIBIOTICS	1963
WEDEMEYER, GARY	UPTAKE AND DISTRIBUTION OF ZINC 65 IN THE COHO SALMON EGG. (Oncorhynchus kisutch)	1967
	THE STRESS OF FORMALIN TREATMENTS IN TWO SALMONID FISHES	1970
	HANDLING STRESS AND ITS PHYSIOLOGICAL CONSEQUENCES	1971
	SEE TUCK, BARBEE	1981
WEST, CAMERON	F.I.S.H. OR MICRO-COMPUTERS IN HATCHERIES	1981
WESTGARD, RICHARD L.	A TECHNIQUE FOR THE DETECTION OF ACID—FAST ORGANISMS IN FISH TISSUE	1958
	A PROGRESS REPORT OF FISH TUBERCULOSIS SURVEY	1959
	GAS BUBBLE DISEASE IN ADULT CHINOOK SALMON	1963
	THE PRODUCTION OF A FISH TOXIN IN HATCHERY REARING PONDS	1966
	SEE WOOD	1961
WESTGATE, JOHN W.	IN VIVO EFFECTS OF SELECTED ANTIOXIDANTS AND SELENIUM IN A STRESS OREGON TEST DIET	1960
	RANKING OF SELECTED WET INGREDIENTS FOR OREGON PELLETS	1963

WESTGATE, JUHN W.	EVALUATION OF COTTONSEED OIL MEAL SUBSTITUTES AND BOTTOMFISH FILLET SCRAP IN THE OREGON	
	PELLET, A PRELIMINARY REPORT	1964
	OREGON PELLET STARTER DIETS	1965
	DEVELOPMENT OF A NEW OREGON PELLET FORMULATION	1967
	Some Developments in Oregon Starter Mash and Oregon Pellet Formulation	1969
	SEE CRAWFORD	1969
	SEE LAW	1970
	SEE CRAWFORD, D.J.	1973
	TESTS ON FISHMEALS IN OREGON PELLETS	1973
	SEE CRAWFORD, DAVID L.	1976
	SEE LAW, DUNCAN K.	1976
	SEE CRAWFORD, DAVID L.	1979
	PROGRESS TOWARD DEVELOPING SURVIVAL ENHANCING DIET FOR PACIFIC SALMON	1980
WESTGATE, JOHN & THOMAS, MCKEE DAVID CRAWFORD DUNCAN K. LAW	A TEST OF 'SALTY HERRING MEAL' IN OREGON PELLETS	1974
WESTROPE, ARTHUR E.	FISH HATCHERIES AND REARING FACILITIES IN THE CHAMBERS CREEK BASIN TACOMA, WASHINGTON	1976
WHITE, REED G.	SUMMARY OF PELLET FEEDING	1961
	OREGON PELLET FEEDING PRODUCTION SUMMARY	1962
	KLASKANINE RIVER COHO PRODUCTION	1965
WHITMORE, CECIL M.	SOME OBSERVATIONS IN ANEMIA	1959
	THE EFFECTS OF HIGH LEVELS OF FIVE ANTIOXIDANTS SELENIUM IN THE OREGON TEST DIET	1960
	SOME EFFECTS OF HANDLING ON FISH BLOOD VALUES	1963
	SEE BUCKLEY, JAMES A.	1974
WHITMUS, CLIFFORD J & BRUCE P. SNYDER	THE 1977 MIGRATORY BEHAVIOR OF JUVENILE CHUM SALMON RELEASED FROM THE HOOD CANAL HATCHERY AT HOODSPORT, WASHINGTON	1977

WILLIAMS, WARREN G.	NITRITE TOXICITY IN TROUT HELD IN WATER REUSE SYSTEMS	1971
	BUFFERING REQUIREMENTS IN FISH HATCHERY RECONDITIONING RE-USE SYSTEMS	1972
	EVALUATION OF CLINOPTILOTITE FOR AMMONIA REMOVAL	1974
WILLOUGHBY, H.	TROUT FISHERIES OF YUGOSLAVIA	1965
WINGFIELD, WILLIAM C.	CHARACTERIZATION OF THE SOCKEYE SALMON VIRUS	1965
	RESULTS OF SELECTIVE BREEDINGS OF RAINBOW AT ROARING RIVER HATCHERY	1968
	SALINE SPAWNING OF RAINBOW TROUT AT ROARING RIVER HATCHERY	1972
	HOLDING SUMMER STEELHEAD ADULTS OVER TO SPAWN A SECOND YEAR	1976
	SEE BUCHANAN, DAVID V	1981
WINWARD, LYNN D.	SEE FARRELL	1966
WISHARD, LISA & JIM SEEB	GENETIC MARKING: ITS USE IN THE EVALUATION OF COHO FRY PLANTS	1977
WOGAN, G.N.	SEE HALVER, ET.AL.	1967
WOIWODE, JOHN G.	GEOTHERMAL AQUACULTURE: ITS POTENTIAL IN THE PACIFIC NORTHWEST	1979
WOLD, EINAR	OPTIMUM TEMPERATURE FOR INCUBATING STEELHEAD EGGS	1970
	EVALUATION OF ADULT STEELHEAD SORTING EQUIPMENT AND AIR SPAWNING AT DWORSHAK NATIONAL FISH HATCHERY	1971
	MONITORING THE EFFICIENCY OF WATER RECONDITIONING PRETREATMENT FACILITIES WITH BIOASSAY TECHNIQUES	1972
	SALMONID SEMEN AS A TRANSMISSION AGENT OF KIDNEY DISEASE	1973
WOLF, DAVID A. & J.E. HALVER	ACCEPTANCE OF A DRUM-DRIED FEED BY MARINE FISH LARVAE	1979
WOLF, HAROLD	1950 CALIFORNIA DEPARTMENT OF FISH AND GAME NUTRITION PROGRESS REPORT	1950
	DIET WORK	1951
WOOD, E.M.	PATHOLOGY AND HATCHERY EVALUATION	1963

WOOD, JAMES W.	KIDNEY DISEASE	1954
	1954 NUTRITIONAL STUDIES - DAKRIDGE LABORATORY	1954
	DISEASE STUDIES AT OAKRIDGE	1955
	A PROGRESS REPORT ON TUBERCULOSIS AND KIDNEY DISEASE RESEARCH	1956
	A PROGRESS REPORT ON KIDNEY DISEASE AND TUBERCULOSIS RESEARCH	1957
	PROGRESS REPORT ON FISH DISEASE STUDIES	1958
	PROGRESS REPORT ON FISH DISEASE STUDIES	1959
	PROGRESS REPORT ON FISH DISEASE STUDIES	1960
	A MYXOSPORIDIAN, <i>Ceratomyxa sp.</i> Involved in Losses of Adult Salmon	1962
	DISEASES OF ADULT SALMON	1964
	ORAL IMMUNIZATION OF JUVENILE COHO SALMON UNDER HATCHERY PRODUCTION CONDITIONS	1966
	FAILURE TO ORALLY IMMUNIZE JUVENILE COHO SALMON UNDER HATCHERY PRODUCTION CONDITIONS	1967
WOOD, JAMES W. & RIVCHARD L WESTGARD		1961
WOOD, JIM	SEE KACZYNSKI, VIC	1981
WOODALL, A.N.	A CHEMICAL COMPARISON OF WILD HATCHERY SALMONIDS	1956
	EVALUATION OF FEEDING TRIALS	1957
·	EFFECT OF MOISTURE IN CHINDOK SALMON DIETS	1958
	DEXTRIN SUPPLEMENTED LIVER DIETS FOR CHINOOK SALMON	1959
	THE RELATIONSHIP OF WATER CHEMISTRY TO THE DEVELOPMENT OF COAGULATED YOLK DISEASE IN CHINOOK SALMON LARVAE	1961
WOODALL, A.N. & GILLES LAROCHE	THE IODIDE REQUIREMENT OF CHINOOK SALMON	1963
WORCHESTER, TOM	A GUILLOTINE FOR THE REMOVAL OF FISH SNOUTS CONTAINING CODED-WIRE-TAGS	1977
WYATT, WILLIS J. & KIRK T. BEININGEN	A NITROGEN GAS DISEASE CATASTROPHE	1969

YASUTAKE, WILLIAM I.	PROGRESS REPORT - HISTOLOGICAL COMPARISON OF SALMONIDS	1954
	COMPARATIVE HISTOLOGICAL STUDIES OF WILD AND HATCHERY SALMONIDS	1956
	A Possible Cause of 'Sunburn' in Fish	1957
	CHEMOTHERAPY OF (Hexamita salmonis)	1958
	GILL PATHOLOGY DUE TO FORMALIN TOXICITY	1962
	MISTOPATHOLOGY OF THE JUVENILE 'WHIRLING' SILVER SALMON	1965
	OCCURRENCE OF WHIRLING DISEASE OF TROUT IN THE WEST	1966
	HISTOPATHOLOGY ASSOCIATED WITH POSSIBLE TOXAPHENE AND 2, 4-D TOXICITY IN RAINBOW TROUT	1967
	SCOLIOSIS AND LORDOSIS OCCURRING IN SALMONIDS	1969
YASUTAKE, W.T. ε K.H. AMOS	HISTOPATHOLOGICAL EFFECTS OF RIVER ASHFALL SUSPENSION ON CHINOOK SALMON FINGERLINGS	1980
YUSHA, ALEX	SEE FRYER ET.AL.	1962
ZAKEL, J.	SEE HOLT, R.	1979
ZAUGG, W.S.	USING GILL ATPASE ACTIVITY TO DETERMINETHE INFLUENCY OF PHOTOPERIOD ON PARR-SMOLT TRANSFORMATION IN STEELHEAD	1971
	FACTORS WHICH INFLUENCE SMOLT DEVELOPMENT AND SALTWATER ADAPTATION OF SALMONIDS	1975
ZAUGG, W.S. ε L.R.McLAIN	INFLUENCE OF TEMPERATURE ON GILL ATPASE ACTIVITY IN COHO SALMON	1973
ZIMMER, PAUL	BRIEF COMMENTS REGARDING FALL CHINOOK AND COHO SALMON HATCHERIES EVALUATION STUDIES-COLUMBIA RIVER	1968
ZINN, J.L.	INCIDENCE OF (Ceratomyxa shasta) IN SELECTED HATCHERY STOCKS OF CHINOOK SALMON	1975
	INCIDENCE OF (Ceratomyxa shasta) IN SELECTED HATCHERY STOCKS OF COHO AND GENETIC CROSSED OF FALL CHINOOK SALMON	1975

<u>AUTHOR</u>	REPORT TITLE	YEAR
SUBJECT		
ADULT RELEASE		
BUCHANAN, DAVID V.	HATCHERY RELEASES AND SUBSEQUENT RETURN OF SUMMER STEELHEAD ABOVE AND BELOW A DAM	1976
BUCHANAN, DAVID V. & M.G. WADE R.M. HOOTON W.C. WINGFIELD	A MINIMUM THRESHOLD SIZE FOR HATCHERY STEELHEAD SMOLTS	1981
ELLIS, C.H.	ABSTRACT OF DISCUSSION CONCERNING SURVIVALS OF SALMON AS AFFECTED BY VARIABLES IN REARING AND PLANTING TECHNIQUES	1956
GEARHEARD, JIM	EARLY V.S. LATE RELEASE OF STEELHEAD OR WHAT A DIFFERENCE A MONTH MAKES	1981
HAGER, ROBERT	PRELIMINARY RESULTS OF THE 1969 BROOD COHO TIME AND SIZE AT RELEASE STUDY	1972
HEARD, WILLIAM R.	FRUSTRATED FISH FROM FALL RELEASES: SIGNIFICANCE OF THE TIME WINDOW IN ALASKA	1979
KEPSHIRE, B.M. & GARY G. WALL	MARINE SURVIVAL OF COHO SALMON SMOLTS RE- LEASED DIRECTLY FROM TRANSPORT VEHICLIES INTO ESTRARIES	1980
NOBLE, RICHARD E.	SELECTED LIBERATION SITES AS AN AID TO IN- CREASED SALMON PRODUCTION	1968
SALO, ERNEST O.	RETURNS FROM PLANTS OF LARGE V.S. SMALL FISH	1954
SENN, HARRY G.	A Progress Report on the Results of Release— Ing Migrant Size Zero Age Coho	1964
WAGNER, HARRY H.	EFFECTS OF SIZE AT RELEASE ON SURVIVAL AND LIFE HISTORY PATERN OF HATCHERY-REARED STEELHEAD TROUT	1963
	THE EFFECTS OF STOCKING YEARLING, HATCHERY- REARED, WINTER STEELHEAD ON WILD POPULATIONS	1964
	THE EFFECTS OF TWO DIFFERENT METHODS OF RE- LEASE ON THE SURVIVAL OF HATCHERY-REARED STEELHEAD	1966
ADULT RETURNS		
BAUER, JERRY A.	RETURNS OF UMPQUA RIVER SPRING CHINOOK AND SUMMER STEELHEAD	1966

ADULT RETURNS - CONT'D		
BAUER, JERRY A. CONT'D	PROGRESS ON CONTRIBUTION OF HATCHERY PRODUCED SPRING CHINOOK AND SUMMER STEELHEAD TO THE NORTH UMPQUA RIVER	1969
	PROGRESS REPORT ON CONTRIBUTION OF HATCHERY PRODUCED SPRING CHINOOK AND SUMMER STEELHEAD IN NORTH UMPQUA RIVER	1970
	HATCHERY CONTRIBUTION OF ANADRAMOUS FISH TO THE NORTH UMPQUA RIVER	1971
DONALDSON, LAUREN R.	EARLY MARURING SOCKEYE AND COHO FROM THE RE- LEASE OF LARGE ZERO-AGE FINGERLINGS	1969
	RETURN OF ACCELERATED COHO SMOLTS AS TWO-YEAR- OLD ADULTS	1972
ELLIS, C.H.	RETURN OF ADULT COHO SALMON DEMONSTRATING A HIGH DEGREE OF SELECTIVITY IN HOMING	1968
	THE STATE OF WASHINGTON SURPLUS SALMON PROBLEM	1971
HANDY, PAUL	ANADROMOUS FISH ARE RETURNING	1971
HULL, MARVIN	ADULTS STEELHEAD RETURNS FROM PLANTS RELATED	1971
	RETURNS FROM MARKED SUMMER-RUN STEELHEAD HIGH GRADE PROGRAM	1975
SAALFELD, ROBERT W.	RETURNS FROM HATCHERY-REARED FALL CHINOOK RELEASES INTO DESCHUTES RIVER	1956
SALO, E.	AN ANALYSIS OF RETURNS TO SOOS CREEK HATCHERY 1964	1965
SAMS, ROY	TRANSPLANTATION OF ADULT COHO SALMON	1967
VAN TINE, J.A.	PINK SALMON RETURNS TO THE QUINSAM HATCHERY FROM UNFED FRY AND SALTWATER REARED FRY RELEASED	1980
ALGICIDES		
BIGEJ, R.G.	DEVELOPMENT OF EFFECTIVE POND ALGICIDES	1957
COMBS, BOBBY D.	ALGICIDE EXPERIMENTS	1955
SCHULTZ, ROLAND R.	USE OF SIMAZINE AND ATRAZINE FOR CONTROL OF PONDWEEDS AND FILAMENTOUS ALGAE	1964
ANESTHETICS		
JOHNSON, H.	ANESTHESIA FOR ADULT SALMON	1965

ANESTHESIA - CONT'D BARNEY, ELMO B. THE SUCCESSFUL USE OF CO2 ANAESTHESIA FOR SPAWNING FALL CHINOOK SALMON 1968 JOHNSON, HARLAN E. CARBON DIOXIDE ANESTHESIA FOR ADULT SALMON 1968 ATLANTIC SALMON MORTON, K.E. NOTES ON EGG PRODUCTION FROM SECOND GENERATION ATLANTIC SALMON 1959 RAYNER, J. THE ATLANTIC SALMON IN OREGON 1965 AQUACULTURE CUMMINGS. EDWIN SALMON RANCHING IN OREGON 1978 HARRELL, LEE WILEY MASS MORTALITIES IN PUGET SOUND AQUACULTURE 1973 JOHNSON, KEITH A. UPDATE ON LUMMI INDIAN AQUACULTURE 1975 KLONTZ, GEORGE W. AQUACULTURE IN IDAHO 1975 (BILL) LEWIS, ERNEST DESIGN OF AN AQUACULTURE FACILITY FOR WOODSHOLE OCEANOGRAPHIC INSTITUTE 1973 MCNEIL, WILLIAM J. ZERO-AGE COHO--AN UPDATE FROM DREAQUA 1979 MORNING. JOHN R. CHINOOK SALMON MARICULTURE STUDIES IN PUGET SOUND 1972 NOSHO, TERRY & SUMMARY OF UNIVERSITY OF WASHINGTON ERNIE BRANNON AQUACULTURE WORKSHOP 1973 ERNIE SALO PROGRESS AND PROBLEMS IN THE MARINE CULTURE NOVOTNY, ANTHONY J. OF PACIFIC SALMON 1972 SCOTT, CLYDE A. THE UNITED STATES DEPARTMENT OF AQUACULTURE ROLE IN AQUACULTURE 1977 THE USE OF LOW-GRADE HEAT EFFULUENT FROM TRUCH. W.P. NUCLEAR POWER STATIONS IN AQUACULTURE 1975 WOIWODE, JOHN G. GEOTHERMAL AQUACULTURE: ITS POTENTIAL IN THE PACIFIC NORTHWEST 1979 BODY COMPOSITION ELLIOTT, JOSEPH W. THE ROLE OF FISH BODY CHEMISTRY IN

CHARACTERIZING PHYSICAL CAPABILITY OF

1962

CHINOOK SALMON FINGERLING

4

BODY COMPOSITION - CONT'D		
WOODALL, A.N.	A CHEMICAL COMPARISON OF WILD AND HATCHERY SALMONIDS	1956
BREEDING		
ROLEY, DENNIS D.	SELECTIVE BREEDING OF COHO SALMON AT EAGLE CREEK NATIONAL FISH HATCHERY	1973
TRUCH, W.P.	SELECTIVE BREEDING RESEARCH STATION - MAPLE, ONTARIO	1974
BROOD STOCKS		
MILLENBACK, CLIFF	RETENTION OF BROOD STOCK IN BLUE LAKE	1954
MORTON, K.E.	THE DEVELOPMENT OF A GOLDEN TROUT BROOD STOCK IN OREGON	1957
PRESSEY, RICHARD	THE INFLUENCE OF STOCK SELECTION OF COHO ON TIME OF ARRIVAL AT COLUMBIA RIVER HATCHERIES	1968
ROSENTRETER, NANCY M.	WINTER STEELHEAD TROUT BROOD STOCK STRATEGIES IN OREGON	1980
SINCLAIR, A.C.	PROPOSED DEVELOPMENT OF BROOD STOCK STATIONS IN ALBERTA, CANADA	1976
WINGFIELD, WILLIAM C.	RESULTS OF SELECTIVE BREEDING OF RAINBOW AT TROUT ON ADULT CATCH	1968
CELLUAR REGENERATION		
CONTE, DR. F.P.	CELLUAR REGENERATION IN THE FISH (Oncorhynchus kisutch)	1964
CHEMICALS		
ALLEE, BRIAN J. & ROBERT W. ANDERSON	USE OF SODIUM THIOSULFATE DECHLORINATED MUNICIPAL WATER IN SALMON CULTURE	1975
AMEND, DONALD F.	THE USE OF MERCURIALS IN THE HATCHERY, A PROGRESS REPORT	1965
	MERCURIALS IN THE HATCHERY; ABSORPTION, DISTRIBUTION, AND RETENTION OF TIMSAN (ETHYL MERCURY PHOSPHATE) IN RAINBOW TROUT	1966

