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# ANADROMOUS FISH RESOURCES

SUPPLEMENT



UNITED STATES DEPARTMENT OF THE INTERIOR
Walter J. Hickel, Secretary
Leslie L. Glasgow, Assistant Secretary
for Fish and Wildlife and Parks

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# ANADROMOUS FISH RESOURCES

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CONSERVATION
DEVELOPMENT
ENHANCEMENT



### INTRODUCTION

This supplement covers the first 4 years of project activities under the Anadromous Fish Conservation Act of 1965, Public Law 89-304.

It is intended to provide program coordinators and administrators, legislators, project personnel, and others interested in our anadromous fish resources with details of individual projects and other peritnent information.

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### ANADROMOUS FISH PROJECTS

All of the 31 eligible States, except Hawaii and Texas, are participating in the Anadromous Fish Conservation Program. They are carrying out projects on a matching basis for the enhancement, conservation, and development of the Nation's anadromous fish resources.

Since the start of this program 213 projects have been approved of which 139 have been completed. The total cost of work funded through fiscal year 1970 is about \$30,000,000, of which the Federal share is about 50 percent.

Projects approved and funded in fiscal years 1967 through 1970 are listed by State, project number, title, duration, estimated total cost with gross obligation of Federal funds parenthesized. Projects administered and funded by the Bureau of Sport Fisheries and Wildlife are identified by AFS, and those funded by the Bureau of Commercial Fisheries by AFC. Projects funded by both Bureaus are identified by AFCS when the Bureau of Commercial Fisheries is the administering agency and by AFSC when the Bureau of Sport Fisheries and Wildlife is the administering agency.

### ALABAMA

- AFC-1. Research on striped bass. 1967-1970. \$70,000 (\$35,000). Marked fish were released in Mobile Bay and tributaries to study survival, growth and migration.
- AFS-2. Anadromous fish of Alabama--Their distribution and management. 1967-1970. \$40,000 (\$20,000). A survey was conducted of anadromous fish distribution and ways of increasing it.
- AFC-3. Striped bass production to establish commercial stocks. 1970-1972. \$80,000 (\$8,500). To release 6- to 9-inch fry and fingerlings into Mobile Bay and tributaries to establish runs of fish.
- AFC-4. Factors limiting survival and growth of young striped bass. 1970-1973. \$54,000 (\$9,000). To determine factors which limit survival and growth of young fish under cultural conditions.

### ALASKA

- AFS-1. Fire Lake fish culture station improvement. 1966-1971. \$646,000 (\$323,000). To increase and improve hatching and rearing capacity and to provide additional personnel facilities.
- AFC-2. Sockeye salmon migration behavior and statistics collection. 1967-1970. \$202,000 (\$101,000). Racial and age data were obtained and escapement counts made at weirs in southeastern bays and lakes.
- AFC-3. Restoration of earthquakedamaged salmon streams, Prince William Sound. 1967-1970. \$342,400 (\$171,200). Restorative work completed on 29 of the 181

damaged pink and chum salmon streams.

- AFC-4. Offshore salmon abundance index. 1967-1970. \$496,000 (\$248,000). Short-term forecasts are made of the size and timing of salmon runs as they near the inshore fisheries.
- AFC-6. Bristol Bay intermediate high seas inshore test fishing. 1967-1970. \$220,800 (\$110,400). Size, time and age composition of sockeye salmon runs determined before they enter inshore fisheries.
- AFC-7. Arctic-Yukon-Kuskokwim anadromous fish investigations. 1967-1970. \$322,800 (\$161,400). Population sizes and escapements and movements of king and chum salmon and sheefish are determined.
- AFC-8. Kodiak Island sockeye salmon investigations. 1967-1970. \$423,600 (\$211,800). Stocks were identified, escapement and smolt counts made, and data on life history obtained on salmon.
- AFC-9. Identification of red salmon stocks, Chignik area. 1967-1968. \$40,000 (\$20,000). Data were obtained on origin and age composition of stocks harvested by purse seine fishery.
- AFC-10. Copper River sockeye salmon investigations. 1967-1970. \$295,800 (\$147,900). Fish were tagged and released and aerial and ground surveys made to assess escapements.
- AFC-11. Coordination. 1967-1970. \$241,800 (\$120,900). Provided supervision and administration of P.L. 89-304 projects.
  - AFC-12. Forecasts of Kodiak Island

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# CONNECTICUT (con't)

- AFC-3. Life history and potential fishery of river herrings. 1967-1972. \$83,000 (\$21,500). Fish captured in Connecticut River are marked with polystyrene dye, and their migratory behavior studied.
- AFS-4. Connecticut River Basin ... research and management. 1967-1972. \$111,700 (\$22,100). To determine research and management needs in the Basin and design a program to meet them.
- AFS-5. Quinebaug River-Thames River ... study. 1967-1972. \$131,000 (\$28,000). To do a limnological and fisheries study, and determine the success of introducing shad and coho salmon.
- AFC-6. Migratory behavior of American shad. 1970-1973. \$72,000 (\$12,000). To study mechanisms of orientation and predetermine behavior patterns of shad in Long Island Sound and Connecticut River.

