Ohio Water Resource Inventory

Volume 3:

Ohio's Public Lakes, Ponds, & Reservoirs

Division of Surface Water

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Introduction

A. Background.

Section 305(b) of the Clean Water Act (CWA) requires each state to report on the water quality of its lakes/ponds/reservoirs that are classified under State Water Quality Standards. In addition, Section 314 of the Act (Clean Lakes Program) requires each state to report on the overall condition of its public lakes including trophic state, impaired/threatened uses, impact from toxic chemicals, and status and trends of water quality. This report is submitted to fulfill these requirements and revises the 1980, 1982, 1988, 1990, 1992, and 1994 State of Ohio 305(b) lake water quality inventory reports. This report also summarizes data collected by the Ohio EPA in 1993, 1994, and 1995 for Section 314 Lake Water Quality Assessment grants (see Appendix I). This report also restates the Ohio Lake Condition Index (Ohio EPA 1988a, 1990b; Davic and DeShon, 1989). The Ohio Lake Condition Index (LCI) was developed by the Ohio EPA for the 1988 305(b) reporting cycle, and is used in this report to: 1) determine if Ohio's public lakes are meeting Clean Water Act goals of fishable and swimmable waters, (2) determine the extent that Ohio's lakes are meeting designated uses under Ohio Water Quality Standards, (3) document temporal changes in the status of lake water quality, and (4) classify the overall ecosystem condition of Ohio's inland lakes.

Federal guidance for the 305(b) report requires that lakes be classified into one of five possible use attainment categories: (1) insufficient data, (2) full use attainment, (3) full use attainment, but threatened, (4) partial use, non- attainment, and (5) impaired use, non-attainment. Many of Ohio's lakes have multiple uses and may show partial use support or impairment for one use but full use for another. For this report, each lake was assessed for all possible uses, whether or not those uses are currently being realized. For each of Ohio's 446 public lakes, separate use assessments were made for: (1) aquatic life use support, (2) recreational use support, (3) public drinking water supply use support and (4) fish tissue consumption use support.

The methodology used to determine attainment of designated uses has been modified for this 1996 report in response to federal 305(b) guidance that lakes found to have "partial" use attainment must be reported as being "impaired." This guidance was not followed in previous versions of the Ohio 305(b) report, i.e., partial use lakes were not considered to be "impaired," but were ranked between full use and impaired use attainment. As such, in their previous reports to Congress (1990 to 1994) the US EPA misidentified the total number of "impaired" lakes in Ohio. In order to eliminate confusion in the use of the concept of "impaired" use, the Ohio EPA has, for this 1996 305(b) update, adopted the US EPA guidance that "partial" use lakes are to be reported as having "impaired" use attainment. A revised LCI use attainment flow chart is presented in Appendix A of this 1996 report. Using this revised procedure, all lakes meeting the criteria of "partial" and "impaired" use attainment meet the US EPA definition of having an "impaired" condition. A revised use attainment summary for Ohio's 446 lakes is provided in Appendix H of this 1996 report. To allow for long term consistency in the reporting of use attainment, all historical data have been revised to reflect the changes in the Appendix A flow chart. Impairment of a use, either "partial" or "impaired" condition, does not necessarily mean that the lake cannot be used for that activity, nor that a public health hazard exists. Both partial use and impaired use lakes represent high priority lakes in need of more intensive study to determine the severity of the problem, to identify problem causes and sources, and to develop lake and watershed restoration alternatives (i.e., Section 314 Phase I Diagnostic and Feasibility projects). Conversely, lakes judged to have full use attainment need to have lake and watershed "protection" plans developed and implemented to insure that the higher quality water resource is maintained over time. All lake data used to generate this volume of the 1996 305(b) Report are stored on computer diskettes that are available from the Ohio EPA, Division of Surface Water, 1800 Watermark Drive, Columbus, Ohio 43266–0149, (614) 728–3388.

B. Inventory of Ohio's Public Lakes

According to information provided by the Ohio Department of Natural Resources, there are approximately 50,000 lakes and small ponds in Ohio with a total surface area of about 200,000 acres (ODNR, unpubl.). About 2200 of these lakes are 5 acres or greater with a total surface area of 134,000 acres (ODNR, 1980). These 2,200 lakes include both public and private lakes. The USEPA estimated (from an electronic file generated from 1:100,000 scale maps) that Ohio has 5,130 lakes totaling 188,461 acres (USEPA 1991). The difference in number of lakes estimated by USEPA and ODNR is likely related to numerous small ponds (high number, small acreage) not detected on the 1:100,000 scale maps.

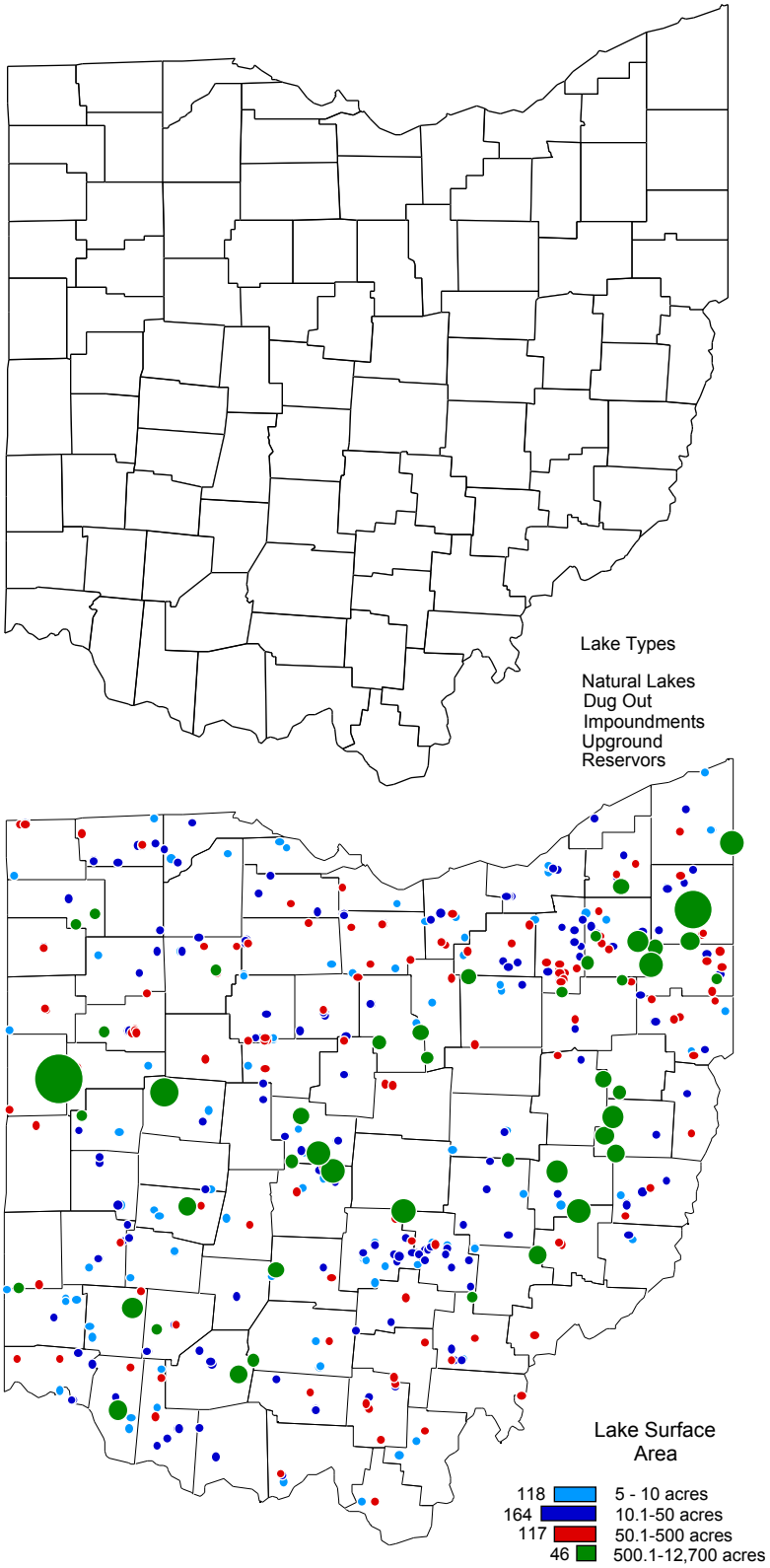
For this 1996 reporting cycle, 446 public lakes more than 5 acres have been identified. These 446 public lakes have a total surface area of 118,909 acres. A summary of classified uses for all of Ohio's public and private lakes, ponds, and reservoirs is shown in Table 1. The Ohio Department of Natural Resources, Division of Parks and Recreation, manages 63 lakes found in 74 public parks. These parks and lakes receive visits from millions of Ohioans each year.

Table 1. Summary atlas of classified uses for Ohio's lakes, ponds, and reservoirs (includes public and private lakes of all sizes).

Classified Use	Size Classified for Use (acres)
REC	Primary Contact Use 200,000 [1]
EWH	Aquatic Life Uses 193,903 [2]
PWS	Public Water Supply 118,909 [3]
SRW	State Resource Water 118,909 [3]

[1] Estimated from ODNR (1982), both public and private lakes, all sizes. Lakes are not specifically given a primary contact recreation use in OAC Chapter 3745-1, but this use is assumed.
[2] Does not include upground reservoirs, which are exempt from EWH use.
[3] Only includes public lakes over 5 acres.

Map 1. Distribution of Ohio lakes by type of lake (top) and by surface area in acres (Bottom).



A complete listing of Ohio's 446 public lakes is provided in Appendix B of this report. Private lakes and public lakes less than 5 acres surface area are not included in this volume due to a general lack of information. For the purposes of this report, public lakes are defined as those lakes/ponds/reservoirs, including upground reservoirs, where: (1) public access to the water is either owned, managed or leased by a public entity (i.e., federal, state, county, or municipal government agencies; park districts; conservation districts), or (2) the lake water is regulated by the Ohio EPA as a primary or secondary public drinking water supply. For the purposes of the CWA Section 314 program, "Significant Public Lakes" are defined as those public lakes that are freely open to the public for recreation. Significant public lakes are eligible for possible funding under the Clean Water Act Section 314 Clean Lakes Program, which is administered in Ohio by the Ohio EPA, Division of Surface Water. For this 1996 update, 345 (112,281 acres) of Ohio's 446 public lakes greater than 5 acres were identified as "Significant Public Lakes." Significant Public Lakes are listed in Appendix B as recreational use lakes. As of 1996, six of Ohio's 345 significant public lakes have been involved in the Section 314 Clean Lakes Program.

For the State of Ohio Water Inventory, stream impoundments not locally recognized as lakes (e.g., low head dams) are classified under impounded stream segments. The condition of these impounded stream segments can be found in Appendix A of Volume I of the 1996 305(b) Report. An inventory of Ohio's wetlands, which often include open water, is being developed by the Ohio Department of Natural Resources.

Two–hundred seventy-nine (62.6%) of Ohio's 446 public lakes are dammed impoundments, 86 (19.3%) are upground reservoirs, 57 (12.7%) are dug-out lakes, and 24 (5.4%) are natural glacial lakes (Map 1). Table 2 lists the number and total acres of Ohio's public lakes by size classes. Three lakes are more than 5000 acres: Grand Lake St. Marys, Auglaize County (12,700 acres); Mosquito Creek Reservoir, Trumbull County (7,850 acres), and Indian Lake, Logan County (5,104 acres). An additional 27 lakes range between 1,000 and 5,000 acres. Together, the 30 lakes

more than 1000 acres represent 84,336 (71%) of the total acres of public lake water in Ohio. A large number of public lakes (282) are from 5 and 50 acres in size, but these lakes represent only 3.9 %(4,657 acres) of the total acres of public water.

C. Water Quality Assessment Process

In general, prior to 1989 the overall condition of Ohio's lakes was not well known. However, from 1989 to 1995 the Ohio EPA has sampled 141 (31.6%) of its 446 public lakes. Partial funding for this monitoring effort was provided by the US EPA Section 314 Clean Lakes Program. The most extensive lake data now available are for water and sediment chemistry, parameters related to nutrient enrichment (total phosphorus, chlorophyll-a), Secchi disk turbidity, and fecal coliform bacteria. Little quantitative information is available for biological communities in lakes (including fisheries, benthos, and macrophytes). Since 1989, samples for plankton analysis have been collected for most of the 141 lakes, but species have not been enumerated except for a few select lakes. As part of a cooperative effort by three State agencies (Ohio Department of Health, Ohio EPA, and Ohio DNR), samples of fish tissue (fillets) have been analyzed for PCB and select heavy metals for more than 50 public lakes. These data are summarized in Vol IV of this 1996 report. Measured loadings of sediment, nutrients, and toxics from lake watersheds are known for only a few of Ohio's public lakes. Detailed loadings studies have been conducted for the four Section 314 Phase I Diagnostic studies at Winton Woods Lake, Indian Lake, Sippo Lake, and Dillon Reservoir.

Table 2. Number and acres of Ohio's public lakes by size class.

Size (Acres)	Number (%)	Acres (%)
< 5[†]	Unknown	Unknown
5 to9.9	110 (24.7%)	732.1 (0.6%)
10 to 49.9	169 (37.9%)	3,775 (3.2%)
50 to 99.9	49 (11.0%)	3,476 (2.9%)
100 to 499.9	72 (16.1%)	15,163 (12.8%)
500 to 999.9	16 (3.6%)	11427 (9.6%)
1000 to 4999.9	27 (6.1%)	58682 (49.4%)
> 5000	3 (0.7%)	25654 (21.6%)

[†]No inventory exists for public lakes that have less than 5 acres surface area.

For this 1996 report, lakes were assessed using information from a number of sources including: (1) the 1982, 1988, 1990, 1992, and 1994 Ohio 305(b) Reports (Youger 1982; Ohio EPA 1988a, 1990b, 1992, 1994), (2) data collected in 1993, 1994, and 1995 by the Ohio EPA under a Section 314 Lake Water Quality Assessment grant (see Appendix I), (4) Secchi disk data collected in 1988 through 1995 by volunteers in the regional planning area of the Northeast Ohio Four County Regional Planning and Development Organization (NEFCO 1990), (5) data from Ohio's 1988 and 1990 Section 319 Nonpoint Source Assessment Reports (Ohio EPA 1988c, 1990a), (6) trophic state data collected by Fulmer and Cooke (1990) for 19 Ohio reservoirs, (7) 1991 to 1994 Secchi disk data collected by volunteers in the newly established Citizen Lake Improvement Program, a citizen project coordinated by the Ohio Lake Management Society and funded by the US EPA and Ohio Department of Natural Resources, and (8) other sources of information (U.S. Geological Survey, Army Corps of Engineers, U.S. Soil Conservation Service, university studies, etc.).

Passage of the 1987 amendments to the Clean Water Act required each State to expand assessment of lake water quality beyond the concept of nutrient enrichment (i.e. trophic state) to include topics such as violations of water quality standards, attainment of designated uses, and identification of lakes threatened by nonpoint and point sources of pollution. In order to comply with these new federal mandates, the Ohio EPA developed a multiparameter lake assessment process called the Ohio Lake Condition Index (Ohio LCI, Davic and DeShon 1989). The Ohio LCI, as revised in 1992 (Ohio EPA 1992), is used in this 305(b) to assess the overall ecosystem condition of Ohio's public lakes. The revised LCI uses information gathered from 14 different parameters to allow a holistic assessment of the overall condition of the lake ecosystem. The revised LCI is found in Appendix A.

D. Trophic Classification

One of the requirements of the 305(b) process is for States to "classify according to trophic state" their public lakes. No federal guidance has been given on a standardized methodology to use, i.e., it is not known if the classification should refer

to the open water, the lake or ecosystem as a whole, or some combination of both concepts.

Lake eutrophication (i.e. the process of increasing primary production and decreasing lake depth) is a complex process and attempts to define it have a long history (see literature reviews in Hutchinson 1969; Reckhow and Chapra 1983). The term "trophic", derived from the Greek trophe, is defined by Webster as being "of or pertaining to nutrition; having to do with the process of nutrition". According to Reckhow and Chapra (1983), the terms "oligotrophic" and "eutrophic" were first used by Naumann in 1919 as synonyms for "poor in nutrients" and "rich in nutrients" in the open water of a lake. Thus the original use of the trophic concept in a limnological sense was to classify the nutritional status of the open water of lakes, especially with respect to phosphorus and nitrogen.

A second concept of trophic state was developed by Thienemann in 1925 (see review in Hutchinson 1969) and was the first attempt to classify the trophic condition of the entire waterbody or ecosystem. Thienemann recognized "synthetic lake types" which were identified based on observed symptoms of the eutrophication process such as high vs low levels of oxygen, shallow vs deep, high vs low biotic diversity, etc. Value judgements were given to the different levels of "trophic state" such that oligotrophic lakes were viewed to be good lakes and eutrophic lakes impaired.

Hutchinson (1969) suggested a third concept such that a lake and its watershed form a "trophic system," which he defined as the total potential concentration of nutrients in the system. A lake may have low phosphorus in the open water but the lake system may be hypereutrophic because the total nutrient pool is locked up somewhere else in the system, perhaps as macrophyte biomass in the littoral zone, in animals, or in the sediment. Others (i.e., Wetzel 1983) define the trophy of a lake as a measure of the rate at which organic matter is supplied to the lake per unit time.

Carlson (1977, 1991) developed a Trophic State Index (TSI) which uses algal biomass, as estimated using algal chlorophyll, as his definition of "trophic state." Regression equations were developed to allow "trophic state" also to be estimated using measurements of total phosphorus and Secchi disk turbidity. Using the Carlson TSI, the concept of trophic state is considered to be a continuum of algal biomass.

For the 1996 Ohio 305(b) Lakes WRI Report, a modification of the original nutrient enrichment trophic concept of Naumann, and the algal biomass concept of Carlson was used to classify the "trophic state" of the surface water of Ohio's lakes. Following the procedures used in the 1982 Ohio 305(b) lake's report (Youger 1982), total phosphorus, chlorophyll–a concentrations, and secchi disk measurements were converted to Carlson Trophic State Index (TSI) values (Carlson 1977). Calculation formulas from Reckhow and Chapra (1983) are as follows:

Secchi Disk TSI = 60 - 14.41 ln (SD meters)

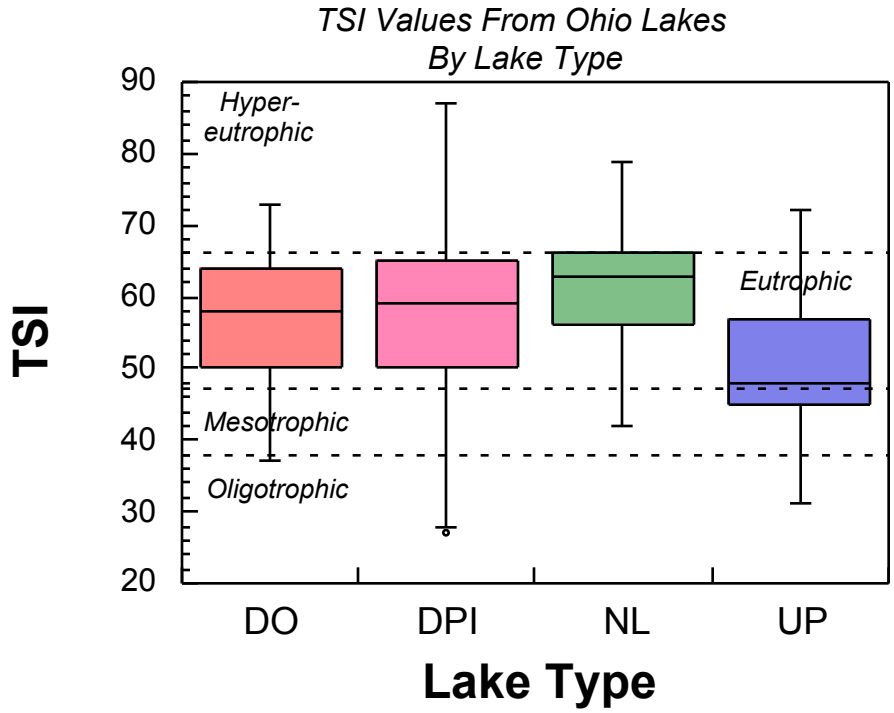
Chlorophyll-a TSI = 9.81 ln (Chl-a ug/l) + 30.6

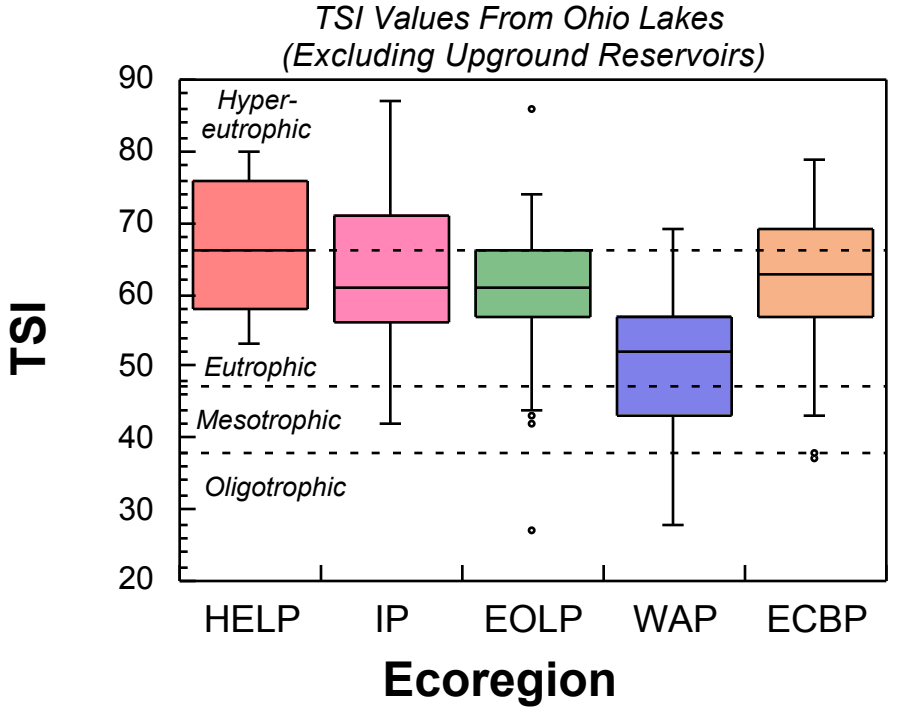
Total Phosphorus TSI = 14.42 ln (TP ug/l) + 4.15

Carlson TSI values for total phosphorus and chlorophyll–a provide a method to quantify the open water "nutrient enrichment" concept of Naumann, and the "algal biomass" concept of Calson (1977). Lakes were considered assessed for the 1996 trophic classification if approved data were available for summer chlorophyll–a (July, August, September) or spring total phosphorus (April, May, June).

Carlson (1977) recommends that summer chlorophyll-a may be the best indicator of trophic state and that phosphorus may not be a good indicator in non-phosphorus limited lakes. He also recommends that consideration be given to using spring total phosphorus over summer total phosphorus to determine annual trophic state given a choice between the two types of data. Following these suggestions, the

Figure 1. Distribution of TSI (Trophic State Index) values in 199 Ohio lakes, ponds, and reservoirs by lake type (Top) and ecoregion (Bottom). Lake type codes: DO - dugout, DPI - dammed Impoundment, NL - natural lake, UP - upground reservoir.





average summer chlorophyll-a TSI and/or the average spring total phosphorus TSI was reported as the Final TSI for any given year. When both sets of data were available, the average of these data was reported as the annual Final TSI. It was believed that use of both summer chlorophyll-a and spring total phosphorus would tend to lessen errors in trophic state determination due to the very small sample sizes that are available for most of Ohio's lakes.

The following TSI ranges taken from the 1982 Ohio 305(b) Report were used to relate Carlson TSI values to standard trophic state terminology: oligotrophic (TSI points <38), mesotrophic (TSI points 38-47), eutrophic (TSI points 48-66), and hypereutrophic (TSI points >66). A summary of trophic state information for 159 (36%) of Ohio's 446 public lakes is provided in Table 3.

It is important to note that the above trophic classification scheme only measures nutrient and algal biomass presence in the water column and does not consider the contribution of nutrients potentially available in the sediment and/or in macrophyte biomass. Ideally, a comprehensive trophic classification protocol would include these other sources of nutrients following the ecosystem approach of Hutchinson (1969).

Table 3. Surface water trophic state classification for 199 public lakes in Ohio, 1996 update. Insufficient data to classify an additional 246 public lakes. Trophic state based on Carlson TP and/or Chl-a TSI values.