CHEMICALS - CONT'D

BENVILLE, PETE, JR.	Toxicity Studies of Dimethylsulfoxide	
DEHVILLE, LETE, ON.	ON SILVER SALMON	1964
BRUNSON, WAYNE	New Uses For Old Fish Treatment Chemicals	1971
BURROWS, R.E.	LIGNASAN FOR THE CONTROL OF BACTERIAL GILL DISEASE	1957
CRAWFORD, DAVID L. & JOHN WESTGATE JEAN R. LAGASSE	ASCORBIC ACID IN MOIST PELLETIZED FISH RATIONS	1979
ERICKSON, J. DAVID	TOXAPHENE POSIONING OF RAINBOW TROUT	1968
EWING, R.D. & S.L. JOHNSON	EFFECTS OF DETERGENTS ON GILL (AN + K)- ATPASE ACTIVITY IN CHINOOK SALMON	1975
FLYNN, JAMES K.	TREATMENT OF A MONOGENTIC TREMATODE RESISTANT To AN ORANOPHODPHATE	1979
HUBLOU, W.F.	An Experiment Using PMA and Lignasan Treatments As a Prophylaxis Against Gill Disease	1957
KATZ, MAX & H.E. JOHNSON	CLORINATED HYDROCARBON INSECTICIDES AND FISH	1967
MACMILLIAN, R.W.	A SAND BIO-FILTER FOR REMOVAL OF AMMONIA NITROGEN	1981
MCPHERSON, BERRY	EFFECTS OF METHYL MERCURY EXPLOSURE ON SEA WATER ADAPTION OF JUVENILE COHO AND STEELHEAD	1972
MORGAN, REGINALD E.	MERCURIALS IN THE HATCHERY: SOME FACTORS IN- FLUENCING THE TOXICITY OF TIMSAN (ETHYLY MERCURY PHOSPHATE) TO RAINBOW TROUT	1966
OWSLEY, DAVID E.	NITROGEN GAS REMOVAL USING PACKED COLUMNS	1978
RUCKER, ROBERT R.	'LIGNASAN' FOR BACTERIAL GILL DISEASE	1955
SMITH, CHARLIE	BLOOD CHANGES IN SILVER SALMON FROM DIMETHYL- SULFOXIDE	1964
WARREN, JAMES W.	LABORATORY TESTS OF THE BACTERICIDAL ACTION AND FISH TOXICITY OF SIX QUATERNARY DISINFECTANTS	1964
WILLIAMS, W.G.	EVALUATION OF CLINOPTIOLTITE FOR AMMONIA REMOVAL	1974
WOOD, J.W. & R.L. WESTGARD	OBSERVATIONS ON MALACHITE GREEN AND ITS TOXICITY	1961
YASUTAKE, W.T.	GILL PATHOLOGY DUE TO FORMALIN TOXICITY	1962

CHEMCIALS - CONT'D		
YASUTAKE, WILLIAM T.	HISTOPATHOLOGY ASSOCIATED WITH POSSIBLE TOXAPHENE AND 2, 4-D TOXICICTY IN RAINBOW TROUT	1967
CHINOOK		
BAUER, J.	UMPQUA HATCHERY-REARED UMPQUA SPRING CHINOOK	1965
FOSTER, ROBERT W.	PERCIVAL COVE DELAYED CHINOOK PROGRAM	1975
SWARTZ, DON	SPRING CHINOOK	1974
WALLIS, JOE	PROGRESS REPORT OF SPRING CHINOOK OPERATIONS AT THE WILLAMETTE HATCHERY	1963
<u>CHROMOSOMES</u>	*	
SIMON, RAY	CHROMOSOMES AND SPECIES	1963
CLOSED SYSTEM		
SMITH, R.R.	PRELIMINARY REPORT ON DIGESTION AND METABOLISM STUDIES IN CLOSED SYSTEMS	1965
COMPUTERS		
DOWNEY, PHILIP C. & G.W. (BILL) KLONTZ	A SYSTEMS APPROACH TO HATCHERY PRODUCTION OR EVERYTHING YOU WANTED TO KNOW ABOUT FISH BUT WERE AFRAID TO ASK YOUR COMPUTER	1981
WEST, CAMERON	F.I.S.H. OR MICRO-COMPUTERS IN HATCHERIES	1981
CONCRETE REPAIR		
BITLE, FRED	USE OF 'DARAWELD' IN REPAIR OF CONCRETE	1962
	USE OF TROXYMITE IN REPAIR OF CONCRETE	1962
COSTS		
BROWN, WILLIAM G.	COSTS AND RETURNS OF SALMON HATCHERY PRODUCTION ALTERNATIVES	1974
CLAYTON, JOHN	JOB ACCOUNTING AT A SALMON HATCHERY	1971
PARVIN, JOHN R.	COST ANALYSIS OF REARING FIRST EGG COLLECTION IN REUSE SYSTEMS VERSUS RAW WATER	1971
CUTTHROAT		
RAYNER, JOHN & RICHARD D. GIGER	THE CATCH AND MIGRATION OF HATCHERY COASTAL CUTTHROAT TROUT IN OREGON RIVERS	196

DENSITY STUDY

DETROIT STODE		
HOLWAY, JAMIESON E.	EAGLE CREEK NATIONAL FISH HATCHERY DENSITY STUDY FOR COHO SALMON	1980
	EAGLE CREEK NATIONAL FISH HATCHERY DENSITY STUDY	1981
DIET		
<u>ABERNATHY</u>		
FOWLER, LARRY	ADVANCES WITH THE ABERNATHY DIET	1968
ACIDS		
ASHLEY,L.M. & J.E. HALVER C.E. SMITH R.R. SMITH	ASCORBIC ACID DEFICENCY SYNDROM IN COHO SALMON	1968
ASHLEY, L.M.	WOUND HEALING IN ASCORBIC ACID DEFICIENT SALMONIDS	1968
CUPLIN, PAUL & MARK MISSELDINE	PANTOTHENIC ACID REQUIREMENTS OF HENRYS LAKE CUTTHROAT TROUT FRY	1970
JOHNSON, C.L.	ASCORBATE IN RAINBOW TROUT	1971
SMITH, C.E. & J.E. HALVER	FOLIC ACID ANEMIA IN COHO SALMON	1967
<u>ADDITIVES</u>		
LAW, DUNCAN K.	THE EFFECTS OF SELECTED ANTIOXIDANTS AND SELENIUM ON FISH FEED	1960
WESTGATE, JOHN	IN VIVO EFFECTS OF SELECTED ANTIOXIDANTS AND SELENIUM IN A STRESS OREGON TEST DIET	1960
WHITMORE, CECIL M.	THE EFFECTS OF HIGH LEVELS OF FIVE ANTIOXIDANTS, SELENIUM IN THE OREGON TEST DIET	1960
AMINO ACIDS		
HALVER, JOHN E.	THE AMINO ACID REQUIREMENTS OF CHINDOK SALMON	1955
	AMINO ACID REQUIREMENTS OF CHINOOK SALMON	1957
	AMINO ACID REQUIREMENTS OF SALMON	1958
	ISOLEUCINE, LEUCINE, PHENYALANINE AND VALINE REQUIREMENTS OF CHINOOK SALMON	1959

AMINO ACIDS - CONT'D		
HALVER, JOHN E CONT'D	TRYTOPHAN REQUIREMENTS OF CHINOOK, SOCKEYE, AND SILVER SALMON	1964
SHANKS, WARREN E.	A SIMPLE METHOD OF AMINO ACID DETERMINATIONS OF FISH FOOD	1956
	METHODS OF AMINO ACID ANALYSIS	1957
	CLASSIFICATION OF ESSENTIAL AMINO ACIDS FOR SOCKEYE SALMON	1959
BROOD STOCK		
BAKER, HARRY W. (JR.)	BROOD STOCK FEEDING AND ASSOCIATED MORTALITIES	1961
CALORIES		
THOMAS, ALLAN E.	EFFECT OF FEEDING TWO CALORIC LEVELS ON QUALITY OF FINGERLING PRODUCTED	1963
COMPOSITION		
LAW, DUNCAN K.	BASIS FOR DIET COMPOSITION	1955
SINNHUBER, R.O.	COMPOSITION OF DIETS	1951
COSTS		
SATIA, BENEDICT PHILLIPS	ATTEMPTS AT LOWERING FEED COSTS WITH OUT LOWERING FEED QUALITY	1974
DRY FEEDS		
BAKER, JR. H.W.	318 Days of Continuous Pellet Feeding to Rainbow Trout	1957
BITLE, FRED W.	PELLET FEEDING EXPERIMENT	1959
CAIRNS, DONALD	TESTS OF COMMERCIAL DRY FEEDS ON FALL CHINOOK	1959
	TESTS OF COMMERCIAL DRY FEEDS ON SILVER SALMON	1959
CANNADY, BRUCE	DIET TRIALS OF COMMERCIAL DRY MEAL MIX	1956
COMBS, BOBBY D.	RECONSTITUTED DRY MEAL DIETS FOR CHINOOK SALMON	1959
	RECONSTITUTED DRY MEAL DIETS FOR CHINOOK SALMON	1960
DOLLAR, A.M.	EVALUATION OF DRY FEEDS FOR IDAHO CUTTHROAT PROGRAM	1965
FOWLER, LARRY	PROGRESS REPORT ON THE ABERNATHY DRY DIET	1969

DRY FEEDS - CONT'D		
FOWLER, LARRY -	PROGRESS WITH THE ABERNATHY DRY DIET	1971
GASTINEAU, A.C.	CLARK'S NEW AGE TROUT FEED FOR SOCKEYE SALMON FINGERLING DIET	1957
	FEEDING DRY FEED TO SOCKEYE SALMON	1958
	COMMERCIAL DRY FEED TO SOCKEYE SALMON FINGERLINGS	1959
	FREQUENCY OF FEEDING DRY FEEDS TO SOCKEYE SALMON FINGERLINGS	1960
HICKS, CHARLES E.	GROWTH RATES AND CONDITION INDEX FOR RAINBOW TROUT FED DRY DIETS	1964
HORN, E.B.	SILVER SALMON FEEDING TEST WITH CLARK'S NEW AGE DRY TROUT FOOD	1957
	FEEDING SILVER SALMON AT QUILCENE HATCHERY (DRY FEED)	1958
JOHANSEN, JOHN M.	IMPROVEMENTS IN CUTTHROAT PROGRAM FEEDING DRY FEED	1958
JOHNSON, HARLAN E.	TESTS ON DRY FEED FOR SALMON	1958
McELRATH, ROBERT J.	TESTS OF DRY FEEDS FOR FALL CHINOOK SALMON AT THE CARSON NATIONAL FISH HATCHERY	1959
	TESTS OF DRY FEEDS FOR SPRING CHINOOK SALMON AT THE CARSON NATIONAL FISH HATCHERY	1959
MILLENBACH, C.	DRY FEED FOR TROUT	1957
MILLS, DWAIN	PRODUCTION TRAIL OF ABERNATHY DRY DIET FOR COHO	1971
MORTON, K.E.	KAMLOOPS RAINBOW FRY FEEDING TEST USING ONE HUNDRED PER CENT PELLETED FOODS	1959
NOBLE, R.E.	RESULTS OF FEEDING COMMERCIALLY PREPARED DRY FEEDS TO SILVER SALMON	1959
	ADVANCES IN DRY SALMON FEED	1967
PARVIN, JOHN E.	DRY FEED EXPERIMENTS AT EAGLE CREEK STATION	1958
	TIME STUDIES TO EVALUATE PELLET FEEDING AS COMPARED TO WET FEEDING	1959

Asseptions		
DRY FEEDS - CONT'D		
PARVIN, JOHN E CONT'D	HATCHERY TESTING OF A COMMERCIAL DRY FEED TO CHINOOK SALMON	1959
	HATCHERY TESTING OF COMMERCIAL DRY FEED TO SILVER SALMON	1959
PELNAR, JOHN	CHINOOK SALMON PELLET FEEDING	1958
	DRY FEEDING OF CHINOOK SALMON	1959
SATIA, BENEDICT PHILLIPS	GROWTH RATE, FEED EFFICIENCY, AND REPRODUCTION RESPONSES OF RAINBOW TROUT (DONALDSON STRAIN) FEED MOIST ON DRY DIETS	1973
FATS		
ANDERSON, ALTON R.	MARINE FISH FATS IN SALMON DIETS	1966
SADDLER, J.B.	FATTY ACID VARIATION WITH DIET IN COHO SALMON (Oncorhynchus kisutch) WALBAUM	1965
FEEDING		
DONALDSON, LAUREN R.	PROGRESS AND PROBLEMS IN FEEDING FISH IN THE WESTERN STATES	1952
HEMING, T.A.	INFLUENCE OF TEMPERATURE ON TIME TO COMMENCE FEEDING OF CHINOOK SALMON ALEVINS	1980
JOHNSTON, JAMES M.	TERRITORIAL AND FEEDING BEHAVIOR OF STEELHEAD AND COHO WITHIN A STREAMS MICROHABITATS	1970
HOPLEY, CHARLES W. JR.	FEEDING OF CHINOOK SALMON ALEVINS	1974
NIGHTINGALE, JOHN W.	NITROGEN METABOLISM AND FEEDING IN DONALDSON STRAIN RAINBOW TROUT	1973
PANEL:	FEEDING OF SPRING CHINOOK SALMON AND ASSOCIATED PROBLEMS	1961
ROLEY, DENNIS D.	FEEDING OF HATCHERY-REARED COHO SALMON ALEVINS	1974
FEEDING TECHNIQUES		
ABBOTT, ROBERT R.	THE TRAINING OF TROUT WITH SOUND STIMULUS	1969
	TRAINING FISH WITH UNDERWATER SOUNDPRACTICAL SUGGESTIONS	1972
JENSEN, CHRIS	PROGRESS REPORT ON FROZEN FOOD PELLET FEEDERS	1967

FEEDING TECHNIQUES - CO	NT'D	
LEITH, DAVID A.	Studies on Oregon Pellet Feeding Techniques	1964
MORTON, K.E.	AN ATTEMPT TO CONTROL GROWTH THROUGH THE ALTERNATE FEEDING AND STARVATION OF FISH	1955
FIN EROSIN		
HILL, RAYMOND L.	COMPARISON BETWEEN TWO METHODS OF FEEDING AS RELATED TO FIN EROSIN	1974
GENERAL		
KLONTZ GEORGE W. (BILL)	A METHOD OF CONDUCTING HATCHERY DIET TRIALS	1977
WESTGATE, JOHN W.	PROGRESS TOWARD DEVELOPING A SURVIVAL ENHANCING DIET FOR PACIFIC SALMON	1980
GROWTH RATES		
GRIFFIOEN, WARD & J. VOELKNER	GROWTH RATES OF JUVENILE CHUM IN COLD WATER FED ON FIVE DIFFERENT RATION TYPES	1980
INGREDIENTS		
BIGEJ, RICHARD G.	DIET TRIALS WITH PASTEURIZED AND AUTOLYZED	1960
COATES, J.A. & R.L. SCHWAB	BRINE SHRIMP FEEDING EXPERIMENTS	1955
GASTINEAU, ALFRED C.	A COMPARISON OF SEVERAL SALMON VISCERA INCLUDED IN THE DIET FED TO SOCKEYE FINGERLINGS AT THE LEAVENWORTH, WASHINGTON	
	FISH CULTURAL STATION	1954
WOODALL, A.N.	DEXTRIN SUPPLEMENTED LIVER DIETS FOR CHINOOK SALMON	1959
LARVAE		
HALVER, J.E. & G. PIGOTT	MANUFACTURING LARVAE FISH FEED PRACTICES	1979
VILLALON, J.R. & G.M. PIGOTT J.E. HALVER	RESPONSE OF MARINE FISH LARVAE TO ARTIFICIAL DIETS	1981
WOLF, DAVID A. & J.E. HALVER	ACCEPTANCE OF A DRUM-DRIED FEED BY MARINE FISH LARVAE	1979

DIET - CONT'D

MINERALS		
CUPLIN, PAUL	CHELATED MINERALS IN IDAHO TROUT DIETS	1968
OLSON, WAYNE H. & TERENCE BRADLEY	THE ROLE OF MINERAL ENRICHMENT IN STEELHEAD PRODUCTION	1980
MOISTURE		
PUTMAN, GEORGE B.	ASCORBIC ACID DESTRUCTION IN MOIST DIETS	1976
WOODALL, A.N.	EFFECT OF MOISTURE IN CHINOOK SALMON DIETS	1958
NUTRITION		
CRAWFORD, D.L. & D.K. LAW R.B. MCKEE D.E. MILLS J.W. WESTGATE	HAKE (MERLUCCIUS PROUCTS) A SOURCE OF PROTEIN FOR HATCHERY FISH NUTRITION	1969
CRAWFORD, DAVID L. & DUNCAN K. LAW	COMPARATIVE NUTRITIONAL CHARACTERISTICS OF FILLET CARCASS WASTE TO FISH	1974
DOLLAR, ALEXANDER M.	NUTRITION AND DISEASE IN TROUT	1960
SINNHUBER, RUSSELL O.	ESSENTIAL FATTY ACIDS, REQUIREMENTS AND THE NUTRITION OF TROUT	1972
SMITH, R.R.	FOOD ENERGY AND THE PRODUCTIVE VALUE OF FISH FOODS	1967
	PROGRESS IN EVALUATING FISH FEEDS ON THE BASIS OF DIGESTABILITY AND METABOLIZABLE ENGERGY	1971
<u>OMP</u>		
BOUCK, GERALD & M.D. CAIRNS	DOES OMP DIET INHIBIT REPRODUCTION IN ADULT SOCKEYE SALMON	1976
CUPLIN, PAUL	LINEAR PROGRAMMED IDAHO OPEN FORMULA DIET	1970
OREGON PELLETS		
BARNEY, ELMO B.	DIET TRIALS INVOLVING THE USE OF OREGON MOIST PELLETS FOR FEEDING FINGERLING FALL CHINOOK, STEELHEAD, AND KAMLOOPS TROUT AT COLEMAN STATION	1962
DRAGO, HOWARD	PRODUCTION FEEDING OF SPRING CHINOOK WITH OREGON PELLETS (DOGFISH)	1963
HUBLOU, WALLACE F.	FURTHER INFORMATION CONCERNING OREGON PELLETS IN PRODUCTION	1960

IN PRODUCTION

DIET - CONT'D

EGON PELLETS - CONT'D		
LAW, D.K.	PROBLEMS IN MANUFACTURE AND STORAGE OF MOIST PELLETS	195
	A REPORT ON THE AMBRETTE PELLET MAKING MACHINE	195
LAW, D.K. & D.L. CRAWFORD R.B. MCKEE J.W. WESTGATE	UTILIZATION OF SHRIMP SCRAP IN THE PREPARATION OF MOIST PELLETED FISH FOODS	197
LEITH, DAVID A.	OREGON PELLETS IN PRODUCTION	195
MCKEE, THOMAS B.	TRIALS WITH CRUMBLED OREGON PELLETS AND A PROGRESS REPORT OF OTHER 1962 NUTRITION STUDIES	196
MILLS, D.	EVALUATION OF HERRING, SALMON, AND HAKE AS WET INGREDIENTS FOR OREGON PELLETS	197
	PRODUCTION RESULTS WITH IMPROVED OREGON STARTER MASH AND PELLETS	197
SADDLER, JAMES B. & K.V. KOSKI	COMPARATIVE LIPID AND FATTY ACID FEATURES OF PELLET DIETS CURRENTLY USED IN FISHERIES	197
WESTGATE, JOHN	RANKING OF SELECTED WET INGREDIENTS FOR OREGON PELLETS	196
	EVALUATION OF COTTONSEED OIL MEAL SUBSTITUTES AND BOTTOMFISH FILLET SCRAP IN THE OREGON PELLET, A PRELIMINARY REPORT	196
	DEVELOPMENT OF A NEW OREGON PELLET FORMULATION	196
	SOME DEVELOPMENT IN OREGON STARTER MASH AND OREGON PELLET FORMULATION	196
	TESTS ON FISHMEALS IN OREGON PELLETS	197
WESTGATE, JOHN W. & THOMAS MCKEE	A TEST OF 'SALTY HERRING MEAL' IN OREGON PELLETS	197
DAVID CRAWFORD DUNCAN K. LAW		
WHITE, REED G.	SUMMARY OF PELLET FEEDING	19
	OREGON PELLET FEEDING PRODUCTION SUMMARY	196
REDRMANCE AND COMPOSI	TION	
MCCALLUM, IAN ε DAVE HIGGS BRUCE OWEN	CHINOOK SALMON DIETS BASED ON PRESCRIBED PERFORMANCE AND BODY COMPOSITION	198