### DELAWARE

- AFCS-1. Feasibility of restoration of shad in Brandywine Creek. 1967-1969. \$20,000 (\$10,000). Fertilized shad eggs were hatched to determine suitability of the stream for shad restoration.
- AFS-2. Delaware River Basin studies. 1968-1973. \$132,500 (\$25,466). To develop the sport and commercial fisheries of the Basin with emphasis on American shad and striped bass.
- AFSC-3. Shad passageway construction on the Brandywine River. 1968-1971. \$480,000 (\$175,000). To construct passageways over 11 dams on the River to permit the passage of American shad.
- AFS-4. Cooperative study of striped bass. 1968-1970. \$2,500 (\$1,250). A review and analysis of Atlantic Coast striped bass migrations was undertaken, using data from previous tagging studies.

### FLORIDA

- AFC-2. American shad in the St. Johns River. 1967-1971. \$95,000 (\$47,500). To obtain abundance, seasonal migration, spawning behavior and other date, and assess effects of pollution on survival.
- AFS-3. Biology of the Alabama shad in Northwest Florida. 1967-1971. \$60,000

- (\$30,000). To characterize and seek spawning grounds and to evaluate the potential of the fishery.
- AFS-4. The potential of anadromous fishes. 1971-1974. \$150,000 (\$0). To determine species and abundance in Northwest Florida, sample life history and distribution, and evaluate fisheries.

### GEORGIA

- AFC-1. Shad fishery in the Altamaha River. 1967-1968. \$30,000 (\$15,000). Population size of shad entering the River and fishing rates were determined.
- AFS-2. Life history studies--striped bass. 1967-1971. \$100,000 (\$46,887). To determine production and distribution of striped bass populations in Georgia streams.
- AFS-3. Studies of striped bass in three divergent habitats. 1967-1970. \$15,000 (\$7,500). Reviewed historical occurrence, determined food habits, and determined abundance of food items.
- AFS-5. Brunswick office and storage facilities. 1968. \$30,000 (\$15,000). Provided office, lab and library space and equipment storage facilities for anadromous fish personnel and equipment.
- AFC-6. Nursery areas and biology of juvenile anadromous fish, Altamaha River. 1968-1970. \$61,000 (\$30,500). Determined distribution and abundance of juvenile shad and river herrings; mapped nurseries.
- AFS-9. Evaluation of stocking fingerling striped bass. 1970-1974. \$116,000 (\$0). To determine if fingerling striped bass can be added to increase current stocks, and to assess their effect.

### ILLINOIS

- AFS-1. Lake Michigan creel census project. 1969-1970. \$10,000 (\$5,000). Fishing pressure for smelt and salmon was determined in Lake Michigan by aerial survey.
- AFC-2. Histology of the thyroid and pituitary glands in alewife. 1970-1971. \$24,000 (\$12,000). To determine differences in glandular activity between freshwater and marine alewife populations.

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# MARYLAND (con't)

striped bass migrations was undertaken, using data from previous tagging studies.

### MASSACHUSETTS

- AFC-1. Anadromous fish investigations. 1967-1970. \$80,000 (\$31,700). To construct and/or improve fish passage facilities for alewife on coastal streams in Bristol and Barnstable Counties.
- AFS-2. Connecticut River shad study. 1967-1970. \$60,000 (\$18,000). Determined extent of shad movement, potential of the River for shad, and changes necessary at existing and proposed fishways.
- AFS-3. Anadromous fish investigations. 1967-1970. \$16,000 (\$8,000). All coastal streams were surveyed to determine priorities for future anadromous fish propagation and restoration work.
- AFS-4. Connecticut River Basin ... studies. 1967-1972. \$164,000 (\$37,180). To determine research and management needs in the Connecticut River Basin and to design a program to meet them.
- AFS-6. Southeastern Massachusetts shad study. 1968-1973. \$40,000 (\$4,000). To study the annual run of shad in Palmer and North Rivers, and to determine the feasibility of further stocking them.
- AFS-7. Merrimack River ... restoration study. 1968-1973. \$58,000 (\$6,500). To determine the feasibility of restoring fish runs, and to implement the established fish restoration program.
- AFS-8. Cooperative study of striped bass ... 1968-1970. \$2,500 (\$1,250). A review and analysis of Atlantic Coast striped bass migrations was undertaken, using data from previous tagging studies.

# MICHIGAN

- AFC-1. Appraisal of anadromous fish stocks. 1966-1967. \$35,350 (\$10,000). Scientific equipment was installed on the State's research vessel Steelhead for work on Lake Michigan.
- AFS-2. Construction of facilities for Great Lakes Anadromous Fish Program. 1966-1968. \$632,000 (\$300,000). Fish cultural facilities were constructed at two sites.

- AFS-3, Construction of facilities for Great Lakes Anadromous Fish Program. 1967-1972. \$4,742,000 (\$1,795,000). To construct fish cultural facilities at two sites.
- AFC-7. Parasites, diseases, and disease control on anadromous fish. 1967-1971. \$180,294 (\$90,000). To study red worm of yellow perch and bacteria associated with alewife seasonal mortality.
- AFSC-8. Great Lakes fish resource study. 1968-1971. \$111,000 (\$60,000). To design a study to evaluate the present anadromous fish management program on the Great Lakes.