Trophic State Lakes Assessed	Number of Assessed	Percentage of Assessed Lakes
Oligotrophic (<38 TSI)	10	4.5%
Mesotrophic (TSI 38-47)	37	18.6%
Eutrophic (TSI 48-66)	120	60.3%
Hypereutrophic (TSI >66)	33	16.6%

As more monitored data become available on nutrient concentrations in plant and animal biomass, and lake sediments, modifications to the above trophic classification may occur in future revisions to the Ohio 305(b) Lakes WRI Report. Regional trophic classification patterns by lake type and ecoregion are illustrated in Figure 1 (also see literature review by Heiskary 1989). TSI values do not differ substantially statewide by lake type except for lower values in upground reservoirs that, through their morphology, control runoff. Another pattern that emerges even from this data is the distribution of low TSI scores in the relatively nutrient poor Western Allegheny Plateau ecoregion and the higher scores in the intensively farmed Huron Erie Lake Plain. This pattern, not surprisingly, matches that observed for streams and rivers in Ohio. Raw data and final trophic classifications for 199 of Ohio's public lakes are provided in Appendix C.

Secchi Disk Information. In the 1982 305(b) "Ohio Lakes" report (Youger 1982), TSI values derived from summer chlorophyll–a, spring total phosphorus, and summer Secchi disk depths were summed to arrive at a final trophic state value. However, because Secchi depth readings may be a poor indicator of nutrient enrichment in Ohio's lakes due to non–algal turbidity, the use of Secchi data was eliminated from the "trophic state" assessment process in 1988.

Secchi disk turbidity, which is a measure of all algal and non–algal turbidity, is used in the Ohio LCI process to determine potential impairment of recreational use. Lakes with Secchi disk readings less than 4 feet during the recreational season are judged to have threatened use for swimming. Summer Secchi depth TSI values are also useful if compared against summer chlorophyll–a TSI values. A higher TSI based on Secchi depth may indicate non–alga turbidity and possible light limitation of algal growth. Many lakes in Ohio show summer Secchi disk TSI values well above summer chlorophyll–a TSI values, an indication that non–algal turbidity, and not nutrient enrichment, is the cause of elevated TSIs (see Appendix C). In the volunteer Secchi disk program conducted by NEFCO, it was found that over 50% of observations on water color for lakes reported brown or green–brown wa-

ter. Brown water caused by silt would tend to inflate TSI values calculated by Secchi disk. Carlson (1991) has recently developed a technique looking at the differences in TSI values as a way to determine if a lake has algal biomass potentially limited by phosphorus, clay turbidity, nitrogen, or zooplankton grazing . An analysis of Ohio lakes using Carlson's methodology is found in Appendix I.

NEFCO has developed a color strip for their citizen volunteer lake monitoring program that can be used to distinguish lakes that have green, yellow, and brown turbidity. In Ohio, the OLMS/CLIP volunteer program is also collecting lake color data using the NEFCO color strip. The use of the NEFCO color strip may provide a way of relating Secchi disk, lake water color, and TSI values in future 305(b) Lakes WRI reports.

E. Monitored vs Evaluated Data

Federal EPA guidance for the 305(b) Report requires each state to distinguish between "monitored" and "evaluated" data used to assess the water quality of lakes. In general, monitored data (i.e., ambient physical/chemical measurements) are considered to be quantitative, and data collection follows established quality assurance methods. Evaluated data are more subjective and based on best professional judgement. Questionnaire data would be an example of commonly used evaluated data. Federal guidance also requires that historical monitored data (i.e., more than five years old) be considered evaluated for the report process. However, adherence to the five year rule suggested by the USEPA was deemed to be overly restrictive for Ohio due to a general lack of recent monitored data.

For the 1996 305(b) update, monitored lake data included all quantitative data collected by Ohio EPA, or other approved sources, from 1973 to 1996. Evaluated data included responses to a questionnaire distributed by the Ohio EPA in 1987 for the State's nonpoint assessment, and responses to a lake questionnaire distributed from 1989 and 1996 as part of Ohio's Section 314 Lake Water Quality Assessment surveys (Appendix D).

F. Historical Lake Monitoring

Twenty–one (21) Ohio lakes were sampled in the early 1970s as part of the National Eutrophication Survey (see literature summary in the 1982 305(b) Report). Prior to the 1970s, lake surveys were generally restricted to university research or unpublished data collected by various local government agencies.

The first major survey of Ohio's lakes was the cooperative lake monitoring program between the Ohio EPA and the U.S. Geological Survey from 1975 to 1980. Eighty five (85) lakes were sampled to provide baseline data for selected chemical, physical, and biological parameters. The results of this program were published in three volumes (Tobin and Youger 1977, 1979; Angelo and Youger 1985), and also summarized in Youger, (1982). Also conducted in the 1970s were US EPA Clean Lakes Program Phase I Demonstration studies on two Summit County lakes (Summit Lake and Meadow Brook Lake); however, Phase II US EPA applications were not submitted. Meadowbrook Lake was dredged in the early 1980s.

Between 1980 and 1981, the Ohio EPA sampled 26 lakes as part of a Section 314 Clean Lakes Assessment Grant. These data are summarized in the 1982 305(b) Report. Between 1982 and 1989 a small number of lakes were sampled during comprehensive water quality surveys of major river basins. In 1989, Ohio EPA received a Section 314 Lake Water Quality Assessment grant to sample an additional 52 lakes in 1989 and 1990. These data were summarized in Appendix I of Volume 3: Ohio's Public Lakes, Ponds, and Reservoirs of the 1992 Ohio Water Resource Inventory (Ohio EPA 1992). No public lakes were sampled in 1991. Twenty-three lakes were sampled in 1992 and the data summarized in the 1994 Ohio EPA Water Resource Inventory report (Ohio EPA, 1994). Sixty six-additional lakes were sampled by the Ohio EPA between 1993 and 1995 and these data are presented in Appendix H of this 1996 report.

Since 1987 the Ohio EPA has once again become active in the Section 314 Clean Lakes Program. Besides the 1989-1995 LWQA grants, four Clean Lakes Program

Phase I projects have been coordinated by the Ohio EPA (Winton Woods Lake, Hamilton County; Indian Lake, Logan County; Sippo Lake, Stark County, and Dillon Reservoir, Muskingum County). Phase I reports have been finalized for all four lakes. Indian Lake was the first lake in Ohio to receive Section 314 Phase II (Implementation) funding (1990). The Sippo Lake Phase I project was completed in early 1992 and a Phase II project is being implemented. The Dillon Reservoir Phase I study has been completed. In July 1990, the Ohio EPA also received a Clean Lake Program Phase III grant to study the long term effectiveness of alum treatment to control internal release of phosphorus from lake sediments. The grant was issued to Dr. G. Dennis Cooke at Kent State University, Institute of Limnology, and a final report has been submitted to the Ohio EPA (Cooke and Welch, 1995).

The US EPA Section 314 Phase I projects in Ohio (Table 4) have been among the most comprehensive lake and watershed surveys conducted in the State, pooling resources from numerous local, state, and federal government agencies, lake consultants, and universities. However, given the very small number of public lakes in Ohio that are addressed by the US EPA Clean Lakes Program, alternative methods of providing diagnostic–feasibility data for lake restoration and protection must be developed. This has become more critical now that the federal EPA Section 314 program funding has not been reauthorized beyond the 1996 fiscal year. It is anticipated that the assessment of Ohio inland public lakes will be integrated into the new watershed-based assessments that will be conducted by the Ohio EPA in the future.

Lake data available from other sources include the Army Corps of Engineers, who has built 28 dams in Ohio and conducts water quality and sedimentation surveys. Sedimentation surveys have also been conducted by the U.S. Soil Conservation Service (SCS) and the Ohio Department of Natural Resources, Division of Water. Results of all sedimentation surveys in Ohio up to 1975 have been summarized by the U.S. Department of Agriculture (USDA 1975). During the summer of 1988, the SCS conducted detailed sedimentation surveys of 47 lakes in Ohio (SCS 1990). Fulmer and Cooke (1990), working at the Kent State University Institute of Limnol-

ogy, reported "trophic state" data collected for 19 Ohio reservoirs. These data were used to update the trophic state assessment found in Appendix C of this report.

Table 4. Status of US EPA Section 314 Clean Lake Projects in Ohio.

Lake	Status
Summit Lake (Summit County)	Phase I demonstration project. 1978. No Phase II application. Fish tissue advisory for PCBs in Carp. City of Akron lake. Urban lake watershed.
Meadowbrook Lake (Summit County)	Phase I demonstration project. Lake dredged in early 1980s. Summit County SCS follow-up survey in 1991. City of Stow lake. Urban lake watershed.
Winton Woods Lake (Hamilton County)	Phase I completed 1989, Phase II in progress. Army Corps lake, managed by County Park District. Urban lake watershed.
Indian Lake (Logan County)	Phase I completed 1989, Phase II in progress. Ongoing dredging by Ohio DNR. Ohio DNR canal lake. Agricultural lake watershed.
Sippo Lake (Stark County)	Phase I completed 1992. Phase II in progress. County Park District lake. Urban lake watershed.
Dillon Reservoir (Muskingum County)	Phase I completed. Dredging scheduled for 1994. Ohio DNR lake. Mixed agricultural-urban lake watershed.

In 1988, the Northeast Ohio Four County Regional Planning and Development Organization (NEFCO) developed a volunteer Secchi depth monitoring program for both public and private lakes in a four county area of northeast Ohio. Data collected for public lakes in 1988 through 1995 are summarized in Appendix C.

In 1991, the Ohio Lake Management Society (OLMS) developed a statewide Citizen Lake Improvement Program (OLMS/CLIP) that included the collection of Secchi disk data by citizen volunteers. This program was funded in part by a US EPA grant through the Ohio EPA, by the Ohio Department of Natural Resources, and the Gund Foundation. Secchi disk data collected on public lakes by the OLMS/CLIP volunteers from 1991 to 1994 are also included in Appendix C.

The NEFCO and CLIP citizen volunteer Secchi depth programs have added new and useful information for over 100 public and private lakes in Ohio. It is anticipated that the type of data being collected by citizens will be expanded to other measures of lake condition and could provide a major source of both monitored and evaluated data for the Ohio LCI assessment process in future 305(b) reports.

G. Lake Pollution Control Procedures

All public and private lakes, except upground reservoirs, are designated as Exceptional Warmwater Habitat in Ohio's Water Quality Standards-Chapter 3745 of the Ohio Administrative Code. Publicly owned lakes are also designated State Resource Waters. All State Resource Waters are protected as potential public water supplies (PWS). In addition, the Ohio EPA Antidegradation Policy applies to State Resource Waters such that present ambient water quality and uses shall be maintained and protected without exception. All lakes have, at a minimum, a primary contact recreational use designation.

In addition to Water Quality Standards, the Ohio EPA has a States Lakes Policy which is used to establish effluent limitations for new or expanding point source discharges to lakes and reservoirs, and to prevent degradation of these multi-use waters. The most recent revision of the Ohio EPA State Lakes Policy is provided in Appendix E.

The Ohio EPA and county game wardens respond to citizen complaints of spills and fish kills in both public and private lakes in Ohio. Use of chemicals in public lakes to control aquatic plants requires prior approval of the Ohio EPA and the Ohio Department of Agriculture.

From 1981 through 1987, the Ohio EPA funded 33 nonpoint source pollution abatement education/demonstration projects (see OEPA 1991). These projects focused on the reduction of nonpoint pollution from agriculture, mining, oil and gas production, urban runoff, and on-site sewage deposal systems. One of the primary

goals of five of these projects was to reduce nonpoint source loadings to public lakes. Lakes affected by these watershed projects included Rocky Fork Lake, Highland County (soil erosion); Caesar Creek Reservoir, Warren Co. (sediment erosion); Acton Lake, Butler Co. (sediment and nutrient abatement); C. J. Brown Lake, Clark Co. (sediment and nutrient abatement); Beach City Lake, Tuscarawas Co. (sediment and nutrient abatement); and Lake Hope, Vinton Co. (acid mine abatement). From 1990-1994, 78 projects have been completed or are underway using funding ($8.8 million) provided by the Clean Water Act Section 319 program. A list of projects and their status is available (Ohio EPA 1994).

H. Lake Restoration Procedures

Various lake restoration techniques have been used in Ohio's lakes; however, very little quantitative data has been collected to determine how successful the procedures have been in restoring uses. The Ohio Department of Natural Resources conducts an extensive game fish stocking program in numerous public lakes and reservoirs. Fisheries are managed to provide bass, sunfish, and salmonid recreation. Creel surveys, netting, and fish electroshocking techniques are used to track the status of fish populations over time. Ohio DNR has added nutrients to a few nutrient poor oligotrophic lakes in southeast Ohio in an attempt to stimulate game fish production. The Ohio DNR also conducts a sediment dredging program on a select number of state owned lakes each year. A three year dredging project at Madison Lake, Madison County, resulted in the creation of wetland areas adjacent to the lake.

The Army Corps of Engineers and the Ohio DNR use lake level drawdown on a number of lakes and reservoirs in Ohio, partly to control aquatic weed growth in shallow areas, and partly as a fish management technique (Cooke 1988, Ohio Shorelines). The use of triploid white amur (grass carp) was legalized in Ohio in 1987 as a method of controlling aquatic plants. The white amur has been added to numerous lakes and ponds throughout Ohio with unknown success. White amur are made available to the public through the County Extension Program and the Soil

and Water Conservation Districts. Use of alum to control phosphorus release from lake sediments has been used with success in a natural lake with a high rate of internal phosphorus loading (Twin Lakes, Portage County, Private Lake Association, see Cooke et al. 1986). Alum was added to Congress Lake (Stark County) in 1991 to control algae and phosphorus release from lake sediments. Cooke et al. (1986) listed six lakes in Ohio that have used artificial circulation to increase the oxygen of lake water. At least one lake (Silver Lake, Summit County, Private Lake Association) showed mixed success. Hypolimnetic aeration has been used to reduced taste and odor problems and increase oxygen in Lake Hodgson, a mixed use public water supply and recreational lake in Portage County. An unknown number of lake and pond owners use chemicals to treat algae and aquatic weeds; many of these lakes are used for public or industrial water supply. Aquatic weed harvesters are also used in an unknown number of lakes, both public and private. Conyers and Cooke (1983, reviewed in Cooke *et al.* 1986) compared the costs of harvesting and herbicide treatment in a private natural lake in Portage County (East Twin Lake). Cooke *et al.* (1986) reported that polypropylene cover (Typar) was effective in preventing macrophyte growth in an Ohio lake. They also reported that burlap was used with success in Lake Rockwell (Portage County) to control macrophyte growth, although the material decayed after one year. Many large reservoirs managed by the Army Corps of Engineers have summer hypolimnetic withdrawal of water. The effect on lake and downstream water quality is unknown.

NEFCO (1990) reported on lake management techniques used in a four county area in Ohio. Questionnaires were sent to 63 lake owners/managers. The results of the survey are shown in Table 5. A total of 9 lake management techniques were being used. Eighteen lakes (25%) used a combination of two or more techniques. The most common management technique was lake level drawdown (22% of all lakes), followed by addition of white amur (20.9%), dredging (14.3%), weed harvesting (14.3%) and application of chemicals to control aquatic algae and macrophytes (12.7%). It is clear from this NEFCO information that the legalization of white amur in 1987 has had a significant impact on efforts to restore lake uses in Ohio.

Table 5. Lake restoration management techniques used by 63 lakes in the four county NEFCO area in Ohio. 1990 data.

Management Technique	No. of Lakes	% of Lakes
None reported or known	19	30.1%
At least one technique used	44	69.9%
Lake level drawdown	14	22.2%
white amur (grass carp)	13	20.9%
Weed Harvesting	9	14.3%
Dredging	9	14.3%
Chemicals to control algal and aquatic weeds	8	12.7%
Fish removal, restocking	4	6.3%
Circulation	3	4.8%
Alum to remove phosphorus	1	1.6%
Hypolimnetic aeration	1	1.6%

In summary, most of the standard lake restoration techniques have been attempted in Ohio. However, whether or not these restoration measures have been successful in restoring lake uses is largely unknown due to lack of long term monitoring data.

I. Attainment of Designated Uses

Another requirement of the 305(b) report is for States to provide a list of public lakes for which designated uses are impaired, do not meet State Water Quality Standards, or require implementation of lake and watershed management programs to maintain compliance with applicable standards.

Federal guidance for the 305(b) report requires that lakes be classified into one of five possible use attainment categories: (1) insufficient data, (2) full use attainment, (3) full use attainment but threatened, (4) partial use, non-attainment, and (5) impaired use, non-attainment.

Many of Ohio's lakes have multiple uses and may show partial use support or impairment for one use but full use for another. For this report, each lake was assessed for all possible uses, whether or not those uses are currently being real-

ized. For each of Ohio's 446 public lakes, separate use assessments were made for: (1) aquatic life use support, (2) recreational use support, (3) public drinking water supply use support and (4) fish tissue consumption use support.

The Ohio LCI assessment process was used to determine use support and CWA goal attainment for Ohio's 446 publicly owned lakes (see Appendix A for details on use of the LCI assessment process and Appendix H for a summary of LCI parameters for each lake). Table 6 and figure 1 provide a summary of designated use support for Ohio's lakes based on data from the LCI assessment. As shown in Table 6, there is a general lack of sufficient information to assess the majority of Ohio's public lakes. This lack of information represents a deficiency in Ohio's surface water quality monitoring strategy. However, data does exist for most of Ohio's large recreational lakes over 1000 acres; thus, a large percentage of the total surface area of public lakes has been assessed for recreational, aquatic life, and public water supply uses. Fish consumption advisories for elevated PCBs in carp do exist at 2 of the more than 50 public lakes that have been tested, Summit Lake and Nesmith Lake, both in Summit County.

In previous reports the majority of Ohio's lakes that have been assessed fell into the "partial attainment" CWA category. This was due in part to the rather strict requirement in the LCI assessment process that in order for a lake to be judged meeting "full use" it may not show any "threatened (monitored)" [t(m)] conditions for any of the 14 LCI parameters. The LCI assessment process was modified to be consistent with the 305(b) definitions of impaired waters and many lakes that were partially attaining are now considered fully attaining, but threatened (Table 6). Lakes considered fully supporting uses without imminent threats still represent very high quality lakes that should be given high priority for protection from future impacts.

Table 6. Use support summary for Ohio's 446 public lakes, ponds, and reservoirs greater than 5 acres in size.[1] Data generated by the Ohio LCI process.

Use Designat.	Degree of Use Support: Fully Supports	Fully Supports, Threatened	Partially Supports	Does Not Support	Not Assessed
			Aquatic Life (EWH)		
Number:	*7*	*86*	*30*	*13*	*310*
Acres:	*1,651*	*63,174*	*10,686*	*1,302*	*42,096*
			Public Water Supply		
Number:	*6*	*79*	*41*	*8*	*312*
Acres:	*1301*	*40,846*	*33,365*	*673*	*42,724*
			Recreation		
Number:	*8*	*67*	*47*	*16*	*308*
Acres:	*1,392*	*38,499*	*29,793*	*6,852*	*42,373*
			*Fish Consumption**		
	Not Elevated	*Slightly-Moderately Elevated*	*High-Extremly Elevated [2]*	*High-Extremly Elevated [3]*	
Number:	*31*	*30*	*4*	*–*	*381*
Acres:	*41,496*	*42,860*	*1,250*	*0*	*33,303*

*Fish consumption data does not include recent ODH statewide consumption advisory for mercury issued for all inland waters on April 1, 1997.
[1]446 Publicly-owned lakes (118,909 acres).
[2]or public health advisory for selected species.
[3]and public health advisory for all species.

"..recent ODH statewide advisory for mercury and lead issued for all inland waters on April 1 1997."

Impaired Lakes. Appendix Table H lists public lakes with at least one impaired use as judged by the Ohio LCI assessment process. These lakes represent high priority lakes for Section 314 Clean Lake Program Phase I study. The most significant problems with Ohio's lakes and those causing considerable non–support of beneficial uses continue to be volume loss due to sedimentation, aesthetics, nuisance growths of macrophytes, and organic and nutrient enrichment. Turbidity, as determined by Secchi disk transparency, is also a concern in numerous lakes and is probably a reflection of the other problem parameters. Major sources and causes of non–support are shown in Appendices F-1 and F-2.

The number and acreage of lakes considered impaired and the associated causes and sources of that observed impairment have declined significantly from previ-

ous reports as a result of changes in the assessment process (mentioned above). Many lakes that were previously incorrectly classified as "partially" impaired are now correctly classified as threatened and there has been a concomitant increase in the number and acres of lakes associated with various causes and sources of threats (Fig. 2).

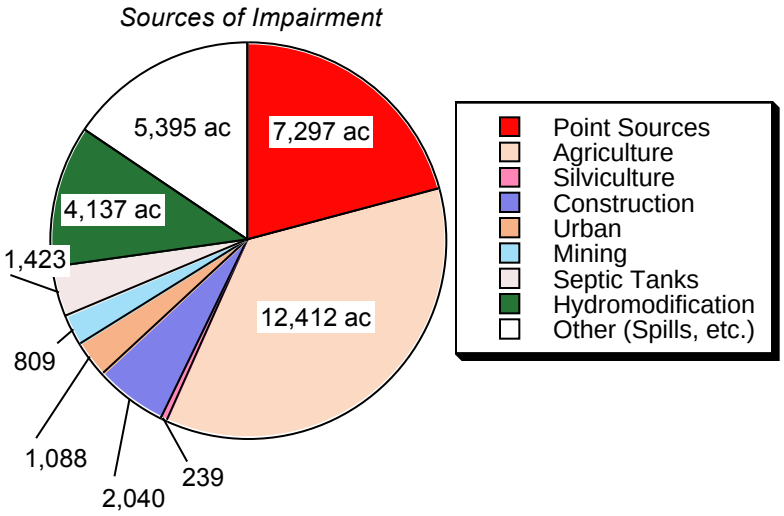


Figure 2. Pie chart illustrating the major and moderate magnitude sources of impairment to Ohio lakes.

As in previous reports major and moderate sources of non-support are primarily nonpoint in origin. Agricultural nonpoint sources are by far having the greatest influence with major and moderate effects on over 12,000 acres and threatening over 28,000 more. Other significant nonpoint sources with major and moderate magnitude impacts include hydromodification (> 4,000 acres), construction (>2,000 acres), urban runoff (> 1,000 acres) and septic tanks (1,400_acres). Point sources (all categories) have major or moderate impacts on greater than 7,000_acres of Ohio lakes. These sources of impact mirror those in Ohio rivers and streams (i.e., the predominance of nonpoint sources) and support a movement toward a watershed approach to water resource restoration in Ohio.

Ohio LCI Classification. One useful feature of the Ohio LCI is its ability to provide a final Lake Condition Index score that can be used to rank the relative resource condition or health of different lakes in Ohio. For this 1996 update, sufficient data were available to calculate and rank final LCI scores for 117 of Ohio's 446 public lakes as shown in Appendix Table H.

Only those lakes with either monitored or evaluated data for at least 12 of the 14 total LCI parameters are included in Appendix H.. A slight modification was made in the method of calculating a final LCI score — the mean coefficient of lake condition was multiplied by 10 to yield a scale ranging from 10 to 100, with a LCI value of 100 representing the highest level of overall lake impairment.

Preliminary LCI data collected on 117 public lakes indicates that lakes with final LCI scores above 30.80 show 100.0% probability of having an impaired use for at least one of three designated uses (i.e., aquatic life, recreation, or public drinking water supply). Lakes with LCI scores below 21.50 show 0.0% probability of having an impaired use. These lakes represent the highest quality lake resources that have been identified in the State, and should be given high priority for watershed "protection" management plans. Lakes with final LCI scores between 21.50 and 30.80 show a mixture of full use and partial use attainment for aquatic life, recreation, and public water supply uses. Appendix Table H should be consulted for specific attainment status for individual lakes.

J. Acid Mine Effected Lakes. Another requirement of the 305(b) report is for States to identify those lakes in which water quality has deteriorated as a result of high acidity that may be due to acid mine drainage. The Ohio LCI assessment uses the Acid Mine Drainage (M) parameter to identify lakes that are potentially impacted by acid mine chemicals such as low pH, high iron, sulfates, and manganese. Water quality criteria for this parameter are found in Appendix A.

Only three of Ohio's 446 public lakes that have been assessed for potential acid mine effects show impaired chemical conditions: Friendship Park Lake, Jefferson Co.; Essington Lake, Perry Co.; and Lake Hope, Vinton Co. For the most part, lakes potentially affected by acid mine drainage in Ohio are found only in the unglaciated Western Allegheny Plateau ecoregion of southeast Ohio where extensive resource extraction (coal mining) occurs.