DIET - CONT'D

PERFORMANCE AND COMPOSITION - CONT'D

MILLS, DWAIN E.	PRODUCTION TEST OF ANCHOVY, MENHADEN AND TUNA OILS IN OREGON MOIST PELLET	1979		
PROTEIN				
BIGEJ, R.G.	EVALUATION OF PROTEIN LEVELS IN A HATCHERY DIET	1957		
CRAWFORD, D.L. & DUNCAN K. LAW JOHN W. WESTGATE DAVID A. LEITH	RESPONSE OF CHINOOK SALMON TO DIETARY PROTEIN ENERGY REQUIREMENTS OF SPRING CHINOOK SALMON	1976		
HALVER, JOHN E.	PROTEIN REQUIREMENTS STUDIES WITH SALMONIDS	1954		
	PROTEIN REQUIREMENTS OF SALMON	1956		
MAHNKEN, CONRAD ε JOHN SPINELLI	EFFECTS ON GROWTH OF SALMONIDS DIETS CONTAINING SINGLE-CELL PROTEIN DERIVED FROM YEAST AND BACTERIAL	1976		
PUTMAN, GEORGE B. & JERRY D. HENDRICKS	SOME OBSERVATIONS ON THE USE OF FISH PROTEIN CONCENTRATE IN EXPERIMENTAL TROUT DIETS	1975		
ROLEY, DENNIS D.	QUANTITATIVE PROTEIN REQUIREMENTS OF THE UNIVERSITY OF WASHINGTON RAINBOW TROUT BROODSTOCK	1975		
SATIA, BENEDICT PHILLIPS	QUANTITATIVE PROTEIN REQUIREMENTS OF RAINBOW TROUT	1972		
SHANKS, WARREN E.	METHODS FOR EVALUATING PROTEIN QUALITY	1961		
h	MEASUREMENT OF PROTEIN QUALITY	1962		
SMITH, ROBERT R.	RAISING TROUT WITH OUT ANIMAL PROTEIN	1973		
STARTING DIETS				
DRAGO, HOWARD	PRODUCTION FEEDING TRIALS WITH OREGON STARTER MASH	1966		
FOWLER, LAURIE G.	STARTING DIETS AND THE RESULTS OF THE 1966 FEEDING TRIALS	1966		
HUBLOU, WALLACE F.	OREGON PELLETS AS A STARTING DIET - FEEDING OF DEHYDRATED OREGON PELLETS	1961		
MCKEE, THOMAS B.	OREGON PELLETS AS A STARTED DIET FOR SALMON AND STEELHEAD	1964		
	MODIFICATION OF THE OREGON STARTER MASH	1967		

DIET - CONT'D

,	STARTING DIETS - CONT'D		
	MILLS, DWAIN E.	DEVELOPMENT OF THE OREGON STARTER MASH	1966
	WESTGATE, J.	OREGON PELLET STARTER DIETS	1965
	SUPPLEMENTS		
	FOWLER, LARRY G.	HERRING MEAL REPLACEMENTS IN THE ABERNATHY DIET	1974
	LARSON, R.E.	KELP MEAL AS A DIET SUPPLEMENT FOR SALMONIDS	1977
	PUTMAN, GEORGE B.	THE USE OF DRIED SLUDGE FROM THE SECONDARY TREATMENT OF POTATOE PROCESSING WASTES AS A FEED INGREDIENT FOR RAINBOW TROUT	1977
	RILE, KATHY & BRIAN ALLEE	USE OF 'BIO POND SLUDGE' AS A FEED INGREDIENT FOR PEN-REARED COHO SALMON	1973
	SPINELLI, JOHN & CONRAD MAHNKEN	THE EFFECT OF DIETS CONTAINING DOGFISH MEAL (SQUALUS ACANTHIAS) ON THE MERCURY CONTENT AND GROWTH OF PEN-REARED COHO SALMON (Oncorhynchus kisutch)	1975
		CAROTENOLD DEPOSITION IN PEN-REARED SALMONIDS FED DIETS CONTAINING OIL EXTRACTS OF RED CRAB (Pleuroncodes planipes)	1976
	STEEL, RONALD E. TEST DIETS	UTILIZATION OF SHRIMP PROCESSING WASTE AS A DIETARY SUPPLEMENT FOR RAINBOW TROUT (Salmogairdneri)	1970
	HALVER, JOHN E.	VITAMIN-TEST DIET FOR CHINOOK SALMON	1951
	MILLS, DWAIN	TESTING OF VEGETABLE AND FISH DILS AND PASTEURIZED HAKE AS OREGON PELLET INGREDIENTS	1968
	RUCKER, ROBERT R.	Wold's and McLaren's 'Synthetic' or Test Diets	1951
	VITAMINS		
	FRYE, TED	THE EFFECT OF ENVIRONMENTAL FACTORS ON VITAMIN RETENTION IN PROCESSED FISH FOODS	1976
	HALVER, JOHN	THE QUALITATIVE WATER-SOLUBLE VITAMIN REQUIREMENT OF CHINOOK SALMON	1952
		VITAMIN C3 FOR FISH	1971
	JONES, G. IVAN	THIAMIN LOSS IN STARVED LIVER	1950

DIET - CONT'D		
VITAMINS - CONT'D		
TUCKER, BARBEE & J.E. HALVER	ADEQUATE VITAMIN C IMPROVES RESISTANCE TO STRESS	1981
DISEASE		
ANTIBODIES		
CISAR, J.O	Some Characteristics of Antibodies From Juvenile Salmon	1970
DECEW, MARK	PRELIMINARY REPORT ON THE USE OF ANTIBIOTICS To Control Bacterial Infections in Adult Salmon	1969
	PROGRESS IN THE STUDY OF ANTIBIOTIC EFFICACY AND TERATOGENICITY IN ADULT CHINOOK SALMON (Oncorhynchus tschawytscha)	1971
FUJIHARA, M.P.	COLUMNARIS EXPOSURE AND ANTIBODY PRODUCTION IN SEAWARD AND UPSTREAM MIGRANT SOCKEYE SALMON	1971
BACTERIAL		
BUCHANAN, DAVID V.	EFFECTS OF INCREASING TEMPERATURES AND BACTERIAL DISEASES FOUND NATURALLY IN THE WILLAMETTE RIVER TO FOUR STOCKS OF STEELHEAD SMOLTS	1975
FRYER, J.L. DR.	CURRENT RESEARCH CONCERNING ORAL IMMUNIZATION OF SALMONIDS AGAINST BACTERIAL DISEASE	1970
HOLT, R.A.	SEROLOGICAL TYPING AND CONTROL OF (Cytophaga psychrophila) THE CAUSITIVE AGENT OF BACTERIAL COLD WATER DISEASE	1969
BOTULISM DISEASE		
EKLUND, DR. MEL	OCCURRENCE OF BOTULISM IN SALMONID REARING FACILITIES	1981
HAMMERSTROM, RICHARD	SUSCEPTIBILITY OF TWO SPECIES OF SALMON TO BOTULISM INTOXIFICATION	1964
CANCER		
HALVER, J.E. & G.N. WOGAN L.M. ASHLEY R.R. SMITH	SIZE AND SENSITIVITY OF TROUT TO AFLAXTOXIN B_1	1967
<u>CATARACTS</u>		
PERRY, NED	CATARACTS IN B.C. CHINOOK AND COHO: COSTS AND	1981

CURES

CATARACTS - CONT'D		
ROLEY, DENNIS D.	CATARACTS IN WASHINGTON STATE	1981
CERATOMYXA SHASTA		
GOULD, R.W. & J.E. SANDERS	OCCURRENCE OF THE PROTOZOAN FISH PARASITE (Ceratomyxa shasta) IN THE COLUMBIA RIVER BASIN AND THE ULTRA-STRUCTURE OF THE SPORT	1969
JOHNSON, KEITH A.	RECENT OBSERVATIONS CONCERNING (Ceratomyxa shasta)	1971
LEITH, DAVID A. & KEITH D. MOORE	CONTROL OF (Ceratomyxa) IN A HATCHERY WATER	1967
RATLIFF, DON E.	A DIFFERENCE IN RESISTANCE OF DESHCHUTES RIVER STOCK SPRING CHINOOK TO (Ceratomyxa shasta) BY EXPOSURE PERIOD	1974
	1974 (Ceratomyxa shasta) STUDIES AT THE PROJECT DESHUTES RIVER, OREGON	1974
	DISTRIBUTION OF THE INFECTIVE AGENT FOR (Ceratomyxa shasta) AT THE PELTON PROJECT DESCHUTES RIVER, OREGON	1977
	(Ceratomyxa shasta) A MAJOR KILLER OF COLUMBIA RIVER SALMON ?	1979
	(Ceratomyxa shasta), INITIAL TIMING, LONGEVITY, AND ABUNDANCE OF THE INFECTIVER STAGE IN THE DESCHUTES RIVER OF OREGON	1980
SANDERS, JIM	OCCURRENCE AND DISTRIBUTION OF ($Ceratomyxashasta$) IN SALMONID FISHES FROM OREGON WATERS	1966
SANDER, J.E. & J.L. FRYER	(Ceratomyxa shasta) INFECTIONS IN SALMONIDS	1967
UDEY, L.R.	THE EFFECTS OF TEMPERATURE ON (Ceratomyxa shasta) DISEASE IN EXPERIMENTALLY INFECTED JUVENILE RAINBOW TROUT AND COHO SALMON	1972
WOOD, JAMES	A MYXOSPORIDIAN, (Ceratomyxa shasta), INVOLVED IN LOSSES OF ADULT SALMON	1962
ZINN, J.L.	INCIDENCE OF (Ceratomyxa shasta) IN SELECTED HATCHERY STOCKS OF CHINDOK SALMON	1975
	INCIDENCE OF (Ceratomyxa shasta) IN SELECTED HATCHERY STOCKS OF COHO AND GENETIC CROSSES OF FALL CHINOOK SALMON	1975

COLUMNARIS		
AMEND, DONALD F.	EXPERIMENTAL CONTROL OF Columnaris DISEASE WITH A NEW NITROFURAN DRUG	1968
CULVER, RAY	CONTROL OF Columnaris ON JUVENILE SPRING CHINOOK	1964
FUJIHARA, PAUL	C. columnaris Antibody Production in Columbia River Fishes	1966
CRYPTOBIA	•	
	Cryptobia salmositica: A HEMOFLAGELLATE PARASITE OF COHO SALMON	1961
KATZ, MAX & CLARENCE D. BECKER	PRELIMINARY OBSERVATIONS REGARDING THE DISTRIBUTION OF Cryptobia IN THE PACIFIC COAST STATES	1961
ENVIRONMENTAL GILL DISEA	ASE	
KLONTZ, G.W. (BILL) & Bruce stewart	ENVIRONMENTAL GILL DISEASE (EGD): WHAT IT IS AND WHAT TO DO ABOUT IT	1981
YASUTAKE, W.T. ε K.H. AMOS	HISTOPATHOLOGICAL EFFECTS OF RIVER ASHFALL SUSPENSION ON CHINOOK SALMON FINGERLINGS	1980
EGGS AMEND, DONALD F.	WHATS NEW IN EGG DISINFECTANTS	1970
CONRAD, JOHN F.	PROGRESS REPORT ON 'BAD-EGG' STUDIES	1961
	'BAD EGG' STUDIES CONTINUED	1962
HILL, RAYMOND L.	RESULTS OF TREATMENTS FOR SOFT SHELL EGG DISEASE IN CHINDOK SALMON	1977
HOLWAY, JAMIESON E.	COLLAPSING MEMBRANE DISEASE OF BROOK TROUT EGG AND SAC FRY	1967
RUCKER, ROBERT R.	IMPACTED OVA OF CHINOOK SALMON	1959
SCORDELIS, PHILIP	PRELIMINARY REPORT ON THE CONTROL OF FUNGUSON FISH EGGS WITH A NEW ANTI-FUGAL CHEMOTHERAPEUTIC	1977
FURANACE		
ANDERSON, DOUG	A PROGRESS REPORT ON FURANACE	1969
FURUNCULOSIS		
CONRAD, JOHN	OBSERVATIONS ON STRESS-DISEASE CORRELATION IN JUVENILE COHO SALMON	1963

FURUNCULOSIS - CONT'D		
FRYER, JOHN L. & JOHN CONRAD	FURUNCULOSIS IN ADULT SALMON AND STEELHEAD	1963
HALL, JAMES D.	FURUNCULOSIS IN THE CHESTNUT LAMPREY	1964
KLONTZ, GEORGE W.	THE FURUNCULOSIS FAD	1966
KNITTEL, MARTIN D.	AEROMONAS LIQUEFACIENS INFECTIONS IN ADULT CHINOOK SALMON	1963
ROBERT, STEVEN	RENEWED INVESTIGATION INTO THE PREVENTION OF FURUNCULOSIS	1979
WALSDORF, WILLIAM J.	ORAL IMMUNIZATION OF COHO SALMON AGAINST FURUNCULOSIS AT QUILCENE NATL. FISH HATCHERY	1967
GAS BUBBLE		
RUCKER, ROBERT	GAS BUBBLE DISEASE STUDIES OF FISH	1970
WESTGARD, R.L.	GAS BUBBLE DISEASE IN ADULT CHINOOK SALMON	1963
WYATT, WILLIS J. & KIRK, T. BEININGEN	A NITROGEN GAS DISEASE CATASTROPHE	1969
GENERAL		
CONRAD, J.	A MYXOBACTERIUM AND MYXOSPORIDIAN FOUND IN JUVENIL SALMONIDS AT OREGON FISH COMMISSION HATCHERIES IN 1965	_E 1965
EARP, BRIAN J.	AN INTERIM REPORT ON FISH DISEASE INVESTIGATIONS	1951
	FISH DISEASE INVESTIGATION, STATE OF WASHINGTON DEPARTMENT OF FISHERIES	1952
	PROGRESS REPORT ON FISH DISEASE STUDIES	1956
	DISEASE PROBLEMS WITH DRY DIETS IN SILVER SALMON	1958
MCKERNAN, DON	NUTRITIONAL DISEASES	1951
RUCKER, ROBERT R.	FISH DIAGNOSTICS LABORATORY	1964
SPENCE, KEMET	CONTROL OF DISEASE IN ADULT SALMON A PRELIMINARY REPORT	1962
UZMANN, J.R.	THE USE OF PARASITES IN RACIAL STUDIES	1957
WOOD, JAMES W	DISEASE STUDIES AT OAKRIDGE	1955
	A PROGRESS REPORT ON TUBERCULOSIS AND KIDNEY	1956

DISEASE - CONT'D		
GENERAL - CONT'D		
WOOD, JAMES W. CONT'D	A PROGRESS REPORT ON KIDNEY DISEASE AND TUBERCULOSIS RESEARCH	1957
	PROGRESS REPORT ON FISH DISEASE STUDIES	1958
	PROGRESS REPORT ON FISH DISEASE STUDIES	1959
	PROGRESS REPORT ON FISH DISEASE RESEARCH	1960
	DISEASES OF ADULT SALMON	1964
WOOD, E.M.	PATHOLOGY AND HATCHERY EVALUATION	1963
<u>HERPESUIRUS</u>		
TAYLOR, W.G.	SALMONID HERPESUIRUS: A NEW ISOLATE FROM RAINBOW TROUT	1975
HEXAMITA (OCTOMITIS)		
UZMANN, J.R.	THE HEXAMITA PROBLEMREAL OR IMAGINED ?	1960
YASUTAKE, WILLIAM T.	CHEMOTHERAPY OF Hexamita salmonis	1958
<u>ICHTYOPHTHIRIUS</u>		
CULVER, RAYMOND F.	CONTROL OF ICHTYOPHTHIRIUS UNDER UNFAVORABLE WATER CONDITIONS AT OAK SPRINGS HATCHERY	1968
ERICKSON, DAVE	A SPINAL CURVATURE RELATED TO <i>Ichthyosporidium</i> INFECTION IN RAINBOW TROUT	1963
RUCKER, R.R.	Ichthyosporidium INFECTIONS IN FISH	1957
IDENTIFICATION		
GROBERG, WARREN	RECENT DEVELOPMENTS IN FISH VIRAL EXAMINATIONS AT OREGON HATCHERIES	1979
IHN AMEND, DONALD F.	PREVENTION AND CONTROL OF INFECTIOUS HEMATOPOIETIC	
AMEND, DUNALD F.	(IHN) VIRUS DISEASE IN RAINBOW TROUT	1974
BURKE, JOHN A. & JOSEPH R. SULLIVAN	TOWARD CONTROL OF IHNV	1 981
HILL, RAYMOND & DON E. RATLIFF	RINSING UNFERTILIZED STEELHEAD EGGS AND IHN VIRUS	1980

IMMUNIZATION		
BRUNSON, WAYNE	PROGRESS REPORT OF VACCINATIONS AS A MEANS OF CONTROLLING DRUG RESISTANT BACTERIAL OUTBREAKS IN WASHINGTON GAME DEPARTMENT HATCHERIES	1976
FRYER, J.L. & G.L. TEBBIT	IMMUNIZATION OF FISH FOR CONTROL OF INFECTIOUS HEMATOPIETIC NECROSIS	1975
GARRISON, ROBERT L.	VIBRIO IMMUNIZATION STUDIES	1972
GOVEN, BEVERLY A.	ANTIPROTOZOAN IMMUNIZATION STUDIES IN THE CHANNEL CATFISH, ICTAIURUS PUNCTATUS	1979
HOLT, R. ε M. SMITH J. ZAKEL D. MAHER	ANTIBIOTIC INJECTION OF ADULT SPRING CHINOOK SÄLMON TO REDUCE PRESPAWNING LOSSES AT SERVERAL OREGON FISH HATCHERIES	1979
KLONTZ, DR. GEORGE W.	ORAL IMMUNIZATION OF RAINBOW TROUT	1963
	STATUS OF ORAL IMMUNIZATION OF JUVENILE COHO SALMON AGAINST FURUNCULOSIS	1968
NELSON, J.S. & DR. J.L. FRYER R.L. GARRISON	ORAL IMMUNIZATION OF SALMONID FISH FOR CONTROL OF VIBRIOSIS	1969
OVERHOLSER, DONALD	ORAL IMMUNIZATION OF JUVENILE COHO SALMON	1966
ROHOVEC, JOHN S.	PROGRESS IN ORAL IMMUNITY FOR VIBRIO ANGULLARUM	1971
ROHOVEC, J.S. & J.L. FRYER	ORAL AND PARENTERAL IMMUNIZATION OF FISH FOR THE CONTROL OF VIBRIOSIS	1974
SPENCE, KENNETH & JOHN L. FRYER K.S. PILCHER	ACTIVE AND PASSIVE IMMUNIZATION OF RAINBOW TROUT, SPRING CHINOOK SALMON, AND COHO SALMON AGAINST AEROMONUS SALMONICIDA	1963
WOOD, J.W.	ORAL IMMUNIZATION OF JUVENILE COHO SALMON UNDER HATCHERY PRODUCTION CONDITIONS	1966
INFECTIOUS PANCREATIC NE	<u>ECROSIS</u>	
KINCHELOE, JOHN	INFECTIOUS PANCREATIC NECROSIS	1962
PARISOT, THOMAS J.	INFECTIOUS PANCREATIC NECROSIS IN THE WEST	1962
SANDERS, J.E. & G.C. TEBBIT D.M. MULCAHY	INFECTIOUS PANCREATIC NECIOSIS VIRUS IN TROUT FROM CENTRAL OREGON	1973