### MINNESOTA

- AFS-1. Anadromous fish habitat development. 1967-1971. \$200,000 (\$99,314). To increase the area available for spawning and angling fish by constructing fish passage facilities.
- AFC-2. Fish habitat development. \$16,000 (\$8,000). Spawning areas and fish passage needs were surveyed in streams along the North Shore of Lake Superior.

### MISSISSIPPI

- AFCS-1. Study of striped bass. 1967-1970. \$210,000 (\$97,500). Hatchery-produced fingerlings were stocked in several rivers to determine whether the waters were suitable for reestablishment of runs.
- AFCS-2. Anadromous fish laboratory construction. 1969-1970. \$50,000 (\$25,000). To construct research laboratory and install equipment to replace that destroyed by "Hurricane Camille."

### NEW HAMPSHIRE

- AFC-1. Commercial fisheries development. 1968-1972. \$230,000 (\$39,500). To increase the size of alewife and shad runs by construction of fish passage facilities in Hampton and Piscatagua rivers.
- AFS-2. Anadromous fish research, Connecticut River System. 1968-1972. \$160,000 (\$15,320). To restore anadromous fish runs to the New Hampshire portion of the Connecticut River System.

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### OREGON

- AFS-1. Propagation of winter steelhead-Alsea hatchery. 1966-1969. \$67,000 (\$24,000). An additional 170,000 winter steelhead smolts were reared at an established hatchery.
- AFS-2. Cedar Creek hatchery expansion and fish propagation. 1966-1968. \$63,800 (\$31,900). Two hatchery ponds were constructed to increase production of either spring chinook salmon or steelhead.
- AFS-3. Butte Falls hatchery expansion and fish propagation. 1966-1969. \$75,000 (\$37,500). Two fish ponds were constructed to facilitate the rearing of additional summer steelhead trout.
- AFC-10. Shad and striped bass management. 1968-1970. \$33,000 (\$16,500). Data such as catch and effort are obtained on the fisheries and spawning history of the species are investigated in rivers.
- AFC-11. Construction of rearing ponds-North Nehalem River salmon hatchery. 1967-1970. \$172,000 (\$86,000). 6 additional rearing ponds for coho and fall chinook were constructed in Clatsop County.
- AFC-12. Coordination. 1967-1970. \$26,000 (\$9,500). Provided for supervision and coordination of Public Law 89-304 projects.
- AFS-15. Engineering ... Lint Slough impoundment. 1967. \$6,000 (\$3,000). Engineering preparatory to flood control improvement for Lint Slough salmon rearing impoundment was provided.
- AFS-16. Effects of logging ... on salmon and steelhead. 1967-1970. \$102,200 (\$51,100). The immediate effects of logging on the freshwater environment of salmon and steelhead were studied.
- AFC-17. Construction of Elk River salmon hatchery. 1967-1968. \$462,000 (\$231,000). A hatchery was constructed in Curry County and will produce two million coho and fall chinook salmon annually.
- AFC-18. Development and improvement of hatchery techniques. 1967-1970. \$864,800 (\$420,500). To improve nutritional qualities of pellets to feed salmon, and to develop methods to control fish diseases.
- AFC-19. Management of the troll salmon fishery. 1967-1970. \$134,400 (\$67,200).

- The use of barbless hooks as management tool and the radionuclide  $\mathrm{Zn}^{65}$  as a means of identifying salmon are investigated.
- AFS-20. Development of the parr-smolt transformation. 1967-1971. \$107,446. (\$43,130). To determine the role of temperature and light as a stimulus in the parr-smolt transformation.
- AFC-21. Increased production of anadromous salmonids. 1967-1968. \$48,200 (\$24,100). Located sources of hatchery water, and mapped spawning and nursery areas and barriers to fish movement.
- AFC-22. Production and distribution of salmon at Alsea River hatchery. 1967-1968. \$66,805 (\$18,700). Unfed fingerlings and excess adults were released in barren streams and lakes having rearing potential.
- AFC-23. Effects of logging on salmon. 1968-1970. \$57,200 (\$28,600). Summarized data on spawning runs, production and survival of smolts from 3 coastal streams during a 7-year prelogging inventory.
- AFS-24. Flood control ... Lint Slough impoundment. 1967-1969. \$66,800 (\$33,400). Flood prevention was studied, as were evaluation facilitation and environmental control improvement.
- AFS-25. Completion ... Corvallis Research laboratory. 1967-1969. \$101,000 (\$50,500). The fishery research lab was completed and new work space provided for salmon and steelhead studies.
- AFC-25. Stream improvement. 1967. \$7,600 (\$3,800). A culvert was removed to allow salmon passage on Clear Creek, tributary to Kilchis River.
- AFC-26. Research on wild and hatchery produced salmon. 1968-1970. \$100,000 (\$50,000). Elk River fall chinook stocks were studied to determine effects of introduced fish on natural populations.
- AFS-27. Spawning area development for fail chinook ... 1968-1970. \$90,000 (\$23,150). Spawning area for fall chinook salmon was developed and survival of the fish to seaward migration was ensured.
- AFS-28. Racial study on steelhead. 1968-1971. \$24,000 (\$9,500). To study questions in regard to artificially stocking steelhead and in regard to the management of the steelhead sport fishery.