K. Status and Trends of Lake Water Quality. Tables 7 through 10 provide a summary of the status and trends of water quality information for Ohio's public lakes from 1988, 1990, 1992, 1994, and 1996. The data for these tables were obtained using the Ohio LCI assessment process. The most significant increase in available information has been for the IBI, fish tissue, sediment contamination, and volume loss parameters. These increases in data were primarily the result of the Ohio EPA 1989-90 and 1992 to 1995 Section 314 Lake Water Quality Assessment grants and the 1988 SCS sedimentation survey. Beginning with the 1992 Lake WRI, a significant number of lakes moved from full use to partial use for the non–priority pollutant (NP) LCI parameter due to the addition of a 2.0 mg/l hypolimnetic oxygen criterion. The inclusion of this oxygen criterion results in a more realistic assessment of the overall health of the lake resource.

Perhaps the most obvious conclusion from the data in Tables 7 through 10 and Figure 2 is the fact that a significant number of lakes have not been assessed for most of the 14 Ohio LCI parameters. This represents a deficiency in the Ohio's water quality assessment process. In addition, much of the assessed data are evaluated rather than monitored data. Evaluated data are the only type of data used to assess two LCI parameters– Index of Biotic Integrity (IBI) and nuisance growths of macrophytes.

II. Nonpoint Source Lake Assessment

Section 319 of the Clean Water Act requires each state to report the extent that nonpoint sources of pollution effect waters of the State. The Ohio EPA completed a nonpoint source assessment in 1988, which was updated in 1994 (Ohio EPA 1988b,1990a,1994). As part of this NPS assessment process, a procedure was developed to "target" public lakes with potential nonpoint source pollution problems. This procedure uses 8 of the 14 Ohio LCI parameters as being indicative of nonpoint source pollution: 1) productivity based on summer chlorophyll–a, 2) nutrients based on spring total phosphorus, 3) volume loss due to sedimentation, 4) fecal coliform bacteria, 5) acid mine drainage, 6) aesthetics (fish kills, algae blooms, etc.), 7) prior-

ity pollutant metals, and 8) presence of nuisance macrophytes. A lake was targeted as being NPS impacted if four or more of these eight parameters indicate that full use (fu) was not being attained, regardless of whether the data was monitored or evaluated.

A list of 121 NPS targeted lakes is provided in Appendix G. These lakes are associated with watersheds that have been given a high priority for nonpoint source implementation control measures. Additional details are given in the 1990 State of Ohio Nonpoint Source Assessment (Ohio EPA 1990a).

III. 1996 Recommendations

Efforts since 1988 by the Ohio EPA and other agencies to assess the overall condition of Ohio's lakes should be continued and expanded. Additional data are needed on volume loss due to sedimentation, fish tissue and sediment contamination, and overall health of the biological resource (e.g. through development of biocriteria or assessment criteria for fish, plankton, macrophytes, etc.). More information is needed to determine the source(s) of the elevated levels of mercury that exist statewide in fish tissue and sediment. Besides continuing to obtain Section 314 Phase I and II grants for intensive monitoring of specific lakes, a state funded inland lake monitoring program needs to be initiated to collect baseline and long–term chemical, physical, and biological data for all of Ohio's 446 public lakes. More lakes need to be sampled more often to determine trends in resource condition. A select set of ambient lake stations needs to be established to determine long term trends of lake ecosystem condition, both by ecoregion and lake type. Resources directed to development of lake wetland habitat monitoring procedures and assessment criteria should also be given a high priority.

The volunteer citizen monitoring program established by NEFCO and OLMS/CLIP should be continued and expanded. Resources should be made available to include chlorophyll–a and total phosphorus measurements along with Secchi depth as the minimum monitoring components.

		IBI	NM	A	NP	PPO	PPM	P	N	F	V	S	B	M	SD
Lakes Assesed:	#	2	163	183	93	28	88	126	126	5	156	5	87	101	93
	ac.	17	99,230	101,303	87,529	9,471	90,602	85,776	101,404	545	97,344	358	89,426	90,555	62,334
Lakes Not Assesed:	#	444	283	263	353	418	358	320	320	441	290	441	359	345	353
	ac.	118,892	19,679	17,606	31,380	109,438	28,307	33,133	17,505	118,364	21,565	118,551	29,483	28,354	56,575
Full Use Monitored:	#			35	67	1	56	14	28	3	2	4	76	99	13
	ac.			12,470	55,811	100	60,867	3,283	15,532	365	3,070	258	85,765	90,412	622
Full Use Evaluated:	#	1	89	48							14				23
	ac.	6	59,478	19,337							12,879				13,254
Threat. Use Monitored:	#			38	21		27			2	4	1	7		25
	ac.			36,911	28,052		22,896			180	3,110	100	1,621		2,471
Threat. Use Evaluated:	#	1	73	59	3	27		19	34		133		2		32
	ac.	11	39,741	27,380	3,630	9,371		5,901	4,509		78,111		1,752		45,987
Impaired Monitored:	#			3	2		5						2	2	
	ac.			5,205	36		6,839						288	143	
Eutrophic Monitored:	#							51	34						
	ac.							32,749	39,921						
Hypereutr. Monitored:	#							42	30						
	ac.							43,843	41,442						

LCI parameter abbreviations: IBI=Ohio EPA Index of Biotic Integrity; NM=Nuisance growths of macrophytes; A=Aesthetics; NP=Non-priority pollutants; PPO=Priority organics (toxics); PPM=Priority metals (toxics); P=Productivity (summer chlorophyll-a); N=Nutrients (spring total phophorus); F=Fish tissue contamination; V=Volume loss due to sedimentation; B=Fecal coliform bacteria, M=Acid mine drainage; SD=Secchi disk.

		IBI	NM	A	NP	PPO	PPM	P	N	F	V	S	B	M	SD
Lakes Assesed:	#	28	171	190	105	47	101	133	137	14	173	42	91	113	138
	ac.	27,354	100,157	102,214	88,687	35,056	91,848	86,734	103,170	27,614	101,970	33,541	90,549	91,713	102,538
Lakes Not Assesed:	#	418	275	256	341	399	345	313	309	432	273	404	355	333	308
	ac.	91,555	18,752	16,695	30,222	83,853	27,061	32,175	15,739	91,295	16,939	85,368	28,360	27,196	16,371
Full Use Monitored:	#			39	72	5	77	15	35	12	13	36	80	111	25
	ac.			13,215	48,796	13,230	77,231	3,426	22,170	27,434	10,895	32,703	88,177	91,570	5,791
Full Use Evaluated:	#	11	98	50		14					21				22
	ac.	17,387	70,592	21,473		8,278					13,774				13,093
Threat. Use Monitored:	#		1	45	28		21			2	27	6	8		58
	ac.		183	41,317	36,225		14,301			180	18,287	838	2,017		37,282
Threat. Use Evaluated:	#	12	67	49	3	28		17	31		107		1		33
	ac.	9,579	29,158	20,653	3,630	13,548		5,825	4,343		58,646		67		46,372
Impaired Monitored:	#			7	2		3				2		2	2	
	ac.			5,556	36		316				194		288	143	
Eutrophic Monitored:	#							57	43						
	ac.							40,170	39,028						
Hypereutr. Monitored:	#							44	28						
	ac.							37,313	37,629						

LCI parameter abbreviations: IBI=Ohio EPA Index of Biotic Integrity; NM=Nuisance growths of macrophytes; A=Aesthetics; NP=Non-priority pollutants; PPO=Priority organics (toxics); PPM=Priority metals (toxics); P=Productivity (summer chlorophyll-a); N=Nutrients (spring total phophorus); F=Fish tissue contamination; V=Volume loss due to sedimentation; B=Fecal coliform bacteria, M=Acid mine drainage; SD=Secchi disk.

		IBI	NM	A	NP	PPO	PPM	P	N	F	V	S	B	M	SD
Lakes Assesed:	#	60	180	198	123	61	115	147	151	16	179	48	99	124	153
	ac.	40,203	102,580	104,457	94,818	41,387	95,762	89,298	105,714	27,838	103,314	36,194	94,092	95,412	105,186
Lakes Not Assesed:	#	386	266	248	323	385	331	299	295	430	267	398	347	322	293
	ac.	78,706	16,329	14,452	24,091	77,522	23,147	29,611	13,195	91,071	15,595	82,715	24,817	23,497	13,723
Full Use Monitored:	#		2	46	23	8	93	20	37	14	14	43	87	121	33
	ac.		764	16,980	17,810	14,611	81,203	2,695	22,317	27,658	11,574	35,176	89,580	95,184	7,331
Full Use Evaluated:	#	35	106	55		22					22				20
	ac.	28,938	75,074	23,023		9,428					13,828				9,473
Threat. Use Monitored:	#		1	46	97		19			2	28	5	9		79
	ac.		183	39,261	76,552		13,122			180	18,447	1,018	4,157		51,680
Threat. Use Evaluated:	#	19	66	44	1	31		12	28		110		1		21
	ac.	10,772	26,335	18,377	420	17,348		2,332	2,558		59,123		67		36,702
Impaired Monitored:	#		1	7	2		2				2		2	3	
	ac.		88	6,816	36		112				194		288	228	
Eutrophic Monitored:	#							75	58						
	ac.							47,674	45,240						
Hypereutr. Monitored:	#							40	28						
	ac.							36,597	35,599						

LCI parameter abbreviations: IBI=Ohio EPA Index of Biotic Integrity; NM=Nuisance growths of macrophytes; A=Aesthetics; NP=Non-priority pollutants; PPO=Priority organics (toxics); PPM=Priority metals (toxics); P=Productivity (summer chlorophyll-a); N=Nutrients (spring total phophorus); F=Fish tissue contamination; V=Volume loss due to sedimentation; B=Fecal coliform bacteria, M=Acid mine drainage; SD=Secchi disk.

		IBI	NM	A	NP	PPO	PPM	P	N	F	V	S	B	M	SD
Lakes Assesed:	#	82	192	209	137	66	129	159	165	18	189	65	108	138	163
	ac.	56,854	103,506	105,034	95,499	40,627	96,443	90,775	106,395	28,192	103,914	51,980	94,667	96,093	105,678
Lakes Not Assesed:	#	364	254	237	309	380	317	287	281	428	257	381	338	308	283
	ac.	62,055	15,403	13,875	23,410	78,282	22,466	28,134	12,514	90,717	14,995	66,929	24,242	22,816	13,231
Full Use Monitored:	#		2	53	25	14	105	25	45	16	14	54	93	135	34
	ac.		764	17,518	22,037	15,041	81,866	3,174	22,606	28,012	11,574	49,381	89,135	95,865	7,611
Full Use Evaluated:	#	47	113	52		22					28				17
	ac.	36,514	82,060	21,749		9,428					14,287				8,717
Threat. Use Monitored:	#		2	54	109		21			2	29	10	11		95
	ac.		231	41,858	73,006		13,140			180	18,532	2,262	4,877		67,544
Threat. Use Evaluated:	#	29	69	42	1	30		11	28		113		1		17
	ac.	19,847	20,215	17,081	420	16,158		1,142	2,558		59,179		67		21,806
Impaired Monitored:	#		1	8	2		2				2	1	3	3	
	ac.		88	6,828	36		112				194	337	588	228	
Eutrophic Monitored:	#							82	67						
	ac.							48,564	64,663						
Hypereutr. Monitored:	#							41	25						
	ac.							37,895	16,568						

LCI parameter abbreviations: IBI=Ohio EPA Index of Biotic Integrity; NM=Nuisance growths of macrophytes; A=Aesthetics; NP=Non-priority pollutants; PPO= Priority organics (toxics); PPM=Priority metals (toxics); P=Productivity (summer chlorophyll-a); N=Nutrients (spring total phophorus); F=Fish tissue contamination; V=Volume loss due to sedimentation; B=Fecal coliform bacteria, M=Acid mine drainage; SD=Secchi disk.

		IBI	NM	A	NP	PPO	PPM	P	N	F	V	S	B	M	SD
Lakes Assesed:	#	139	222	236	179	80	170	192	198	58	217	117	138	179	198
	ac.	83,436	102,975	103,420	97,976	48,227	97,067	93,535	105,372	80,351	103,438	69,972	91,871	97,560	105,014
Lakes Not Assesed:	#	307	224	210	267	366	276	254	248	388	229	329	308	267	248
	ac.	35,473	15,934	15,489	20,933	70,682	21,842	25,374	13,537	38,558	15,471	48,937	27,038	21,349	13,895
Full Use Monitored:	#	2	5	81	38	27	141	33	58	56	12	82	119	175	48
	ac.	61	1,429	26,337	20,415	22,726	89,944	2,383	18,048	80,171	7,437	60,995	83,687	97,311	13,009
Full Use Evaluated:	#	88	135	45	1	21					60	1		1	15
	ac.	62,301	89,283	14,294	54	9,032					21,814	18		21	6,603
Threat. Use Monitored:	#		3	64	136	7	24			2	29	26	15		123
	ac.		238	40,327	77,025	3,173	5,636			180	31,216	8,026	7,529		72,828
Threat. Use Evaluated:	#	40	70	38	1	25		8	24		108		1		12
	ac.	20,431	11,741	15,634	420	13,296		611	1,986		42,539		67		12,574
Impaired Monitored:	#		1	8	3		4				2	8	3	3	
	ac.		88	6,828	62	3,173	162				194	933	588	228	

		P	N
Eutrophic Monitored:	#	103	87
	ac.	56,436	71,418
Hypereutr. Monitored:	#	47	29
	ac.	34,098	13,920

LCI parameter abbreviations: IBI=Ohio EPA Index of Biotic Integrity; NM=Nuisance growths of macrophytes; A=Aesthetics; NP=Non-priority pollutants; PPO= Priority organics (toxics); PPM=Priority metals (toxics); P=Productivity (summer chlorophyll-a); N=Nutrients (spring total phophorus); F=Fish tissue contamination; V=Volume loss due to sedimentation; B=Fecal coliform bacteria, M=Acid mine drainage; SD=Secchi disk.

IV. Appendix Tables.

1. Appendix A. Revised Ohio Lake Condition Index assessment process.

2. Appendix B. List of Ohio's public lakes/reservoirs/ponds greater than 5 acres surface area.

3. Appendix C. Trophic state classification and TSI data for public lakes greater than 5 acres surface area.

4. Appendix D. Ohio Lake Condition Index questionnaire.

5. Appendix E. Ohio State Lakes Policy.

6. Appendix F-1. Relative assessment of causes of impairment (acres) causing partial and non-support of designated uses in lakes, ponds, and reservoirs in Ohio.

7. Appendix F-2. Relative assessment of sources of impairment (acres) causing partial and non-support of designated uses in lakes, ponds, and reservoirs in Ohio.

8. Appendix G. List of nonpoint source targeted lakes.

9. Appendix H. Summary of LCI parameters for Ohio's 446 public lakes.

10. Appendix I. Report on Ohio EPA's 1993, 1994, and 1995 Lake Water Quality Assessment grant.

11. Appendix J. Ohio Department of Health statewide fish advisory.

APPENDIX A

1996 Revised Ohio Lake Condition Index (LCI)

The Ohio Lake Condition Index (Ohio LCI) was developed by the Ohio EPA for the 1988 305(b) reporting cycle. The LCI is a multiparameter (14 metrics in the 1992 revision) lake classification scheme that is used to quantify the overall condition or ecosystem health of Ohio's public lakes, as required by Sections 305 and 314 of the Clean Water Act. Specifically, it is used to (1) determine if water quality standards are being realized in Ohio's public lakes, (2) to evaluate attainment of designated uses and the fishable and swimmable goals of the Clean Water Act, (3) to rank the relative condition or health of Ohio's public lakes, and (4) to "target" lakes potentially effected by nonpoint source pollutants as required by Section 319 of the Clean Water Act.

The Ohio LCI was developed with sufficient flexibility to meet expected revisions in federal EPA guidance for the 305(b) Report. The original 1988 Ohio LCI protocol (Ohio EPA 1988a) was revised and published in 1989 (Davic and DeShon 1989) and modifications were made for the 1990 Ohio 305(b) report cycle (Ohio EPA 1990b). Further revisions, in response to changes in federal EPA guidance, were subsequently made for the 1992 and 1996 reporting cycle.

A. Assessment of designated uses and level of lake impairment.

Federal guidance for the 1992 305(b) Report for lakes required each State to summarize, at a minimum, the degree of impairment for the following designated uses: (1) aquatic life, (2) public drinking water, (3) recreation, i.e., the "swimmable goal of the Clean Water Act", and (4) fish consumption. For each designated use (EWH, REC, TISSUE, PWS), four levels of attainment are allowed as shown below:

Full Use, Full Attainment
Threatened Use, Full Attainment
Partial Use, Non-Attainment
Impaired Use, Non-Attainment

The Ohio LCI uses different sets of parameters or metrics to evaluate attainment of designated uses. For example, to determine attainment for "recreational use (REC)", eight LCI metrics are assessed (e.g., Secchi Disk (SD); Index of Biotic Integrity (IBI); Nuisance growths of Macrophytes (NM); Aesthetics (A); Algal Production (P); Volume loss due to sedimentation (V); Sediment contamination (S); and fecal coliform bacteria (B)). More than 50% of the required LCI metrics must have either monitored (m) or evaluated (bpj) data--this is called the 50% rule. If sufficient data are not available, then the lake is added to the State's continuing assessment process and it is reported in the 305(b) Report that the lake in question could not be assessed for that specific designated use due to lack of data.

For the 1992 305(b) Report, minor changes were made to the sets of LCI metrics that are used to determine attainment for each designated use. These 1992 revisions are shown in Figure 1, Appendix A. Changes in federal guidance also resulted in the use of both monitored and evaluated to determine attainment of designated uses for aquatic life and public drinking water supply, however, greater weight is given to monitored data in the assessment process and calculation of final LCI scores.

B. Calculation of final LCI scores.

Calculation of a final LCI score provides a method for ranking the relative condition or ecosystem health of different lakes. The protocol used to calculate a final LCI ranking is presented in Davic and DeShon (1989), with some minor modifications added for this 1992 report. The final LCI score is calculated as the sum of subindex points, divided by the total number of parameters assessed (either 12, 13, or 14), multiplied by a factor of 10. This results in a mean coefficient of lake condition with a potential range of values from 10 to 100, with 100 representing the highest level of ecosystem impairment. The following points are assigned to each subindex condition:

ne:	not evaluated (0 subindex points)
t-bpj:	threatened condition, evaluated data (2 points)
t-m:	threatened condition, monitored data (5 points)
i-bpj:	impaired condition, evaluated data (5 points)
i-m:	impaired condition, monitored data (10 points)
f-bpj:	full use condition, evaluated data (1 point)
f-m:	full use condition, monitored data (1 point)
t-e(m):	monitored eutrophic condition (5 points)
t-h(m):	monitored hypereutrophic condition (10 points)

Because a single score can be ambiguous in a multiparameter index with missing data, it is recommended that final LCI scores only be calculated if data are available for at least 12 of the 14 total LCI parameters under consideration. Appenix H lists final LCI scores for 117 public lakes. It is important to note that the long term goal of the Ohio EPA is to have monitored (m) data for all 14 parameters for all of Ohio's 445 public lakes greater than 5 acres, however, attainment of this goal will require a significant increase in the amount of funds spent on lake water quality assessments. Lack of monitored data that can be used in the LCI represents a deficiency in Ohio's surface water quality assessment process.

C. LCI parameter criteria.

The Ohio Lake Condition Index assessment process uses either monitored (m) or evaluated (bpj) data to measure the condition of 14 parameters or metrics. Raw data are converted into the following subindex conditions: f(m) = full use based on monitored data; f(bpj) =

full use based on best professional judgement; t(m) = threatened use based on monitored data; t(bpj) = threatened use based on best professional judgement; i(bpj) = impaired use, best professional judgement, and i(m) = impaired use based on monitored data. Responses to a LCI questionnaire represent the (bpj) data for the 1992 assessment. A revised LCI questionnaire is provided in Appendix D. Where available, subindex determinations are based on state water quality standards or criteria.

I. BIOLOGICAL EVALUATION OF LAKE CONDITION

Index of Biotic Integrity-Fish (IBI)

a) Monitored data (m). The Ohio EPA developed an Index of Biotic Integrity to assess the overall health of fish communities in streams and rivers. The concept has not yet been adapted for lake habitats. The necessary developmental work will have to take place prior to any use of this index in the Ohio LCI assessment process.

b) Evaluated data (bpj). In the 1990 revision to the LCI, questionnaire data was used to evaluate the condition of fish communities in lakes. The following two questions are asked:

1. Does the lake support a well balanced mix of sport and forage fish, or do a few species dominate (circle one)?

Insufficient data; Well balanced fishery;
Partially balanced fishery; Impaired fishery

2. How would you rate the fishing in this lake?

Excellent; Good; Acceptable; Marginal; Poor

Responses to these questions were used to make an evaluated (bpj) assessment of the lake fishery for the 1992 LCI assessment process.

Nuisance Growths of Macrophytes (NM)

Based on potential impact on recreational boating, shoreline fishing, and decay to release organic matter. No standards or criteria exist. Data may be monitored (m) or evaluated (bpj).

Raw	Data Condition
< 25% lake area affected	f(m); f(bpj)
25% to 50% affected	t(m); t(bpj)
> 50% affected	i(m); i(bpj)

Fecal Coliform Bacteria Contamination (B)

Based on state water quality standards. Only monitored (m) data are used to assess this parameter.

Raw Data	Condition
< 200/100 ml	f(m)
Between 200-1000/100 ml	t(m)
>1000/100 ml	i(m)

Algal Production based on Chlorophyll-a (P)

Based on surface water samples (0.5 m depth). Only monitored (m) data are used.

Raw Data		Condition
0.3 - 2.0 ug/l	Oligotrophic	f(m)
2.0 - 6.0	Mesotrophic	f(m)
6.0 - 40.0	Eutrophic	t-e(m)
>40.0	Hypereutrophic	t-h(m)

Fish Tissue Contamination (F)

Raw Data	Condition
No fish consumption advisory issued	f(m)
Fish advisory for bottom feeders (carp, catfish).	t(m)
Fish advisory for game species	i(m)

II. CHEMICAL EVALUATION OF LAKE CONDITION

Nonpriority Pollutants (NP)

Based on State water quality standards. Only monitored (m) data are used.

Raw Data (surface or bottom)	# of Measures Above WQS	Condition
Any Nonpriority metals	0	f(m)
pH > 9.5	1 or 2	t(m)
Sulfates > 250 < 960 mg/l	> 2	i(m)
TDS > 1500 mg/l		
Ammonia, pH & Temp. Dependent		
D.O. < 6.0 mg/l (surface)		
D.O. < 2.0 mg/l (bottom)		

Priority Organics (PPO) and Priority Metals (PPM)

Based on U. S. EPA federal register list of 126 priority pollutants. Only monitored (m) data are used.

# Exceeding Chronic Criteria (surface or bottom)	Condition
0	f(m)
1	t(m)
> 1	i(m)

Nutrients based on Spring T-Phosphorus (N)

Based on surface water samples (0.5 m depth). Only monitored (m) data are used.

Raw Data	Trophic State	Condition
3 -9 ug/l	Oligotrophic	f(m)
9 - 24	Mesotrophic	f(m)
24 - 75	Eutrophic	e(m)
> 75	Hypereutrophic	t-h(m)

Sediment Contamination (S)

Metals based on Illinois EPA lake sediment criteria (Kelly *et al.*, 1984). Concentrations represent twice standard deviations from 273 individual lake sediment samples collected from 63 Illinois lakes. The following priority metals are used: Only monitored (m) data are used.

Raw Data	Criteria	Condition
Arsenic	> 41 (mg/kg)	None over criteria f(m)
Cadmium	> 2.6	1 over criteria ... t(m)
Chromium	> 38	2 over criteria ... i(m)
Copper	> 150	
Lead	> 150	
Mercury	> 0.40	
Zinc	> 250	
Oil-Grease	> 1000 (based on fed. crit)	
Total PCB's	> 50 (based on fed crit)	
TCLP (old EP Toxic) Waste		

Acid Mine Drainage (M)

pH from Ohio WQS. Other parameters from Ohio DNR, Division of Mine Reclamation criteria. Only monitored (m) data are used.

Raw Data	# of Violations	Conditions
pH < 6.5	0	f(m)
TDS > 1500 mg/l	1	t(m)
Mn > 4.0 mg/l	2	i(m)
Fe > 10.0 mg/l		
SO_4 > 960 mg/l		

Secchi Disk Transparency (SD)

Based on State of Illinois (Illinois EPA 1988) four foot minimum transparency recommended for bathing beaches. Only monitored (m) data are used.