INFECTIOUS	PANCREATIC	NECROSIS -	CONT'D
------------	------------	------------	--------

WARREN, J.W.	THE DETECTION OF INFECTIOUS PANCREATIC NECROSIS	1965
BILLI, JAMES L.	A QUANTITATIVE COMPARISON OF PERITONEAL WASHES AND FECES FOR DETECTING INFECTIOUS PANCREATIC NECROSIS (IPN) VIRUS IN CARRIER BROOK TROUT	1967
KIDNEY		
AMOS, KEVIN Η. ε G.W. KLONTZ	A PRELIMINARY REPORT ON THE CONTROL OF BACTERIAL-KIDNEY DISEASE IN CHINOOK SALMON	1975
BANOWETZ, GARY M.	THE IMMUNIZATION OF BACTERIAL KIDNEY DISEASE	1974
COLEY, TRAVIS C.	THE CONTROL OF BACTERIAL KIDNEY DISEASE: 1977 UPTAKE	1977
GREEN, C.C.	KIDNEY DISEASE IN RAINBOW BROOD STOCK	1957
GROMAN, DAVID B.	UPDATE: ERYTHROMYCIN FHOSPHATE WATER HARDENING AS A CONTROL OF BACTERIAL KIDNEY DISEASE IN CHINOOK SALMON	1979
	UPDATE: BACTERIAL KIDNEY DISEASE CONTROL 1979-1980 ACTIVITIES AT THE UNIVERSITY OF IDAHO	1981
HENDRICKS, TERRY D. & STEVE L. LEEK	KIDNEY DISEASE POSTORBITAL LESIONS IN CHINOOK SALMON	1974
HOLT, R.A. & J.F. CONRAD	OBSERVATIONS ON PSEUDO-KIDNEY DISEASE AND THE REDMOUTH DISEASE BACTERIUM IN OREGON SALMONIDS	1970
HOSKINS, G.E. & E.T. STONE	AN EPIZOOTIC OF A TYPICAL BACTERIAL KIDNEY DISEASE IN ADULT MIGRANT COHO	1980
MANIFIELD, EUGENE T.	SURVEY OF BACTERIAL KIDNEY DISEASE IN THE QUILLAYUTE RIVER SYSTEM	1979
	SURVEY OF BACTERIAL KIDNEY DISEASE IN THE QUILLAYUTE RIVER SYSTEM	1980
SANDERS, JIM E.	THE EFFECTS OF TEMPERATURE ON THE PROCESS OF BACTERIAL KIDNEY DISEASE IN EXPERIMENTLLY INFECTED JUVENILE COHO SALMON	1972
	EFFECT OF SALT WATER ON BACTERIAL KIDNEY DISEASE IN YEARLING COHO SALMON	1979
WOLD, EINAR	SALMONID SEMEN AS A TRANSMISSION AGENT OF KIDNEY DISEASE	1973
WOOD, JAMES W	KIDNEY DISEASE	1954

LIVER		
HENDRICKS, JERRY D.	POST-MORTEM BILE DAMAGE TO RAINBOW TROUT LIVERS	1976
NANOPHYETUS SALMINCOLA	(TROGLETREMA)	
FARRELL, DR. KEITH	THE SALMON DISEASE FLUKE PAST AND PRESENT	1963
COMBS, BOBBY D.	CONTROL OF TREMATODE CERCARIAE IN HATCHERY WATER SUPPLIES	1962
	AN ELECTRICAL GRID FOR CONTROLLING TREMATODE CERCARIAE IN HATCHERY WATER SUPPLIES	1963
UZMANN, JOSEPH	EXPERIMENTAL EFFECTS OF Nanophyetus salmincola METACERCARIAE IN RAINBOW TROUT	1962
NOCARDIOSIS		
GAYLORD, JR., W.H.	NOCARDIOSIS IN YOUNG SALMON	1957
PARASITE		
FLYNN, JAMES K.	TREATMENT OF A MONOGENTIC TREMATODE RESISTANT TO AN ORANOPHOSPHATE	1979
RED MOUTH		
RUCKER, ROBERT R.	RED MOUTH	1958
THOMPSON, C. KENT	AGGLUTININS TO THE RED MOUTH BACTERIUM IN THE BLOOD STREAM OF RAINBOW TROUT	1976
RESISTANCE		
FLATOW, ROBERT	THE CONTROL OF FISH DISEASE IN THE HATCHERY BY USE OF HIGH RADIATION, MONITORED ULTRA VIOLET AND A NEW FILTER SYSTEM	1970
JOHNSON, K.E.	AN EVALUATION OF TWO RAINBOW TROUT STRAINS FOR RESISTANCE TO Ceratomyxa shasta	1972
RESPIRATORY		
KATZ, BOB	RESPIRATORY DISEASES AND THEIR TREATMENT	1971
KLONTZ, GEORGE W. (BILL)	RESPIRATORY DISEASE OF HATCHERY-REARED SALMONIDS	1979
SCOLIOSIS & LORDOSIS		
YASUTAKE, WM. T.	SCOLIOSIS AND LORDOSIS OCCURRING IN SALMONIDS	1969

DISEASE - CONT'D

D	ISEASE - CONT'D		
	SKIN		
	HAWKES, DR. JOYCE A.	THE FINE STRUCTURE OF THE EPIDERMIS AND CHROMATOPHORES OF SALMONID SKIN	1972
	SUNBURN		
	RUCKER, ROBERT R.	DISEASE CONTROL STUDIES	1956
	YASUTAKE, W.T.	A Possible Cause of 'Sunburn' in Fish	1957
	TEMPERATURE		
	ENNIS, ED	ADVANTAGES OF ACCELERATED INCUBATION IN TEMPERATURE CONTROL SYSTEMS AND CONTROL OF LOW TEMPERATURE DISEASE IN DEEP TROUGH'INCUBATION UNITS	1972
	TREATMENTS		
	BOUCK, G.R & D.A. JOHNSON	INHIBITION OF SALTWATER TOLERANCE IN COHO SALMON (Oncorhynchus kisutch) BY DISEASE TREATMENTS	1977
	MORGAN, REGINALD E.	DIQUAT FOR TREATMENT OF COLUMNARIS IN COHO SALMON	1967
	NEALEIGH, GEORGE (BILL)	MALACHITE GREEN TREATMENT FOR HEATH INCUBATORS	1970
	VROMAN, PAUL	PROLONGED FORMALIN TREATMENT FOR FISH PARASITES	1968
	TUBERCULOSIS		
	PARISOT, T.J.	ACID-FAST BACILLUS DISEASE OF FISH, A REVIEW	1957
		CHEMOTHERAPY OF ACID-FAST ORGANISMS OF FISH	1957
	ROSS, A.J.	IDENTIFICATION OF ACID-FAST ORGANISMS ISOLATED FROM FISH	1957
	WESTGARD, RICHARD L.	A TECHNIQUE FOR THE DETECTION OF ACID-FAST ORGANISM IN FISH TISSUES	1958
		A PROGRESS REPORT OF FISH TUBERCULOSIS SURVEY	1959
	VIRUSES		
	AMEND, DONALD F.	A New Virus from Cultus Lake	1967
	GARRISON, ROBER L.	PROGRESS AGAINST VIBRIOSIS IN SALTWATER	1969

REARING AT LINT SLOUGH

1969

DISEASE - CONT'D

VIRUSES - CONT'D

		1974
		1975
GUENTHER, RAYMOND W.	FOOD AS A VECTOR OF THE SOCKEYE SALMON VIRUS DISEASE	1954
		1974
MEAD, ROBERT DR.	A VIRAL EPIZOOTIC AT CULTUR LAKE	1967
MULCAHY, D.M. & J.E. SANDERS	DISTRIBUTION OF FISH VIRUSES IN OREGON	1975
PELNAR, JOHN	FACILITIES USED IN VIRUS DISEASE STUDY AT THE COLEMAN NATIONAL FISH HATCHERY	1960
	PROGRESS REPORT ON THE COLEMAN VIRUS PROBLEM	1961
	PROGRESS REPORT- COLEMAN VIRUS PROBLEM	1962
	PROGRESS REPORT ON THE COLEMAN VIRUS PROBLEM AND FROZEN PELLET FISH FEEDER	1963
	PROGRESS REPORT, COLEMAN VIRUS DISEASE AND AUTOMATIC FISH FEEDER	1964
RUCKER, ROBERT	SUMMARIZING CONTENTS OF A PAPER TITLED, 'A CONTAGIOUS DISEASE OF SALMON POSSIBLY OF VIRUS ORIGIN'	1952
SERVIZI, JAMES A. DR.& DR. R. MEAD DONALD AMEND	USE OF TEMPERATURE TO CONTROL A SALMONID VIRUS DISEASE	1968
TEBBIT, GUY ε JOHN McMICHAEL	THE OCCURENCE AND DISTRIBUTION OF FISH VIRUSES IN ANADROMOUS SALMONID FISHES FROM OREGON	1973
WINGFIELD, W.	CHARACTERIZATION OF THE SOCKEYE SALMON VIRUS	1965
WHIRLING DISEASE		
WALSDORF, WILLIAM J.	WHIRLING DISEASE AT LAHONTAN NATL. FISH HATCHERY	1971
YASUTAKE, WILLIAM T.	OCCURRENCE OF WHIRLING DISEASE OF TROUT IN THE WEST	1966
	GRISCHKOWSKY, ROGER & DIANEGODSEY ELLIOTT GUENTHER, RAYMOND W. HARRELL, LEE W. & MICHAEL H. SCHIEWE MEAD, ROBERT DR. MULCAHY, D.M. & J.E. SANDERS PELNAR, JOHN RUCKER, ROBERT SERVIZI, JAMES A. DR.& DR. R. MEAD DONALD AMEND TEBBIT, GUY & JOHN MCMICHAEL WINGFIELD, W. WHIRLING DISEASE WALSDORF, WILLIAM J.	GRISCHKOWSKY, ROBER & DIANEGODSEY ELLIOTT SOCKEYE SALMON SOCKEYE SALMON VIRUS DISEASE HARRELL, LEE W. & MICHAEL H. SCHIEWE VIBRIOS IN SALMON IN PUGET SOUND MEAD, ROBERT DR. A VIRUS EN SALMON VIRUS DISEASE PELNAR, JOHN FACILITIES USED IN VIRUS DISEASE STUDY AT THE COLEMAN VIRUS PROBLEM PROGRESS REPORT ON THE COLEMAN VIRUS PROBLEM AND FROZEN PELLET FISH FEEDER RUCKER, ROBERT SUMMARIZING CONTENTS OF A PAPER TITLED, 'A CONTAGIOUS DISEASE OF SALMON VIRUS DISEASE RUCKER, ROBERT SUMMARIZING CONTENTS OF A PAPER TITLED, 'A CONTAGIOUS DISEASE OF SALMON DOWNLOAD VIRUS DISEASE OF SALMON VIRUS DISEASE OF SALMON VIRUS DISEASE OF SALMON DOWNLOAD VIRUS DISEASE OF SALMONID FISHES FROM GREGON THE OCCURENCE AND DISTRIBUTION OF FISH VIRUSES IN ANADROMOUS SALMONID FISHES FROM GREGON VIRUS MINGFIELD, W. CHARACTERIZATION OF THE SOCKEYE SALMON VIRUS WHIRLING DISEASE AT LAHONTAN NATL. FISH HATCHERY YASUTAKE, WILLIAM T. OCCURRENCE OF WHIRLING DISEASE OF TROUT IN THE

DISEASE - CONT'D

YOLK RELATED

	HOPLEY, CHARLES W. JR.	THE EFFECT OF EARLY FEEDING ON THE RATE OF YOLK ABSORPTION IN CHINOOK SALMON (Oncorhynchus tshawytscha)	1975
	RUCKER, ROBERT	NOTE FROM 'COAGULATED YOLK CONFERENCE'	1961
	THOMAS, A.E.	EFFECT OF YOLK SAC ABSORPTION ON THE SWIMMING ABILITY OF FALL CHINOOK SALMON	1968
	WOODALL, A.N.	THE RELATIONSHIP OF WATER CHEMISTRY TO THE DEVELOPMENT OF COAGULATED YOLK DISEASE IN CHINOOK SALMON LARVAE	1961
DRUG	S <u>S</u>		
	AMEND, DONALD	IN-VIVO EFFECTS OF FEEDING CERTAIN SULFONAMIDES TO SPRING CHINOOK SALMON - A PROGRESS REPORT	1961
	AMEND, DONALD & JOHN L. FRYER K.S. PILCHER	THE ABSORPTION OF SULFAMETHAZINE BY SPRING CHINOOK SALMON WHEN INCORPORATED IN FISH-MEAT AND OREGON PELLET DIETS	1962
	AMEND, DONALD & JOHN L. FRYER	PRODUCTION TRAILS UTILIZING SULFONAMIDE DRUGS FOR THE CONTROL OF 'COLDWATER DISEASE' IN JUVENILE SILVER SALMON	1963
	EARP, BRIAN	REPORT ON LOW-LEVEL SULFAMETHAZINE PROPHYLAXIS FOR THE CONTROL OF KIDNEY DISEASE	1954
		THE EFFECT OF CERTAIN ANTIBIOTICS ON THE BACTERIUM Cytophaga psychrophila	1957
	KLONTZ, GEORGE W.	F.D.A. CLEARANCE AND REGISTRATION OF DRUGS FOR USE IN FISH CULTURE	1967
	ROMEY, DANIEL B.	THE USE OF BACTROVET (SULFADIMETHOXONE) FOR CONTROL OF FURUNCULOSIS ON ADULT SALMON	1963
		TREATMENT OF SALMON AND STEELHEAD WITH SULFONIMIDES	1964
		THE USE OF SULFONAMIDES AND ANTIBIOTICS ON TWO DISEASES OF ADULT SALMON	1966
	RUCKER, R.R.	THE USE OF DRUGS IN FISH CULTURE	1965
EGG:	<u>S</u>		
	BANKS, JOE L.	METHODS OF HANDLING AND TRANSPORTING GREEN FALL CHINOOK EGGS	1975

EGGS - CONT'D

	CARNES, G. &	PRODUCED TRANSPORTATION TECHNIQUES OF GAMETES	
	W. GRIFFIEON J. STOSS	COLLECTED FROM REMOTE FRESHWATER AND SALTWATER LOCATIONS IN SOUTH EAST ALASKA	1981
	DENTLER, JOHN	EFFICACY OF TWO FUNGICIDES ON EGGS OF CHINOOK SALMON AND SUBSEQUENT EFFECTS ON SALTWATER SURVIVAL	1981
	ELLIS, C.H.	VARIANCES IN SURVIVAL OF SALMON EGGS AS EXPERIENCED BY VARIOUS FIELD PERSONNNEL WHEN USING DELAYED FERTILIZATION TECHNIQUES	1970
	JENSON, J.O.T.	MECHANICAL SHOCK SENSITIVITY, WATER UPTAKE AND DEVELOPMENT OF INTERNAL EGG PRESSURE IN COHO SALMON EGGS	1980
		EFFECT OF TOTAL GAS PRESSURE, TEMPERATURE AND TOTAL WATER HARDNESS ON STEELHEAD EGGS AND ALEVINS	1980
	JOHNSON, A. KEN	RESULTS OF 1970 FALL CHINOOK STORED EGGS SHIPMENT	1970
	POON, DEREK C. A.K. JOHNSON	THE EFFECT OF DELAYED FERTILIZATION ON TRANSPORTED SALMON EGGS	1969
	NOBLE, R.E.& Tom damron Steve fallert	THE VIABILITY OF SILVER SALMON OVA AND SPERM AFTER HOLDING THE KILLED ADULTS FOR VARYING PERIODS OF TIME AS DETERMINED BY HATCHING SUCCESS	1965
	SENN, H.	THE EFFECTS TO OVUM FROM EXTREME ROUGH HANDLING OF ADULT COHO	1965
	SHELDON, RAY	RESULTS OF GRADING COHO SALMON EGGS AT BONNEVILLE HATCHERY	1972
ELE(CTRICAL DIVERSION		
ENIH	BURROWS, ROGER E. ANCEMENT PROJECT	ELECTRICAL DIVERSION OF ADULT SALMON	1965
LIVI II	NOLFILM PROJECT		
	HUMPHREYS, JIM	SMALL SCALE SALMON ENHANCEMENT PROJECTS IN NORTHERN PUGET SOUND	1981
	MACQUARRIE, D.W. & D.D. BAILEY	ADULT RETURNS TO THORNTON CREEK——THE SALMONID ENHANCEMENT PROGRAM'S FIRST JAPANESE—STYLE CHUM SALMON HATCHERY	1980
ENZ'	YMES		
	CROSTON, C.B.	DIGESTIVE ENZYMES OF SALMON	1957
		ENZYME STUDIES AT THE WESTERN FISH NUTRITION LABORATORY	1961

EQUIPMENT

BUZZELL, LARRY & DONALD A. MUSGROVE	A New Egg Sorting Device For Salmon, Trout, And Steelhead Eggs — A Slide Presentation	1974
CAMPBELL, S.L.	MECHANICAL FEEDER, FISH CROWDER, FISH LOADER, AND DISTRIBUTION UNIT, AND NEW SPAWNING EQUIPMENT IN OPERATION AT COLEMAN	1965
CULVER, RAYMOND F.	AN ELECTROFISHER FOR SORTING ADULT SALMON AND STEELHEAD	1974
CUNNINGHAM, DONALD	THE PACO FISH PUMP	1970
FLATOW, ROBERT	HIGH VOLUME AND ECONOMIC, ULTRA-VIOLET WATER PURIFICATION AND FILTRATION UNITS FOR HATCHERIES	1971
FOX, CECIL L.	THE FISH SORTING FACILITY AT COWLITZ TROUT HATCHERY	1968
HARRIS, BILL	STANDARD DESIGN LIBERATION TANK CUTS COSTS	1971
JENSEN, C.C.	PROGRESS REPORT ON AUTOMATION AT OREGON STATE GAME COMMISSION HATCHERIES	1960
LEACH, JAMES G.	THE PACO FISH TRANSFER PUMP	1969
MCCLARY, DENNY	DEVELOPMENT AND USE OF AN EGG COUNTER	1967
MCKEE, T.B.	MALACHITE GREEN EQUIPMENT	1957
MOORE, KEITH	A LARGE VOLUME MALACHITE GREEN DISPENSER	1966
MORTON, K.E.	FACTORS INFLUENCING THE EFFICIENT OPERATION OF THE MORTON FISH GRADER	1955
	Notes on Improvements for the Morton Fish Grader	1957
	A PRELIMINARY REPORT ON A NEW MULTIPURPOSE FISH MOVING MACHINE	1963
*	THE MONSTER IMPROVED - DOES GRADING PAY	1964
	MORTONS MONSTER IN ACTION	1968
RAYNER, JOHN	FISH GRADER	1954
SMALLEY, GEORGE V.	MULTIPLE USE LIBERATION AND WEIGH-OUT TANKS	1966
SMITH, ROBERT R. & MAX E. LARSON	DESIGN AND USE OF EQUIPMENT TO FEED EXPERIMENTAL DIETS CONTAINING TOXIC MATERIALS TO SMALL LOTS OF FISH	1962
SWEIGBERG. JIM	INSTRUMENTATION FOR HATCHERIES	1961

