



INTERSTATE COMMISSION ON THE POTOMAC RIVER BASIN

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THE POTOMAC RIVER AMERICAN SHAD RESTORATION PROJECT



Photo Credit: David Hawxhurst



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The American shad was once one of the East Coast's most abundant and economically important fish. By the mid-1970s, water pollution, over-harvesting, and the blocking of spawning habitat by dams led to their decline, resulting in imposition of harvest moratoria that still are in effect. Despite significant improvements in water quality made during the last several decades, American shad stocks remained depressed in the Potomac River until the mid-1990s. Then, in 1995, the Interstate Commission on the Potomac River Basin (ICPRB) began leading an American shad stocking project with the assistance of local watermen and the U.S. Fish and Wildlife Service's (USFWS) Harrison Lake National Fish Hatchery. The stocking program was designed to imprint shad to the historic spawning and nursery waters and help rebuild Potomac River American shad stocks.

Since 1995, when the stocking program began, more than 19-million American shad fry have been stocked in the Potomac River, and another 17 million in the Rappahannock River in Virginia. The number of adult shad collected during brood-stock collections has tripled. Young



Photo Credit: Mike Bailey

shad also have become substantially more numerous in the Potomac, eclipsing records for seven of the last eight years in Maryland's shore monitoring surveys that have been performed since 1959 (Figure 1).

While the Potomac is leading the comeback of American shad, strong efforts are being made to restore the fish in other Chesapeake Bay tributaries. The Potomac is now the egg source for restorative efforts from the Susquehanna to the Rappahannock. Since 2003, ICPRB has been working with the Virginia Department of Game and Inland Fisheries to restock the Rappahannock.

The American shad population in the Potomac is again strong enough to allow some harvest. Since 2003, the commercial fishery has opened a bit, allowing watermen to keep two bushels a day. Potomac shad are back in the marketplace. The recreational fishery, which is primarily at and upstream from Washington, D.C., remains closed. Until necessary regulatory hurdles are passed, anglers can practice catch-and-release fishing for shad. This is a good way to again learn about shad; how much of a challenge they can be to catch on hook and line, how pretty they are, and their importance to the ecosystem. Perhaps the most spectacular setting for this is the stretch of river from Great Falls to Fletcher's Boat House near Little Falls. In the not too distant future expect to be able to catch, take home, and enjoy the fish as our ancestors once did.



Photo Credit: Jim Cummins

The restoration project reached out to the public in a very large way. Hundreds of volunteers have helped during the late-night hours of spring brood-stock collections. Thousands of students from dozens of area schools have participated, both on the river and raising shad fry in classrooms through a "Schools in Schools" partnership with Living Classrooms, Inc., the Anacostia Watershed Society, with assistance from the Earth Conservation Corps (the Chesapeake Bay Foundation), and the Potomac Conservancy. Through the students' efforts, an estimated 211,000 additional fry also have been released. Interest in angling for American shad is growing rapidly, thanks to the strong public outreach and participation component.

The ICPRB and USFWS successfully completed the eight-year American shad stocking program, a fishway (structure for fish to swim upstream) was constructed at Little Falls Dam in 2000 by the U.S. Army Corps of Engineers, and our understanding of the shad in the Potomac River has

expanded. The efforts of the multi-state, multi-agency/organization Little Falls Task Force¹ are coming to fruition and fishing is being reopened.

Future Needs

Monitoring and keeping track of restoration progress are more important than ever if we want to reopen the commercial and recreational American shad fisheries so valuable to our economy. Unfortunately, funding support for these critical activities, normally hard to obtain, has become increasingly difficult. The recreational fishery should be opened to allow one adult shad per day to be kept by anglers. More public education is necessary to restore interest in this remarkable, delicious fish, one of the most important to the vitality of river and coastal ecosystems and significant in the country's history.

Past Funding Support

The project has been supported from its inception in 1995 by a number of collaborating agencies and organizations, including the Virginia Chesapeake Bay Restoration Fund, Maryland Chesapeake Bay Trust, Potomac River Fisheries Commission, National Fish and Wildlife Foundation, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Chesapeake Bay Program, Maryland Department of Natural Resources, ICPRB, and private donations from members of the Congressional Sportsmens Caucus.



Photo Courtesy of the U.S. Army Corps of Engineers.



Photo Credit: Jim Cummins

¹ Members of the Little Falls Fish Passage Task Force come from Virginia, Maryland, the District of Columbia, ICPRB, Potomac River Fisheries Commission, USFWS, U.S. Army Corps of Engineers, National Biological Survey, U.S. Environmental Protection Agency, National Park Service, National Marine Fisheries Service, Montgomery County, Md., Chesapeake Bay Foundation, and the Potomac Conservancy.