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# RHODE ISLAND (con't)

1967-1971. \$430,000 (\$101,000). To construct fishways and develop runs of alewives, American shad and salmon in order to provide commercial and sport fishing.

### SOUTH CAROLINA

- AFC-1. Survey of sturgeon fishery. 1967. \$10,000 (\$5,000). Provided for inventory of sturgeon fisheries in Wyanah Bay to obtain information for improved management of the resource.
- AFS-2. Anadromous fishes survey. 1967-1970. \$258,000 (\$44,166). Basic physical, chemical, biological and historical data pertaining to anadromous fish species in South Carolina was obtained.
- AFS-3. Detail studies of the Santee and Cooper Rivers. 1970-1975. \$200,000 (\$25,000). To obtain biological, chemical and physical data on the anadromous species in the Santee and Cooper Rivers.

### VERMONT

- AFS-1. Shad spawning habitat inventory. 1967. \$650 (\$325). A quantitative inventory of available shad spawning and rearing habitat in Connecticut River tributaries below Wilder Dam was obtained.
- AFS-2. Rearing of Atlantic salmon smolt for Connecticut River ... 1967-1969. \$1,500 (\$750). Atlantic salmon parr were reared to smolt stage for experimental planting below Holyoke Dam, Massachusetts.
- AFS-3. Survey of obstructions ...

  Connecticut River ... 1967-1970.

  \$1,500 (\$750). A descriptive inventory of natural and man-made barriers to migratory fish was obtained.
- AFS-4. Connecticut River Basin studies. 1967-1972. \$70,500 (\$14,600). To determine research and management needs in the Basin and to design a program to meet those needs.

### VIRGINIA

AFC-1. Biology and utilization of anadromous alosids. 1967-1970. \$549,165 (\$297,082). To investigate the biology and utilization of alewife and blueback herring.

- AFS-3. Limiting factors ... metabolism of striped bass. 1967-1971. \$30,000 (\$7,500). To study uptake, toxicity and excretion levels of zinc and copper in the life stages of striped bass.
- AFS-4. Estimation of parameters of striped bass ... 1967-1970. \$666,876 (\$200,000). Those population parameters essential to the creation of a management program for Lower Chesapeake Bay estimated.
- AFS-5. Cooperative study of striped bass ... 1968-1970. \$2,500 (\$1,250). A review and analysis of Atlantic Coast striped bass migrations was undertaken, using data from previous tagging studies.
- AFS-6. Feasibility of increasing striped bass ... 1970-1973. \$480,000 (\$30,000). To locate tributaries with suitable nursery ground, and stock stream, assessing survival of stocked population.

### WASHINGTON

- AFC-1. Salmon rearing operations. 1967. \$480,000 (\$240,000). 11 State-owned salmon hatcheries were operated which made available an estimated 264,375 coho and 145,425 chinook to the fisheries.
- AFS-2. Development of Bogachiel ... fish ponds. 1967-1968. \$100,500 (\$50,250). A sport fishery was provided for steelhead trout in the Bogachiel River by the development of a semi-natural area.
- AFS-3. Development of Tokul Creek ...
  fish ponds. 1966-1967. \$94,500

  (\$47,250). The existing sport fishery was enhanced by the development of a pond for rearing yearling steelhead trout.
- AFC-4. Coordination. 1966-1969. \$22,000 (\$11,000). Provided for the supervision and administration of Public Law 89-304 projects.
- AFC-5. Construction of Soleduck River salmon hatchery. 1967-1968. \$1,666,000 (\$833,000). A hatchery is under construction in Clallum County which will be able to rear about two million salmon annually.
- AFS-6. Tokul Creek rearing pond, operation and maintenance. 1967-1970. \$50,727 (\$25,363). The existing sport fishery was enhanced by pond rearing winter steelhead trout to smolt size.
  - AFS-7. Bogachiel rearing pond,

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# WASHINGTON (con't)

- improvement. 1969. \$5,000 (\$2,500). Logjams were removed and stream gradients reduced at cascades and small falls to assure salmon access to 20 miles of stream.
- AFC-35. Puget Sound resident coho study. 1969-1973. \$72,000 (\$12,200). About 4,000 coho salmon--half wild and half hatchery produced--will be marked and released to obtain future rearing data.
- AFC-37. Stream catalogue. 1969-1971. \$52,000 (\$26,000). To assemble the mass of accumulated data gathered on stream characteristics and anadromous fish utilization of Puget Sound and Chehalis Basin.
- AFC-38. Spawning gravel improvement. 1969-1970. \$13,000 (\$6,800). To define factors of damage which affect spawning areas where salmon production has been destroyed or reduced.
- AFC-39. Upper Chehalis River stream improvement. 1969-1970. \$12,000 (\$6,000). To remove Fish Falls by blasting which will open up 19 miles of spawning and nursery areas to coho and chinook salmon.
- AFC-40. Design for future program construction. 1970. \$42,000 (\$21,000). To prepare construction plans, specifications, and cost estimates collectively for nine small construction projects.
- AFS-41. Operation of Shelton ... fish pond. 1970. \$90,300 (\$5,150). The fishery for sea-run cutthroat trout was supplemented and enhanced by producing the maximum number of good quality migrants.
- AFS-42. Development of Skykomish
  River ... fish pond. 1970-1974.
  \$208,700 (\$104,350). To provide an increased steelhead fishery in the Skykomish and Snohomish River systems.
- AFC-43. North Fork Newaukum River fish passage. 1970. \$15,000 (\$7,500). To provide adequate coho salmon passage at a falls-cascade area which will open up about 10 miles of spawning and nursery grounds.
- AFS-44. Anadromous fish program evaluation. 1970-1974. \$54,000 (\$13,700). To evaluate cutthroat and steelhead programs in which anadromous fish matching funds are expended.
- AFC-45. Issaquah ponds reversion. 1970. \$95,000 (\$47,500). To increase the efficiency of operation of two rearing