Raw Data	Condition
Greater than 4 foot Secchi depth	f(m)
Less than 4 foot depth	t(m)

III. PHYSICAL EVALUATION OF LAKE CONDITION

Volume Loss Due To Sedimentation (V)

Based on an expected 40% reduction in useful life. Either monitored (m) or evaluated (bpj) data can be used.

Raw Data	Condition
< 10 % volume loss	f(m); f(bpj)
10% - 40 % loss	t(m); t(bpj)
> 40% loss	i(m); i(bpj)

IV. PUBLIC PERCEPTION OF LAKE CONDITION

Aesthetics (A)

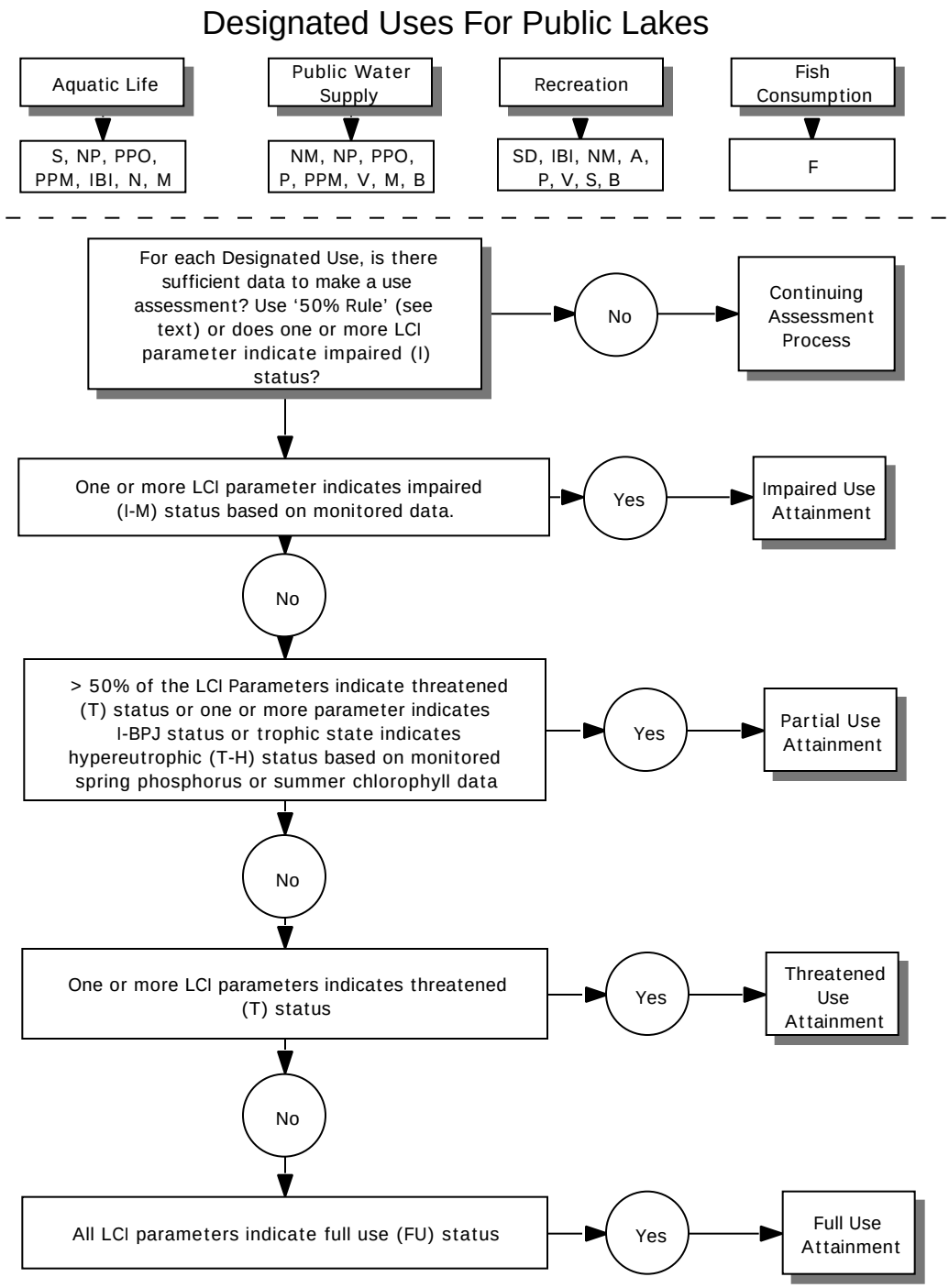
Based on responses to the following question on the Ohio LCI questionnaire:

On a scale of 1 - 10 (1 = no problem, 10 = extreme problem),
please rank the following summer aesthetic conditions at this lake:

1. Algae blooms (pea green water)	1-2-3-4-5-6-7-8-9-10
2. Floating algae scums	1-2-3-4-5-6-7-8-9-10
3. Fish Kills (more than 200 fish at a time)	1-2-3-4-5-6-7-8-9-10
4. Odors	1-2-3-4-5-6-7-8-9-10
5. Duckweed	1-2-3-4-5-6-7-8-9-10
6. Muddy (brown) water	1-2-3-4-5-6-7-8-9-10
7 Taste and Odor Problems (if a water supply)	1-2-3-4-5-6-7-8-9-10
8. THM (Trihalomethane) Problems (if a water supply)	1-2-3-4-5-6-7-8-9-10
9. Other (name)	1-2-3-4-5-6-7-8-9-10

Responses to these questions were used to make a monitored (m) assessment of the public's overall perception of lake aesthetics.

Appendix A Figure 1. Revised 305(b) use attainment process for lakes.



Appendix B. List of Ohio's publicly owned lakes, ponds, and reservoirs with > 5 acres of surface area.

Waterbody ID#	Lake	Surface Area (ac)	County	Lake Uses	Lake Type
OH61 23-048	ACTON LAKE	604	Butler	WS R	DPI
OH48 13-001	ADAMS LAKE	37	Adams	R	DPI
OH88 01-369	ALDER POND	15	Summit	R	NL
OH78 04-336	ALDRICH POND	34	Sandusky	R	DO
OH38 05-102	ALUM CREEK LAKE	3387	Delaware	WS R FC	DPI
OH36 35-268	AMANN RESERVOIR	24	Morrow	WS R	DPI
OH36 35-269	AMICKS RESERVOIR	51	Morrow	WS R	UP
OH72 18-139	ARCHBOLD RESERVOIR #1	20	Fulton	WS R	UP
OH72 18-140	ARCHBOLD RESERVOIR #2	49	Fulton	WS R	UP
OH92 28-016	ASHTABULA CO. METRO PARKS LAKE #1	5	Ashtabula	R	DPI
OH92 28-017	ASHTABULA CO. METRO PARKS LAKE #2	6	Ashtabula	R	DPI
OH45 21-303	ATOMIC ENERGY COMM. LAKE #1	13	Pike	C	DPI
OH45 21-304	ATOMIC ENERGY COMM. LAKE #2	17	Pike	C	UP
OH81 18-344	ATTICA RESERVOIR	5	Seneca	WS	UP
OH12 05-383	ATWOOD RESERVOIR	1540	Tuscarawas	R FC	DPI
OH87 04-088	BALDWIN LAKE	32	Cuyahoga	WS R	DPI
OH90 19-095	BALDWIN RESERVOIR	6	Cuyahoga	WS	UP
OH82 01-337	BALLVILLE RESERVOIR	89	Sandusky	WS	DPI
OH10 28-367	BARBERTON RESERVOIR (WOLF CR. RESV.)	196	Summit	WS	DPI
OH07 36-036	BARNESVILLE RESERVOIR #1	35	Belmont	WS R	DPI
OH07 36-037	BARNESVILLE RESERVOIR #2	11	Belmont	WS R	DPI
OH07 44-035	BARNESVILLE RESERVOIR #3	98	Belmont	WS R	DPI
OH53 13-418	BATAVIA WATER SUPPLY RESERVOIR	14	Clermont	WS	DPI
OH13 01-384	BEACH CITY LAKE	420	Tuscarawas	R FC	DPI
OH82 02-342	BEAVER CREEK RESERVOIR	110	Seneca	WS R	UP
OH02 05-078	BEAVER LAKE	103	Columbiana	WS	DPI
OH84 25-194	BELLEVUE RESERVOIR #1,#2	14	Huron	WS R	UP
OH84 25-193	BELLEVUE RESERVOIR #3	14	Huron	WS R	UP
OH83 03-192	BELLEVUE RESERVOIR #4	31	Huron	WS R	UP
OH84 12-201	BELLEVUE RESERVOIR #5	87	Huron	WS R	UP
OH06 19-030	BELMONT LAKE	117	Belmont	R	DPI
OH84 24-110	BERLIN HEIGHTS RESERVOIR	5	Erie	WS	UP
OH01 24-307	BERLIN RESERVOIR	3590	Portage	WS R FC	DPI
OH53 31-060	BETHEL RESERVOIR	5	Clermont	WS	UP
OH53 25-419	BETHEL UPGROUND RESERVOIR #2	6	Clermont	WS	UP
OH07 24-032	BETHESDA RESERVOIR	13	Belmont	WS	DPI
OH34 13-420	BIG ISLAND WILDLIFE AREA UPGR. RESERVOIR	382	Marion	R	UP
OH52 04-061	BLANCHESTER RESERVOIR #1	7	Clinton	WS	UP
OH52 04-062	BLANCHESTER RESERVOIR #2	7	Clinton	WS	UP
OH52 04-063	BLANCHESTER RESERVOIR #3	11	Clinton	WS	DPI
OH52 04-064	BLANCHESTER RESERVOIR #4	11	Clinton	WS	UP
OH52 04-065	BLANCHESTER RESERVOIR #5	17	Clinton	WS	UP

Uses: WS- Water Supply, R - Recreation, FC - Flood Control

Appendix B. List of Ohio's publicly owned lakes, ponds, and reservoirs with > 5 acres of surface area.

Waterbody ID#	Lake	Surface Area (ac)	County	Lake Uses	Lake Type
OH36 02-421	BLUE LIMESTONE PARK QUARRY LAKE	6	Delaware	R	DO
OH23 02-270	BLUE ROCK STATE PARK LAKE (CUTLER LAKE)	18	Muskingum	WS R	DPI
OH77 10-422	BOWLING GREEN GOLF COURSE LAKE	7	Wood	R	DO
OH77 10-423	BOWLING GREEN UPGROUND RESERVOIR	20	Wood	WS	DO
OH88 08-313	BRADY LAKE	70	Portage	R	NL
OH70 13-004	BRESLER RESERVOIR	582	Allen	WS R	UP
OH22 59-212	BUCKEYE LAKE	3136	Licking	WS R	DPI
OH80 17-083	BUCYRUS RESERVOIR #1	36	Crawford	WS R	DPI
OH80 17-086	BUCYRUS RESERVOIR #2	31	Crawford	WS R	DPI
OH80 20-084	BUCYRUS RESERVOIR #3 (RILEY RES.)	28	Crawford	WS R	UP
OH80 17-087	BUCYRUS RESERVOIR #4	150	Crawford	WS	UP
OH02 05-236	BURGESS LAKE	20	Mahoning	WS	DPI
OH26 20-023	BURR OAK LAKE (T. JENKINS RESV.)	664	Athens	WS R FC	DPI
OH58 18-055	C. J. BROWN LAKE	2120	Clark	R FC	DPI
OH51 01-393	CAESAR CREEK RESERVOIR	2830	Warren	WS R FC	DPI
OH09 34-278	CALDWELL LAKE	51	Noble	WS R FC	DPI
OH86 16-424	CALEY WOODS WILDLIFE LAKE	8	Lorain	R	DPI
OH21 43-158	CAMBRIDGE RESERVOIR	26	Guernsey	WS R	DPI
OH85 08-215	CAMDEN RESERVOIR	9	Lorain	R	NL
OH56 02-261	CARRIAGE HILL RESERVE LAKE	14	Montgomery	R	DPI
OH32 36-146	CARTER LAKE (WAYNE NAT'L FOREST LAKE)	7	Gallia	R	DPI
OH50 12-157	CEDARVILLE COLLEGE LAKE	6	Greene	R	DPI
OH50 12-155	CEDARVILLE RESERVOIR	5	Greene	WS R	UP
OH84 19-082	CELERYVILLE RESERVOIR	75	Crawford	WS R	UP
OH16 21-013	CHARLES MILL LAKE	1350	Ashland	R FC	DPI
OH10 24-243	CHIPPEWA CR. STRUCTURE 2-A	12	Medina	FC	DPI
OH10 22-244	CHIPPEWA CR. STRUCTURE 3-A	20	Medina	R FC	DPI
OH10 13-425	CHIPPEWA CR. STRUCTURE 5-C	8	Wayne	FC	DPI
OH10 13-426	CHIPPEWA CR. STRUCTURE 5-D	6	Wayne	R FC	DPI
OH10 19-398	CHIPPEWA CR. STRUCTURE 7-C	34	Wayne	FC	DPI
OH54 01-163	CINCINNATI WATERWORKS LAKE #1	18	Hamilton	R	DO
OH54 01-164	CINCINNATI WATERWORKS LAKE #2	19	Hamilton	R	DO
OH17 10-014	CINNAMON LAKE	131	Ashland	WS	DPI
OH17 23-010	CITY OF ASHLAND LAKE	6	Ashland	R	DO
OH58 01-258	CITY OF DAYTON LAKE #1	10	Montgomery	R	DO
OH01 20-373	CITY OF NEWTON FALLS LAKE	12	Trumbull	R	DO
OH76 20-404	CITY OF PERRYSBURG LAKE	6	Wood	R	DO
OH30 18-205	CITY OF WELLSTON LAKE	11	Jackson	WS	DPI
OH58 17-054	CLARK LAKE	100	Clark	R	DPI
OH16 15-328	CLEAR FORK RESERVOIR	1010	Richland	WS R	DPI
OH14 20-182	CLENDENING LAKE	1800	Harrison	R FC	DPI
OH52 01-427	CLINTON COUNTY DAM #1	10	Clinton	FC	DPI

Uses: WS- Water Supply, R - Recreation, FC - Flood Control

Appendix B. List of Ohio's publicly owned lakes, ponds, and reservoirs with > 5 acres of surface area.

Waterbody ID#	Lake	Surface Area (ac)	County	Lake Uses	Lake Type
OH25 21-292	CLOUSE POND (CLOUSE LAKE)	41	Perry	R C	DPI
OH87 05-090	COE LAKE	23	Cuyahoga	WS R	DO
OH25 15-122	COLFAX LAKE (RCCD STRUCTURE 7-A)	22	Fairfield	R FC	DPI
OH61 30-322	COLLEGE CORNER RESERVOIR	5	Preble	R	UP
OH26 23-296	CORNING RESERVOIR	15	Perry	WS R	DPI
OH52 11-066	COWAN LAKE	688	Clinton	R	DPI
OH23 44-263	CROOKSVILLE LOWER RESERVOIR #1	7	Morgan	WS	DPI
OH23 45-286	CROOKSVILLE RESERVOIR #3	15	Perry	WS	DPI
OH23 44-264	CROOKSVILLE UPPER RESERVOIR #2	5	Morgan	WS R	DPI
OH01 14-311	CRYSTAL LAKE	25	Portage	R	NL
OH01 29-349	DALE WALBURN RESERVOIR	670	Stark	WS	DPI
OH41 16-297	DEER CREEK CAMPGROUND LAKE	8	Pickaway	R C	DPI
OH41 15-298	DEER CREEK LAKE	1277	Pickaway	R FC C	DPI
OH01 29-348	DEER CREEK RESERVOIR	313	Stark	WS R	DPI
OH71 19-417	DEFIANCE POWER DAM RESERVOIR	679	Defiance	R	DPI
OH36 01-103	DELAWARE LAKE	1300	Delaware	R FC	DPI
OH37 15-428	DELCO UPGROUND RESERVOIR #2	30	Delaware	WS R	UP
OH37 15-107	DELCO WATER COMPANY LAKE	6	Delaware	WS	UP
OH73 02-144	DELTA POND	11	Fulton	R	DO
OH73 02-142	DELTA RESERVOIR	39	Fulton	WS R	UP
OH73 02-145	DELTA RESERVOIR #2	50	Fulton	WS	UP
OH74 08-184	DESHLER RESERVOIR	23	Henry	WS R	UP
OH22 05-272	DILLON RESERVOIR	1325	Muskingum	R FC	DPI
OH27 49-021	DOW LAKE	161	Athens	R	DPI
OH77 10-429	DUGOUT POND (ODOT)	8	Wood	R	DO
OH88 18-152	EAST BRANCH RESERVOIR	416	Geauga	WS	DPI
OH58 19-430	EAST FK. BUCK CR. STRUCTURE 1-B	6	Champaign	FC	DPI
OH58 19-431	EAST FK. BUCK CR. STRUCTURE 4-A	21	Champaign	FC	DPI
OH53 20-058	EAST FORK LAKE (HARSA LAKE)	2160	Clermont	WS R FC	DPI
OH04 07-072	EAST PALESTINE RESERVOIR	5	Columbiana	WS R	DPI
OH10 33-359	EAST RESERVOIR	201	Summit	R	NL
OH58 01-257	EASTWOOD LAKE	170	Montgomery	R	DO
OH56 12-252	ECHO LAKE	14	Miami	WS R	DPI
OH62 32-162	EDEN PARK POND	6	Hamilton	R	DO
OH23 45-285	ESSINGTON LAKE	16	Perry	R C	DPI
OH02 05-239	EVANS LAKE	566	Mahoning	WS R	DPI
OH75 09-226	EVERGREEN LAKE	8	Lucas	R	DPI
OH90 20-094	FAIRMOUNT RESERVOIR	8	Cuyahoga	WS	UP
OH43 48-188	FALLSVILLE WILDLIFE AREA LAKE	11	Highland	R C	DPI
OH68 18-005	FERGUSON RESERVOIR	305	Allen	WS R	UP
OH66 13-170	FINDLAY RESERVOIR #1	186	Hancock	WS R	UP
OH66 13-171	FINDLAY RESERVOIR #2	650	Hancock	WS R	UP

Uses: WS- Water Supply, R - Recreation, FC - Flood Control

Appendix B. List of Ohio's publicly owned lakes, ponds, and reservoirs with > 5 acres of surface area.

Waterbody ID#	Lake	Surface Area (ac)	County	Lake Uses	Lake Type
OH86 16-217	FINDLEY LAKE	83	Lorain	R	DPI
OH10 33-354	FIRESTONE RESERVOIR	83	Summit	WS R	DPI
OH28 63-248	FORKED RUN LAKE	104	Meigs	R	DPI
OH64 18-029	FORTY ACRE POND	70	Auglaize	R C	DPI
OH77 08-177	FOSTORIA RESERVOIR #1 (LAKE DAUGHTERY)	12	Hancock	WS R	UP
OH77 08-178	FOSTORIA RESERVOIR #2 (LAKE MOTRAM)	18	Hancock	WS R	UP
OH77 08-176	FOSTORIA RESERVOIR #3 (LAKE LAMBERJACK)	45	Hancock	WS R	UP
OH77 08-175	FOSTORIA RESERVOIR #4 (LAKE MOSIER)	88	Hancock	WS R	UP
OH77 08-174	FOSTORIA RESERVOIR #5 (LAKE LaCOMTE)	128	Hancock	WS R	UP
OH77 08-432	FOSTORIA RESERVOIR #6 (VETS. MEM. RESV.)	165	Hancock	WS R	UP
OH26 05-027	FOX LAKE (MARGARET CR. CONS. DIST. #6)	47	Athens	R FC	DPI
OH56 12-253	FRANZ POND	6	Miami	WS R	DPI
OH05 08-207	FRIENDSHIP PARK LAKE	85	Jefferson	R	DPI
OH75 11-138	FULTON POND	15	Fulton	R C	DO
OH49 48-042	GEORGETOWN VILLAGE RESERVOIR	11	Brown	WS R	UP
OH02 22-380	GIRARD LAKE	185	Trumbull	WS R	DPI
OH86 05-221	GRAFTON UPGROUND RESERVOIR	7	Lorain	WS	UP
OH63 14-028	GRAND LAKE ST. MARYS	12700	Auglaize	WS R	DPI
OH91 29-375	GRAND RIVER WILDLIFE AREA LAKE	11	Trumbull	R	DPI
OH90 02-450	GRANGER POND	30	Lake	R	DO
OH49 55-039	GRANT LAKE	181	Brown	R	DPI
OH50 06-156	GREENE CO. PARKS LAKE (FISH POND #2)	5	Greene	R	DPI
OH25 26-112	GREENFIELD LAKE (HUNTERS RUN #R-63)	13	Fairfield	R FC	DPI
OH85 14-191	GREENWICH RESERVOIR	6	Huron	WS R	DPI
OH04 34-074	GUILFORD LAKE	396	Columbiana	R	DPI
OH44 17-203	HAMMERTOWN LAKE (JACKSON CITY RESERVOIR)	186	Jackson	WS R	DPI
OH41 39-299	HARGUS LAKE	130	Pickaway	R C	DPI
OH90 10-305	HARMON'S POND (SUNNY LAKE)	63	Portage	R	NL
OH72 29-141	HARRISON LAKE	96	Fulton	R	DPI
OH22 59-213	HEBRON FISH HATCHERY LAKE	75	Licking	C	UP
OH78 05-335	HELENA LAKE	15	Sandusky	R	DO
OH01 16-318	HICKORY LAKE	6	Portage	R	DPI
OH05 84-075	HIGHLANDTOWN LAKE	170	Columbiana	R	DPI
OH05 85-076	HIGHLANDTOWN WILDLIFE AREA POND	7	Columbiana	R C	DPI
OH43 49-187	HILLSBORO RESERVOIR	22	Highland	WS R	DPI
OH43 49-433	HILLSBORO UPGROUND RESERVOIR	19	Highland	WS	UP
OH87 04-246	HINCKLEY LAKE	88	Medina	R	DPI
OH44 30-189	HOCKING HILLS RESERVOIR	21	Hocking	WS R	DPI
OH38 22-131	HOOVER RESERVOIR	3000	Franklin	WS R	DPI
OH58 11-056	HOSTERMAN LAKE	9	Clark	R	DPI
OH10 33-357	HOWER LAKE	23	Summit	R	DPI
OH25 27-116	HRCD STRUCTURE 1	5	Fairfield	FC	DPI

Uses: WS- Water Supply, R - Recreation, FC - Flood Control

Appendix B. List of Ohio's publicly owned lakes, ponds, and reservoirs with > 5 acres of surface area.