EQ	UIPMENT - CONT'D		
	TAYLOR, W.G.	AUTOMATED FISH DISPATCHER	1965
		PHOTOELECTRIC EGG SORTER	1967
	VROMAN, PAUL	ADJUSTABLE FRY GRADER	1962
	WOLD, EINAR	EVALUATION OF ADULT STEELHEAD SORTING EQUIPMENT AND AIR SPAWNING AT DWORSHAK NATIONAL FISH HATCHERY	1971
	VAN GALLEN, NEIL	DISSERTATION ON A MECHANICAL EGG PICKER	1972
EV	ALUATIONS STUDIES		
	ARP, ARTHUR H.	COST ACCOUNTING OF SALMON PRODUCTION IN COLUMBIA RIVER HATCHERY EVALUATION STUDY	1969
	FELDMANN, GARY	THE EFFECT OF ACCELERATED GROWTH AND EARLY RELEASE ON THE TIMING, SIZE, AND NUMBER OF RETURNS OF COHO SALMON (Oncorhynchus kisutch)	1974
	FELDMANN, GARY & MARTIN FIGG	THE EFFECT OF ACCELERATED GROWTH AND EARLY RELEASE ON TIMING, SIZE AND NUMBERS OF RETURN OF QUINAULT SOCKEYE SALMON	1975
	FOSTER, ROBERT W.	HATCHERY EVALUATIONS - WDF STYLE	1979
	JOHANSEN, JOHN M.	INDEXES OF EVALUATING A TROUT HATCHERY SYSTEM	1965
		ANALYSIS OF HATCHERY PERFORMANCE BASED ON INDEXES OF EVALUATION WITH COMMENTS ON THE INFLUENCE OF MORTALITY	1966
	KINCAID, HAROLD L.	PROGRESS OF STRAIN EVALUATION STUDIES	1977
	PERRY, TED	HATCHERY EVALUATION IN BRITISH COLUMBIA	1979
	RAYNER, JOHN	SALMON PROPAGATION COST IN TERMS OF CATCH OF ADULT FISH OF HATCHERY ORIGIN	1958
	ROLEY, SHEILA EAGAN	THE EFFECTS OF PARENTAL AGE—CROSS ON THE CONTRIBUTION OF CHINOOK SALMON TO THE WASHINGTON FISHERY	1975
	VREELAND, ROBERT R.	ECONOMIC CONTRIBUTION OF 1965-1966 BROOD COLUMBIA RIVER HATCHERY COHO SALMON	1972
		SO YOU WANT TO CONDUCT AN EVALUATION STUDY ?	1979

EXPERIMENTS - GENERAL DIET

CALIFORNIA DEPARTMENT OF FISH AND GAME

WOLF, HAROLD	1950 CALIFORNIA DEPARTMENT OF FISH AND GAME NUTRITION PROGRESS REPORT	1950
	DIET WORK	1951
FISH AND WILDLIFE SERVI	<u>CE</u>	
BAKER, H.W. JR.	FEEDING EXPERIMENTS WITH CUTTHROAT TROUT	1956
	CUTTHROAT FEEDING EXPERIMENT LOT 7-CT	1957
BIGEJ, RICHARD G.	A PROGRESS REPORT ON THE 1961 DIET TRIALS	1961
BURROWS, ROGER E.	FEEDING TRIALS WITH BLUEBACK SALMON FIRST EXPERIMENT	1950
	FEEDING TRIALS WITH BLUEBACK SALMON SECOND EXPERIMENT	1950
CANNADY, BRUCE	DIET TRIALS - FALL CHINOOK SALMON	1951
COMBS, B.D.	RESULTS OF 1954 FEEDING TRIALS	1954
	AN EVALUATION OF BOUND DIETS	1956
FOWLER, LAURIE G.	1962 FEEDING TRIALS, SALMON-CULTURAL LABORATORY	1962
	1963 FEEDING TRIALS, SALMON-CULTURAL LABORATORY	1963
	NUTRITIONAL STUDIES AT ABERNATHY SALMON- CULTURAL LABORATORY	1964
HALVER, JOHN E.	1950 PROGRESS REPORT, NUTRITIONAL REQUIREMENTS OF CHINOOK AND BLUEBACK SALMON	1950
JOHNSON, HARLAN E.	1950 COLEMAN HATCHERY PRODUCTION DIET DORENA DAM EXPERIMENTAL HATCHERY	1950
	ALL-MEAL DIETS FOR CHINOCK SALMON	1954
NEWMAN, H. WILLIAM	SUMMARY OF FEEDING TRIALS	1952
PARVIN, J.R.	A Possible Diet Problem at the Eagle Creek Fish Cultural Station	1957
	1960 DIET TEST ON SILVER SALMON AT THE EAGLE CREEK NATIONAL FISH HATCHERY	1960

EXPERIMENTS - GENERAL DIET CONT'D

FISH AND WILDLIFE - CONT	r'D	
STANDSBY, MAURICE E.	1950 PROGRESS REPORT, COLLECTION, PROCESSING, AND ANALYSIS OF LEAVENWORTH HATCHERY DIET INGREDIENTS AND ALASKA SALMON VISCERA AND EGGS	1950
WOODALL, A.N.	EVALUATION OF FEEDING TRIALS	1957
IDAHO DEPARTMENT OF FISH	1 AND GAME	
CUPLIN, PAUL	IDAHO PRODUCTION DIET TESTS	1963
	IDAHO PRODUCTION DIET TESTS	1964
	IDAHO PRODUCTION DIET TESTS	1965
	IDAHO PRODUCTION DIET TESTS	1966
	IDAHO PRODUCTION DIET TESTS	1967
DREGON FISH COMMISSION A	AND OREGON STATE UNIVERSITY	
HUBLOU, WALLACE F.	MARION FORKS FIRST FEEDING EXPERIMENT	1951
	MARION FORKS SECOND FEEDING EXPERIMENT	1951
	NOTES ON THE EXPERIMENTAL FEEDING PROGRAMS AT THE MARION FORKS LABORATORY DURING 1952	1952
	1954 NUTRITIONAL STUDIES AT SANDY, OREGON	1954
	PRODUCTION TYPE DIET EXPERIMENT, SANDY	1955
	A PROGRESS REPORT ON PRODUCTION DIET EXPERIMENT	S 1957
	PROGRESS REPORT ON NUTRITION RESEARCH	1958
JEFFRIES, ERNEST R.	EXPERIMENTAL DESIGN 1949 AND 1950 FEEDING TRIALS	1950
	1950 FEEDING EXPERIMENTS	1951
	WORK DONE BY THE OREGON FISH COMMISSION AT THE SANDY LABORATORY DURING 1952	1952
LAW, DUNCAN	RANCID DIET STUDIES, CONT'D	1959
	STUDIES ON COTTONSEED OIL MEAL SUBSTITUTES, BINDERS AND A MODIFIED VITAMIN MIX	1963
MCKEE, THOMAS B.	FIRST FEEDING EXPERIMENT, SEPTEMBER 15, 1949 -	1050

MARCH 15, 1950

1950

EXPERIMENTS - GENERAL DIET CONT'D

MCKEE, THOMAS B. CONT'D SECOND FEEDING EXPERIMENT, AUGUST 1, 1950 – FEBRUARY 27, 1951 1951 FEEDING EXPERIMENTS SANDY TANK TYPE EXPERIMENTAL DIET PROGRAM A PROGRESS REPORT RANCID DIET STUDIES MCKERNAN, DON 1950 OREGON FISH COMMISSION NUTRITION RESEARCH PROGRESS REPORT SINNHUBER, RUSSELL O. 1950 NUTRITION RESEARCH PROGRESS REPORT WALLIS, JOE DIET STUDIES AT OAKRIDGE WOOD, J. 1954 NUTRITIONAL STUDIES – OAKRIDGE LABORATORY OREGON GAME COMMISSION RAYNER, JOHN 1950 OREGON GAME COMMISSION NUTRITION PROGRESS REPORT WASHINGTON DEPARTMENT OF FISHERIES COATES, JOHN A. FEEDING EXPERIMENTS PROGRESS REPORT ON DIET EXPERIMENTS WITH SALMON ELLIS, C.H. 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1950 1951 1955 1959 1950 1955 1954
SANDY TANK TYPE EXPERIMENTAL DIET PROGRAM A PROGRESS REPORT RANCID DIET STUDIES MCKERNAN, DON 1950 OREGON FISH COMMISSION NUTRITION RESEARCH PROGRESS REPORT SINNHUBER, RUSSELL O. 1950 NUTRITION RESEARCH PROGRESS REPORT WALLIS, JOE DIET STUDIES AT OAKRIDGE WOOD, J. 1954 NUTRITIONAL STUDIES - OAKRIDGE LABORATORY OREGON GAME COMMISSION RAYNER, JOHN 1950 OREGON GAME COMMISSION NUTRITION PROGRESS REPORT WASHINGTON DEPARTMENT OF FISHERIES COATES, JOHN A. FEEDING EXPERIMENTS PROGRESS REPORT ON DIET EXPERIMENT WITH SALMON ELLIS, C.H. 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1955 1959 1950 1950 1955 1954
A PROGRESS REPORT RANCID DIET STUDIES MCKERNAN, DON 1950 OREGON FISH COMMISSION NUTRITION RESEARCH PROGRESS REPORT SINNHUBER, RUSSELL O. 1950 NUTRITION RESEARCH PROGRESS REPORT WALLIS, JOE DIET STUDIES AT OAKRIDGE WOOD, J. 1954 NUTRITIONAL STUDIES - OAKRIDGE LABORATORY OREGON GAME COMMISSION RAYNER, JOHN 1950 OREGON GAME COMMISSION NUTRITION PROGRESS REPORT WASHINGTON DEPARTMENT OF FISHERIES COATES, JOHN A. FEEDING EXPERIMENTS PROGRESS REPORT ON DIET EXPERIMENT WITH SALMON ELLIS, C.H. 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1959 1950 1950 1955 1954
McKERNAN, DON 1950 OREGON FISH COMMISSION NUTRITION RESEARCH PROGRESS REPORT SINNHUBER, RUSSELL O. 1950 NUTRITION RESEARCH PROGRESS REPORT WALLIS, JOE DIET STUDIES AT OAKRIDGE WOOD, J. 1954 NUTRITIONAL STUDIES - OAKRIDGE LABORATORY OREGON GAME COMMISSION RAYNER, JOHN 1950 OREGON GAME COMMISSION NUTRITION PROGRESS REPORT WASHINGTON DEPARTMENT OF FISHERIES COATES, JOHN A. FEEDING EXPERIMENTS PROGRESS REPORT ON DIET EXPERIMENTS WITH SALMON ELLIS, C.H. 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1950 1950 1955 1954
PROGRESS REPORT SINNHUBER, RUSSELL D. 1950 NUTRITION RESEARCH PROGRESS REPORT WALLIS, JOE DIET STUDIES AT OAKRIDGE WOOD, J. 1954 NUTRITIONAL STUDIES - OAKRIDGE LABORATORY OREGON GAME COMMISSION RAYNER, JOHN 1950 OREGON GAME COMMISSION NUTRITION PROGRESS REPORT WASHINGTON DEPARTMENT OF FISHERIES COATES, JOHN A. FEEDING EXPERIMENTS PROGRESS REPORT ON DIET EXPERIMENTS WITH SALMON ELLIS, C.H. 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1950 1955 1954
WALLIS, JOE WOOD, J. 1954 NUTRITIONAL STUDIES - OAKRIDGE LABORATORY OREGON GAME COMMISSION RAYNER, JOHN 1950 OREGON GAME COMMISSION NUTRITION PROGRESS REPORT WASHINGTON DEPARTMENT OF FISHERIES COATES, JOHN A. FEEDING EXPERIMENTS PROGRESS REPORT ON DIET EXPERIMENTS WITH SALMON ELLIS, C.H. 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1955 1954
WOOD, J. 1954 NUTRITIONAL STUDIES - OAKRIDGE LABORATORY OREGON GAME COMMISSION RAYNER, JOHN 1950 OREGON GAME COMMISSION NUTRITION PROGRESS REPORT WASHINGTON DEPARTMENT OF FISHERIES COATES, JOHN A. FEEDING EXPERIMENTS PROGRESS REPORT ON DIET EXPERIMENTS WITH SALMON ELLIS, C.H. 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1954
OREGON GAME COMMISSION RAYNER, JOHN 1950 OREGON GAME COMMISSION NUTRITION PROGRESS REPORT WASHINGTON DEPARTMENT OF FISHERIES COATES, JOHN A. FEEDING EXPERIMENTS PROGRESS REPORT ON DIET EXPERIMENTS WITH SALMON ELLIS, C.H. 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	
RAYNER, JOHN 1950 OREGON GAME COMMISSION NUTRITION PROGRESS REPORT WASHINGTON DEPARTMENT OF FISHERIES COATES, JOHN A. FEEDING EXPERIMENTS PROGRESS REPORT ON DIET EXPERIMENTS WITH SALMON ELLIS, C.H. 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1950
REPORT WASHINGTON DEPARTMENT OF FISHERIES COATES, JOHN A. FEEDING EXPERIMENTS PROGRESS REPORT ON DIET EXPERIMENTS WITH SALMON ELLIS, C.H. 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1950
COATES, JOHN A. FEEDING EXPERIMENTS PROGRESS REPORT ON DIET EXPERIMENTS WITH SALMON 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	
PROGRESS REPORT ON DIET EXPERIMENTS WITH SALMON 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	
ELLIS, C.H. 1950 KALAMA RIVER HATCHERY DIET EXPERIMENT PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1954
PROGRESS BRIEFS ON EXPERIMENTAL DIETS WITH SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1956
SALMON OF THE 1950 BROOD 1952 FEEDING EXPERIMENTS AT KLICKITAT HATCHERY WITH 1951 BROOD STOCK	1950
1951 BROOD STOCK	1951
WASHINGTON DEPARTMENT OF GAME	1952
MILLENBACH, CLIFF NUTRITIONAL PROBLEMS	1951
Washington State Game Department - Feeding Program	1952
FEEDING EXPERIMENTS	
BANKS, JOE L. COMPARATIVE RESPONSE OF CHINOOK AND STEELHEAD TO VARIATIONS IN THE ABERNATHY DRY DIET	*
ROMEY, DAN SPRING CHINOOK ENERGY STORES STUDY	1970

GENERAL EXPERIMENTS

	HUNTER, GEORGE A. &	EXPERIMENTAL PRODUCTION OF ALL FEMALE AND STERILE GROUPS OF COHO SALMON (Oneorhynchus kisutch)	1980
	JOHNSON, HARLAN E.	RESULTS OF EXPERIMENTS AT THE DORENA DAM EXPERIMENTAL LABORATORY	1952
FER	TILIZERS		
	DONALDSON, JACK	GROWTH REPONSE OF TROUT TO LAKE FERTILIZERS	1956
FIS	H CULTURE		
	ALLEE, BRIAN J.	ARTIFICIAL PROPAGATION OF QUINAULT SOCKEYE SALMON	1973
	BAUER, JERRY A.	WHAT HAS ARTIFICIAL PROPAGATION DONE FOR THE UMPQUA RIVER PROGRAM	1968
	BROCK, GERALD R.	FEASIBILITY OF STRIPED BASS (Morone saxatilis) CULTURE IN WELL WATER AT CORVALLIS, OREGON	1976
	BROCK, IRVIN R.	DEVELOPMENT OF A SHELFISH CULTURE PROGRAM IN ALASKA: EGG TAKE TO FED FRY RELEASE	1979
	DONALDSON, DR. LAUREN	RECENT DEVELOPMENT IN FISH CULTURE IN ICELAND, NORWAY, SCOTLAND, AND ENGLAND	1977
	DONALDSON, JACK R.	THE POSSIBILITIES FOR CULTURING CRAY FISH	1971
	GRAYBILL, JIM	FISH CULTURAL PROGRAM AT MT. HOOD COMMUNITY COLLEGE	1973
	HAGEN, WILLIAM JR.	THE CONTRIBUTION OF HATCHERIES TO ANGLING	1961
	KLONTZ, GEORGE W.	A PHILOSOPHY FISH CULTURE	1975
	NEILSEN, JAMES R.	RAISING CATFISH IN OREGON FARM PONDS	1970
	PERRY, L. EDWARD	ARTIFICIAL PROPAGATION IN THE COLUMBIA BASIN	1976
	REID, DAVID A.	WASTE HEAT UTILIZATION IN FISH CULTURE FACILITIES	1980
	REISENBICHLER, REGINALD R.	POTENTIAL IMPACT OF ARTIFICIAL PROPAGATIONS OF ANADROMOUS SALMONIDS ON WILD POPULATION	1976
	SMALLEY, GEORGE	PRODUCTION RECORD OF KLASKANINE HATCHERY	1963
	VROMAN, P.	CONTRIBUTION OF THE ALSEA HATCHERY TO THE STEELHEAD FISHERY OF THE ALSEA RIVER	1965
	WAGNER, HARRY H.	THE CONTRIBUTION OF HATCHERY-REARED STEELHEAD TROUT TO THE SPORT FISHERY ON THREE OREGON RIVERS	196

FISH CULTURE - CONT'D		
WHITE, R.	KLASKANINE RIVER COHO PRODUCTION	1965
FISH PRODUCTION		
ARP, ARTHUR H.	Successful Propagation of Coho Salmon in an Upper Columbia River Hatchery	1969
BAILEY, JACK E.	PINK SALMON FRY PRODUCTION IN ALASKA	1972
BURROWS, ROGER E.	ADULT RETURNS OF SALMON REARED IN REUSE AND SINGLE-PASS WATER SYSTEMS	1970
HOLWAY, JAMIESON E.	TRANSFERING MODERN ADVANCES IN TROUT CULTURE TO COHO SALMON	1975
HUBLOU, WALLACE F. & JONES, IRVING W.	OREGON FISH COMMISION HATCHERY PRODUCTION SUMMARY, 1960-1967 BROOD SALMON AND STEELHEAD	1969
KINCAID, HAROLD L.	COMPARISONS OF RAINBOW TROUT STRAINS IN HATCHERY AND FIELD TESTS	1978
OLSON, PAUL R.	RELATIONSHIP OF FOOD SUPPLY TO FISH PRODUCTION AT FERN LAKE	1967
ROSE, JOE H.	OCEAN CATCH DISTRIBUTION OF FALL CHINOOK AND COHO SALMON PRODUCED IN COLUMBIA RIVER HATCHERIES	1970
WALLIS, JOE	HATCHERY PRODUCTION OF SALMON SMOLTS IN ALASKA	1971
ZIMMER, PAUL	BRIEF COMMENTS REGARDING FALL CHINOOK AND COHO SALMON HATCHERIES EVALUATION STUDIES—COLUMBIA RIVER	1968
FRANCE		
FARMING HARACHE, Y. & A. NOVOTONY	FIRST RESULTS OF COHO SALMON FARMING IN FRANCE	1975
SPAWNING		
HARACHE, Υ. ε Α. NOVOTONY	FIRST SPAWNING OF MATURE CULTURED COHO IN THE REGION OF BRETAGNE (FRANCE)	1975
FRY		
BRANNON, E.L.	THE WEIGHT OF SOCKEYE FRY IN RELATION TO PHYSICAL FACTORS DURING DEVELOPMENT	1963
EMADI, HOSSEIN	YOLK SAC MALFORMATION IN PACIFIC SALMON	1971
SADDLER, JAMES B. & K.V. KOSKI	COMPARATIVE LIPID AND FATTY ACID FEATURES OF PELLET DIETS CURRENTLY USED IN FISHERIES	1970