- ponds by asphalt lining dirt ponds and providing concrete outlet structures.
- AFS-48. Operation of fish ponds ... 1970-1974. \$468,000 (\$0). To operate ponds constructed with P.L. 89-304 funds to provide maximum production of steelhead and sea-run cutthroat trout migrants.

### WISCONSIN

- AFS-1. Production and stocking ... rainbow and brown trout ... 1966-1967. \$147,000 (\$40,000). Stocks of anadromous salmonids in Lakes Superior and Michigan were increased.
- AFC-2. Walleye population study. 1967. \$15,000 (\$7,500). Walleye were tagged and released between Port Wing and Superior Harbor on Lake Superior to estimate population size and to observe movement.
- AFS-3. Coho-steelhead stocking ...
  Superior and Michigan. 1968-1969.
  \$170,000 (\$85,000). Stocks of anadromous salmonids in Lakes Superior and Michigan were increased.
- AFS-4. Salmon and trout fishery ... Superior and Michigan. 1968-1969. \$170,000 (\$85,000). The sport fishery resource in the western Great Lakes was improved.
- AFC-4. Study of thyroidal, interrenal, and gonadal activity in alewife. 1968-1970. \$14,000 (\$7,000). Histological examination was made of glandual tissue to observe seasonal changes in activity.
- AFC-5. Reproductive cycle of alewife. 1968-1971. \$55,930 (\$26,885). Maturation of gonads are studied to describe and compare development stages in different year classes of alewife in Lake Michigan.
- AFC-6. Population dynamics of juvenile alewife and coregonids. 1968-1969. \$22,400 (\$11,200). Used experimental drop nets to determine distribution and relative abundance of fish throughout Green Bay.
- AFS-7. ... Fisheries research and development. 1969-1970. \$1,015,000 (\$186,526). To improve the sport fisheries resources of the western Great Lakes by developing salmon and steelhead.
- AFC-8. Evaluation of commercial fishery potential. 1969-1970. \$2,000 (\$1,000). Walleye are marked and released near Superior Harbor to obtain information on migratory behavior.

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special All cation	38.5	81.2	80.00	77.1	276.)
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# Public Law 89-304 89th Congress, H. R. 23 October 30, 1965

# An Act

79 STAT. 1125

To authorize the Secretary of the Interior to initiate with the several States a cooperative program for the conservation, development, and enhancement of the Nation's anadromous fish, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled. That (a) for the Anadromous and purpose of conserving, developing, and enhancing within the several States the anadromous fishery resources of the Nation that are subject to depletion from water resources developments and other causes, or with respect to which the United States has made conservation commitments by international agreements, and for the purpose of conserving, developing, and enhancing the fish in the Great Lakes that ascend streams to spawn, the Secretary of the Interior is authorized to enter into cooperative agreements with one or more States, acting jointly or severally, that are concerned with the development, conservation, and enhancement of such fish, and, whenever he deems it appropriate, with other non-Federal interests. Such agreements shall Cooperative describe (1) the actions to be taken by the Secretary and the cooper-agreement proating parties, (2) the benefits that are expected to be derived by the visions with States and other non-Federal interests, (3) the estimated cost of these the States. actions, (4) the share of such costs to be borne by the Federal Government and by the States and other non-Federal interests: Provided. That the Federal share, including the operation and maintenance costs Federal and of any facilities constructed by the Secretary pursuant to this Act, non-Federal which he annually determines to be a proper Federal cost, shall not costs. exceed 50 per centum of such costs exclusive of the value of any Federal land involved: Provided further. That the non-Federal share may be in the form of real or personal property, the value of which will be determined by the Secretary, as well as money, (5) the term of the agreement, (6) the terms and conditions for disposing of any real or personal property acquired by the Secretary during or at the end of the term of the agreement, and (7) such other terms and conditions as he deems desirable.

(b) The Secretary may also enter into agreements with the States Management for the operation of any facilities and management and administration functions. of any lands or interests therein acquired or facilities constructed

pursuant to this Act.