**Juvenile American Shad Captured by
Maryland Shore Haul Seine Survey 1959-2007
Potomac River, Geometric Mean Catch per Haul
Data From MD DNR, Chart by ICPRB**

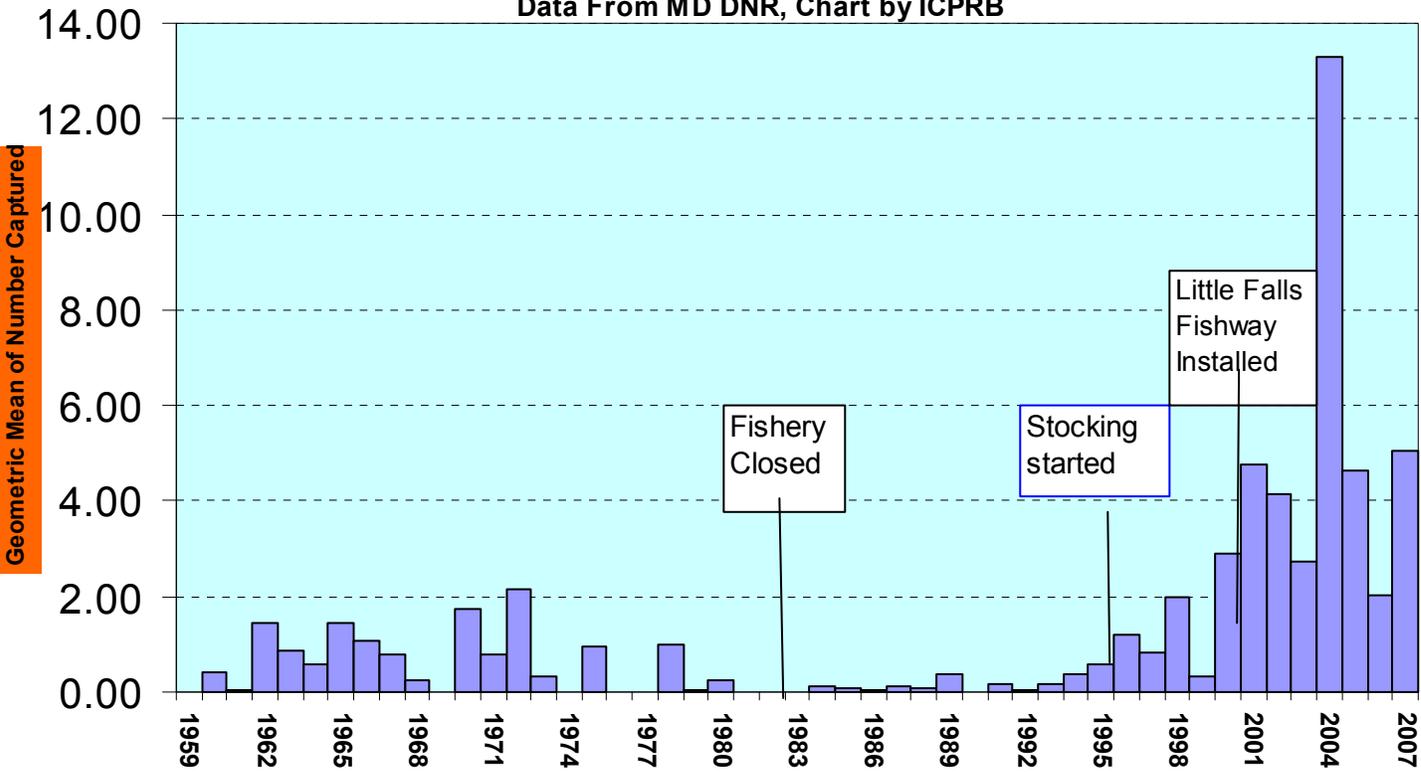


Figure 1. Young-of-the-Year shad captured by the Maryland DNR Shore Haul-seine survey, 1958-2007, with a comparison of those captured in the Potomac with those captured in all other Maryland systems surveyed (Data provided by Eric Durell, Maryland Department of Natural Resources).

Created with an interstate compact by an Act of Congress in 1940, the Interstate Commission on the Potomac River Basin (ICPRB) is composed of commissioners representing the federal government, the states of Maryland, Pennsylvania, Virginia, West Virginia, and the District of Columbia. The ICPRB mission is to enhance, protect, and conserve the water and associated land resources of the Potomac River basin and its tributaries through regional and interstate cooperation.

ICPRB accomplishes this mission through a variety of actions to conduct, coordinate, and cooperate in studies and programs in the areas of water quality, water supply, living resources, and land resources. The Section for Cooperative Water Supply Operations on the Potomac River (CO-OP), a special section of the Commission, was created as a technical operations center for management and coordination among the regional water utilities to avoid water supply shortages in Metropolitan Washington during droughts.

For additional information contact the Interstate Commission on the Potomac River Basin at 301-984-1908, or visit its website at <http://www.potomacriver.org>