Waterbody ID#	Lake	Surface Area (ac)	County	Lake Uses	Lake Type
OH25 27-117	HRCD STRUCTURE 2	8	Fairfield	FC	DPI
OH25 26-114	HRCD STRUCTURE 5	7	Fairfield	FC	DPI
OH25 26-115	HRCD STRUCTURE 8	7	Fairfield	FC	DPI
OH25 27-111	HRCD STRUCTURE 9 (ROCK MILL LAKE)	19	Fairfield	R FC C	DPI
OH25 27-118	HRCD STRUCTURE R-21	5	Fairfield	FC C	DPI
OH89 09-371	HUDSON SPRINGS LAKE	45	Summit	R	DPI
OH58 05-154	HUFFMAN POND (MIAMI CONS. DIST. LAKE)	43	Greene	R	DO
OH73 26-100	INDEPENDENCE DAM RESERVOIR	605	Defiance	R	DPI
OH53 50-038	INDIAN CREEK WILDLIFE AREA PONDS	56	Brown	R	DPI
OH55 40-214	INDIAN LAKE	5104	Logan	R	DPI
OH05 84-434	ISMOND POND	7	Columbiana	R	DPI
OH37 19-132	J. GRIGGS RESERVOIR	385	Franklin	WS R	DPI
OH32 35-202	JACKSON LAKE	243	Jackson	R	DPI
OH05 56-206	JEFFERSON LAKE	25	Jefferson	R	DPI
OH92 23-019	JEFFERSON RESERVOIR (LAMPSON RESERVOIR)	20	Ashtabula	WS R	UP
OH44 16-416	JISCO LAKE	54	Jackson	R	DPI
OH89 09-320	KENT BOARD OF TRUSTEES LAKE	10	Portage	C	DPI
OH79 01-406	KILLDEER RESERVOIR	253	Wyandot	R C	UP
OH80 12-407	KILLDEER WILDLIFE POND #1	9	Wyandot	R C	DO
OH79 22-408	KILLDEER WILDLIFE POND #2	45	Wyandot	R C	DPI
OH80 12-409	KILLDEER WILDLIFE POND #3	9	Wyandot	R C	DPI
OH80 12-410	KILLDEER WILDLIFE POND #4	8	Wyandot	R C	DPI
OH79 24-411	KILLDEER WILDLIFE POND #5	18	Wyandot	R C	DO
OH80 12-412	KILLDEER WILDLIFE POND #6	15	Wyandot	R C	DO
OH80 11-413	KILLDEER WILDLIFE POND #7	225	Wyandot	R C	UP
OH80 11-414	KILLDEER WILDLIFE POND #8	373	Wyandot	R C	DPI
OH80 11-415	KILLDEER WILDLIFE POND #9	225	Wyandot	R C	UP
OH21 43-435	KILLIANY LAKE	5	Guernsey	R	DPI
OH85 08-216	KIPTON RESERVOIR	20	Lorain	WS R	DPI
OH56 40-052	KISER LAKE	380	Champaign	R	DPI
OH18 29-208	KNOX LAKE	474	Knox	R	DPI
OH30 17-391	LAKE ALMA	63	Vinton	WS R	DPI
OH10 28-351	LAKE ANNA	12	Summit	R	NL
OH88 16-151	LAKE AQUILLA	27	Geauga	R	NL
OH45 62-330	LAKE CALDWELL	9	Ross	R	DPI
OH02 12-234	LAKE COHASSET	27	Mahoning	R	DPI
OH88 11-315	LAKE GEORGE	12	Portage	R	NL
OH02 12-233	LAKE GLACIER	43	Mahoning	R	DPI
OH02 05-235	LAKE HAMILTON	104	Mahoning	WS R	DPI
OH88 08-310	LAKE HODGSON	190	Portage	WS R	DPI
OH30 56-390	LAKE HOPE	127	Vinton	WS R	DPI
OH54 07-168	LAKE ISABELLA	23	Hamilton	R	DO

Uses: WS- Water Supply, R - Recreation, FC - Flood Control

Appendix B. List of Ohio's publicly owned lakes, ponds, and reservoirs with > 5 acres of surface area.

Waterbody ID#	Lake	Surface Area (ac)	County	Lake Uses	Lake Type
OH87 05-096	LAKE ISSAC	11	Cuyahoga	R	DPI
OH44 15-204	LAKE KATHARINE	42	Jackson	R	DPI
OH65 38-399	LAKE LA SU AN	134	Williams	R	DPI
OH65 39-400	LAKE LAVERE	11	Williams	R	DPI
OH26 44-190	LAKE LOGAN (HOCKING LAKE)	354	Hocking	R	DPI
OH56 32-345	LAKE LORAMIE	785	Shelby	R	DPI
OH25 23-119	LAKE LORETTA	5	Fairfield	R	DPI
OH87 15-240	LAKE MEDINA	109	Medina	WS R	UP
OH01 22-230	LAKE MILTON	1685	Mahoning	WS R	DPI
OH10 33-355	LAKE NESMITH	80	Summit	R	NL
OH01 30-231	LAKE PARK	20	Mahoning	R	DPI
OH88 11-314	LAKE PIPPEN	143	Portage	WS	NL
OH88 11-308	LAKE ROCKWELL	539	Portage	WS	DPI
OH25 07-120	LAKE ROMONA	5	Fairfield	R FC	DPI
OH30 17-392	LAKE RUPERT	325	Vinton	WS R	DPI
OH45 62-331	LAKE STEWART	7	Ross	R	DPI
OH65 39-401	LAKE SUE	10	Williams	R	DPI
OH33 81-210	LAKE VESUVIUS	105	Lawrence	R	DPI
OH45 34-302	LAKE WHITE	337	Pike	R	DPI
OH34 13-436	LARUE PARK POND	5	Marion	R	DO
OH12 16-051	LEESVILLE LAKE	1000	Carroll	R FC	DPI
OH56 26-437	LEIGHTY LAKE	12	Shelby	R	DPI
OH74 11-325	LEIPSIC RESERVOIR	27	Putnam	R	UP
OH02 22-379	LIBERTY LAKE	99	Trumbull	WS R	DPI
OH68 17-009	LIMA RESERVOIR	84	Allen	WS R	UP
OH88 18-438	LITTLE PUNDERSON LAKE	24	Geauga	R	DPI
OH41 28-229	LONDON FISH HATCHERY LAKE	7	Madison	C	DO
OH10 33-358	LONG LAKE	180	Summit	WS R	NL
OH68 17-006	LOST CREEK RESERVOIR	121	Allen	WS R	UP
OH90 20-092	LOWER SHAKER LAKE	16	Cuyahoga	R	DPI
OH88 15-150	LaDUE RESERVOIR	1500	Geauga	WS R	DPI
OH86 15-223	LaGRANGE WATER WORKS LAKE	6	Lorain	WS	DO
OH75 18-227	M. OLANDER PARK LAKE	20	Lucas	R	DO
OH41 30-228	MADISON LAKE	106	Madison	R	DPI
OH36 16-265	MAPLE GROVE LAKE (UPPER MT. GILEAD LAKE)	7	Morrow	R	DPI
OH26 02-026	MARGARET CREEK CONS. DIST. LAKE #1	16	Athens	FC	DPI
OH26 02-025	MARGARET CREEK CONS. DIST. LAKE #4	28	Athens	FC	DPI
OH26 05-024	MARGARET CREEK CONS. DIST. LAKE #5	8	Athens	FC	DPI
OH26 02-022	MARGARET CRK CONS.DIST.#2 (LAKE SNOWDEN)	131	Athens	WS R	DPI
OH23 22-274	MAYSVILLE REG. WATER DIST. LAKE	45	Muskingum	WS R	DO
OH89 30-368	MEADOWBROOK LAKE	24	Summit	R	DPI
OH02 23-378	MEANDER CREEK RESERVOIR	2010	Trumbull	WS C	DPI

Uses: WS- Water Supply, R - Recreation, FC - Flood Control

Appendix B. List of Ohio's publicly owned lakes, ponds, and reservoirs with > 5 acres of surface area.

Waterbody ID#	Lake	Surface Area (ac)	County	Lake Uses	Lake Type
OH75 18-439	METAMORA RESERVOIR #1	6	Fulton	WS	UP
OH75 18-143	METAMORA RESERVOIR #2	7	Fulton	WS R	DO
OH68 17-003	METZGER RESERVOIR	157	Allen	WS R	UP
OH62 05-165	MIAMI WHITEWATER LAKE	85	Hamilton	R	DPI
OH01 14-309	MICHAEL J. KIRWIN RESV. (WEST BR. RESV.)	2650	Portage	WS R FC	DPI
OH37 09-133	MILLER ANTRIM LAKE	37	Franklin	R	DO
OH10 33-362	MILLER LAKE	28	Summit	R	DPI
OH65 26-440	MILLER PARK LAKE	7	Williams	R	DO
OH38 04-441	MINERVA PARK LAKE	5	Franklin	R	DPI
OH88 04-312	MOGADORE RESERVOIR	900	Portage	WS R	DPI
OH88 05-366	MONROE FALLS LAKE (PARK LAKE)	13	Summit	R	DPI
OH07 10-255	MONROE LAKE	39	Monroe	R C	DPI
OH02 31-381	MOSQUITO CREEK RESERVOIR	7850	Trumbull	WS R FC	DPI
OH49 55-098	MOUNT ORAB RESERVOIR #1	181	Brown		UP
OH49 55-045	MOUNT ORAB RESERVOIR #2	5	Brown	WS	UP
OH36 16-266	MT. GILEAD LAKE (LOWER)	11	Morrow	WS R	DPI
OH10 33-365	MUD LAKE	85	Summit	R	NL
OH15 01-081	MUDPORT BASIN LAKE	9	Coshocton	R	DO
OH20 01-271	MUNROE BASIN LAKE	17	Muskingum	R	DO
OH10 16-242	MUSKINGUM WCD STRUCTURE 7-C	23	Medina	FC	DPI
OH88 08-319	MUZZY LAKE	82	Portage	WS	NL
OH77 05-172	McCOMB RESERVOIR #1	6	Hancock	WS R	UP
OH77 05-173	McCOMB RESERVOIR #2	20	Hancock	WS R	UP
OH02 09-238	McKELVEY LAKE	133	Mahoning	WS R	DPI
OH65 36-402	NETTLE LAKE	94	Williams	R	NL
OH21 36-273	NEW CONCORD RESERVOIR	9	Muskingum	WS R	DPI
OH25 20-283	NEW LEXINGTON RESERVOIR #1	44	Perry	WS R FC	DPI
OH25 20-284	NEW LEXINGTON RESERVOIR #2	27	Perry	WS R	DPI
OH85 12-196	NEW LONDON RESERVOIR	221	Huron	WS R	UP
OH60 38-442	NEWFIELDS DEVELOPMENT LAKE	7	Montgomery	R	DPI
OH02 12-232	NEWPORT LAKE	105	Mahoning	R	DPI
OH10 12-360	NIMISILA RESERVOIR	825	Summit	WS R	DPI
OH77 04-403	NORTH BALTIMORE RESERVOIR	29	Wood	WS R	UP
OH18 27-209	NORTH BRANCH KOKOSING LAKE	154	Knox	R FC	DPI
OH93 05-018	NORTH KINGSVILLE RESERVOIR	7	Ashtabula	R	DPI
OH10 33-356	NORTH RESERVOIR	160	Summit	R	NL
OH84 05-197	NORWALK LOWER RESERVOIR	31	Huron	WS R	DPI
OH84 05-199	NORWALK MEMORIAL RESERVOIR	97	Huron	WS R	DPI
OH84 05-198	NORWALK UPPER RESERVOIR	50	Huron	WS R	DPI
OH75 06-443	NOVA FRANCE RECREATION CTR. LAKE	12	Lucus	R	DO
OH37 25-101	O'SHAUGHNESSY RESERVOIR	920	Delaware	WS R	DPI
OH25 17-124	OAK THORPE RESERVOIR (RCCD STRUC. 6-D)	43	Fairfield	R FC C	DPI

Uses: WS- Water Supply, R - Recreation, FC - Flood Control

Appendix B. List of Ohio's publicly owned lakes, ponds, and reservoirs with > 5 acres of surface area.

Waterbody ID#	Lake	Surface Area (ac)	County	Lake Uses	Lake Type
OH86 14-224	OBERLIN OLD UPGROUND RESERVOIR	10	Lorain	WS	UP
OH86 16-218	OBERLIN RESERVOIR	56	Lorain	WS R	UP
OH24 80-262	OHIO POWER RECREATION LAKES	2000	Morgan	R	DPI
OH58 16-053	OLD REID PARK LAKE	15	Clark	R	DO
OH60 34-259	OPOSSUM CREEK POND #1	5	Montgomery	R	DPI
OH60 34-260	OPOSSUM CREEK RESERVE LAKE	18	Montgomery	R	DPI
OH37 10-135	OSU GOLF COURSE LAKE	8	Franklin	WS R	DPI
OH76 11-279	OTTAWA NATIONAL WILDLIFE REFUGE LAKE	8	Ottawa	C	DO
OH67 06-324	OTTAWA RESERVOIR	20	Putnam	WS	UP
OH72 06-099	OXBOW LAKE	40	Defiance	R	DPI
OH42 01-186	PAINT CREEK LAKE	1190	Highland	WS R FC	DPI
OH71 15-282	PAULDING PONDS	6	Paulding	R	UP
OH71 15-281	PAULDING RESERVOIR	67	Paulding	WS R	UP
OH76 23-445	PEARSON PARK PONDS	10	Lucus	R	DO
OH23 28-291	PERRY RECLAMATION POND (PERRY DAM #3)	8	Perry	R	DPI
OH11 06-350	PETROS LAKE	12	Stark	R	DO
OH14 33-181	PIEDMONT LAKE	2310	Harrison	R FC	DPI
OH45 13-301	PIKE LAKE RESERVOIR	13	Pike	R	DPI
OH33 55-211	PINE CREEK STRUCTURE #8	8	Lawrence	FC	DPI
OH54 23-067	PINE HILL LAKE	5	Warren	R	DPI
OH02 05-237	PINE LAKE	474	Mahoning	R	DPI
OH44 25-329	PINE LAKE	14	Ross	R FC	DPI
OH16 01-011	PLEASANT HILL LAKE	850	Ashland	R FC	DPI
OH47124-341	POND LICK LAKE	5	Scioto	R	DPI
OH88 11-317	PORTAGE CO. COMM. LAKE	5	Portage	C	DO
OH36 35-085	POWERS RESERVOIR	29	Crawford	WS R	UP
OH88 13-153	PUNDERSON LAKE	101	Geauga	R	NL
OH03 14-015	PYMATUNING RESERVOIR	3580	Ashtabula	WS R FC	DPI
OH83 11-334	RACCOON CREEK RESERVOIR	34	Sandusky	WS R	UP
OH01 07-316	RAVENNA ORDINANCE PLANT LAKE	12	Portage	C	DPI
OH25 21-294	RCCD STRUCTURE 3-A	13	Perry	R FC	DPI
OH25 21-293	RCCD STRUCTURE 3-B	13	Perry	R FC C	DPI
OH25 20-288	RCCD STRUCTURE 4-C (TWIN CHURCH LAKE)	49	Perry	R FC	DPI
OH25 20-125	RCCD STRUCTURE 5-A	20	Fairfield	FC	DPI
OH25 21-126	RCCD STRUCTURE 5-B	12	Fairfield	FC	DPI
OH25 21-127	RCCD STRUCTURE 5-C	13	Fairfield	FC	DPI
OH25 15-113	RCCD STRUCTURE 7-C	43	Fairfield	FC	DPI
OH25 15-123	RCCD STRUCTURE 7-D	15	Fairfield	R FC	DPI
OH25 15-128	RCCD STRUCTURE 7-E	9	Fairfield	FC	DPI
OH83 04-109	RESTHAVEN WILDLIFE AREA PONDS	200	Erie	R C	DO
OH10 33-363	REX LAKE	48	Summit	R	DPI
OH35 30-386	RICHWOOD PARK LAKE	16	Union	R	DO

Uses: WS- Water Supply, R - Recreation, FC - Flood Control

Appendix B. List of Ohio's publicly owned lakes, ponds, and reservoirs with > 5 acres of surface area.

Waterbody ID#	Lake	Surface Area (ac)	County	Lake Uses	Lake Type
OH31 51-148	RIO GRANDE RESERVOIR	7	Gallia	WS	DPI
OH91 01-020	ROAMING ROCK LAKE	464	Ashtabula	WS	DPI
OH43 44-185	ROCKY FORK LAKE	2080	Highland	R	DPI
OH47127-340	ROOSEVELT LAKE	16	Scioto	R	DPI
OH41 02-333	ROSS LAKE	140	Ross	R	DPI
OH11 30-447	RUFF POND	6	Columbiana	R	DPI
OH25 16-289	RUSH CREEK LAKE (RCCD STRUCTURE 6-A)	300	Fairfield	R FC	DPI
OH61 14-321	RUSH RUN LAKE	54	Preble	R	DPI
OH47 45-040	RUSSELLVILLE RESERVOIR	11	Brown	WS	DPI
OH04 35-070	SALEM RESERVOIR	97	Columbiana	WS R	DPI
OH21 19-159	SALT FORK RESERVOIR	2952	Guernsey	WS R	DPI
OH21 19-121	SALT FORK WILDLIFE AREA POND #2	10	Guernsey	R	DPI
OH49 60-222	SARDINIA RESERVOIR	6	Brown		DPI
OH34 26-179	SAULIS BERRY PARK LAKE	50	Hardin	R	DO
OH68 17-008	SCHOONOVER LAKE	22	Allen	WS R	DPI
OH38 04-134	SCHROCK LAKE	12	Franklin	R C	DPI
OH60 19-046	SEBALD POND #1	5	Butler	R	DPI
OH60 19-047	SEBALD POND #2	5	Butler	R	DPI
OH21 46-160	SENECAVILLE LAKE	3550	Guernsey	R FC C	DPI
OH21 46-161	SENECAVILLE NATIONAL FISH HATCHERY LAKE	20	Guernsey	C	DO
OH54 26-395	SHADOW LAKE	6	Warren	WS	DPI
OH66 03-338	SHANK LAKE	9	Hancock	R C	DO
OH62 29-167	SHARON WOODS LAKE	38	Hamilton	R	DPI
OH16 28-326	SHELBY RESERVOIR #1	29	Richland	WS R	UP
OH16 21-327	SHELBY RESERVOIR #2	12	Richland	WS R	UP
OH19 35-397	SHREVE LAKE	56	Wayne	R	DPI
OH88 05-448	SILVER CREEK LAKE	47	Summit	R C	DPI
OH10 06-347	SIPPO LAKE	88	Stark	R	NL
OH16 21-449	SITES LAKE	7	Richland	R	DO
OH60 20-050	SMITH PARK LAKE	7	Butler	R	DO
OH91 06-372	SNIDER DITCH LAKE	245	Trumbull	R	DPI
OH58 15-057	SNYDER PARK LAKE	5	Clark	R	DO
OH25 21-295	SOMERSET RESERVOIR	7	Perry	WS	DPI
OH33 10-451	SOUTH WEBSTER RESERVOIR	5	Scioto	WS	DPI
OH06 71-183	SPARROW RESERVOIR	17	Harrison	WS	DPI
OH86 09-241	SPENCER LAKE	51	Medina	R	DPI
OH86 09-247	SPENCER RESERVOIR	8	Medina	WS	DPI
OH50 01-394	SPRING VALLEY LAKE	58	Warren	R	DPI
OH88 02-370	SPRINGFIELD LAKE	200	Summit	R	NL
OH66 22-267	SPRINGVILLE MARSH STATE NAT. AREA LAKE	5	Seneca	C	DO
OH61 11-049	ST. CLAIR RECREATION AREA LAKE	10	Butler	R	DO
OH06 05-033	ST. CLAIRSVILLE RESERVOIR #1	10	Belmont	WS	DPI

Uses: WS- Water Supply, R - Recreation, FC - Flood Control

Appendix B. List of Ohio's publicly owned lakes, ponds, and reservoirs with > 5 acres of surface area.

Waterbody ID#	Lake	Surface Area (ac)	County	Lake Uses	Lake Type
OH06 32-034	ST. CLAIRSVILLE RESERVOIR #2	6	Belmont	WS	DPI
OH25 21-290	ST. JOSEPH'S LAKE (RCCD STRUCTURE 3-E)	60	Perry	WS R FC	DPI
OH53 53-041	ST. MARTIN RESERVOIR	6	Brown	WS	DPI
OH40 02-300	STAGE'S POND	30	Pickaway	C	NL
OH64 25-149	STATE FISH HATCHERY LAKE	52	Auglaize	C	DO
OH91 14-377	STATE OF OHIO LAKE #1	35	Trumbull	C	DPI
OH91 14-374	STATE OF OHIO LAKE #2	5	Trumbull	C	DPI
OH91 14-376	STATE OF OHIO LAKE #3	21	Trumbull	C	DPI
OH66 14-343	STATE OF OHIO LAKE #4	5	Seneca	C	DO
OH53 08-059	STONELICK RESERVOIR	160	Clermont	R	DPI
OH10 33-352	SUMMIT LAKE	100	Summit	R	NL
OH38 30-104	SUNBURY RESERVOIR #1	6	Delaware	WS	UP
OH38 30-108	SUNBURY RESERVOIR #2	18	Delaware	WS	UP
OH75 12-225	SWANTON RESERVOIR	25	Lucas	WS	UP
OH56 19-251	SWIFT RUN LAKE	40	Miami	WS R	DPI
OH14 02-180	TAPPAN LAKE	2350	Harrison	R FC	DPI
OH56 39-346	TAWAWA LAKE	8	Shelby	R	DO
OH38 20-130	THOREAU POND	10	Franklin	R C	DPI
OH89 09-306	TINKERS CREEK STATE PARK LAKE	5	Portage	R	DPI
OH76 04-280	TOUSSAINT CREEK WILDLIFE AREA LAKE	5	Ottawa	R C	NL
OH47115-339	TURKEY CREEK LAKE	51	Scioto	R	DPI
OH10 33-364	TURKEYFOOT LAKE	318	Summit	R	NL
OH20 24-254	TURNING BASIN LAKE	11	Coshocton	R	DO
OH68 17-007	TWIN LAKES RESERVOIR	26	Allen	WS R	UP
OH31 49-147	TYCOON LAKE	204	Gallia	R	DPI
OH80 09-405	UPPER SANDUSKY RESERVOIR	36	Wyandot	WS R	DPI
OH90 19-093	UPPER SHAKER LAKE	11	Cuyahoga	R	DPI
OH63 19-080	UPPER WABASH STRUCTURE #2	6	Mercer	FC	DPI
OH63 19-012	UPPER WABASH STRUCTURE #3	77	Mercer	FC	DPI
OH88 11-245	USA DEPARTMENT OF LABOR LAKE	7	Medina	C	DPI
OH77 04-169	VAN BUREN LAKE	53	Hancock	R	DPI
OH69 15-387	VAN WERT RESERVOIR #1	60	Van Wert	WS R	UP
OH69 15-388	VAN WERT RESERVOIR #2	60	Van Wert	WS R	UP
OH27 63-396	VETO LAKE	160	Washington	R	DPI
OH14 44-031	VILLAGE OF BARNESVILLE LAKE	7	Belmont	R	DPI
OH70 02-323	VILLAGE OF CONTINENTAL LAKE	5	Putnam	R	UP
OH56 10-249	VILLAGE OF TIPP CITY LAKE #1	7	Miami	R	DPI
OH56 10-250	VILLAGE OF TIPP CITY LAKE #2	14	Miami	R	DO
OH89 21-353	VIRGINIA KENDALL PARK LAKE	14	Summit	R	DPI
OH63 19-097	WABASH CONS. DIST. RESERVOIR #1	57	Darke	R FC	DPI
OH87 04-089	WALLACE LAKE	15	Cuyahoga	WS R	DPI
OH42 35-129	WASHINGTON COURTHOUSE RESERVOIR	37	Fayette	WS R	UP

Uses: WS- Water Supply, R - Recreation, FC - Flood Control

Appendix B. List of Ohio's publicly owned lakes, ponds, and reservoirs with > 5 acres of surface area.