SEC. 2. The Secretary, in accordance with any agreements entered Investigations, into pursuant to section 1(a) of this Act, is authorized (1) to conduct surveys, studsuch investigations, engineering and biological surveys, and research ies, etc. as may be desirable to carry out the program; (2) to carry out stream clearance activities; (3) to construct, install, maintain, and operate devices and structures for the improvement of feeding and spawning conditions, for the protection of fishery resources, and for facilitating the free migration of the fish; (4) to construct, operate, and maintain fish hatcheries wherever necessary to accomplish the purposes of this Act: (5) to conduct such studies and make such recommendations as the Secretary determines to be appropriate regarding the development and management of any stream or other body of water for the conservation and enhancement of anadromous fishery resources and the fish in the Great Lakes that ascend streams to spawn: Provided, That the reports on such studies and the recommendations of the Reports to Secretary shall be transmitted to the States, the Congress, and the States, Congress Federal water resources construction agencies for their information: and others. Provided further. That this Act shall not be construed as authorizing the formulation or construction of water resources projects, except

Great Lakes

that water resources project on the restrict once by the Scient ry to be needed by for the contact time, per letter, and on an end of such find may be planned and the tell by the Pareas of Redsnation in it correctly at land gogget in a cf is possible. or by the Corp of Pegrar, or by the Lighthat of Agention, or by the State, with fund a ale will he by the Secretary unite. the Act and oil, ext to the rost aring and appropriation privious of the Act, (6) to appere land or oteret tien top now lease, dor tien, or exclurge for maniel limber plan high mean his juried took which he find at the for disposition Printled That the land or interest there is next langest that he repping unately equal values, as decreased by the Secretary Proceedings ther, That the Secretary may a get coll from, or pay rest to, the granter in a han exchange in order to equalice the value of the properties exchange 1; (7) to a rept du the of f le mil to use such fund to acquire or in nage laid or a tere to the real and (%) to administer is hard or interest there is to the purpose of the Act. Title to laid or inter- between a just ly mont to the Act shall be in the United Stites.

Sec. 3. Activitie authorized by the Act to be parferred on he had administered by other Federal department or age to all la carried out only with the prior approval of wel department or agencie-

Src. 4 (a) There is authorized to be appropriated for the period ending on June 30, 197), not to exceed Significant to carry out the purpose of the Act.

(b) Not more than \$1,000,000 of the find appropriated under the section in any one it all year shall be obligated in any on State

Sic. 5. This Act shall not be for trued to affect, notify, or apply to the language as the province of the Act of May 11, 10 is 1% Sec. 445), as amended (16 U.S.C. 75 - 757).

Sec. 6. The Secretary of the laterior still, out to his sof studies carried out pursuant to this Act and se tion buff the Fight and William life Coordination Act (48 St. 1 4 2), a mental 10 1 Se cell. make recommendations to the Scribbry of Health, Firsting, and Welfare concerning the elimination of reluction of pull ring silvances detrimental to fish and wildlife in intersite it as gibbs waters or the tributar e thereof. Sin recommend the sand and enforcement measures initiated pursuant therein by the Secretary of Health, Education, and Welfare shall be designed to collarece the quality of such waters, and shall take into consideration. Il other legitimate nes of such waters

Approved October 30, 1965.

Re cerer ations to Hiw. 40 Stat 10-1.

Appropriations.

LET LITTLE TE 1



# Public Law 91-249 91st Congress, H. R. 1049 May 14, 1970

# An Act

84 STAT. 214

To amend the Anadromous Fish Conservation Act of October 30, 1965, relating to the conservation and enhancement of the Nation's anadromous fishing resources, to encourage certain joint research and development projects, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That (a) the first Anadromous Fish proviso contained in the second sentence of subsection (a) of the first Conservation section of the Act of October 30, 1965 (16 U.S.C. 757a(a)), is amended Act, amendment. by inserting ", except as provided in subsection (c) of this section," 79 Stat. 1125. immediately before "the Federal share".

(b) The first section of such Act of October 30, 1965 (16 U.S.C. Federal and non-757a), is further amended by adding at the end thereof the following Federal costs. new subsection:

"(c) Whenever two or more States having a common interest in any basin jointly enter into a cooperative agreement with the Secretary under subsection (a) of this section to carry out a research and development program to conserve, develop, and enhance anadromous fishery resources of the Nation, or fish in the Great Lakes that ascend streams to spawn, the Federal share of the program costs shall be increased to a maximum of 60 per centum. Structures, devices, or other facilities, including fish hatcheries, constructed by such States under a cooperative agreement described in this subsection shall be operated and

maintained without cost to the Federal Government. For the purpose of this subsection, the term 'basin' includes rivers and their tributaries, lakes, and other bodies of water or portions thereof."

SEC. 2. Subsection (a) of section 4 of such Act of October 30, 1965 Appropriation. (16 U.S.C. 757d(a)), is amended by adding at the end thereof the following new sentences: "There is authorized to be appropriated to carry out this Act, not to exceed \$6,000,000 for the fiscal year ending June 30, 1971, not to exceed \$7,500,000 for the fiscal year ending June 30, 1972, not to exceed \$8,500,000 for the fiscal year ending June 30, 1973, and not to exceed \$10,000,000 for the fiscal year ending June 30, 1974. Sums appropriated under this subsection are authorized to remain available until expended.".

Sec. 3. Such Act of October 30, 1965 (16 U.S.C. 757a-757f), is Citation of amended by adding at the end thereof the following new section:

aot.

