



Butterfield Lake



General Lake Information

Location: Town of Redwood

County: Jefferson

Basin: St. Lawrence River

Size: 406.6 hectares (1,004.3 acres)

Lake Origins: Natural

Watershed Area: 1,720 hectares (4,248.4 acres)

Retention Time: 2.28 years

Mean Depth: 4.4 meters

Sounding Depth: 14.5 meters

Public Access: DEC launch

Fish Species Present: Largemouth Bass, Smallmouth Bass, Northern Pike, Black Crappie, Bluegill, Brown Bullhead, Yellow Perch

Major Tributaries: Black Creek, unnamed tribs

Lake Tributary To... Black Creek to Black Lake to Oswegatchie River to St. Lawrence River

WQ Classification: B

Lake Outlet: Latitude: 44.343 Longitude: -75.754

CSLAP Participant: 1986-2015

Butterfield Lake Cottage Owners Association

Historical Water Quality Data

Butterfield Lake has been part of the Citizens Statewide Lake Assessment Program (CSLAP) since 1986. CSLAP reports can be found on the New York State Federation of Lake Associations (NYSFOLA) website at www.nysfola.org.

Butterfield Lake was sampled by the NYSDEC Division of Water as part of an ambient lake monitoring program in 1979 and 1986, and as part of the U.S. Environmental Protection Agency Eastern Lakes Survey in the fall of 1984. These monitoring programs showed water quality conditions similar to those measured through CSLAP.

The lake was also sampled as part of the NYS Conservation Department (predecessor to the NYSDEC) survey of the St. Lawrence River basin in 1931. This study, conducted in late June, did not report water transparency measurements, but it found some dissolved oxygen reduction in deeper waters of the lake. However, this study did not find oxygen depletion (the lowest readings were 2 parts per million near the bottom), while present-day deep-water phosphorus data indicates that oxygen deficits now occur at the lake bottom. This indicates that the transition from low-to-no oxygen conditions near the lake bottom has occurred over the last 70 years. The pH readings from this survey, the only parameter common to CSLAP and this study, have probably changed little over this period.



Lake Uses

Butterfield Lake is a **Class B lake** which means that the best intended use for the lake is for contact recreation - swimming and bathing; non-contact recreation - boating and fishing, aquatic life; and aesthetics. The lake is used by lake residents and the public for a variety of recreational purposes and can be accessed via a DEC boat launch site.

Butterfield Lake has been regularly stocked with walleye, up to 4.6 million 0.4 to 4.8 inch fish annually (larger fish are generally stocked in quantities ranging from 5,500 to 20,000). Fish species identified at the lake include black bullhead, black crappie, bluegill, largemouth bass, northern pike, smallmouth bass, walleye and yellow perch.

General statewide fishing regulations apply to Butterfield Lake. In addition, open season for walleye is the 1st Saturday May through March 15, with a minimum size of 18" and a daily limit of three fish. Ice fishing is allowed. There is an open season and no size or daily take limits for yellow perch and sunfish. There are no lake-specific fish consumption advisories on Butterfield Lake.