Waterbody ID#	Lake	Surface Area (ac)	County	Lake Uses	Lake Type
OH73 11-137	WAUSEON RESERVOIR #1	17	Fulton	WS R	UP
OH73 16-136	WAUSEON RESERVOIR #2	49	Fulton	WS R	UP
OH55 27-287	WAYNESFIELD RESERVOIR	5	Auglaize	WS	UP
OH47 18-043	WAYNOKA RETENTION DAM	11	Brown	WS	DPI
OH49 69-044	WAYNOKA UPGROUND RESERVOIR	11	Brown	WS	UP
OH86 18-219	WELLINGTON RESERVOIR	21	Lorain	WS R	DPI
OH86 18-220	WELLINGTON UPGROUND RESERVOIR	160	Lorain	WS	UP
OH05 84-073	WELLSVILLE RESERVOIR	25	Columbiana	WS R	DPI
OH10 33-361	WEST RESERVOIR	104	Summit	R	NL
OH38 04-105	WESTERVILLE RESERVOIR	53	Delaware	WS	DPI
OH01 30-071	WESTVILLE LAKE	90	Columbiana	WS R	DPI
OH35 12-106	WHITE SULPHUR LAKE	39	Delaware	WS R	DO
OH84 18-195	WILLARD CITY RESERVOIR	200	Huron	WS R	UP
OH84 19-200	WILLARD MARSH AREA LAKE	6	Huron	R C	DPI
OH21 01-079	WILLS CREEK RESERVOIR	900	Coshocton	R FC	DPI
OH64 02-389	WILLSHIRE QUARRY LAKE	7	Van Wert	WS	DO
OH52 13-069	WILMINGTON RESERVOIR #1	16	Clinton	WS	UP
OH52 11-068	WILMINGTON RESERVOIR #2	54	Clinton	WS	UP
OH48 30-002	WINCHESTER LAKE	10	Adams	WS R	DPI
OH62 26-166	WINTON WOODS LAKE (W.FK. MILL CK. LAKE)	183	Hamilton	R FC	DPI
OH09 35-277	WOLF RUN RESERVOIR	209	Noble	WS R FC	DPI
OH89 02-091	WOODLAND HILLS PARK LAKE	5	Cuyahoga	R	UP
OH07 05-256	WOODSFIELD RESERVOIR	7	Monroe	WS R	DPI
OH41 01-332	YOUCTANGEE PARK LAKE	6	Ross	R	DO
OH23 50-276	ZANESVILLE STATE NURSERY LAKE	10	Muskingum	C	DPI
OH11 30-077	ZEPPERNICK LAKE	41	Columbiana	R	DPI

Uses: WS- Water Supply, R - Recreation, FC - Flood Control

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
ACTON LAKE										
L-1	30-May-95	9.14	52	0.46	71.0	50	61.0	**66.0**	L-1 Eutrophic	OEPA,314 GRANT
L-1	14-Aug-95	73.52	73	0.43	72.0	110	72.0			OEPA,314 GRANT
L-1	28-Sep-95	34.53	65	0.53	69.0	<50				OEPA,314 GRANT
S-2	1993			(N=11)	77.0					CLIP/OLMS
S-1	1993			(N=11)	72.0					CLIP/OLMS
S-2	1992			(N=14)	71.0					CLIP/OLMS
S-1	1992			(N=14)	76.0					CLIP/OLMS
S-2	1991			(N=13)	79.0					CLIP/OLMS
S-1	1991			(N=13)	72.0					CLIP/OLMS
L-1	09-Aug-89	32.6	65	0.95	61.0	61	63.0			FULMER/COOKE
L-1	21-Aug-89	19.4	60	0.51	70.0	70	65.0			OEPA,314 GRANT
L-1	26-Apr-89			0.61	67.0					OEPA,314 GRANT
L-3	10-Jly-89	34.5	65	0.24	81.0	116	73.0			FULMER/COOKE
L-3	09-Aug-89	41.5	67	0.38	74.0	94	70.0			FULMER/COOKE
L-1	10-Aug-81	121.7	78	0.52	69.0	90	69.0			OEPA,1982 305(B)
L-1	09-Sep-75			0.71	65.0	60	63.0			OEPA,1982 305(B)
L-1	30-Apr-75			0.13	89.0	210	81.0			OEPA,1982 305(B)
L-1	18-Aug-60			0.51	70.0					OEPA,1982 305(B)
L-1	22-Apr-60			1.6	53.0					OEPA,1982 305(B)
ADAMS LAKE										
L-1	18-Aug-80	9.3	52	0.73	64.0	40	57.0	**57.0**	Eutrophic	OEPA,1982 305(B)
L-1	01-May-80	8.2	51	0.33	76.0	60	63.0			OEPA,1982 305(B)
ALDRICH POND										
L-1	11-May-94			1.1	59.0	260	84.0	**66.0**	Eutrophic	OEPA,314 GRANT
L-1	27-Jly-94	49.72	69	1	60.0	19	47.0			OEPA,314 GRANT
L-1	24-Aug-94	3.65	43	0.7	65.0	23	49.0			OEPA,314 GRANT
ALUM CREEK LAKE										
S-1	1994			(N=1)	66.0					CLIP/OLMS
S-3	1994			(N=3)	57.0					CLIP/OLMS
S-1	1992			(N=1)	64.0					CLIP/OLMS
S-1	1991			(N=6)	58.0					CLIP/OLMS
S-3	1991			(N=6)	62.0					CLIP/OLMS

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-1	23-Aug-89	3.5	43	1.95	50.0	11	39.0	**44.0**	L1-Mesotrophic	OEPA,314 GRANT
L-1	03-May-89			0.75	64.0	16	44.0			OEPA,314 GRANT
L-2	03-May-89	5.3	47	0.7	65.0	60	63.0	**55.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	23-Aug-89			2.02	50.0	9	36.0			OEPA,314 GRANT
L-1	13-Apr-76			2.6	46.0	30	53.0			OEPA,1982 305(B)
L-1	27-Aug-76			3.4	42.0	40	57.0			OEPA,1982 305(B)
AMANN RESERVOIR										
L-1	03-May-94	20.8	60	0.7	65.0	60	63.0	**61.0**	Eutrophic	OEPA,314 GRANT
L-1	28-Jly-94	6.13	48	0.4	73.0	90	69.0			OEPA,314 GRANT
L-1	07-09-94	55.14	70	0.5	70.0	60	63.0			OEPA,314 GRANT
ATWOOD RESERVOIR										
S-1	1994			(N=5)	69.0					CLIP/OLMS
L-1	01-Jun-93			0.75	64.0	23	49.0	**52.0**	L1- Eutrophic	OEPA,314 GRANT
L-1	18-Aug-93	20.03	60	0.92	61.0	36	56.0			OEPA,314 GRANT
L-1	07-Sep-93	13.78	56	1.22	57.0	26	51.0			OEPA,314 GRANT
L-2	18-Aug-93	53.38	70	0.94	61.0	44	59.0	**65.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	07-Sep-93	20.81	60	0.98	60.0	33	55.0			OEPA,314 GRANT
S-1	1993			(N=15)	68.0					CLIP/OLMS
S-1	1992			(N=6)	69.0					CLIP/OLMS
S-2	1992			(N=7)	64.0					CLIP/OLMS
?	1991			(N=6)	68.0					CLIP/OLMS
S-1	1991			(N=3)	69.0					CLIP/OLMS
L-1	17-May-76			1.2	57.0	30	53.0			OEPA,1982 305(B)
L-1	30-Aug-76			0.91	61.0	40	57.0			OEPA,1982 305(B)
L-1	30-Jul-73	8.1	51	1.2	57.0	20	47.0			OEPA,1982 305(B)
L-1	20-Apr-73	10.3	53	1.7	52.0	20	47.0			OEPA,1982 305(B)
BALDWIN LAKE										
L-1	23-Aug-77	10.9	54	0.1	93.0	340	88.0	**54.0**	Eutrophic	OEPA,1982 305(B)
BARBERTON RESERVOIR										
S-1	1995			(N=3)	60.0				Insuff. Data	NEFCO

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
S-2	1995			(N=3)	61.0					NEFCO
S-3	1995			(N=3)	67.0					NEFCO
S-1	1994			(N=8)	63.0					NEFCO
S-2	1994			(N=8)	64.0					NEFCO
S-3	1994			(N=8)	69.0					NEFCO
S-1	1993			(N=2)	62.0					NEFCO
S-2	1993			(N=2)	61.0					NEFCO
S-3	1993			(N=2)	70.0					NEFCO
S-1	1992			(N=11)	63.0					NEFCO
S-2	1992			(N=11)	63.0					NEFCO
BARNESVILLE RESERVOIR # 3										
L-1	02-Jun-93			2.03	50.0	15	43.0	**43.0**	Mesotrophic	OEPA,314 GRANT
L-1	17-Aug-93	2.06	38	2.22	48.0	18	46.0			OEPA,314 GRANT
L-1	08-Sep-93	6.75	49	1.85	51.0	25	52.0			OEPA,314 GRANT
L-1	21-Aug-80	17.1	58	1.2	57.0	40	57.0			OEPA,1982 305(B)
L-1	15-May-80	8.5	52	0.96	61.0	30	53.0			OEPA,1982 305(B)
BEACH CITY LAKE										
L-1	20-Apr-73	4.3	45	0.3	77.0	90	69.0	**64.0**	Eutrophic	OEPA,1982 305(B)
L-1	30-Jul-73	19.4	60	0.2	83.0	280	85.0			OEPA,1982 305(B)
BEAVER CREEK RESERVOIR										
L-1	15-May-90			3	44.0	13	41.0	**45.0**	Mesotrophic	OEPA,314 GRANT
L-1	23-Aug-90	6.3	49	2.5	47.0	130	74.0			OEPA,314 GRANT
BELLEVUE RESERVOIR # 5										
L-1	26-May-93			2.2	49.0	9	36.0	**44.0**	Mesotrophic	OEPA,314 GRANT
L-1	25-Aug-93	7.45	50	2.8	45.0	10	37.0			OEPA,314 GRANT
L-1	14-Sep-93	4.52	45	0.9	61.0	17	45.0			OEPA,314 GRANT
BELMONT LAKE										
L-1	29-Jun-89	16.3	58	1.12	58.0	33	55.0	**54.0**	L1-Eutrophic	FULMER/COOKE

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-1	31-Jly-89	7.4	50	1.62	53.0	26	51.0			FULMER/COOKE
L-2	29-Jun-89	17.4	59	1.06	59.0	34	55.0	**56.0**	L2-Eutrophic	FULMER/COOKE
L-2	31-Jly-89	9.8	53	1.4	55.0	48	60.0			FULMER/COOKE
L-1	08-May-80	15.4	57	1.1	59.0	20	47.0			OEPA,1982 305(B)
L-1	07-Aug-80	49.7	69	0.86	62.0	90	69.0			OEPA,1982 305(B)
BERLIN RESERVOIR										
S-1	1991			(N=7)	62.0					CLIP/OLMS
S-2	1991			(N=8)	62.0					CLIP/OLMS
S-3	1991			(N=9)	65.0					CLIP/OLMS
L-1	13-Apr-89			1.03	60.0		43.0	**59.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	10-Aug-89	18.8	59	0.9	62.0	15				OEPA,314 GRANT
L-1	02-Aug-89			0.75	64.0	24	50.0			OEPA,314 GRANT
L-2	02-Aug-89			0.9	61.0	33	55.0	**69.0**	L2-Hypereutrophic	OEPA,314 GRANT
L-2	13-Apr-89			0.83	63.0	90	69.0			OEPA,314 GRANT
L-1	28-May-75			0.49	70.0	20	47.0			OEPA,1982 305(B)
L-1	27-Aug-75			0.76	64.0	30	53.0			OEPA,1982 305(B)
L-1	20-Apr-73	14.7	57	0.94	61.0	30	53.0			OEPA,1982 305(B)
L-1	30-Jul-73	12.2	55	0.97	60.0	30	53.0			OEPA,1982 305(B)
BERLIN RESERVOIR (EAST BASIN)										
	1989			(N=5)	62.0					NEFCO
	1988			(N=5)	63.0					NEFCO
BERLIN RESERVOIR (WEST BASIN)										
	1989			(N=7)	74.0					NEFCO
	1989			(N=9)	80.0					NEFCO
BLUE LIMESTONE QUARRY LAKE										
L-1	04-May-94	6.61	49	1.75	52.0	44	59.0	**57.0**	Eutrophic	OEPA,314 GRANT
L-1	27-Jly-94	6.17	48	0.98	60.0	28	52.0			OEPA,314 GRANT
L-1	07-Sep-94	27.08	63	1	60.0	140	75.0			OEPA,314 GRANT
BOWLING GREEN UPGROUND RESERVOIR										
L-1	10-May-94			1.3	56.0	70	65.0	**53.0**	Eutrophic	OEPA,314 GRANT
L-1	26-Jly-94	5.03	46	0.4	73.0	50	61.0			OEPA,314 GRANT
L-1	23-Sep-94	5.21	46	0.4	73.0	50	61.0			OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
BRADY LAKE										
S-1	1995			(N=12)	58.0					NEFCO
S-2	1995			(N=12)	58.0					NEFCO
S-3	1995			(N=12)	60.0					NEFCO
S-1	1994			(N=12)	56.0					NEFCO
S-2	1994			(N=12)	55.0					NEFCO
S-3	1994			(N=12)	57.0					NEFCO
S-1	1993			(N=13)	59.0					NEFCO
S-2	1993			(N=13)	59.0					NEFCO
S-3	1993			(N=13)	60.0					NEFCO
L-1	10-Sep-93	23.7	62	1.07	59.0	80	67.0	**62.0**	Eutrophic	OEPA,NPS
S-1	1992			(N=2)	61.0					NEFCO
L-1	08-Aug-80	98.5	76	0.91	61.0	150	76.0			OEPA,1982 305(B)
BRESLER RESERVOIR										
L-1	23-Apr-90			6.5	33.0	28	52.0	**56.0**	Eutrophic	OEPA,314 GRANT
L-1	20-Aug-90	18.4	59	2	50.0	60	63.0			OEPA,314 GRANT
BUCKEYE LAKE										
S-1	1994			(N=7)	82.0					CLIP/OLMS
S-2	1994			(N=7)	82.0					CLIP/OLMS
S-3	1994			(N=7)	82.0					CLIP/OLMS
S-4	1994			(N=7)	83.0					CLIP/OLMS
S-6	1994			(N=8)	81.0					CLIP/OLMS
S-7	1994			(N=5)	80.0					CLIP/OLMS
S-1	1993			(N=10)	88.0					CLIP/OLMS
S-2	1993			(N=10)	82.0					CLIP/OLMS
S-6	1993			(N=5)	79.0					CLIP/OLMS
S-7	1993			(N=5)	76.0					CLIP/OLMS
S-1	1992			(N=6)	78.0					CLIP/OLMS
S-2	1992			(N=6)	83.0					CLIP/OLMS
S-6	1992			(N=9)	79.0					CLIP/OLMS
S-7	1992			(N=9)	78.0					CLIP/OLMS
S-1	1991			(N=5)	82.0					CLIP/OLMS
S-4	1991			(N=3)	85.0					CLIP/OLMS

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
S-5	1991			(N=12)	73.0					CLIP/OLMS
?	1991			(N=10)	83.0					CLIP/OLMS
L-1	24-Aug-89	274.3	86	0.3	77.0	170	78.0	**74.0**	Hypereutrophic	OEPA,314 GRANT
L-1	08-May-89			0.36	75.0	60	63.0			OEPA,314 GRANT
L-1	16-May-78	92.2	75	0.55	69.0	150	76.0			OEPA,1982 305(B)
L-1	22-Aug-78	60.8	71	1.1	59.0	100	71.0			OEPA,1982 305(B)
L-1	16-Aug-75			0.43	72.0	100	71.0			OEPA,1982 305(B)
L-1	02-May-75			1.5	54.0	100	71.0			OEPA,1982 305(B)
L-1	04-Apr-73	258.6	85	0.2	83.0	150	76.0			OEPA,1982 305(B)
L-1	07-Jul-73	161.9	81	0.3	77.0	150	76.0			OEPA,1982 305(B)
BUCYRUS RESERVOIR # 1										
L-1	31-May-95	4.59	45	0.8	63.0	39	57.0	**65.0**	Eutrophic	OEPA,314 GRANT
L-1	01-Aug-95	48.3	69	0.4	73.0	60	63.0			OEPA,314 GRANT
L-1	16-Aug-95	51.2	69	0.6	67.0	70	65.0			OEPA,314 GRANT
BUCYRUS RESERVOIR # 2										
L-1	31-May-95	27.8	63	0.5	70.0	49	60.0	**71.0**	Hypereutrophic	OEPA,314 GRANT
L-1	01-Aug-95	165.97	81	0.3	77.0	60	63.0			OEPA,314 GRANT
L-1	16-Aug-95	68.49	72	0.5	70.0	120	73.0			OEPA,314 GRANT
BUCYRUS RESERVOIR # 4										
L-1	31-May-95			3	44.0	70	65.0	**40.0**	Mesotrophic	OEPA,314 GRANT
L-1	01-Aug-95	1.535	35	4.2	39.0	60	63.0			OEPA,314 GRANT
L-1	16-Aug-95	0.375	21	7	32.0	60	63.0			OEPA,314 GRANT
BURR OAK LAKE (T. JENKINS RESV.)										
S-1	1991			(N=1)	55.0					CLIP/OLMS
L-1	22-Apr-76			2	50.0	30	53.0	**53.0**	Eutrophic	OEPA,1982 305(B)
L-1	30-Sep-76			1.4	55.0	50	61.0			OEPA,1982 305(B)
C. J. BROWN LAKE										
L-1	02-Jun-94			0.91	61.0	<50		**63.0**	L1-Eutrophic	OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-1	10-Aug-94	27.7	63	1.52	54.0	40	57.0			OEPA,314 GRANT
L-1	14-Sep-94			1.83	51.0	33	54.0			OEPA,314 GRANT
L-2	02-Jun-94			0.91	61.0	50	61.0	**64.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	10-Aug-94	41.6	67	0.76	64.0	53	61.0			OEPA,314 GRANT
L-2	14-Sep-94			0.91	61.0	44	59.0			OEPA,314 GRANT
S-1	1994			(N=1)	57.0					CLIP/OLMS
S-3	1994			(N=1)	61.0					CLIP/OLMS
S-1	1993			(N=3)	61.0					CLIP/OLMS
S-1	1992			(N=3)	61.0					CLIP/OLMS
S-1	1991			(N=13)	57.0					CLIP/OLMS
S-2	1991			(N=9)	61.0					CLIP/OLMS
S-3	1991			(N=11)	58.0					CLIP/OLMS
L-1	07-Apr-77			1.2	57.0	40	57.0			OEPA,1982 305(B)
L-1	02-Aug-77	32.3	65	1.5	54.0	40	57.0			OEPA,1982 305(B)
CAESAR CREEK RESERVOIR										
L-1	26-Aug-78	8.5	52	4.3	39.0	10	37.0	**62.0**	Eutrophic	OEPA,1982 305(B)
L-1	25-Apr-78	5.1	47	1.5	54.0	120	73.0			OEPA,1982 305(B)
CALDWELL LAKE										
L-1	26-Jly-95	5.5	47					**47.0**	Mesotrophic	OEPA, SPECIAL
L-1	1987		60		50.0					OEPA, UNPUBL
CAMBRIDGE RESERVOIR										
L-1	26-Apr-94			1.1	59.0			**65.0**	Eutrophic	OEPA,314 GRANT
L-1	34555			0.8	63.0	44	59.0			OEPA,314 GRANT
L-1	29-Aug-94	32.61	65	0.7	65.0	<50				OEPA,314 GRANT
CEDARVILLE RESERVOIR										
L-1	01-Jun-93			2.1	49.0	13	41.0	**49.0**	Eutrophic	OEPA,314 GRANT
L-1	30-Aug-93			1.3	56.0	43	58.0			OEPA,314 GRANT
L-1	27-Sep-93	16.68	58	0.8	63.0	60	63.0			OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
CHARLES MILL LAKE										
L-1	21-May-90			0.5	70.0	60	63.0	**67.0**	L1-Hypereutrophic	OEPA,314 GRANT
L-1	11-Sep-90	61.6	71	0.25	80.0	80	67.0			OEPA,314 GRANT
L-1	21-May-90			0.25	80.0	60	63.0	**66.0**	L2-Hypereutrophic	OEPA,314 GRANT
L-1	11-Sep-90	43.3	68	0.25	80.0	80	67.0			OEPA,314 GRANT
L-1	08-Aug-78	68.8	72	0.34	76.0	140	75.0			OEPA,1982 305(B)
L-1	12-May-78	90.2	75	0.46	71.0	110	72.0			OEPA,1982 305(B)
L-1	20-Apr-73	41.7	67	0.61	67.0	60	63.0			OEPA,1982 305(B)
L-1	27-Jul-73	85.5	74	0.3	77.0	170	78.0			OEPA,1982 305(B)
CINNAMON LAKE										
S-1	1994			(N=12)	50.0				Insuff. Data	CLIP/OLMS
S-2	1994			(N=13)	49.0					CLIP/OLMS
S-3	1994			(N=11)	51.0					CLIP/OLMS
S-4	1994			(N=9)	51.0					CLIP/OLMS
S-1	1993			(N=12)	60.0					CLIP/OLMS
S-2	1993			(N=12)	60.0					CLIP/OLMS
S-3	1993			(N=12)	61.0					CLIP/OLMS
S-4	1993			(N=12)	60.0					CLIP/OLMS
S-1	1992			(N=12)	49.0					CLIP/OLMS
S-2	1992			(N=12)	46.0					CLIP/OLMS
S-3	1992			(N=12)	50.0					CLIP/OLMS
S-4	1992			(N=12)	50.0					CLIP/OLMS
S-1	1991			(N=12)	48.0					CLIP/OLMS
S-2	1991			(N=12)	47.0					CLIP/OLMS
S-3	1991			(N=12)	49.0					CLIP/OLMS
S-4	1991			(N=12)	48.0					CLIP/OLMS
CITY OF DAYTON LAKE # 1										
L-1	25-May-94			0.76	64.0	60	63.0	**71.0**	Hypereutrophic	OEPA,314 GRANT
L-1	34555	128	78	0.91	61.0	88	69.0			OEPA,314 GRANT
L-1	34590			1.07	59.0	100	71.0			OEPA,314 GRANT
CLARK LAKE										
L-1	29-May-79	11.2	54	1.7	52.0	10	37.0	**38.0**	Mesotrophic	OEPA,1982 305(B)
L-1	13-Aug-79	2.4	39	2.1	49.0	10	37.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
CLEAR FORK RESERVOIR										
S-1	1994			(N=12)	55.0					CLIP/OLMS
L-1	01-Jun-93			2	50.0	15	43.0	**57.0**	Eutrophic	OEPA,314 GRANT
L-1	24-Aug-93	56.05	70	0.9	61.0	46	59.0			OEPA,314 GRANT
L-1	15-Sep-93	18.07	59	0.8	63.0	37	56.0			OEPA,314 GRANT
S-1	1993			(N=11)	58.0					CLIP/OLMS
S-1	1992			(N=12)	62.0					CLIP/OLMS
S-1	1991			(N=11)	65.0					CLIP/OLMS
L-1	20-Aug-75			1	60.0	30	53.0			OEPA,1982 305(B)
L-1	23-May-75			1	60.0	40	57.0			OEPA,1982 305(B)
CLENDENING LAKE										
L-1	27-Apr-76			1	60.0	40	57.0	**58.0**	Eutrophic	OEPA,1982 305(B)
L-1	03-Sep-76			1	60.0	60	63.0			OEPA,1982 305(B)
CLOUSE POND										
L-1	29-May-80	20.3	60	0.86	62.0	40	57.0	**62.0**	Eutrophic	OEPA,1982 305(B)
L-1	05-Aug-80	46.6	68	0.41	73.0	70	65.0			OEPA,1982 305(B)
COE LAKE										
L-1	07-Jun-93			0.57	68.0	20	47.0	**57.0**	Eutrophic	OEPA,314 GRANT
L-1	24-Aug-92	42.87	67	0.58	68.0	63	64.0			OEPA,314 GRANT
L-1	04-Aug-92	14.22	57	0.22	81.0	80	67.0			OEPA,314 GRANT
CORNING RESERVOIR										
S-1	1994			(N=1)	58.0				Insuff. Data	CLIP/OLMS
?	1994			(N=11)	52.0					CLIP/OLMS
S-1	1993			(N=12)	52.0					CLIP/OLMS
S-1	1992			(N=13)	55.0					CLIP/OLMS