"Sec. 7. This Act may be cited as the 'Anadromous Fish Conservation Act'."

Approved May 14, 1970.

### LEGISLATIVE HISTORY:

HOUSE REPORT No. 91-808 (Comm. on Merchant Marine and Fisheries). SENATE REPORT No. 91-808 (Comm. on Commerce). CONGRESSIONAL RECORD, Vol. 116 (1970):

Feb. 16, considered and passed House. Apr. 30, considered and passed Senate. Chapter IV Fish and Wild to Servca Deportment of the Interior

### PART 401 ANADROMOUS FISHER-185 CONSERVATION DEVELOP. MENT AND ENHANCEMENT

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for undertaking the collmated at to each cooperator the term of the sertime and a cother information no is at a printe

21 C superative agreements constitute the bas s for projects and shall conform to the documentation requirements prescribed by the Secretary

If week Any undertaking involv-ing the conservation enhancement and development of analymmous fish project is retablished upor execution of a cooperative agreement

### § 401.3 Submission of applications.

Pi ect proposals and proposed cooperative agreeme to shall be automitted to the incorned Regional or Area Office of the Burney of Commercial Piaheries or B vau of Sport Fisheries and

### \$ 4014 Camedonation with States

The retary at all not enter to to a cooperative agreement with a non-Fede al inte est other than a State unless the project as reed upon has approval of the resource which will be affected

### § 101 S. Prosecution of work

al The cooperator shall carry projects through to a stage of completion accept able to the Secretary with reasonable promptness Pailure to render satisfactory progress reports or failure to comthe Secretary shall be cause for the Secretary to with hold further payments until the project provis i are satisfactor 'y met. Projects may be termi lated usen determination by the Secretary that saturfactory progress has not been maintained The Secretary shall have the right to impect and review work being done at any time

b Remarch and or deve coment work shall be continuously coordinated by the conversion with studies conducted by there to a void us econsary duplication

ic A with shall be performed in accords or with applicable State laws except ween neonflet with Frdera laws or reg a one in which case Pederal laws r reg a long shall press

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al Decument agnoture Individuals a thind to re priect documents der it Comme ca Pin ches Research a Development Act or the Federal Aid Fint Restoration Act may likewise age conjectative agreements under this

Fr gram nfranco in The or call mus from time to time reg est and the competators sha furnish ormat read s to the administration a ma terapre of a t pre ect estabile ed under the Act

### § 401.7 Availability of funds.

Language appearing in Appropriation Acts providing funds for this program will govern the period during which the funds may be obligated.

### 8 401.8 Payments to cooperators.

Payments shall be made to cooperators as work described in cooperative agreements progresses and is completed.

### \$ 401.9 Forms of vouchers.

Vouchers on forms provided by the Secretary and certified as therein prescribed showing amounts expended on each project, and the Federal portion claimed to be due on account thereof, shall be submitted to the Secretary by the cooperator.

### § 401.10 Property as matching funds.

The non-Federal share of the cost of projects may be in the form of real or personal property. To establish the value of such property the cooperator shall furnish such market value appraisal information as the Secretary may require prior to execution of a cooperative agreement.

# § 401.11 Economy and efficiency of operations.

No cooperative agreement shall be executed until the cooperator has shown to the satisfaction of the Secretary that appropriate and adequate means shall be employed to achieve economy and efficiency in the completion of the project.

### § 401.12 Ownership of property.

When real property is acquired pursuant to the provisions of the Act, title to such property or interest therein shall be vested in the United States, and the conveying instrument shall recite the United States of America as the grantee. However, if the Secretary determines that under the terms of the cooperative agreement, the intent and purpose of the Act may be better served by State ownership of such property, an appropriate transfer may be made. When real or When real or personal property is utilized by the State as matching funds, title to such property shall remain in the State. When real or personal property is utilized as matching funds by a cooperator other than the State, title shall be in the State unless otherwise specified in the cooperative agreement.

### § 401.13 Personnel.

The cooperator shall maintain an adequate and competent force of employees to initiate and carry cooperative agreements to satisfactory completion. Personnel employed on projects shall be selected on the basis of their competence to perform the services required and shall conduct their duties in a manner acceptable to the Secretary.

### § 401.14 Inspection.

Supervision of each project shall be as specified in the cooperative agreement and shall include adequate and continuous inspection. The project will be subject at all times to Federal inspection.

### § 401.15 Records retention.

All records of accounts and reports, with supporting documentation thereto, will be retained by the eooperator for a period of 3 years after final audit is made by the Federal Government.

### § 401.16 Reporting.

Progress and final reports shall be submitted to the Secretary by the cooperator in accordance with reporting requiments prescribed by the Secretary. Reports should be in the form of publications whenever appropriate. Progress and final reports will be placed in permanent depository for future reference.

# § 401.17 Safety and accident prevention.

In the performance of each project, the cooperator shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation. The cooperator shall be responsible for ascertaining that all safeguards, safety devices, and protective equipment are provided. The cooperator will take any other needed actions reasonably necessary to protect the life and health of employees on the job, the safety of the public, and the protection of property used in connection with the performance of the work covered by the project.