GENERAL

	BUSCH, ROBERT A.	THE RANGER TROUT RESEARCH PROGRAM	1976
	CLARK, JERRY E.	RELATIONSHIP BETWEEN AQUACULTURAL DEVELOPMENT AND INSTITUTIONAL CHANGE	1978
	DOWNEY, PHILIP C.	RETENTION TIME IN CIRCULATING PONDS	1979
	FOSTER, ROBERT W.	THE MUDDY ROAD HOME OR WHO PUT THIS MOUNTAIN IN MY RIVER	1980
	HALVER, J.E.	ENIGMA IN SEA FISH HUSBANDRY	1969
	HARVEY, DICK	LIVING RIVER	1973
	HUBLOU, WALLACE F.	SUGGESTIONS CONCERNING 'PROCEEDINGS OF THE N.S.F.C.C.'	1967
		PLANNING COMMITTEE REPORT	1968
	HUNTER, CHARLES J.	AN AIRLIFT FLOATING FISH TANK	1975
	IVERSON, RON	RECENT TRENDS IN THE PACIFIC COAST ANADROMOUS FISH PROGRAM	1980
	JOHNSON, C.L. & K. OSHIMA A. GORBMAN	FISH CAN SMELL SALT	1967
	KLONTZ, GEORGE W. (BILL)	To Transfer or Not Transfer That is The Question	1972
		PRODUCTION VERSUS PRODUCT: A PARADOX ?	1974
		A METHOD OF POND INVENTORYING	1979
	MORNING, JOHN R.	MOVEMENTS AND ANGLER CATCHES OF TWO STRAINS OF HATCHERY-REARED RAINBOW TROUT IN A SMALL OREGON STREAM	1975
	NORMAN, FRED	VOLUNTEER HELP AS A MEANS TO AN END	1981
	PIGGOTT, ROY K.	THE ELWHA CHANNEL	1975
	ROMEY, DAN & ORVILLE DAHRENS	SOME COMPARISONS OF NATURAL AND ARTIFICALLY REARED JUVENILE SPRING CHINOOK SALMON	1970
,	SOWARDS, CHARLES	STUDENT PROJECTS AS A SOURCE OF INTERESTING AND USEFUL INFORMATION	1971
	STROUD, RICHARD K. ε GEORGE W. KLONTZ	FISH HEALTH AND VETERINARY PRACTICE ACTS	1974
	TODD, NEIL	FRASER VALLEY TROUT HATCHERY-BRITISH COLUMBIA'S FIRST HATCHERY USING A RECIRCULATION SYSTEM	1977

GENETIC

	HUNTER, GEORGE A. & EDWARD M. DONALDSON EDTONE T. STONE		1981
	MCCORMICK, J. HOWARD	SEX RATIC CONTROL IN HATCHERY-REARED RUNS OF CHINOOK SALMON (0. tschawytscha)	1962
		SEX-RATIO CONTROL IN HATCHERY-PROPAGATED RUNS OF CHINOOK SALMON (PROGRESS REPORT)	1963
	MCINTYRE, JOHN D. & A. KENNETH JOHNSON	PROGRESS OF COHO SALMON GENETIC STUDIES AT BIG CREEK	1973
		SELECTING TO INCREASE YIELD OF BIG CREEK COHO SALMON	1977
GRA	VEL SIZE		
	PHILLIPS, ROBERT W.	THE INFLUENCE OF GRAVEL SIZE ON SURVIVAL TO EMERGENCE OF COHO SALMON AND STEELHEAD TROUT	1964
GRO	WTH RATES		
	BILTON, H.T.	THE INFLUENCE OF OCEAN AGE OF PARENTS ON FRESHWATER GROWTH OF STEELHEAD PROGENY	1980
	BRANNON, E.L. & L.A. DONALDSON	University of Washington Accelerated Coho	1979
	FAGERLUND, U.H.M. & J.R. McBRIDE	POTENTIAL FOR SEX STEROIDS AS GROWTH PROMOTERS	1974
	FELDMANN, GARY & MARTIN FIGG	GROWTH RATE DIFFERENCE IN SUBPOPULATIONS OF QUINAULT SOCKEYE SALMON	1976
	FOCHT, RICHARD	PREDICTING THE SIZE - RELATED GROWTH POTENTIAL OF KAMLOOPS TROUT IN AN EQUACULTURE SYSTEM	1979
	HAWKES, CLIFFORD L.	A PHOTOGRAPHIC METHOD FOR PRECISE GROWTH MEASUREMENT OF LIVE UNANESTHETIZED FISH	1972
	HERSHBERGER, W.K.	GROWTH AND DEVELOPMENT IN YOUNG CHINOOK SALMON DERIVED FROM INTER YEAR-CLASS CROSSES	1974
	IWAMA, GEORGE Κ. ε ARTHUR F. TAUTZ	A SIMPLE GROWTH MODEL FOR HATCHERY SALMONIDS	1979
	LAW, DUNCAN K. & JOHN W. WESTGATE DAVID A. LEITH	GROWTH RESPONSES OF CHINOOK SALMON TO HERRING DIL OF VARIOUS QUALITIES	1976
	MAHNKEN, CONRAD V.W.	THE SIZE OF COHO SALMON AND TIME OF ENTRY INTO SEA WATER: PART 1 EFFECTS ON GROWTH AND CONDITION INDEX	1973

GROWTH RATES

	McNAIL, JOHN	Programming Fish Growth	1977
	SUSAC, JOHN K.	GROWTH ACCELERATION IN A COLD WATER HATCHERY	1962
H	HATCHERIES .		
	AINSWORTH, B.D. JR.	PROGRESS REPORT ON RAPID RIVER SALMON HATCHERY	1968
	BJORNN, TED	THE ROLE OF HATCHERIES: THE FUTURE OF SNAKE RIVER SALMON AND STEELHEAD RUNS	1976
	BRUHN, DAVID	HAGERMAN, IDAHO NATIONAL FISH HATCHERY AS A STEELHEAD HATCHERY	1979
	CHAPMAN, PATRICK F.	McCall Summer Chinook Salmon Hatchery	1981
	CULVER, RAYMOND F.	A PREVIEW OF THE COLE RIVER HATCHERY	1972
	DONALDSON, DR. LAURE	EN CHUM SALMON HATCHERIES OF JAPAN	1972
		THE PACIFIC SALMON HATCHERY PROGRAM OF THE U.S.S.R.	1978
	FOX, CECIL L.	WISCONSIN'S BAY FIELD HATCHERY UTILITIES SOME NEW TECHNIQUES	1973
	HANSEN, RICHARD J.	HATCHERY EFFLUENT STANDARDS IN CALIFORNIA	1973
	HULL, MARVIN	PROGRESS ? REPORT ON SUMMER-RUN STEELHEAD AT SKAMANIA HATCHERY	1974
	KACZYNSKI, VIC ε BOB HAGER JIM WOOD	REDESIGN OF THE PRIEST RAPIDS SALMON HATCHERY	1981
	KLONTZ, G.W. (BILL) J.G. KING	& STATUS OF THE IDAHO FOOD FISH INDUSTRY	1974
	KLONTZ, G.W. (BILL)	TREAT-THINK-AND BE WARY A METHOD OF CONDUCTING A HATCHERY	1977
		HATCHERY SITE SELECTION OR 'WHY DOES IT HAVE TO BE THIS WAY ?'	1981
	MCNEIL, WILLIAM J.	STATUS OF SIMULATED HATCHERIES FOR PINK AND CHUM SALMON	1970
	NELSON, DON	RESUME ON THE REPORT 'COMMERCIAL TROUT HATCHERIES OF SOUTHERN IDAHO'	1973
	OLSON, WAYNE H. &	DWORSHAK NATIONAL FISH HATCHERY PROGRESS REPORT	1976

HATC	HERIES - CONT'D		
	PARNISH, EVAN	RAPID RIVER HATCHERYPROGRESS REPORT	1976
	PARVIN, JOHN R.	A DESCRIPTION OF THE DWORSHAK NATIONAL FISH HATCHERY	1969
		PROGRESS REPORT ON DWORSHAK NATIONAL FISH HATCHERY	1973
	QUIDOR, CHARLES R.	NIAGARA SPRINGS HATCHERY	1967
	RASCH, TONY J.	SOME USES OF HATCH, A HATCHERY SIMULATION MODEL	1974
	REIMERS, PAUL E.	THE FALL CHINOOK PROGRAM AT ELK RIVER HATCHERY	1974
	ROYAL, DR. LOYD A.	POTENTIALLY HARMFUL HATCHERY PRACTICES	1972
	ROMEY, DAN	ANNETTE ISLAND HATCHERY 'OPERATION BROODSTRAP'	1979
	SENN, HARRY	CHUM CULTURE IN JAPAN	1974
	SMITH, MARVIN	HISTORY OF MODERN FISH CULTURE	1970
	SMITH, ROBERT Z.	A PRELIMINARY STUDY INTO THE RECREATIONAL VALUE OF FISH HATCHERIES	1974
	STONE, ELDON T.	A DESCRIPTION OF THE CAPILANO HATCHERY	1972
		DESIGN CONSIDERATION FOR A CHUN AND PINK SALMON HATCHERY AT COLD BAY ALASKA	1977
	TRUCH, W.P.	THE QUIMSAN RIVER FISH HATCHERY	1973
	VREELAND, ROBERT R.	How 'YA GONNA KEEP 'EM HAPPY UP AT THE HATCHERY ONCE THEY'VE SEEN YOUNGS BAY ?	1981
HEM/	ATOLOGY		
	ANDERSON, D.	BASIC HEMATOLOGY FOR FISH CULTURIST	1965
	COATES, JOHN A.	HEMATOPOIETIC EFFECT OF XAMTHOPTERINS AND A 1/100 RATION OF VITAMIN $\rm B_{12}$ TO FOLIC ACID WHEN INJECTED INTO YOUNG ANEMIC CHINOOK SALMON	1951
	CONTE, F.P. & H.H. WAGNER W.L. BRADFORD	BLOOD STUDIES ON STEELHEAD TROUT (Salmo gsirdneri)-1. MEASUREMENT OF BLOOD VOLUME AND PLASMA VOLUME UTILIZING IODINATED ALBUMIN (1131HSA)	1961
	HESSER, E.F.	METHODS OF FISH HEMATOLOGY	1959
		HEMATOLOGY AND FISH DISEASES	1963

HEMATOLOGY - CONT'D

	Mccormick, J. Howard	PERCENTAGE OF SMALL BLOOD CELLS AS AN INDEX TO QUALITY IN FALL CHINOOK FINGERLINGS	1963
	MONTGOMERY, MONTY	HEMATOLOGY EXPERIMENT	1959
	WHITMORE, CECIL M.	SOME OBSERVATIONS IN ANEMIA	1959
		SOME EFFECTS OF HANDLING ON FISH BLOOD VALUES	1963
HE	PATOMA		
	DOLLAR, ALEXANDER M.	COOPERATIVE INVESTIGATIONS OF TROUT HEPATOMA	1961
	HALVER, JOHN E.	CARCINOGENOSIS IN TROUT	1960
	SMITH, CHARLIE E.	AFLATOXICOSIS IN COHO SALMON AND CHANNEL CATFISH	1966
	WALES, JOE H.	USE OF DOMESTICATED RAINBOW, STEELHEAD AND GOLDEN TROUT IN HEPATOMA STUDIES	1,966
HI	STOLOGY		
	ASHLEY, LAWRENCE M.	THE ROLE OF HISTOPATHOLOGY IN FISH NUTRITION STUDIES WITH REMARKS ON TROUT HEPATOMAS	1960
	YASUTAKE, WM. T.	PROGRESS REPORT - HISTOLOGICAL COMPARISON OF SALMONIDS	1954
		COMPARATIVE HISTOLOGICAL STUDIES OF WILD AND HATCHERY SALMONIDS	1956
		HISTOPATHOLOGY OF THE JUVENILE 'WHIRLING' SILVER SALMON	1965
HC	LDING		
	SHELDON, RAY	DROP BACK METHOD FOR SORTING FALL CHINOOK	1970
	SEIMENS, LAIRD	TECHNIQUES FOR THE CAPTURE AND HOLDING OF WILD STEELHEAD IN BRITISH COLUMBIA	1980
HO	MING		
	FREITAG, GARY R.	STRAYING AND HOMING OF TRANSPLANTED DISAPPEARANCE CREEK, ALASKA CHUM SALMON TO BEAVER FALLS HATCHERY, ALASKA	1980
	HEARD, WILLIAM R.	OBSERVATIONS ON HOMING OF COHO SALMON FROM SHORT DISTANCE TRANSPLANTS	1980

HYBRIDIZATION

EVENSON, MIKE & JIM PRIBBLE JIM LICHATOWICH	EXPERIMENTAL CROSSES OF HATCHERY AND WILD STEELHEAD AT COLE RIVERS HATCHERY OREGON	1974
NOBLE, R.	PRELIMINARY RESULTS OF HYBRIDIZING COASTAL AND PUGET SOUND STOCKS OF FALL CHINOOK	1965
	USE OF HYBRIDIZATION AS A MEANS OF ENHANCING SALMON PRODUCTION	1970
	HYBRIDIZATION AND ITS ROLE IN FISH CULTURE	1971
SEIDEL, PAUL R.	EARLY LIFE HISTORY STUDY OF THREE WASHINGTON DEPARTMENT OF FISHERIES COHO SALMON (Oncorphynchus kisutch) POPULATIONS BY INTERRACIAL HYBRIDIZATION	1975
IDENTIFICATION		
MORTON, WILLIAM M.	WHEN IS A SALMON A TROUT OR A CHARR OR VICE VERSA ?	1966
INCUBATIONS (ALL METHODS)		
ALLEE, BRIAN J.	DEVELOPMENT OF GRAVEL INCUBATION HATCHERIES FOR CHUM, PINK AND SOCKEYE SALMON ON THE QUINAULT INDIAN RESERVATION	1972
BAILEY, JACK E.	INCUBATION OF PINK SALMON EGGS IN A SIMULATED INTERTIDAL ENVIRONMENT	1964
BRITTAIN, C.F.	EGG AND FRY CABINET	1956
	EXPERIMENTAL SALMON HATCHING IN FLOATING SCOWS	1958
	EGG AND FRY CABINET TESTSWATER AND AIR TEMPERATURE FLUCTUATIONS	1961
DAVIS, J.P. & D.J. MEERBURG T.R. PORTER	UPWELLING INCUBATION BOXES FOR ATLANTIC SALMON (Salmo salar)	1978
FOSTER, ROBERT W.	MASS INCUBATION AT WDF HATCHERIES	1978
FUSS, HOWARD ε	EVALUATION OF THREE PLASTIC SUBSTRATES IN THE INCUBATION OF CHUM SALMON	1981
	THE USE OF PLASTIC SUBSTRATES IN THE INCUBATION OF COHO SALMON AT A COLD WATER HATCHERY	1981
JENSEN, ANDRE	TEMPERATURE INCUBATION ANALYSIS AT RINGOLD	1968
POON, DEREK C.	GRAVEL INCUBATION HATCHERIES FOR PINK AND CHUM SALMON	1971

LOGGING

CEDERHOLM, C.J.

SUBJECT INDEX INCUBATIONS (ALL METHODS) - CONT'D LARRICK, WALTER D. THE INITIAL PHASES OF AN OPERATING CENTRAL INCUBATION FACILITY IN SOUTH EAST ALASKA 1980 MOORE, KEITH A COMPARISON BETWEEN THE USE OF PLASTIC HATCHING JARS AND STANDARD TROUGHS FOR INCUBATING COHO EGGS 1964 RAYMOND, JAMES A. RESULTS OF A TEST OF A RECIRCULATING SALMON INCUBATOR FOR ALASKAN VILLAGES WITH LIMITED 1981 WATER SUPPLIES ROGERS, BOB FREESTYLE INCUBATORS FOR EYEING EGGS: FALL 1981 1981 SCHONEMAN, DALE E. THE PHYSICAL AND CULTURAL ASPECTS OF THE TEHAMA-COLUSA FISH FACILITIES 1969 PROGRESS ON THE TEHAMA-COLUSA FISH FACILITIES 1971 SENN, HARRY POND TRAYS FOR INCUBATING SALMON EGGS 1970 A CONTROLLED INCUBATION SYSTEM FOR MUILTIPLE SEVERSON, RICHARD CORP SALMONID PRODUCTIONS 1975 SNYDER, BRUCE P. THE USE OF PLASTIC BIO-FILTERS IN HEATH TECNA INCUBATORS AS ARTIFICIAL INCUBTION SUBSTRATE FOR CHUM SALMON ALEVINS 1977 OPERATIONS OF THE ABERNATHY INCUBATION CHANNEL THOMAS, ALLEN E. 1964 ABERNATHY INCUBATION CHANNEL 1965 IODINE JOHNSON, CLARENCE L. IODINE METABOLISM IN ADULT CHINOOK SALMON 1966 WOODALL, A.N. & THE IODIDE REQUIREMENT OF CHINOOK SALMON 1963 GILLES LAROCHE LIGHT BURROWS, ROGER E. THE EFFECT OF CONTROLLED LIGHT ON SEXUAL MATURATION OF ADULT BLUEBACK SALMON 1956 COMBS, BOBBY D. 1955 EFFECT OF LIGHT ON MATURATION THE EFFECT OF CONTROLLED LIGHT ON THE SEXUAL MATURATION OF ADULT BLUEBACK SALMON 1957 EFFECTS OF LIGHT ON MATURATION OF ADULT BLUEBACK 1959 SALMON

THE IMPACTS OF LOGGING ON SALMONID RESOURCES

1977

JACKS

	DONALDSON, LAUREN R.	RETURN OF ZERO-AGE COHO 'JACKS' FROM THE SEA	1970
MAN	AGEMENT		
	GARLICK, LEWIS R.	SOME PRINCIPLES OF HATCHERY FEED ROOM ARRANGEMENT AND MANAGEMENT	1955
	GUNSOLUS, ROBERT T.	ARE WE PROPERLY MANAGING OUR HATCHERY COHO STOCKS ?	1978
	HAGER, ROBERT	MANIPULATION OF COLUMBIA RIVER HATCHERY COHO STOCKS TO MEET THE NEEDS OF FISHERIES MANAGEMENT	1970
	JAMES, MILTON C.	HATCHERY RECORD KEEPING	1959
	KLONTZ, DR. GEORGE W.	THE TEAM	1964
	NAGGIAR, MORRIE	'FOLLOW THE FISH' A SELF-GUIDED TOUR OF BONNEVILLE HATCHERY	1966
	REIMERS, PAUL E.	MEASURING LONG-TERM CHANGES IN THE FALL CHINOOK POPULATION ON ELK RIVER	1977
	SENN, HARRY	THE EVALUATION OF COHO AT TEN PUGET SOUND HATCHERIES	1968
		SUMMARY OF COHO CONTRIBUTIONS FOR PUGET SOUND AND WASHINGTON COASTAL HATCHERIES	1971
	VREELAND, ROBERT R.	SALMON HOMING A MANAGEMENT TOOL ?	1974
MAF	RKING		
	BELL, THOMAS G. & GEORGE A. PADGETT R.K. FARRELL	FREEZE AND LASER MARKING	1970
	BELL, THOMAS G.	LASER AND FREEZE MARKING OF SALMONIDS AND CRUSTACEANS FOR IDENTIFICATION	1971
	CRAWFORD, BRUCE A. & MARK W. CHILCOTE STEVEN A. LEIDER	A STATUS REPORT ON THE EFFECT OF THE USE OF A GENE MARKER ON SURVIVAL IN HATCHERY SUMMER STEELHEAD	1978
	ELLIS, C.H.	PRELIMINARY RETURNS OF MARKED FISH FROM COLUMBIA RIVER BARGING EXPERIMENTS	1 957
		PROGRESS SUMMARY OF WASHINGTON'S HATCHERY EXPERIMENTS	1958
	FARRELL, R. KEITH & LYNN D. WINWARD	THE INTERNATIONAL IDENTIFICATION SYSTEM	1966
	HANKS, DELBERT	PRESENTATION OF THE OREGON DEPARTMENT OF FISH AND WILDLIFE MOBILE MICRO TAGGING UNIT	1977