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
COWAN LAKE										
S-1	1991			(N=6)	69.0					CLIP/OLMS
S-2	1991			(N=5)	68.0					CLIP/OLMS
S-3	1991			(N=7)	70.0					CLIP/OLMS
L-1	11-Jly-89	10.5	54	0.79	63.0	45	59.0	**58.0**	L1-Eutrophic	FULMER/COOKE
L-1	08-Aug-89	21.9	61	0.93	61.0	38	56.0			FULMER/COOKE
L-2	11-Jly-89	13.5	56	0.8	63.0	63	64.0	**60.0**	L2-Eutrophic	FULMER/COOKE
L-2	08-Aug-89	33.4	65	0.74	64.0	75	66.0			FULMER/COOKE
L-3	11-Jly-89	15	57	0.38	74.0	65	64.0	**60.0**	L3-Eutrophic	FULMER/COOKE
L-3	08-Aug-89	29.9	64	0.61	67.0	73	66.0			FULMER/COOKE
L-1	10-Sep-75			0.58	68.0	60	63.0			OEPA,1982 305(B)
L-1	29-Apr-75			0.28	78.0	120	73.0			OEPA,1982 305(B)
CRYSTAL LAKE (RAVENNA)										
L-1	17-May-94			4.51	38.0	11	39.0	**42.0**	Mesotrophic	OEPA,314 GRANT
L-1	18-Jly-94	4.28	45	3.73	41.0	11	39.0			OEPA,314 GRANT
L-1	24-Aug-94	3.21	42	3.85	41.0	11	39.0			OEPA,314 GRANT
S-1	1992			(N=6)	39.0					NEFCO
S-1	09-Jun-90	1.1	32	2.74	46.0	25	42.0			NEFCO/KSU
S-1	28-Jun-90	2	38	4.27	39.0	25	47.0			NEFCO/KSU
S-1	18-Jly-90	2	38	3.66	41.0	42	58.0			NEFCO/KSU
S-1	09-Aug-90	2.4	39	3.81	41.0	15	44.0			NEFCO/KSU
S-1	30-Aug-90	1.1	32	3.76	41.0	22	49.0			NEFCO/KSU
S-1	21-Sep-90	1.8	37	4.65	38.0	15	43.0			NEFCO/KSU
S-1	1990			(N=8)	41.0					NEFCO
S-1	1989			(N=6)	43.0					NEFCO
CUTLER LAKE										
L-1	22-Jul-81	35.9	66	0.55	69.0	40	57.0	**66.0**	Eutrophic	OEPA,1982 305(B)
DALE WALBURN RESERVOIR										
VLMP	1989			(N=4)	72.0					NEFCO
L-1	03-May-89			0.74	64.0	50	61.0	**61.0**	Eutrophic	OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
DEER CREEK LAKE										
S-1	1993			(N=5)	65.0					CLIP/OLMS
S-1	1992			(N=10)	65.0					CLIP/OLMS
L-1	27-Apr-90			1	60.0	22	49.0	**57.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	20-Aug-90	34.3	65	1.2	57.0	50	61.0			OEPA,314 GRANT
L-2	27-Apr-90			1.05	59.0	58	63.0	**63.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	20-Aug-90	28.5	63	0.85	62.0	29	53.0			OEPA,314 GRANT
L-1	12-Sep-75			0.46	71.0	60	63.0			OEPA,1982 305(B)
L-1	25-Apr-75			0.48	71.0	70	65.0			OEPA,1982 305(B)
L-1	28-Apr-73	14.4	57	0.45	72.0	100	71.0			OEPA,1982 305(B)
L-1	01-Aug-73	9.9	53	1.2	57.0	40	57.0			OEPA,1982 305(B)
DEER CREEK RESERVOIR (STARK)										
L-1	18-May-94			0.64	66.0	31	54.0	**63.0**	Eutrophic	OEPA,314 GRANT
L-1	14-Jly-94	45.2	68	0.61	67.0	<50				OEPA,314 GRANT
L-1	22-Aug-94	43.72	68	0.57	68.0	42	58.0			OEPA,314 GRANT
VLMP	1990			(N=7)	68.0					NEFCO
VLMP	1989			(N=7)	66.0					NEFCO
L-1	23-Apr-77			0.91	61.0	40	57.0			OEPA,1982 305(B)
L-1	16-Aug-77	25	62	0.73	65.0	30	53.0			OEPA,1982 305(B)
DEFIANCE POWER DAM RESERVOIR										
L-1	26-Apr-90			0.25	80.0	60	63.0	**58.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	12-Sep-90	9.9	53	0.1	93.0	1340				OEPA,314 GRANT
L-2	26-Apr-90			0.25	80.0	70	65.0	**56.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	12-Sep-90	5.4	47	0.1	93.0	990				OEPA,314 GRANT
DELAWARE LAKE										
S-1	1993			(N=5)	72.0					CLIP/OLMS
S-1	1992			(N=4)	60.0					CLIP/OLMS
S-1	1991			(N=7)	70.0					CLIP/OLMS
L-1	26-Apr-90			0.35	75.0	80	67.0	**66.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	22-Aug-90	38.5	66	0.9	62.0	40	57.0			OEPA,314 GRANT
L-1	11-Jly-89	35.1	66	0.7	65.0	57	62.0			FULMER/COOKE
L-1	14-Aug-89	32.1	65	0.71	65.0	51	61.0			FULMER/COOKE
L-2	11-Jly-89	34	65	0.68	66.0	72	66.0	**67.0**	L2-Hypereutrophic	FULMER/COOKE

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-2	14-Aug-89	55.1	70	0.7	65.0	73	66.0			FULMER/COOKE
L-1	26-Apr-73	14.9	57	0.61	67.0	80	67.0			OEPA,1982 305(B)
L-1	01-Aug-73	4.1	44	0.46	71.0	70	65.0			OEPA,1982 305(B)
DELCO WATER COMPANY LAKE										
L-1	04-May-94	6.41	49	1.7	52.0	60	63.0	**57.0**	Eutrophic	OEPA,314 GRANT
L-1	27-Jly-94	9.705	53	0.7	65.0	29	53.0			OEPA,314 GRANT
L-1	07-Sep-94	13.67	56	1.1	59.0	60	63.0			OEPA,314 GRANT
DELTA RESERVOIR #2										
L-1	17-May-93			3.9	40.0	6	30.0	**33.0**	Oligotrophic	OEPA,314 GRANT
L-1	17-Sep-92	2.89	41	3.1	44.0					OEPA,314 GRANT
L-1	18-Aug-92	0.765	28	6.5	33.0	<5.0				OEPA,314 GRANT
DILLON RESERVOIR										
?	1994			(N=1)	65.0					CLIP/OLMS
S-1	1993			(N=21)	69.0					CLIP/OLMS
S-4	1993			(N=10)	66.0					CLIP/OLMS
S-1	1992			(N=11)	63.0					CLIP/OLMS
S-3	1992			(N=1)	63.0					CLIP/OLMS
S-4	1992			(N=11)	67.0					CLIP/OLMS
S-5	1992			(N=10)	66.0					CLIP/OLMS
S-6	1992			(N=8)	66.0					CLIP/OLMS
S-7	1992			(N=6)	67.0					CLIP/OLMS
S-1	1991			(N=12)	64.0					CLIP/OLMS
S-3	1991			(N=6)	64.0					CLIP/OLMS
S-4	1991			(N=4)	68.0					CLIP/OLMS
L-1	14-May-90			0.5	70.0	80	67.0	**61.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	11-Sep-90	12.5	55	0.7	65.0	60	63.0			OEPA,314 GRANT
L-2	14-May-90			0.2	83.0	140	75.0	**69.0**	L2-Hypereutrophic	OEPA,314 GRANT
L-2	11-Sep-90	25.9	63	0.5	70.0					OEPA,314 GRANT
L-1	12-Aug-77	40.9	67	0.67	66.0	70	65.0			OEPA,1982 305(B)
L-1	11-Apr-77			0.46	71.0	90	69.0			OEPA,1982 305(B)
L-1	30-Jul-73	20	60	0.61	67.0	110	72.0			OEPA,1982 305(B)
	26-Apr-73	25.9	63.00	0.51	70.0	120.00	73.0			OEPA,1982 305(B)
L-1	26-Apr-73	25.9	63	0.51	70.0	120	73.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
DOLLAR LAKE (PORTAGE LAKES)										
S-1	1993			(N=1)	50.0					NEFCO
S-1	1992			(N=10)	47.0					NEFCO
DOW LAKE										
L-1	1994			(N=2)	50.0					CLIP/OLMS
L-2	1994			(N=2)	52.0					CLIP/OLMS
L-3	1994			(N=2)	55.0					CLIP/OLMS
L-1	27-Apr-90			2.25	48.0	10	37.0	**38.0**	L1-Mesotrophic	OEPA,314 GRANT
L-1	22-Aug-90	6.2	48	2.5	47.0	7	32.0			OEPA,314 GRANT
L-1	19-Jun-89	1.6	35	2.76	45.0	27	52.0			FULMER/COOKE
L-1	04-Aug-89	1	31	3.16	43.0	11	39.0			FULMER/COOKE
L-2	19-Jun-89	3.2	42	2.51	47.0	32	54.0	**43.0**	L2-Mesotrophic	FULMER/COOKE
L-2	04-Aug-89	1.2	32	3.1	44.0	33	54.0			FULMER/COOKE
L-3	19-Jun-89	2.1	38	2.14	49.0	20	47.0	**42.0**	L3-Mesotrophic	FULMER/COOKE
L-3	04-Aug-89	2	37	2.68	46.0	19	46.0			FULMER/COOKE
L-1	31-Aug-78	6.2	48	3	44.0					OEPA,1982 305(B)
L-1	08-May-78	9.9	53	1.7	52.0	10	37.0			OEPA,1982 305(B)
EAST BRANCH RESERVOIR										
L-1	26-Apr-77			0.85	62.0	40	57.0	**60.0**	Eutrophic	OEPA,1982 305(B)
L-1	15-Aug-77	28.8	64	0.91	61.0	50	61.0			OEPA,1982 305(B)
EAST FORK LAKE (HARSA)										
L-1	02-Jun-93			0.91	61.0	45	59.0	**54.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	02-Sep-93			1.5	54.0	18	46.0			OEPA,314 GRANT
L-1	29-Sep-93	6.63	49	1.75	52.0	<50				OEPA,314 GRANT
L-2	02-Jun-93			1	60.0	48	60.0	**56.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	02-Sep-93			1.65	53.0	60	63.0			OEPA,314 GRANT
L-2	29-Sep-93	8.15	51	1.14	58.0	<50				OEPA,314 GRANT
S-1	1992			(N=12)	56.0					CLIP/OLMS
S-1	1991			(N=12)	56.0					CLIP/OLMS
L-1	21-Aug-79	47	68	1.1	59.0	40	57.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-1	01-Jun-79	8.5	52	1.2	57.0	80	67.0			OEPA,1982 305(B)
EAST RESERVOIR										
S-1	1994			(N=3)	58.0					NEFCO
S-2	1994			(N=3)	58.0					NEFCO
S-1	1993			(N=2)	53.0					NEFCO
L-1	19-May-93			1.42	55.0	20	47.0	**63.0**	Eutrophic	OEPA,314 GRANT
L-1	17-Aug-93	54.79	70	0.84	62.0	190	80.0			OEPA,314 GRANT
L-1	09-Sep-93	63.59	71	0.92	61.0	110	72.0			OEPA,314 GRANT
S-1	1992			(N=5)	60.0					NEFCO
S-1	10-Jun-90	22	61	0.91	61.0	79	65.0			NEFCO/KSU
S-1	03-Jly-90	6.6	49	1.22	57.0	25	47.0			NEFCO/KSU
S-1	12-Aug-90	19.3	60	0.94	61.0	82	68.0			NEFCO/KSU
S-1	18-Aug-90	12.1	55	0.71	65.0	72	66.0			NEFCO/KSU
S-1	31-Aug-90	58.3	71	0.91	61.0	89	69.0			NEFCO/KSU
S-1	22-Sep-90	57.8	70	0.91	61.0	81	68.0			NEFCO/KSU
S-1	1990			(N=18)	60.0					NEFCO
S-1	1989			(N=21)	59.0					NEFCO
S-1	1988			(N=6)	58.0					NEFCO
L-1	23-May-80	85	74	0.76	64.0	60	63.0			OEPA,1982 305(B)
L-1	02-Sep-80	46.9	68	1	60.0	140	75.0			OEPA,1982 305(B)
EASTWOOD LAKE										
L-1	14-Aug-89	46.4	68	0.46	71.0	35	55.0	**61.0**	Eutrophic	OEPA,314 GRANT
L-1	24-Apr-89					32	54.0			OEPA,314 GRANT
ECHO LAKE										
L-1	24-May-94			0.46	71.0	45	59.0	**63.0**	Eutrophic	OEPA,314 GRANT
L-1	08-Aug-94	45.72	68	0.46	71.0	140	75.0			OEPA,314 GRANT
L-1	12-Sep-94			0.46	71.0	110	72.0			OEPA,314 GRANT
ESSINGTON LAKE										
L-1	23-Jul-81	2.1	38	3.5	42.0	20	47.0	**38.0**	Mesotrophic	OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
EVANS LAKE										
L-1	26-May-94			2.52	47.0	10	37.0	**49.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	21-Jly-94	2.93	41	2.17	49.0	16	44.0			OEPA,314 GRANT
L-1	01-Sep-94	42.96	67	0.93	61.0	20	47.0			OEPA,314 GRANT
L-2	01-Sep-94					21	48.0			OEPA,314 GRANT
S-1	1992			(N=9)	52.0					CLIP/OLMS
EVERGREEN LAKE										
L-1	10-May-94			1.6	53.0	18	46.0	**61.0**	Eutrophic	OEPA,314 GRANT
L-1	26-Jly-94	53.79	69.7	0.8	63.0	60	63.0			OEPA,314 GRANT
L-1	23-Aug-94	37.03	66	0.9	61.0	60	63.0			OEPA,314 GRANT
FERGUSON RESERVOIR										
L-1	24-Apr-90			6.5	33.0	24	50.0	**50.0**	Eutrophic	OEPA,314 GRANT
L-1	22-Aug-90	6.9	49	2.5	47.0	200	81.0			OEPA,314 GRANT
FINDLAY RESERVOIR #2										
L-1	31-Aug-79	18.3	59	1.5	54.0	30	53.0	**47.0**	Mesotrophic	OEPA,1982 305(B)
L-1	27-Jun-79	3.9	44	3.4	42.0	10	37.0			OEPA,1982 305(B)
FINDLEY LAKE										
L-1	30-Aug-89	267.3	85	0.46	71.0	67	65.0	**66.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	08-May-89			2.82	45.0	16	44.0			OEPA,314 GRANT
L-1	19-Jly-89	20	60	1.28	56.0	33	55.0			FULMER/COOKE
L-1	21-Aug-89	58.5	71	0.91	61.0	59	63.0			FULMER/COOKE
L-2	19-Jly-89	23.8	62	1.21	57.0	87	69.0	**65.0**	L2-Eutrophic	FULMER/COOKE
L-2	21-Aug-89	45.6	68	0.9	62.0	74	66.0			FULMER/COOKE
L-3	19-Jly-89	23.7	62	1.05	59.0	87	69.0	**65.0**	L3-Eutrophic	FULMER/COOKE
L-3	21-Aug-89	48	69	0.76	64.0	153	77.0			FULMER/COOKE
L-1	03-Jun-80	4.2	45	3.4	42.0	70	65.0			OEPA,1982 305(B)
L-1	12-Aug-80	33.8	65	1.5	54.0	30	53.0			OEPA,1982 305(B)
L-1	16-Aug-77	44.6	68	1.2	57.0	70	65.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
FIRESTONE RESERVOIR										
L-1	14-Jul-81	55.2	70	0.7	65.0	10	37.0	**70.0**	Hypereutrophic	OEPA,1982 305(B)
FORKED RUN LAKE										
S-1	1994			(N=11)	55.0					CLIP/OLMS
S-2	1994			(N=11)	57.0					CLIP/OLMS
L-1	03-Jun-93			1.9	51.0	12	40.0	**37.0**	L1-Oligotrophic	OEPA,314 GRANT
L-1	16-Aug-93	0.78	28	2.54	47.0	11	39.0			OEPA,314 GRANT
L-1	09-Sep-93	3.56	43	3.13	44.0	17	45.0			OEPA,314 GRANT
S-1	1993			(N=12)	77.0					CLIP/OLMS
S-2	1993			(N=12)	78.0					CLIP/OLMS
L-1	19-Jun-89	2.3	39	2.02	50.0	33	55.0			FULMER/COOKE
L-1	24-Jly-89	1	31	2.59	46.0	6	30.0			FULMER/COOKE
L-2	19-Jun-89	2.7	40	1.88	51.0	38	57.0	**45.0**	L2-Mesotrophic	FULMER/COOKE
L-2	24-Jly-89	1.3	33	1.73	52.0	7	33.0			FULMER/COOKE
L-3	19-Jun-89	3.8	44	1.52	54.0	30	53.0	**47.0**	L3-Mesotrophic	FULMER/COOKE
L-3	24-Jly-89	2.9	41	1.43	55.0	9	35.0			FULMER/COOKE
L-1	25-Aug-78			2.3	48.0	10	37.0			OEPA,1982 305(B)
L-1	04-May-78	3.7	43	1.4	55.0	10	37.0			OEPA,1982 305(B)
FORTY ACRE POND										
L-1	29-Jul-81	127.6	78			30	53.0	**78.0**	Hypereutrophic	OEPA,1982 305(B)
FOX LAKE STRUCTURE #6										
L-1	19-Aug-80	17.5	59	1.6	53.0	100	71.0	**53.0**	Eutrophic	OEPA,1982 305(B)
L-1	02-May-80	3.3	42	2.1	49.0	20	47.0			OEPA,1982 305(B)
FRIENDSHIP PARK LAKE										
L-1	16-May-90			2.25	48.0	5	27.0	**28.0**	Oligotrophic	OEPA,314 GRANT
L-1	12-Sep-90	0.7	28	6	34.0					OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
GRAFTON WATER SUPPLY LAKE										
L-1	07-Jun-93			0.84	62.0	50	61.0	**57.0**	Eutrophic	OEPA,314 GRANT
L-1	14-Sep-92	16.67	58	0.88	62.0	70	65.0			OEPA,314 GRANT
L-1	13-Aug-92	9.61	53	0.9	62.0	37	56.0			OEPA,314 GRANT
GRAND LAKE ST. MARYS										
S-1	1994			(N=12)	78.0					CLIP/OLMS
S-2	1994			(N=11)	79.0					CLIP/OLMS
S-3	1994			(N=12)	80.0					CLIP/OLMS
S-4	1994			(N=22)	84.0					CLIP/OLMS
S-6	1994			(N=10)	79.0					CLIP/OLMS
S-1	1993			(N=14)	77.0					CLIP/OLMS
S-2	1993			(N=12)	75.0					CLIP/OLMS
S-3	1993			(N=12)	77.0					CLIP/OLMS
S-14	1993			(N=7)	77.0					CLIP/OLMS
S-2	1992			(N=11)	78.0					CLIP/OLMS
S-3	1992			(N=12)	84.0					CLIP/OLMS
S-4	1992			(N=2)	81.0					CLIP/OLMS
S-5	1992			(N=6)	79.0					CLIP/OLMS
S-6	1992			(N=11)	85.0					CLIP/OLMS
S-7	1992			(N=1)	77.0					CLIP/OLMS
S-8	1992			(N=3)	78.0					CLIP/OLMS
S-10	1992			(N=3)	79.0					CLIP/OLMS
S-13	1992			(N=4)	79.0					CLIP/OLMS
S-14	1992			(N=11)	77.0					CLIP/OLMS
S-15	1992			(N=4)	78.0					CLIP/OLMS
S-16	1992			(N=4)	78.0					CLIP/OLMS
L-1	20-May-93			0.4	73.0	37	56.0	**71.0**	L1-Hypereutrophic	OEPA,314 GRANT
L-1	19-Aug-92	119.63	78	0.25	80.0	120	73.0			OEPA,314 GRANT
L-1	11-Sep-92	124.06	78	0.3	77.0	110	72.0			OEPA,314 GRANT
L-2	20-May-93			0.35	75.0	30	53.0	**69.0**	L2-Hypereutrophic	OEPA,314 GRANT
L-2	19-Aug-92	126.15	78	0.25	80.0	240	83.0			OEPA,314 GRANT
L-2	11-Sep-92	119.09	77	0.3	77.0	60	63.0			OEPA,314 GRANT
L-3	20-May-93			0.32	76.0	66	65.0	**73.0**	L3-Hypereutrophic	OEPA,314 GRANT
L-3	19-Aug-92	115.54	77	0.25	80.0	120	73.0			OEPA,314 GRANT
L-3	11-Sep-92	127.81	78	0.3	77.0	150	76.0			OEPA,314 GRANT
L-1	16-May-75			0.43	72.0	150	76.0			OEPA,1982 305(B)
L-1	12-Aug-75			0.33	76.0	130	74.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-1	04-May-73	127.3	78	0.08	96.0	300	86.0			OEPA,1982 305(B)
L-1	01-Aug-73	69.7	72	0.46	71.0	130	74.0			OEPA,1982 305(B)
GRAND RIVER WILDLIFE LAKE (STEEL PD)										
L-1	16-May-95	5.62	47	1.5	54.0	50	60.0	**66.0**	Eutrophic	OEPA,314 GRANT
L-1	31-Jly-95	28.215	63	0.65	66.0	60	63.0			OEPA,314 GRANT
L-1	21-Aug-95	85.885	74	0.59	67.0	80	67.0			OEPA,314 GRANT
GRANT LAKE										
S-1	1994			(N=2)	77.0					CLIP/OLMS
S-2	1994			(N=2)	77.0					CLIP/OLMS
L-1	01-Aug-73	45.2	68	0.45	72.0	130	74.0	**68.0**	Hypereutrophic	OEPA,1982 305(B)
GREENFIELD LAKE (HUNTERS RUN #R-63)										
L-1	09-Jun-93			0.85	62.0	23	49.0	**59.0**	Eutrophic	OEPA,314 GRANT
L-1	12-Aug-92	60.53	71	0.33	76.0	90	69.0			OEPA,314 GRANT
L-1	09-Sep-92	14.84	57	0.8	63.0	57	62.0			OEPA,314 GRANT
GUILFORD LAKE										
L-1	16-May-94			0.57	68.0	70	65.0	**66.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	19-Jly-94	28.12	63.3	0.82	63.0	42	58.0			OEPA,314 GRANT
L-1	30-Aug-94	57.04	70.3	0.68	65.0	60	63.0			OEPA,314 GRANT
S-1	1994			(N=10)	68.0					CLIP/OLMS
S-2	1994			(N=11)	69.0					CLIP/OLMS
S-3	1994			(N=10)	69.0					CLIP/OLMS
S-1	1993			(N=10)	69.0					CLIP/OLMS
S-2	1993			(N=10)	73.0					CLIP/OLMS
S-3	1993			(N=10)	71.0					CLIP/OLMS
S-1	13-May-93	26.5	63	0.61	67.0	64	64.0			KSU-CLIP/OLMS
S-1	26-May-93			0.51	70.0					KSU-CLIP/OLMS
S-1	11-Jun-93	39.5	67	0.43	72.0	78	67.0			KSU-CLIP/OLMS
S-1	24-Jun-93			0.41	73.0					KSU-CLIP/OLMS
S-1	12-Jly-93	26.1	63	0.63	66.0	74	66.0			KSU-CLIP/OLMS
S-1	24-Jly-93			0.61	67.0					KSU-CLIP/OLMS

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
S-1	05-Aug-93	20.4	60	0.58	68.0	64	64.0			KSU-CLIP/OLMS
S-2	13-May-93	30.2	65	0.41	73.0	52	61.0	**64.0**	S2-Eutrophic	KSU-CLIP/OLMS
S-2	26-May-93			0.35	75.0					KSU-CLIP/OLMS
S-2	11-Jun-93			0.43	72.0					KSU-CLIP/OLMS
S-2	24-Jun-93			0.33	76.0					KSU-CLIP/OLMS
S-2	12-Jly-93			0.38	74.0					KSU-CLIP/OLMS
S-2	24-Jly-93			0.41	73.0					KSU-CLIP/OLMS
S-2	05-Aug-93	39.6	67	0.51	70.0	75	66.0			KSU-CLIP/OLMS
S-1	10-Sep-92	32.8	65	0.58	68.0					KSU-CLIP/OLMS
S-1	24-Sep-92	29.9	64	0.56	68.0	90	69.0			KSU-CLIP/OLMS
S-2	24-Sep-92	24.5	62	0.51	70.0					KSU-CLIP/OLMS
S-1	1992			(N=12)	68.0					CLIP/OLMS
S-2	1992			(N=12)	72.0					CLIP/OLMS
S-3	1992			(N-12)	70.0					CLIP/OLMS
S-1	1991			(N=11)	68.0					CLIP/OLMS
S-2	1991			(N=11)	75.0					CLIP/OLMS
S-3	1991			(N=11)	70.0					CLIP/OLMS
L-1	08-Aug-89	60.7	71	0.69	65.0	60	63.0			OEPA,314 GRANT
L-1	17-Mar-89			0.86	62.0	50	61.0			OEPA,314 GRANT
L-1	07-Jun-89	33.7	65	0.68	66.0	52	61.0			FULMER/COOKE
L-1	16-Aug-89	42	67	0.66	66.0	59	63.0			FULMER/COOKE
L-2	07-Jun-89	37.8	66	0.62	67.0	44	59.0			FULMER/COOKE
L-2	16-Aug-89	52.6	69	0.68	66.0	65	64.0			FULMER/COOKE
L-3	07-Jun-89	36	66	0.62	67.0	60	63.0			FULMER/COOKE
L-3	16-Aug-89	47	68	0.73	65.0	82	68.0			FULMER/COOKE
L-4	07-Jun-89	33.6	65	0.72	65.0	46	59.0			FULMER/COOKE
L-4	16-Aug-89	46.3	68	0.89	62.0	51	61.0			FULMER/COOKE
L-1	24-Aug-81	62.9	71	0.73	65.0	50	61.0			OEPA,1982 305(B)
L-1	26-Aug-75			0.91	61.0	50	61.0			OEPA,1982 305(B)
L-1	21-May-75			0.86	62.0	40	57.0			OEPA,1982 305(B)
HAMMERTON LAKE (JACKSON CITY R.)										
L-1	14-Jun-79	3.2	42	4.9	37.0			**40.0**	Mesotrophic	OEPA,1982 305(B)
L-1	06-Aug-79	2.7	40	4.8	37.0	10	37.0			OEPA,1982 305(B)
HARGUS LAKE										
S-1	1993			(N=8)	48.0					CLIP/OLMS