### § 401.18 Contracts.

Supply, service, equipment, and construction contracts, other than research and development contracts and contracts for professional services, involving an expenditure of \$2,500 or more entered into by a cooperator for the execution of approved project activities, shall be based upon free and open competitive bids. If a contract is awarded to other than the lowest responsible bidder, the payment of the Federal portion of the cost of the project shall be based on the lowest responsible bid, unless it is satisfactorily shown that it was advantageous to the project to accept a higher bid Upon request, the cooperator shall certify and promptly furnish to the Secretary a copy of each contract executed and copies of all bids received concerning the contract. Contracts for research, development, and professional may be negotiated, provided that tire Secretary is satisfied that adequate steps are taken to insure economical and efficient services and the impartial sciectlon of contractors.

### § 401.19 Statements and payrolls.

The regulations of the Secretary of Labor applicable to contractors and subcontractors (29 CFR Part 3), made pursuant to the Copeland Act, as amended (40 U.S.C. 276c), and to aid in the enforcement of the Anti-Klekbaek Act (18 U.S.C. 874) are made a part of the regulations in this part by reference. The cooperator will eomply with the regulations in this part and any amendments or modifications thereof and the cooperator's prime contractor will be 18500-sible for the submission of statements required of subcontractors thereunder. The foregoing shall apply except as the Secretary of Labor may specifically pro-

vide for reasonable limitation, variations, telerances, and exemptions.

### § 401.20 Officials not to benefit.

No Member of, or Delegate to, Congress, or Resident Commissioner, shall be admitted to any share or any part of an agreement, or to any briefit that may arise therefrom; but this provision shall not be construed to extend to this agreement if made with a corporation for its general benefit.

### § 401.21 Patente and inventions.

Determination of the patent rights in any inventions or discoveries resulting from work under cooperative agreements entered into pursuant to the Act shall be governed by the Statement of Government Patent Policy promulgated by the President in his memorandum of October 10, 1863 (3 CFR, 1963, Supp., p. 238, 28 PR, 19843).

### § 401.22 Convict labor.

In connection with the performance of work, the cooperator agrees not to employ any person undergoing sentence of imprisonment at hard labor.

### § 401.23 Civil rights.

Each cooperative agreement shall be supported by a statement of assurance executed by the cooperator providing that the project will be carried out in accordance with Title VI. Nondiscrimination in Federally Assisted Programs, of the Civil Rights Act of 1964 and with the Secretary's regulations promulgated thereunder.

STEWART L. UDAL: , Scretary of the Interior.

SEPTEMBER 2, 1966.

[F.R. Doc. 66-9988; Filed, Sept. 9, 1966; 6:46 a.m.]

### CONTENTORS

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### MISSISSIPPI (con't)

Gulf Coast Research Laboratory East Beach, P.O. Box AG Ocean Springs, Mississippi 39564

Marine Conservation Commission 122 East Jackson Street Biloxi, Mississippi 39503

### NEW HAMPSHIRE

Fish and Game Department 34 Bridge Street Concord, New Hampshire 03301

### NEW JERSEY

Division of Fish and Game
Department of Conservation and Economic
Development
Labor and Industry Building
P.O. Box 1390
Trenton, New Jersey 08625

### NEW YORK

State Conservation Department Division of Fish and Wildlife State Campus Site Albany, New York 12226

### NORTH CAROLINA

Division of Commercial and Sport Fisheries Department of Conservation and Development P.O. Box 2919 Raleigh, North Carolina 27602

Wildlife Resources Commission P.O. Box 2919 Raleigh, North Carolina 27602

### OHIO

Division of Wildlife Department of Natural Resources 1500 Dublin Road Columbus, Ohio 43212

### OREGON

Fish Commission 307 State Office Building Portland, Oregon 97201

State Game Commission P.O. Box 3503 Portland, Oregon 97208

Oregon State University Corvallis, Oregon 97331

### PENNSYLVANIA

Fish Commission P.O. Box 1673 Harrisburg, Pennsylvania 17120

### RHODE ISLAND

Division of Conservation
Department of Natural Resources
83 Park Street
Providence, Rhode Island 02903

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Division of Game and Freshwater Fisheries Wildlife Resources Department 1015 Main Street, Box 167 Columbia, South Carolina 29202

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Fish and Game Department 151 Main Street Montpelier, Vermont 05602

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Marine Resources Commission P.O. Box 756 Newport News, Virginia 23607

Commission of Game and Inland Fisheries 4010 West Broad Street, P.O. Box 11104 Richmond, Virginia 23230

Fisheries Research Institute Gloucester Point, Virginia 23602

### WASHINGTON

Department of Game 600 North Capitol Way Olympia, Washington 98501

Department of Fisheries Room 115, General Administration Building Olympia, Washington 98501

Fisheries Research Institute University of Washington Seattle, Washington 98105

### WISCONSIN

Department of Natural Resources P.O. Box 450 Madison, Wisconsin 53702

As the Nation's principal conservation agency, the Department of the Interior has basic responsibilities for water, fish, wildlife, mineral, land, park, and recreational resources. Indian and Territorial affairs are other major concerns of this department of natural resources.

The Department works to assure the wisest choice in managing all our resources so that each shall make its full contribution to a better United States now and in the future.

