



Occoquan Reservoir Fisheries Management Report 2016

Occoquan Reservoir is a 2,100 acre water supply impoundment that forms the boundary between Fairfax and Prince William counties and is home to the best bass fishery in the Northern Virginia district. The Fairfax Water Authority operates the reservoir which serves the residents of Fairfax and the City of Alexandria. Three developed marinas on the reservoir provide rental boats, bait, tackle, snacks, and a boat launching facilities. DGIF began fish management of the reservoir in 1961 and the fishery currently supports populations of Largermouth Bass, Bluegill, Redear Sunfish, Black and White Crappie, Warmouth, Yellow Perch, Flathead and Channel Catfish.

DGIF fisheries biologists sample the fishery approximately every 3-5 years. Most recently, an electrofishing sample was conducted in May 2015. Biologists employ numerical descriptors of length-frequency data such as Proportional Stock Density (PSD) and Relative Stock Density (RSD) when evaluating fish populations. Proportional Stock Density is calculated by dividing the number of fish \geq minimum quality length by the number of fish \geq minimum stock length x 100. Quality length is defined as the minimum size of fish most anglers like to catch. Stock length is the minimum length at which a fish provides recreational value. Relative Stock Density (RSD) is simply the percentage of any designated length group found within a population. RSD is calculated by dividing the number of fish \geq specified length by the number of fish \geq minimum stock length x 100.

Largemouth Bass are the number one species pursued by anglers visiting Occoquan Reservoir. Electrofishing in May 2015 yielded 146 bass/hr of sampling. Catch rates in 2015 were better than the 113 fish/hr collected in 2012, and Occoquan Reservoir regained the top spot in the district for catch of "Preferred" size bass.

Occoquan Reservoir's bass population in 2015 ranked first out of 20 impoundments managed in the district for Catch Per Effort (CPE) of preferred fish (greater than 15 inches) and is a top destination for anglers in Northern Virginia. Currently, the size structure of the population is excellent (PSD 78, RSD-P 43) with bass available in all size classes up to 22 inches. Occoquan Reservoir has consistently ranked as one of the top resources in Northern Virginia for over a decade. Fisheries data has remained relatively consistent over the years and anglers should expect good numbers of fish in the 4-6 pound range, with an occasional larger fish. A combination of heavy fishing pressure, excellent habitat, and an abundance of forage may make it more difficult to consistently catch the larger fish, however; patience is the key and anglers willing to try different techniques and lures to match the prevailing conditions should find success.

Occoquan Reservoir has a crappie population with excellent size structure (PSD 98, RSD-P 58) offering anglers the opportunity to catch crappie as large as 15 inches. Most impoundments in Virginia contain Black Crappie, however; Occoquan Reservoir is unique in that White Crappie are also present. This is the only impoundment in the district where White Crappie are found. White crappie typically run larger than Black Crappie and the two species can be easily distinguished by counting dorsal spines. Black Crappie generally have 7-8 dorsal spines, whereas; White Crappie have 5-6 dorsal spines. Anglers consistently catch fish around boat docks, fish attractors, or brush piles utilizing a variety of methods ranging from small jigs, spinners, or flies fished with ultra light spinning gear or more traditional tactics such as fishing small minnows with a cane pole and bobber. Remember that crappies are a schooling fish, and once a fish is caught it is likely that several more will be caught in close proximity.

The size structure of Bluegill has decreased considerably since the early 1990's, with limited fish found in the 5-7 inch range. Bluegill catch rates are high at 159 fish/hr, but size structure remains poor (PSD 22, RSD-P 0) and is consistent with a large robust Largemouth Bass population. Bream fishing does not have to be complicated, anglers may use live bait such as worms or crickets with hopes of enticing a strike. Some anglers prefer to use ultra light spinning gear or fly fishing gear to present small lures or flies.

Bream are easy to catch which makes them ideal for introducing young children to the

sport of fishing.

Occoquan provides a good Channel Catfish fishery for anglers living close to the

Beltway. Channel Catfish were first stocked into Occoquan Reservoir in 1964 and were

stocked annually afterwards until 1978. Stocking of catfish occurred on alternate years

between 1981-1991. A good fishery has developed since those initial stockings and the

Channel Catfish are no longer stocked as the population is self-sustaining as a result of

natural reproduction. Anglers can expect to catch fish in the 14-24 inch range, with most

fish averaging about 2 pounds.

Twelve Flathead Catfish were stocked into Occoquan Reservoir in 1965. Since

that initial introduction a small fishery has developed which produced the state record

catch of 66 pounds 4 oz., caught and released by Mike Willems in May 1994. Anglers

may want to concentrate their efforts in areas around rocky bluffs in close proximity to

deep water. Live bream are the bait of choice and are often fished on the bottom with a

slip sinker rig.

Several parks offer boat rentals and bait. Fountainhead Park (Fairfax County) is

off of Route 123 near Woodbridge. Bull Run Marina Regional Park can be accessed off

of Rt. 612 near the upper end of the reservoir. More information about Bull Run Marina

Regional Park and Fountainhead Park is available from the Northern Virginia Regional

Park Authority (703-352-5900). Lake Ridge Park is in Prince William County and is

operated by the Prince William County Park Authority. Take Route 123 to Davis Ford

Road/Old Bridge Road; turn left and go 5.5 miles to Hedges Run Road; turn right and go

to the first hard surface road, and turn left into the park. For more information about Lake

Ridge, call 703-792-7060.

More Information

Northern Virginia Regional Park Authority Headquarters

5400 Ox Road

Fairfax Station, VA 22039

Phone: (703) 352-5900

TDD: (703) 352-3165

FAX: (703) 273-0905

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Email: Info@NVRPA.org

Office Hours: Monday-Friday, 8 a.m. - 4:30 p.m.

Lake Ridge Park Prince William County Park Authority 12350 Cotton Mill Drive Woodbridge, VA 22192 Marina: (703) 494-5288 TTY: (703) 791-4068

Virginia Department of Game and Inland Fisheries 1320 Belman Road Fredericksburg, VA 22401 540-899-4169