MARKING - CONT'D	SUBJECT INDEX	
HARACHE, Y.E. & P. LAĞARDE P.PROUZET	AN INTERNAL MAGENTIC TAG FOR SALMON SMOLTS	1977
JEFFERIES, ERNIE	SUMMARY OF A 1956 BROOD SILVER SALMON MARKING EXPERIMENT AT THE KLASKANINE HATCHERY	1959
JOHNSEN, RICHARD C.	MARKING JUVENILE SALMON BY IMMERSION IN DMSO-TETRACYCLINE SOLUTIONS	1966
JOHNS, IRVING	MARKING SALMONIDS WITH TETRACYCLINE ANTIBIOTICS	1964
	TETRACYCLINE MARKING AND THERMAL BRAND STUDIES	1965
	TETRACYCLINE MARKING AND THERMAL BRAND STUDIES— A PROGRESS REPORT	1966
JOHNSON, HARLAN E.	HATCHERY RECOVERIES OF MARKED FALL CHINOOK SALMON	1957
	RECOVERIES OF MARKED ADULT FALL CHINOOK SALMON FROM SPRING CREEK AND LITTLE WHITE SALMON	1959
	RECOVERIES OF MARKED ADULT FALL SALMON AT SPRING CREEK AND LITTLE WHITE SALMON	1960
	RECOVERIES OF MARKED ADULT SALMON RELEASED FROM SPRING CREEK AND LITTLE WHITE SALMON NATIONAL FISH HATCHERIES	1961
	RECOVERIES OF MARKED ADULT SALMON RELEASED FROM SPRING CREEK AND LITTLE WHITE SALMON NATIONAL FISH HATCHERIES	1962
LEEK, STEVE L.	TAGGING PROGRAMS AT SPRING CREEK, WILLARD AND CARSON NATIONAL FISH HATCHERIES	1979
MORTON, K.E.	OBSERVATION AND SPECULATIONS ON FIN EROSION	1973
OLHAUSEN, STEVE K.	COORDINATION OF CODED-WIRE TAGGING ACTIVITIES AT FEDERAL HATCHERIES IN THE COLUMBIA BASIN	1979
PARENTE, BILL	'ZAP!' A PRACTICAL APPLICATION OF THE LASER FOR MARKING FISH	1972
PRIBBLE, HOWARD J. & MICHAEL D. EVENSON JAMES A. LICHATOWICH	PRESSURE SPRAY MARKING OF FISH WITH GRANDULAR DYES	1975
SCHURMAN, GERALD	A New Approach to Fish Identification—The Coded Wire Tagging Trailer	1972
SMITH, ROBERT Z. & STEPHEN L. LEEK	MODIFICATION OF THE CODED-WIRE TAG MARKING PROCEDURE	1975
UTTER, FRED M.	GENETIC MARKING: A UNIQUELY VALUABLE TOOL FOR	

FISH CULTURISTS

1977

MAR	KING - CUNI'D		
	VROMAN, PAUL	FIN CLIPPING - YES OR NO	1976
	WALLIS, JOE E.	MARKED CHINOOK SALMON IN KACHEMAK BAY, ALASKA	1979
	WATSON, ROBERT E.	ELOKOMIN ADULT STEELHEAD TAGGING PROGRAM	1963
	WEBER, DOUGLAS	MARKING OF PACIFIC SALMON WITH TETRACYCLINE ANTIBIOTICS	1965
	WEBER, DOUGLAS & GEORGE RIDGWAY	PROGRESS REPORT ON MARKING OF PACIFIC SALMON WITH TETRACYCLINE ANTIBIOTICS	1962
		PROGRESS REPORT ON MARKING OF PACIFIC SALMON WITH TETRACYCLINE ANTIBIOTICS	1963
	WISHARD, LISA ε JIM SEEB	GENETIC MARKING: ITS USE IN THE EVALUATION OF COHO FRY PLANTS	1977
	WORCHESTER, TOM	A GUILLOTINE FOR THE REMOVAL OF FISH SNOUTS CONTAINING CODED-WIRE-TAGS	1977
MAT	URITY		
	LORZ, HAROLD W.	ATTEMPTS TO CONTROL EARLY MATURATION OF COHO SALMON	1966
	MASTIN, HENRY E.	FACTORS INFLUENCING ABNORMAL EARLY MATURITY OF FEMALE SILVER SALMON OF HATCHERY ORIGIN	1955
MET	TABOLISM		
٠,	SMITH, C.E.	EFFECTS OF NITRITE ON THE BLOOD AND TISSUE OF SALMON AND TROUT	1971
		A PRELIMINARY REPORT ON THE EFFECTS OF METABOLIC PRODUCT ON THE QUALITY OF RAINBOW TROUT	1970
	SMITH, R.R.	HEAD PRODUCED BY LIVING FISH	1968
	WEDEMEYER, GARY	THE STRESS OF FORMALIN TREATMENTS IN TWO SALMONID FISHES	1970
	* .	HANDLING STRESS AND ITS PHYSIOLOGICAL CONSEQUENCES	197
MI	CHIGAN		
	BORGESON, DAVID P.	STATUS OF MICHIGAN'S SALMON PROGRAM	1966
	DURLING, T.B.	PROGRESS REPORT ON THE INTRODUCTION OF COHO SALMON IN THE GREAT LAKES	196
MI	GRATION		
	DECEM MARK	AGE AND SIZE OF STEELHEAD TROUT OUTMIGRANTS FROM	1963

MIGRATION - CONT'D		
LORZ, HAROLD W.	AN EVALUATION OF TECHNIQUES FOR AUGMENTING THE NATURAL PHOTOPERIOD TO ADVANCE THE ONSET OF MIGRATION IN WINTER STEELHEAD	197
NOBLE, R.E.	DOWNSTREALM MIGRATION OF SILVER SALMONTIMING, AGE, SIZE, JACK SILVERS - GROWTH OR INHERITANCE	1958
WAGNER, HARRY H.	THE SEAWARD MIGRATION AND RETURN OF HATCHERY-REARED STEELHEAD TROUT IN A COASTAL STREAM OF OREGON	1960
BRUCE P. SNYDER	J. & THE 1977 MIGRATORY BEHAVIOR OF JUVENILE CHUM SALMON RELEASED FROM THE HOOD CANAL HATCHERY OF HOODSPORT, WASHINGTON	1977
MINERALS		
DONALDSON, LAUREN	R. MINERALS OF IMPORTANCE TO FISH	1954
MINTER CREEK	•	
SALO, ERNIE	MINTER CREEK BIOLOGICAL STATION, WASHINGTON DEPARTMENT OF FISHERIES	1952
OPERATION		
JEFFRIES, ERNEST	FISH CULTURE OPERATIONS AT THE OXBOW-BROWNLEE DAMS ON THE SNAKE RIVER	1961
MORTON, K.E.	NOTES ON WIZARD FALLS HATCHERY OPERATIONS	1961
QUIDOR, CHARLES R	. CONSTRUCTION AND OPERATION OF RAPID RIVER HATCHERY	1964
SHANKS, WARREN E.	FIRST PHASE PILOT PLANT, A PROGRESS REPORT	1960
SMITH, WENDELL	FISH CONSERVATION	1966
WALLIS, JOE	THE FIRE LAKE HATCHERY	1966
WARD, DAVID L.	TRINITY RIVER HATCHERY - CALIFORNIA'S NEW SALMON AND STEELHEAD INSTALLATION	1963
<u>OUT-MIGRATION</u>		
BUCHANAN, DAVID V	. MONITORING SMOLT OUTMIGRATION OF HATCHERY STEELHEAD IN THE WILLAMETTE RIVER SYSTEM	1977
	EFFECTS OF SIZE ON SMOLT OUT-MIGRATION	1979
<u>DXYGEN</u>		
BERNIER, ADRIAN F.	A TEST OF OXYGEN UNDER PRESSURE IN TROUT DISTRIBUTION	1960

DXYGEN - CONT'D		
FERGUSON, GREG &	Oxygen Consumption of Coho Salmon in a Pumped Saltwater Raceway	1975
MAYO, RONALD D.	HATCHERY WATER REQUIREMENTS BASED ON SALMONID OXYGEN DEMAND	1970
MCELWAIN, IVAN B.	THE NEW WATER AERATION SYSTEM AT MESCALERO NATIONAL FISH HATCHERY	1969
<u>PASTEURIZATION</u>		
LAW, DUNCAN	TECHNIQUES IN PASTEURIZATION OF SALMON PRODUCTS	1958
LAW, DUNCAN ε JOHN FRYER	COMMERCIAL PASTEURIZATION OF SALMON VISCERA AND ITS POSSIBLE EFFECTS ON THE INCIDENCE OF FISH TUBERCULOSIS	1961
PITUITARY		
COMBS, BOBBY D.	1955 PITUITARY EXPERIMENT	1955
	A REVIEW OF THE PITUITARY EXPERIMENTS AT THE ENTIAT SALMON CULTURAL LABORATORY	1958
POLLUTION		
CONGLETON, JAMES	L POLLUTION ABATEMENT FOR FISH HATCHERIES	1972
EHINGER, PAUL F.	JR. POLLUTION ABATEMENT TWENTY COLUMBIA RIVER PROGRAM HATCHERIES	1974
SMITH, MARVIN	POLLUTION ABATEMENT FACILITIES AT NATIONAL FISH HATCHERIES	1974
PRODUCTION		
MCINTYRE, JOHN D A. KENNETH JOHN		1974
NOBLE, R.E.	PROGRESS REPORT	1964
QUEIROLO, LEWIS RICHARD S. JOH		1976
STAUFFER, GARY D	. GROWING SALMON BY THE NUMBERS	1972
QUALITY (WATER-FISH)	-	
BURROWS, ROGER E	. CHANGES IN FISH CULTURE NECESSARY TO IMPROVE QUALITY OF CHINOOK FINGERLINGS	1968
CHASE, DEAN L.	PRELIMINARY STUDIES USING SYNTHETIC POLYMERS TO REDUCE TURBIDITY IN A HATCHERY WATER SUPPLY	1971

QUALIGY (WATER-FISH) - CONT'D

RUCKER, ROBERT SHANKS, WARREN HATCHERY WATER QUALITY MONITORING WARREN, JAMES W. SORE BACK OF RAINBOW TROUT: RESULTS OF 1967 FISH QUALITY EXPERIMENTS REARING PONDS AND PENS BELL, G.R. & MORTALITIES OF PEN-REARED SALMON ASSOCIATED W. GRIFFIGEN O. KENNEDY BURROWS, ROGER E. ALTERATIONS IN REARING POND DESIGN A RECTANGULAR-RECIRCULATING REARING POND ENVIRONMENTAL CONDITIONS IN REARING PONDS	1968
WARREN, JAMES W. SORE BACK OF RAINBOW TROUT: RESULTS OF 1967 FISH QUALITY EXPERIMENTS REARING PONDS AND PENS BELL, G.R. & MORTALITIES OF PEN-REARED SALMON ASSOCIATED WITH BLOOMS OF MARINE ALGAE BURROWS, ROGER E. ALTERATIONS IN REARING POND DESIGN A RECTANGULAR-RECIRCULATING REARING POND ENVIRONMENTAL CONDITIONS IN REARING PONDS	1970
FISH QUALITY EXPERIMENTS REARING PONDS AND PENS BELL, G.R. & MORTALITIES OF PEN-REARED SALMON ASSOCIATED WITH BLOOMS OF MARINE ALGAE O. KENNEDY BURROWS, ROGER E. ALTERATIONS IN REARING POND DESIGN A RECTANGULAR-RECIRCULATING REARING POND ENVIRONMENTAL CONDITIONS IN REARING PONDS	1971
BELL, G.R. & MORTALITIES OF PEN-REARED SALMON ASSOCIATED W. GRIFFIDEN O. KENNEDY BURROWS, ROGER E. ALTERATIONS IN REARING POND DESIGN A RECTANGULAR-RECIRCULATING REARING POND ENVIRONMENTAL CONDITIONS IN REARING PONDS	1967
W. GRIFFIOEN O. KENNEDY BURROWS, ROGER E. ALTERATIONS IN REARING POND DESIGN A RECTANGULAR-RECIRCULATING REARING POND ENVIRONMENTAL CONDITIONS IN REARING PONDS	
A RECTANGULAR-RECIRCULATING REARING POND ENVIRONMENTAL CONDITIONS IN REARING PONDS	1974
ENVIRONMENTAL CONDITIONS IN REARING PONDS	1955
	1956
5	1957
ENVIRONMENTAL LIMITATIONS IN REARING PONDS	1958
FACTORS LIMITING PRODUCTION IN REARING PONDS	1959
REARING POND ENVIRONMENTS	1960
CLENDENER, HOMER B. EARTHEN REARING PONDS FOR WINTER STEELHEAD PRODUCTION	1972
GARRSION, ROBERT L. THE GROWTH OF JUVENILE SALMONIDS IN REARING PONDS	1964
GATES, D.H. COMMERCIAL FISH REARING ON CAPE BRETON ISLAND	1975
KING, JOHN L. STEELHEAD FARM PONDS	1961
KOSKI, K, VICTOR PEN REARING OF DR. DONALDSON'S RAINBOW STEEL— S.K. SCHRODER HEAD CROSSES AT BIG BEEF CREEK R.R. ABBOTT E.A. SALO	1970
MARLIAVE, IEFFREY B. A TIDAL PLANKTON ACCUMULATION FOR IN-SITE REARING OF PINK AND CHUM FRY	1980
PRESSEY, R.T. REVIEW OF FISH FARMING IN WASHINGTON STATE	1958
PUTMAN, GEORGE B. THE USE OF PERFORMED PLASTIC CONTAINERS AS REARING CAGES FOR SMALL LOTS OF FISH	1972
SALO, E.O. & REARING OF CHINOOK SALMON AT MANCHESTER R.R. ABBOTT	1970
SALO, E.O. CHINOOK SALMON PEN-REARING PROJECT IN PUGET SOUND	1971

REARING PONDS AND PENS - CONT'D

	SAMS, ROY	REARING OF COHO AND FALL CHINOOK SALMON IN WAHKEENA PONDS	1967
	SCHRODER, S.L.	PEN REARING OF DR. DONALDSON'S RAINBOW STEELHEAD CROSSES AT BIG BEEF CREEK	1970
	SMITH, QUENTIN	RESULTS OF THE FIRST YEAR OPERATION OF A NEW HATCHERY USING BURROWS PONDS	1967
	WESTROPE, ARTHUE E.	FISH HATCHERIES AND REARING FACILITIES IN THE CHAMBERS CREEK BASIN TACOMA, WASHINGTON	1976
REA	RING SYSTEMS		
	ALLEE, BRIAN J.	DEVELOPMENT OF A COHO SALMON (Oncorhychus kisutch) BROODSTOCK HOLDING SYSTEM FOR A COMMERCIAL OCEAN REARING PRC RAM AT OREGON AQUA-FOODS	1980
	HOPLEY, CHARLES W. JR	COWLITZ SPRING CHINOOK REARING DENSITY STUDY	1980
	KOLB, RICHARD	A HISTORY OF THE WASINGTON DEPARTMENT OF FISHERIES PINK SALMON REARING PROGRAM	1975
	SANDERCOCK, F.K. & E.T. STONE	THE EFFECT OF REARING DENSITY ON SUBSEQUENT SURVIVAL OF CAPILANO COHO	1979
	TRUCH, W.P.	A NEW FISH HATCHERY AND REARING FOR THE PROVINCE OF ALBERTA	1972
	VAIL, JA E P.	A STUDY OF THE EFFECTS OF A CENTRIFUGAL WASTEWATER CONCENTRATOR ON FISH HATCHERY REARING WATER	1973
REH	<u> ABILITATION</u>		
	VAN TINE, J.A.	QUINSAM RIVER PINK SALMON REHABILITATION AND STUDIES	1980
RE-	USE SYSTEMS		
	KLONTZ, GEORGE W. (BILL)	RECENT ADVANCES IN BIO-FILTER PERFORMANCE	1978
	LIAO, PAUL B.	FISH HATCHERY WATER RECONDITIONING REUSE SYSTEMS	1972
	OWSLEY, DAVID E.	'FLUIDIZED BEDS'- THE LATEST TECHNOLOGY IN REUSE SYSTEMS	1981
	WILLIAMS, WARREN	BUFFERING REQUIREMENTS IN FISH HATCHERY RECONDITIONING RE-USE SYSTEMS	1972
SAF	ETY		
	BARNABY, J.T.	SAFETY	1958

SAFETY - CONT'D

BITLE, FRED W.	ALARM SYSTEM	1969
SALMON-CULTURAL LABORATORY	, -	
BURROWS, ROGER E.	ENTIAT SALMON CULTURAL LABORATORY	1951
	PROGRAM OF THE ABERNATHY SALMON-CULTURAL LABORATORY	1961
	APPLICATION OF RESEARCH DEVELOPMENTS AT THE SALMON-CULTURAL LABORATORY	1966
SALMON WASTE		
MIYAUCHI, DAVE	SUMMARY OF THE SALMON WASTE COLLECTION REPORT	1951
PIGOTT, GEORGE	PROGRESS REPORT- CONTAINERS FOR SHIPPING OF PRESERVED ALASKA SALMON WASTE	1950
SMOLTIFICATION		
BOUCK, GERALD R. & STANDLEY D. SMITH	MORTALITY OF EXPERIMENTALLY DESCALED COHO SALMON SMOLTS IN FRESHWATER AND IN SEAWATER	1977
CONTE, FRANK P. & HARRY WAGNER T.O. HARRIS	SALINITY ADAPTATION IN STEELHEAD TROUT AND COHO SALMON IN RELATION TO MIGRATION DISPOSITION	1963
FELDMANN, GARY & DAVID SMITH	A PRELIMINARY REPORT ON THE EFFECT OF SIZE AND TIMIN ON GILL ATPASE ACTIVITY OF SOCKEYE SALMON (0. nerka)	NG 1976
FELDMANN, GARY & SHARI CURTRIGHT	PRELIMINARY REPORT ON THE EFFECT OF SIZE AND TIMING ON GILL ATPASE IN QUINAULT SOCKEYE AND STEELHEAD AND QUEETS FALL CHINOOK	1977
FESSLER, JAMES L.	SOME SMOLT CHARACTERISTICES IN SUMMER STEELHEAD	1973
	A SIMPLIFIED PROCEDURE FOR MONITORING (NA + K) ACTIVATED ATPASE IN GILL TISSUE	1975
LORZ, HAROLD W.	THE EFFECT OF TEMPERATURE ON GILL ATPASE ACTIVITY, SALINITY TOLERANCE AND MIGRATION IN WITH STEELHEAD TROUT	1973
	EFFECTS OF COPPER IONS IN FRESHWATER ON GILL ATPASE ACTIVITY, MIGRATION AND SEAWATER ADAPTATION OF JUVENILE COHO SALMON	1975
	EFFECTS OF SELECTED HERBICIDES ON SMOLTING IN COHO SALMON	1980

OWEN, T.G.

RICHARDSON, THOMAS

	SUBJECT INDEX		
SMOLTIFICATION - CONT'D			
WAGNER, HARRY H.	PHOTOPERIOD AND THE PARR-SMOLT METAMORPHASES IN STEELHEAD TROUT	1970	
	PARR-SMOLT TRANSFORMATION IN WINTER STEELHEAD AS AFFECTED BY PHOTOPERIOD AND TEMPERATURE	1 971	
ZAUGG, W.S.	USING GILL ATPASE ACTIVITY TO DETERMINE THE INFLUENCE OF PHOTOPERIOD ON PARR-SMOLT TRANSFORMATION IN STEELHEAD	1971	
	FACTORS WHICH INFLUENCE SMOLT DEVELOPMENT AND ADAPTATION OF SALMONIDS	1975	
ZAUGG, W.S. & L.R. MCLAIN	INFLUENCE OF TEMPERATURE ON GILL ATPASE ACTIVITY IN COHO SALMON	1973	
SPAWNING			
BITLE, FRED W.	RAINBOW TROUT SPAWN TAKING	1961	
BLISS, J.D.	1957 DIAMOND LAKE EGG TAKE	1957	
BRANNON, ERNEST L.	SUCCESS OF ARTIFICIAL INCUBATION FACILITIES AND SPAWNING CHANNELS WITH FRAZIER RIVER SOCKEYE SALMON	1969	
CAMMADY, BRUCE	SPRING CHINOOK SALMON HOLDING AND SPAWNING OPERATIONS	1956	
COSSETTE, B.J.	A HOLDING DEVICE USED WHILE SPAWNING SALMON	1972	
HULL, MARVIN & CHARLES HILTZ	NEW TOOL FOR SPAWNING	1963	
HULL, MARVIN	TESTING EXTENDED DAYLIGHT HOURS WITH TUNGSTEN LIGHT FOR EARLIER SPAWNING OF SUMMER-RUN STEELHEAD	1970	
HURLEY, D.A.	EFFECT OF SPAWNING DENSITY OF SOCKEYE SALMON ON THE NUMBER OF RESULTING FRY	1965	
JOHNSON, A. KENNETH & DON BARRETT	UP, UP, AND AWAY IN A FISH LOCK WITH SPECIAL EMPHASIS ON THE NEW BONNEVILLE SALMON HATCHERY SPAWNING FACILITIES	1975	
KACZYNSKI, VIC W.	CONCEPTUAL REDESIGN OF MID-COLUMBIA SPAWNING CHANNELS TO RACEWAYS	1979	
KNOWLES, VERN	A COMPARISON OF TECHNIQUES FOR SPAWNING STEELHEAD TROUT	1964	

NEW DEVELOPMENTS IN THE PRODUCTION AND USE OF SALMON

1979

1975

PITUITARY EXTRACTS FOR INDUCED SPAWNING

THE TEHAMA-COLUSA SALMON SPAWNING CHANNELS

'A SUMMARY OF THE FIRST FOUR AND ONE-HALF

YEARS OF OPERATION'

FORTUNE, JOHN

SUBJECT INDEX SPAWNING - CONT'D SALO. E.O. € THE UNIVERSITY OF WASHINGTON SPAWNING CHANNEL K.V. KOSKI AT BIG BEEF CREEK 1967 HOLDING AND SPAWNING SPRING CHINOOK IN REDUCED SWARTZ, DON PHOTOPERIODS 1975 WINGFIELD, WILLIAM C. SALINE SPAWNING OF RAINBOW TROUT AT ROARING RIVER HATCHERY 1972 HOLDING SUMMER STEELHEAD ADULTS OVER TO SPAWN A SECOND YEAR 1976 SPERM HORTON, HOWARD F. DR. ADVANCES IN CRYO-PRESERVATION OF SALMONID SPERM 1968 STORAGE OF SALMON SPERM BY CRYOPRESERVATION STOSS, J. & 1981 IAN BAKER EDWARD M. DONALDSON STAMINA BURROWS, ROGER E. EFFECT OF FINGERLING STAMINA ON ADULT SURVIVAL 1964 TUNNEL TESTS OF CHINOOK SALMON FINGERLING COMBS. BOBBY D. 1960 THE USE OF STAMINA AS A MEASURE OF FINGERLING THOMAS. ALLAN E. QUALITY 1962 STEELHEAD WINTER RUN STEELHEAD TROUT RETURNS TO THE ANDERSON, ROBERT D & UNIVERSITY OF WASHINGTON 1971 LAUREN DONALDSON BARGER, LARRY THE BOGACHIEL WINTER STEELHEAD SEMINATURAL 1969 REARING POND REPORT ON THE CAUSE AND TREATMENT MORTALITY CRAWFORD. BRUCE & AT THE WELLS DAM HATCHERY AND AT THE WASHBURN WAYNE BRUNSON 1974 ISLAND REARING POND EWING, R.D. & RELATIONSHIPS BETWEEN SEX, COLORATION AND MIGRATION 1981 TENDENCY IN STEELHEAD TROUT M.C. EVENSON E.K. BIRKS CHANGES IN CHEMICAL COMPOSITION, COEFFICIENT FESSLER, JAMES L. OF CONDISTION AND BODY MORPHIOLOGY ASSOCIATED WITH THE PARR-SMOLT TRANSFORMATION IN STEEL-1981 HEAD TROUT

PROGRESS REPORT ON CONTRIBUTION OF HATCHERY

PRODUCED SUMMER STEELHEAD TO SILETZ RIVER

1971

STE	ELHEAD - CONT'D		
	HULL, MARVIN	PROGRESS WITH SUMMER-RUN STEELHEAD, SKAMANIA HATCHERY	1 9 61
		INCREASED SIZE IN SUMMER RUN STEELHEAD ADULTS	1968
	KLONTZ, G.W. (BILL & LESLIE SCHAEFFER	THE OREGON STEELHEAD DEMONSTRATION PROJECT	1981
	STAUFFER, GARY D.	STEELHEAD REARING IN LAKE QUINAULT	1971
	SWAFFORD, JERRY	PERFORMANCE OF THREE CROSSES OF DESCHUTES SUMMER STEELHEAD AT ROUND BUTTE HATCHERY MADRAS, OREGON	1975
	WAGNER, HARRY H.	How Do Adult Hatchery Steelhead Differ From Wild Ancestors ?	1972
STO	CKING AND LOADING		,
	APPLEBY, ANDY	'78 BROOD GREEN RIVER COHO POND LOADING/SIZE AT RELEASE STUDY	1981
	PIPER, ROBERT G.	An Approach to Establishing a Loading Capacity Formula for Trout Hatcheries	1967
		METHOD OF CALCULATING CARRYING CAPACITIES IN FISH	1971
	WAGNER, HARRY H.	EFFECT OF STOCKING LOCATION OF JUVENILE STEELHEAD TROUT ON ADULT CATCH	1968
SUR	VIVAL		
	BILTON, H.T.	RETURNS OF ADULT COHO SALMON FROM ACCELERATED AND NORMALLY REARED JUVENILES RELEASED FROM ROSEWALL CREEK, BRITISH COLUMBIA	1979
		EFFECTS OF SIZE AND TIME OF JUVENILE RELEASE ON ADULT COHO RETURNS	1980
	BILTON, H.T. & J.A. VAN TINE	THE SECOND B.C. COHO SIZE AND TIME OF RELEASE EXPERIMENT: PRELIMINARY RETURNS TO THE QUINSAM HATCHERY	1981
	BURROWS, ROGER E.	ADULT SURVIVALS OF SALMON REARED UNDER ENVIRONMENTAL CONTROL	1969
	CLEAVER, FRED	SOME EFFECTS OF MARKING CHINOOK SALMON BY FIN CLIPPING	1967
	HORAK, DONALD L.	CAN THE STAMINA TUNNEL BE USED TO PREDICT	1970

SURVIVAL - CONT'D

	LEITH, DAVID A. & JEAN P. LAGASSE ORVILLE F. DAHRENS	EFFECTS OF LIPID NUTRITION ON POST-RELEASED SURVIVAL OF COHO SALMON	1975
	McINTYRE, JOHN D. & A. KENNETH JOHNSON	RELATIVE SURVIVAL OF TWO TRANSFERRING PHENOTYPES IN BIG CREEK COHO SALMON: A PRELIMINARY REPORT	1976
	REIMERS, PAUL E.	SURVIVAL AND CONTRIBUTION OF FALL CHINOOK SALMON FROM ELK RIVER HATCHERY	1979
	SWARTZ, DON	WILLAMETTE RIVER SPRING CHINOOK SURVIVAL STUDY	1971
TEM	PERATURE		
	ADAMS, BRYANT L.	SMOLT CHARACTERISTICS DEPENDENT ON WATER TEMPERATURE	1971
	BANKS, JOE L.	EFFECT ON DIFFERENT REARING TEMPERATURES ON GROWTH OF CHINOOK FINGERLINGS	1969
		CONTROLLED TEMPERATURE REARING OF FALL CHINOOK SLAMON	1973
	BIGEJ, RICHARD G.	THRESHOLD TEMPERATURES FOR THE NORMAL DEVELOPMENT OF BLUEBACK SALMON	1958
	BOUCK, GERALD R. & GARY A. CHAPMAN PHILLIP W. SCHNEIDER DONALD G. STEVENS	EFFECTS OF HOLDING TEMPERATURES ON REPRODUCTIVE DEVELOPMENT IN ADULT SOCKEYE SALMON (Oncorhynchus nerka)	1975
	BURROWS, ROGER E.	EFFECT OF CONTROLLED TEMPERATURES ON SALMON EGGS	1954
		THE EFFECT OF STREAM TEMPERATURE PATTERNS ON THE SURVIVAL OF PINK SALMON EGGS	1955
	CHAPMAN, GARY A.	EFFECTS OF TEMPERATURE DURING A SIMULATED MIGRATION OF ADULT SOCKEYE SALMON (Oncorhynchus nerka)	1967
	COMBS, BOBBY D.	RELATIONSHIP BETWEEN WATER TEMPERATURE AND TIME OF HATCH OF CHINOOK SALMON EGGS	1956
		THE STAGE OF DEVELOPMENT AT WHICH CHINOOK SALMON EGGS CAN WITHSTAND COLD WATER TEMPERATURES	1957
	DONALDSON, JOHN R.	EFFECT OF VARIATION OF TEMPERATURES ON EGGS	1954
	FESSLER, JAMES L.	WATER TEMPERATURE CONTROLS IN EXPERIMENTAL HATCHERY	1967
	FOX, CECIL L.	THE HEATED WATER SYSTEM AT MICH GANS PLATT RIVER HATCHERY	1969

TEMP	PERATURE - CONT'D		
	HOLT, R.A. & J.E. SANDERS	EFFECTS OF WATER TEMPERATURE ON INFECTION OF YOUNG SALMONIDS B CHONDROCOCCUS COLUMNARIS	1973
	HOLWAY, JAMIESON E.	TEMPERATURE UNITS PER INCH OF GAIN PER 30 DAYS (TU/INCH GAIN): ITS SIGNIFICANCE AND USE	1976
	OLSON, P.A.	TEMPERATURES AND COLUMBIA RIVER CHINOOK SALMON EGGS	1958
	SEYMOUR, ALLYN H.	EFFECT OF HIGH CONSTANT TEMPERATURES UPON THE MORTALITY AND GROWTH OF CHINOOK SALMON EGGS, FRY, AND FINGERLINGS	1954
	TRUCH, W.P.	AN UNEXPLAINABLE DECLINE IN GROUNDWATER TEMPERATURES AND ITS CONSEQUENCES AT THE DORION FISH HATCHERY (ONTARIO)	1976
	WAGNER, HARRY H.	AN OBSERVATION OF THE EFFECT OF TEMPERATURE ON PARR-SMOLT TRANSFORMATION IN STEELHEAD TROUT	1969
	WOLD, EINAR	OPTIMUM TEMPERATURE FOR INCUBATING STEELHEAD EGGS	1970
TETE	RACYCLINE		
	JUNGE, CHARLES O. A.K. JOHNSON IRVING JONES	ELECTROCUTING AND TETRACYCLINE MARK SAMPLING OF BIG CREEK HATCHERY COHO RETURNS	1967
TIS	SUE CULTURE		
	FRYER, JOHN & ALEX YUSHA K.S. PILCHER	METHODS FOR THE PREPARATION OF TISSUE CULTURE FROM SALMONID FISHES	1962
	McCAIN, B.	CHARACTERIZATION OF FIVE FISH CELL LINES	1965
TOX	IN AND TOXICITY		
	BAKER, R.J. & M.D. KNITTEL J.L. FRYER	MEASUREMENT OF COPPER STRESS IN SALMONIDS BY INCREASED SUSCEPTIBILITY TO A BACTERIAL INFECTION	1979
	BUCKLEY, JAMES & CECIL M. WHITMORE	SUBLETHAL EFFECTS OF WEST POINT TREATMENT PLANT EFFLUENT ON COHO SALMON	1974
	HENDRICKS, JERRY D.	A NATURALLY OCCURING TOXIN AND CARCINOGEN IN COTTONSEED PRODUCTS	1977
	SCHNEIDER, PHILLIP JR.	CADMIUM TOXICITY	1970
	SMITH, CHARLIE E.	STUDIES ON NITRITE TOXICITY IN RAINBOW TROUT	1973
	WILLIAMS, WARREN	NITRITE TOXICITY IN TROUT HELD IN WATER REUSE SYSTEMS	1971

TOXIN AND TOXICITY - CONT'D

WESTGARD, RICHARD L.	THE PRODUCTION OF A FISH TOXIN IN HATCHERY REARING PONDS	1966
TRANSPORTATION		
BITLE, FRED W.	TRANSPORTATION OF FISH-PLASTIC BAGS WITH OXYGEN	1960
HELMS, BILL	(PRESENTED BY RALPH GARBUTT) AERIAL FISH DROP EXPERIMENTS	1961
HORTON, HOWARD F.	THE EFFECTS OF TIME, DENSITY, MOTION AND STARVATION ON THE SURVIVAL OF TRANSPORTED TROUT	1964
JOHNSON, BARNEY W.	TRANSPORTATION OF FRESHLY SPAWNED, FERTILIZED PINK SALMON EGGS BY AIR	1954
KOSKI, R.O.	RECENT DEVELOPMENTS IN FISH TRANSPORTATION IN OREGON	1961
TRAPS		
WARD, DAVID	A NEW TYPE FISH TRAPPING FACILITY	1958
VACCINATION		
NOVOTNY, ANTHONY J.	THE SIZE OF COHO SALMON AND TIME OF ENTRY INTO SEA WATER: PART 2 EFFECTS OF VIBRIO VACCINATION	1973
JOHNSON, KEITH A.	TEST FOR ANTIGENIC INTERRFERENCE WITH HIVAX* Vibrio anguillarum and Removax* ERM Combination Bacterins For Immersion Vaccincation OF FALL CHINOOK SALMON AND RAINBOW TROUT	1979
JOHN, KEITH A.	EVALUATION OF AN EXPERIMENTAL Aeromonas salmonida VACCINE	1980
WASTE.		
LEITH, DAVID A.	Waste Discharges From Representative Salmon Culturing Facilities in Oregon	1976
LEONARD, DENNIS W.	NATURAL ZEOLITES IN FISH CULTURE	1978
LIAO, PAUL B.	AMMONIA PRODUCTION RATIOAND ITS APPLICATION TO FISH CULTURE SYSTEMS PLANNING AND DESIGNS	1974
WASTE-HEAT		
TRUCH, W.P.	POTENTIAL FISH-CULTURE APPLICATION FROM THE USE OF WASTE HEAT	1977
WALTERS, KENNETH W.	WASTE HEAT AQUACULTURE	1977

WATER

	FLATOW, ROBERT E.	UPDATING ULTRA-VIOLET LIGHT WATER PURIFICATION	1972
	JOHNSON, CLARENCE BRACKISH	WATER ENVIRONMENT FOR RAISING FISH	1972
	KOLB, RICHARD	SETTLING OF WATER BORNE SOLIDS USING READILY AVAILABLE MATERIALS	1981
	MATTSON, CHESTER R.	DEVELOPMENT OF GROUND WATER FOR SALMON ENHANCEMENT CHANNELS	1979
	McLEAN, W.E. & A. BOREHAM	AERATION OF HATCHERY WATER SUPPLIES	1980
	WOLD, EINAR	MONITORING THE EFFICIENCY OF WATER RECONDITIONING PRETREATMENT FACILITIES WITH BIOASSAY TECHNIQUES	1972
HEAT	TED WATER		
	BROCK, IRVIN R.	UTILIZATION OF 'WASTE' HEAT FOR A FISH HATCHERY IN INFERIOR ALASKA	1980
	KEPSHIRE, BERNARD	GROWTH OF PINK CHUM AND CHINOOK SALMON IN HEATED WATER	1971
	MORTON, K.E.	EXPERIMENTAL HEATING OF POND WATER TO START RAINBOW ON A DRY DIET	1960
	TREFFRY, GARY A.	A HEATED WATER SUPPLY	1970
	WALLIS, JOE	REARING SALMONIDS IN POWER PLANTS COOLING PONDS	1970
WATE	ER RE-USE		
	BITLE, FRED W.	WATER REUSE	1966
	BRUIN, W.J. & LAURA M. MAMAW JOHN W. NIGHTINGALE	USE OF A CLINOPTILOLITE AMMONIA REMOVAL FILTER IN A RECIRCULATING SALMON REARING FACILITY	1979
		EVALUATION OF FISH GROWTH AND NITROGENOUS WASTE HANDLING IN A RECIRCULATING SALMON REARING FACILITY WITH A CLINOPTIOLOLITE FILTER	1980
	COMBS, BOBBY D.	PRELIMINARY EXPERIMENTS IN WATER REUSE	1963
		THE RECLAMATION OF WATER	1964
		THE RECLAMATION AND REUSE OF WATER	1965
		PROGRESS IN WATER RECLAMATION STUDIES	1971
	ELLIS, JAMES N.	THE RECIRCULATING HATCHING UNITS AT THE COLLEGE OF FISHERIES, UNIVERSITY OF WASHINGTON	1964

WATER RE-USE

HIGGS, KENNE	PRACTICAL APPLICATIONS OF WATER REUSE SYSTEMS IN REGION ONE HATCHERIES	1968
LIAO, PAUL	THE NITRIFICATION PROCESS FOR RECONDITIONING FISH HATCHERY WATER	1971
MAYO, RONALD D.	A PROGRAM FOR THE STUDY OF FISH HATCHERY WATER TREATMENT SYSTEMS AT THE BOZEMAN FISH CULTURE DEVELOPMENT CENTER IN MONTANA	1971
RIDENHOUR, RICHARD L.	OPERATION OF THE HUMBOLDT STATE COLLEGE RECIRCULATING FISH HATCHERY: 1957-1963	1963
ROMEY, DANIEL B. & ROBERT A. RATTRAY	CRYSAL LAKE: ALASKA'S NEW WATER RE-USE FISH HATCHERY	1974
UDWIN, ELLIS	SELECTION OF WATER TREATMENT TECHNIQUES FOR HATCHERY WATER SUPPLIES	1970
WALLIS, JOE	AN INDOOR BURROWS REUSE SYSTEM	1970
WATER TEMPERATURE		
BRUHN, DAVE ε	SOME EFFECTS ON RAINBOW TROUT BROODSTOCK OF REDUCING WATER TEMPERATURE FROM 59° F TO 52° F	1975
WATER-WASTE		
FOX, CECIL L.	AN ENGINEERING FIRM LOOKS AT HATCHERY WASTEWATER TREATMENT	1973
MCDANIEL, DAVID W.	HATCHERY WASTEWATER TREATMENT AS VIEWED BY THE BUREAU OF SPORT FISHERIES AND WILDLIFE	1973
SWEENEY, JAMES	FEDERAL LAWS AS THEY RELATE TO HATCHERY WASTEWATER TREATMENT	1973
WYOMING		
TERRY, DON	WYOMING'S PROJECTED TEN YEAR FISHERIES PROGRAM	1963
YUGOSLAVIA		
WILLOUGHBY, H.	TROUT FISHERIES OF YUGOSLAVIA	1965
ZINC		
TRIPP, MARTIN J.	ACUTE COPPER AND ZINC TOXICITY IN CHINOOK SALMON	1964
SHEARER, KARL	A SIMPLE MODEL TO DESCRIBE ZINC STATUS IN TROUT	1981
WEDEMEYER, GARY	UPTAKE AND DISTRIBUTION OF ZINE 65 IN THE COHO SALMON EGG (Oncorhynchus kisutch)	1967