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
S-1	1992			(N=7)	46.0					CLIP/OLMS
S-2	1992			(N=12)	49.0					CLIP/OLMS
S-1	1991			(N=10)	51.0					CLIP/OLMS
L-1	24-Apr-90			1.75	52.0	18	46.0	**44.0**	L1-Mesotrophic	OEPA,314 GRANT
L-1	23-Aug-90	2.9	41	1.2	57.0	110	72.0			OEPA,314 GRANT
L-1	22-Jun-89	9.6	53	1.66	53.0	19	46.0			FULMER/COOKE
L-1	27-Jly-89	3	41	2.2	49.0	12	40.0			FULMER/COOKE
L-2	22-Jun-89	12.5	55	1.24	57.0	37	56.0	**49.0**	L2-Eutrophic	FULMER/COOKE
L-2	27-Jly-89	2.9	41	1.93	51.0	14	42.0			FULMER/COOKE
L-3	22-Jun-89	10	53	1.47	54.0	40	57.0			FULMER/COOKE
L-3	27-Jly-89	3.3	42	1.85	51.0	11	39.0	**49.0**	L3-Eutrophic	FULMER/COOKE
L-1	04-Aug-78	3.6	43	1.8	52.0	10	37.0			OEPA,1982 305(B)
L-1	20-Apr-78	8.6	52	1.1	59.0	50	61.0			OEPA,1982 305(B)
HARRISON LAKE										
S-1	1994			(N=7)	68.0					CLIP/OLMS
S-1	1993			(N=4)	71.0					CLIP/OLMS
S-1	1992			(N=5)	74.0					CLIP/OLMS
S-1	1991			(N=9)	71.0					CLIP/OLMS
L-1	25-Apr-90			0.5	70.0	60	63.0	**64.0**	Eutrophic	OEPA,314 GRANT
L-1	10-Sep-90	30.8	64	0.5	70.0	60	63.0			OEPA,314 GRANT
L-1	19-Aug-81	23.9	62	0.55	69.0	80	67.0			OEPA,1982 305(B)
L-1	22-Aug-75			0.51	70.0	50	61.0			OEPA,1982 305(B)
L-1	30-May-75			0.64	66.0	90	69.0			OEPA,1982 305(B)
HIGHLANDTOWN LAKE										
L-1	15-May-78	7.5	50	1.8	52.0	20	47.0	**57.0**	Eutrophic	OEPA,1982 305(B)
L-1	21-Aug-78	42.5	67	1.8	52.0	10	37.0			OEPA,1982 305(B)
HILLSBORO RESERVOIR										
L-1	26-Jly-95	3.4	43					**43.0**	Mesotrophic	OEPA,SPECIAL
L-1	28-Aug-89	9.5	53	0.81	63.0	17	45.0			OEPA,314 GRANT
L-1	17-May-89			0.91	61.0	10	37.0			OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
HINCKLEY LAKE										
L-1	20-Apr-89			0.51	70.0	18	46.0	**49.0**	Eutrophic	OEPA,314 GRANT
L-1	12-Jul-89	8	51	0.72	65.0	50	61.0			OEPA,314 GRANT
L-1	19-Aug-77	30.8	64	0.3	77.0	180	79.0			OEPA,1982 305(B)
HOOVER RESERVOIR										
S-1	1994			(N=7)	49.0					CLIP/OLMS
S-2	1994			(N=5)	54.0					CLIP/OLMS
S-3	1994			(N=5)	54.0					CLIP/OLMS
?	1991			(N=5)	64.0					CLIP/OLMS
L-1	04-May-89			0.5	70.0	24	50.0	**50.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	25-Aug-89	7.8	51	1.3	56.0	17	45.0			OEPA,314 GRANT
L-2	25-Aug-89	33.9	65	0.65	66.0	56	62.0	**63.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	04-May-89			0.3	77.0	47	60.0			OEPA,314 GRANT
L-1	09-May-75			0.46	71.0	100	71.0			OEPA,1982 305(B)
L-1	29-Aug-75			1.2	57.0	30	53.0			OEPA,1982 305(B)
L-1	01-Aug-73	7.6	50	0.93	61.0	30	53.0			OEPA,1982 305(B)
L-1	26-Apr-73	36.3	66	0.91	61.0	50	61.0			OEPA,1982 305(B)
HOSTERMAN LAKE										
L-1	17-Jul-81	58.1	70	0.7	65.0	80	67.0	**70.0**	Hypereutrophic	OEPA,1982 305(B)
HOWER LAKE										
S-1	1993			(N=1)	49.0				Insuff. Data	NEFCO
S-1	1990			(N=10)	58.0					NEFCO
S-1	1989			(N=7)	50.0					NEFCO
S-1	1988			(N=6)	50.0					NEFCO
S-1	1992			(N=7)	52.0					NEFCO
HUDSON SPRINGS LAKE										
VLMP	11-Jun-90	9.9	53	1.07	59.0	58	60.0	**60.0**	Eutrophic	NEFCO/KSU
VLMP	29-Jun-90	22.5	61	0.84	63.0	46	58.0			NEFCO/KSU
VLMP	18-Jly-90	5.5	47	1.5	54.0	45	58.0			NEFCO/KSU
VLMP	09-Aug-90	30.8	64	1.55	54.0	62	64.0			NEFCO/KSU

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
VLMP	30-Aug-90	28	63	0.99	60.0	33	55.0			NEFCO/KSU
VLMP	20-Sep-90	49.5	69	1.27	57.0	59	63.0			NEFCO/KSU
VLMP	1990			(N=39)	58.0					NEFCO
VLMP	1989			(N=33)	60.0					NEFCO
INDIAN LAKE										
S-1	1994			(N=7)	77.0					CLIP/OLMS
S-2	1994			(N=5)	78.0					CLIP/OLMS
S-3	1994			(N=5)	76.0					CLIP/OLMS
S-4	1994			(N=3)	73.0					CLIP/OLMS
S-5	1994			(N=8)	73.0					CLIP/OLMS
S-6	1994			(N=12)	77.0					CLIP/OLMS
S-9	1994			(N=10)	75.0					CLIP/OLMS
S-10	1994			(N=12)	76.0					CLIP/OLMS
S-11	1994			(N=11)	75.0					CLIP/OLMS
S-12	1994			(N=4)	77.0					CLIP/OLMS
S-13	1994			(N=4)	79.0					CLIP/OLMS
S-14	1994			(N=4)	79.0					CLIP/OLMS
S-22	1994			(N=9)	75.0					CLIP/OLMS
S-23	1994			(N=10)	73.0					CLIP/OLMS
S-24	1994			(N=8)	82.0					CLIP/OLMS
S-1	1993			(N=4)	73.0					CLIP/OLMS
S-2	1993			(N=6)	80.0					CLIP/OLMS
S-3	1993			(N=6)	79.0					CLIP/OLMS
S-4	1993			(N=8)	76.0					CLIP/OLMS
S-5	1993			(N=10)	71.0					CLIP/OLMS
S-6	1993			(N=12)	74.0					CLIP/OLMS
S-7	1993			(N=1)	70.0					CLIP/OLMS
S-9	1993			(N=8)	74.0					CLIP/OLMS
S-10	1993			(N=12)	72.0					CLIP/OLMS
S-11	1993			(N=12)	73.0					CLIP/OLMS
S-12	1993			(N=3)	78.0					CLIP/OLMS
S-13	1993			(N=3)	78.0					CLIP/OLMS
S-14	1993			(N=3)	81.0					CLIP/OLMS
L-1	27-May-93			0.66	66.0	50	61.0	**68.0**	L1-Hypereutrophic	OEPA,314 GRANT
L-1	02-Aug-92	89.39	75	0.23	81.0	80	67.0			OEPA,314 GRANT
L-1	24-Aug-92	43.83	68	0.25	80.0	110	72.0			OEPA,314 GRANT
L-3	27-May-93			1.5	54.0	60	63.0	**68.0**	L3-Hypereutrophic	OEPA,314 GRANT
L-3	02-Aug-92	65.53	72	0.23	81.0	70	65.0			OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-3	24-Aug-92	64.74	70	0.25	80.0	80	67.0			OEPA,314 GRANT
S-2	1992			(N=8)	79.0					CLIP/OLMS
S-3	1992			(N=8)	74.0					CLIP/OLMS
S-4	1992			(N=7)	75.0					CLIP/OLMS
S-5	1992			(N=11)	76.0					CLIP/OLMS
S-6	1992			(N=12)	77.0					CLIP/OLMS
S-9	1992			(N=9)	74.0					CLIP/OLMS
S-10	1992			(N=5)	76.0					CLIP/OLMS
S-11	1992			(N=12)	75.0					CLIP/OLMS
S-12	1992			(N=7)	78.0					CLIP/OLMS
S-18	1992			(N=4)	74.0					CLIP/OLMS
S-20	1992			(N=7)	78.0					CLIP/OLMS
S-21	1992			(N=7)	79.0					CLIP/OLMS
S-22	1992			(N=10)	75.0					CLIP/OLMS
S-2	1991			(N=5)	80.0					CLIP/OLMS
S-3	1991			(N=5)	76.0					CLIP/OLMS
S-4	1991			(N=5)	78.0					CLIP/OLMS
S-5	1991			(N=10)	75.0					CLIP/OLMS
S-6	1991			(N=12)	81.0					CLIP/OLMS
S-7	1991			(N=3)	77.0					CLIP/OLMS
S-8	1991			(N=7)	76.0					CLIP/OLMS
S-9	1991			(N=7)	76.0					CLIP/OLMS
S-10	1991			(N=11)	77.0					CLIP/OLMS
S-11	1991			(N=12)	78.0					CLIP/OLMS
S-12	1991			(N=5)	79.0					CLIP/OLMS
S-13	1991			(N=1)	77.0					CLIP/OLMS
S-14	1991			(N=10)	78.0					CLIP/OLMS
S-15	1991			(N=5)	77.0					CLIP/OLMS
S-20	1991			(N=5)	79.0					CLIP/OLMS
S-21	1991			(N=5)	80.0					CLIP/OLMS
L-1	27-Sep-89					70	65.0			OEPA, PHASE I
L-1	24-Aug-89	74.3	73	0.25	80.0	50	61.0			OEPA, PHASE I
L-1	10-Jul-89					90	69.0			OEPA, PHASE I
L-1	21-Jun-89			0.36	75.0	70	65.0			OEPA, PHASE I
L-1	07-Jun-89			0.32	77.0					OEPA, PHASE I
L-1	24-May-89			0.23	81.0	76	67.0			OEPA, PHASE I
L-1	20-Apr-89			0.25	80.0					OEPA, PHASE I
L-1	22-Nov-88			0.34	76.0					OEPA, PHASE I
L-1	09-Nov-88			0.43	72.0					OEPA, PHASE I
L-1	27-Oct-88			0.34	76.0					OEPA, PHASE I

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-1	13-Oct-88			0.31	77.0	70	65.0			OEPA, PHASE I
L-1	29-Sep-88			0.15	87.0	80	67.0			OEPA, PHASE I
L-1	13-Sep-88			0.24	80.0					OEPA, PHASE I
L-1	30-Aug-88			0.21	82.0	100	71.0			OEPA, PHASE I
L-1	18-Aug-88			0.15	87.0	130	74.0			OEPA, PHASE I
L-1	02-Aug-88			0.15	87.0	120	73.0			OEPA, PHASE I
L-1	21-Jul-88	107.4	76	0.24	80.0	170	78.0			OEPA, PHASE I
L-1	06-Jul-88			0.31	77.0	110	72.0			OEPA, PHASE I
L-2	27-Sep-89					97	70.0			OEPA, PHASE I
L-2	24-Aug-89	77.3	73	0.31	77.0	90	69.0			OEPA, PHASE I
L-2	10-Jul-89					43	58.0			OEPA, PHASE I
L-2	21-Jun-89			0.48	70.0	66	65.0			OEPA, PHASE I
L-2	07-Jun-89			0.32	77.0	59	63.0			OEPA, PHASE I
L-2	24-May-89			0.28	78.0	58	63.0			OEPA, PHASE I
L-2	20-Apr-89			0.25	80.0					OEPA, PHASE I
L-2	22-Nov-88			0.46	71.0	70	65.0			OEPA, PHASE I
L-2	09-Nov-88			0.46	71.0					OEPA, PHASE I
L-2	29-Sep-88			0.24	80.0					OEPA, PHASE I
L-2	27-Oct-88			0.31	77.0					OEPA, PHASE I
L-2	13-Oct-88			0.34	76.0	50	61.0			OEPA, PHASE I
L-2	13-Sep-88			0.24	80.0					OEPA, PHASE I
L-2	30-Aug-88			0.21	82.0	80	67.0			OEPA, PHASE I
L-2	18-Aug-88					120	73.0			OEPA, PHASE I
L-2	02-Aug-88			0.24	80.0	50	61.0			OEPA, PHASE I
L-2	21-Jul-88	72.1	73	0.24	80.0	70	65.0			OEPA, PHASE I
L-2	06-Jul-88			0.37	74.0	60	63.0			OEPA, PHASE I
L-3	27-Sep-89					50	61.0			OEPA, PHASE I
L-3	24-Aug-89	79.2	73	0.36	75.0	80	67.0			OEPA, PHASE I
L-3	10-Jul-89					70	65.0			OEPA, PHASE I
L-3	21-Jun-89			0.46	71.0	35	55.0			OEPA, PHASE I
L-3	07-Jun-89			0.32	77.0					OEPA, PHASE I
L-3	24-May-89			0.28	78.0	52	61.0			OEPA, PHASE I
L-3	20-Apr-89			0.25	80.0	59	63.0			OEPA, PHASE I
L-3	22-Nov-88			0.43	72.0					OEPA, PHASE I
L-3	09-Nov-88			0.43	72.0	170	78.0			OEPA, PHASE I
L-3	27-Oct-88			0.31	77.0					OEPA, PHASE I
L-3	29-Sep-88			0.24	80.0					OEPA, PHASE I
L-3	13-Sep-88			0.24	80.0	200	81.0			OEPA, PHASE I
L-3	30-Aug-88			0.21	82.0	90	69.0			OEPA, PHASE I
L-3	18-Aug-88					60	63.0			OEPA, PHASE I

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-3	02-Aug-88			0.27	79.0					OEPA, PHASE I
L-3	21-Jul-88	73	73	0.24	80.0	90	69.0			OEPA, PHASE I
L-3	06-Jul-88			0.31	77.0	120	73.0			OEPA, PHASE I
L-4	18-Aug-77	92.5	75	0.46	71.0	100	71.0			OEPA,1982 305(B)
L-4	21-Apr-77	71.6	72	0.55	69.0	120	73.0			OEPA,1982 305(B)
L-4	02-Aug-73	114.2	77	0.43	72.0	150	76.0			OEPA,1982 305(B)
L-4	04-May-73	59.4	71	0.22	82.0	50	61.0			OEPA,1982 305(B)
J.GRIGGS RESERVOIR										
S-0	1994			(N=1)	64.0					CLIP/OLMS
S-1	1994			(N=3)	69.0					CLIP/OLMS
S-0	1993			(N=2)	63.0					CLIP/OLMS
S-1	1993			(N=12)	76.0					CLIP/OLMS
S-0	1992			(N=2)	84.0					CLIP/OLMS
S-1	1992			(N=4)	65.0					CLIP/OLMS
S-2	1992			(N=5)	80.0					CLIP/OLMS
S-3	1992			(N=2)	68.0					CLIP/OLMS
S-4	1992			(N=2)	63.0					CLIP/OLMS
S-5	1992			(N=2)	69.0					CLIP/OLMS
S-1	1991			(N=4)	66.0					CLIP/OLMS
J. GRIGGS RESERVOIR										
L-1	26-Apr-90			0.4	73.0	100	71.0	**65.0**	Eutrophic	OEPA,314 GRANT
L-1	24-Aug-90	9.1	52	0.5	69.0	90	69.0			OEPA,314 GRANT
L-1	29-Aug-89	61.7	71							OEPA,314 GRANT
L-1	24-May-79			0.91	61.0					OEPA,1982 305(B)
L-1	06-Aug-79			0.66	66.0					OEPA,1982 305(B)
JACKSON LAKE										
S-1	1993			(N=8)	55.0					CLIP/OLMS
S-2	1993			(N=8)	60.0					CLIP/OLMS
L-1	20-Jun-89	18.6	59	1.49	54.0	18	46.0	**47.0**	L1-Mesotrophic	FULMER/COOKE
L-1	25-Jly-89	5.9	48	1.65	53.0	11	39.0			FULMER/COOKE
L-2	20-Jun-89	11.1	54	1.23	57.0	34	55.0	**52.0**	L2-Eutrophic	FULMER/COOKE
L-2	25-Jly-89	6.4	49	1.53	54.0	20	47.0			FULMER/COOKE
L-1	18-Aug-78	10.2	53	1.1	59.0	30	53.0			OEPA,1982 305(B)
L-1	01-May-78	15.8	58	1.5	54.0	20	47.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
JEFFERSON LAKE										
S-0	1994			(N=1)	39.0					CLIP/OLMS
S-0	1993			(N=1)	42.0					CLIP/OLMS
S-1	1993			(N=6)	47.0					CLIP/OLMS
S-1	1992			(N=11)	51.0					CLIP/OLMS
S-1	1991			(N=12)	48.0					CLIP/OLMS
L-1	16-May-90			1.15	58.0	10	37.0	**46.0**	Mesotrophic	OEPA,314 GRANT
L-1	12-Sep-90	10.6	54	1.5	54.0	360	89.0			OEPA,314 GRANT
L-1	09-May-80	3.4	43	1.7	52.0	10	37.0			OEPA,1982 305(B)
L-1	08-Aug-80	10.6	54	1.5	54.0	30	53.0			OEPA,1982 305(B)
JISCO LAKE										
L-1	26-Apr-90			3.25	43.0	6	30.0	**32.0**	Oligotrophic	OEPA,314 GRANT
L-1	23-Aug-90	1.3	33	3.25	43.0	6	30.0			OEPA,314 GRANT
KILLDEER RESERVOIR										
L-1	14-May-90			1.5	54.0	8	34.0	**31.0**	Oligotrophic	OEPA,314 GRANT
L-1	13-Sep-90	0.8	28	3	44.0					OEPA,314 GRANT
L-1	05-May-77			5.8	35.0	10	37.0			OEPA,1982 305(B)
L-1	04-Aug-77	5.4	47	1.9	51.0	10	37.0			OEPA,1982 305(B)
KISER LAKE										
L-1	20-Apr-89			0.31	77.0	36	56.0	**69.0**	L1-Hypereutrophic	OEPA,314 GRANT
L-1	17-Aug-89	79.1	73	0.33	76.0	60	63.0			OEPA,314 GRANT
L-1	14-Jun-89	20.6	60	0.56	68.0	106	71.0			FULMER/COOKE
L-1	08-Aug-89	109.4	77	0.51	70.0	128	74.0			FULMER/COOKE
L-2	14-Jun-89	26.6	63	0.57	68.0	107	72.0	**75.0**	L2-Hypereutrophic	FULMER/COOKE
L-2	08-Aug-89	122.4	78	0.39	74.0	157	77.0			FULMER/COOKE
L-1	22-Apr-77	39	67	0.64	66.0	70	65.0			OEPA,1982 305(B)
L-1	19-Aug-77	149	80	0.37	74.0	120	73.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
KNOX LAKE										
S-1	1991			(N=11)	61.0					CLIP/OLMS
S-2	1991			(N=7)	67.0					CLIP/OLMS
S-1	1992			(N=3)	63.0					CLIP/OLMS
L-1	21-Aug-89	54.1	70	0.6	67.0	90	69.0	**61.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	11-May-89			0.62	67.0	29	53.0			OEPA,314 GRANT
L-2	11-May-89			0.4	73.0	47	60.0	**68.0**	L2-Hypereutrophic	OEPA,314 GRANT
L-2	21-Aug-89	99.2	76	0.37	74.0	120	73.0			OEPA,314 GRANT
L-1	30-Aug-77	35.3	66	0.61	67.0	80	67.0			OEPA,1982 305(B)
L-1	03-May-77			0.88	62.0	30	53.0			OEPA,1982 305(B)
LAKE ALMA										
L-1	18-Aug-80	6.2	48	2	50.0	20	47.0	**42.0**	Mesotrophic	OEPA,1982 305(B)
L-1	01-May-80	9.6	53	4.4	39.0	10	37.0			OEPA,1982 305(B)
LAKE AQUILLA										
L-1	27-Apr-89			2.81	45.0	16	44.0	**53.0**	Eutrophic	OEPA,314 GRANT
L-1	23-Aug-89	27.7	63	2.08	49.0	25	51.0			OEPA,314 GRANT
L-1	23-Aug-77			0.1	93.0					OEPA,1982 305(B)
LAKE HODGSON										
S-1	1994			(N=5)	53.0					NEFCO
S-2	1994			(N=5)	52.0					NEFCO
S-1	1993			(N=6)	52.0					NEFCO
S-2	1993			(N=2)	52.0					NEFCO
S-1	1992			(N=7)	54.0					NEFCO
S-1	09-Jun-90	24.8	62	1.02	60.0	68	62.0	**63.0**	Eutrophic	NEFCO/KSU
S-1	28-Jun-90	29.2	64	0.76	64.0	40	56.0			NEFCO/KSU
S-1	19-Jly-90	29.2	64	0.94	61.0	58	62.0			NEFCO/KSU
S-1	09-Aug-90	33	65	1.09	59.0	50	61.0			NEFCO/KSU
S-1	30-Aug-90	20.3	60	1.32	56.0	45	59.0			NEFCO/KSU
S-1	21-Sep-90	20.3	60	1.37	55.0	44	59.0			NEFCO/KSU
S-1	1990			(N=27)	58.0					NEFCO
S-1	1989			(N=12)	59.0					NEFCO
S-1	1988			(N=8)	61.0					NEFCO
L-1	12-Aug-77	5.8	48.00	1.9	51.0	120.00	73.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
LAKE HOPE										
L-1	25-Apr-90			1.8	52.0	9	36.0	**43.0**	L1-Mesotrophic	OEPA,314 GRANT
L-1	22-Aug-90	6.6	49	2.6	46.0	12	40.0			OEPA,314 GRANT
L-1	21-Jun-89	8	51	0.87	62.0	21	48.0			FULMER/COOKE
L-1	26-Jly-89	1.9	37	1.65	53.0	5	27.0			FULMER/COOKE
L-2	21-Jun-89	8.4	51	0.81	63.0	25	50.0	**46.0**	L2-Mesotrophic	FULMER/COOKE
L-2	26-Jly-89	3.8	43	1.73	52.0	5	27.0			FULMER/COOKE
L-1	27-Apr-78	2.3	39	2.7	46.0					OEPA,1982 305(B)
L-1	01-Aug-78	30.1	64	0.76	64.0	10	37.0			OEPA,1982 305(B)
L-1	03-Sep-75			2.9	45.0	30	53.0			OEPA,1982 305(B)
L-1	14-May-75			1	60.0	10	37.0			OEPA,1982 305(B)
LAKE ISABELLA										
L-1	08-Jul-81	3.3	42	4.8	37.0	30	53.0	**42.0**	Mesotrophic	OEPA,1982 305(B)
LAKE KATHARINE										
L-1	26-Jly-95	10.4	54					**54.0**	Eutrophic	OEPA,SPECIAL
L-1	22-Mar-79	6.1	48	1.2	57.0					OEPA,1982 305(B)
LAKE LA SU AN										
L-1	25-Apr-90					22	49.0	**51.0**	Eutrophic	OEPA,314 GRANT
L-1	10-Sep-90	9.4	53	1	60.0	70	65.0			OEPA,314 GRANT
LAKE LOGAN (HOCKING LAKE)										
S-1	1994			(N=2)	72.0					CLIP/OLMS
S-2	1994			(N=2)	72.0					CLIP/OLMS
S-3	1994			(N=2)	73.0					CLIP/OLMS
S-1	1991			(N=4)	96.0					CLIP/OLMS
S-2	1991			(N=4)	96.0					CLIP/OLMS
L-1	24-Apr-90			0.75	64.0	29	53.0	**56.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	20-Aug-90	32.5	65	0.7	65.0	60	63.0			OEPA,314 GRANT
L-2	24-Apr-90			0.7	65.0	19	47.0			OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-2	20-Aug-90	25.1	62	0.55	69.0	34	55.0	**55.0**	L2-Eutrophic	OEPA,314 GRANT
L-1	21-Jun-89	31.6	64	0.67	66.0	20	47.0			FULMER/COOKE
L-1	26-Jly-89	20.1	60	0.77	64.0	21	48.0			FULMER/COOKE
L-2	21-Jun-89	33.7	65	0.64	66.0	28	52.0			FULMER/COOKE
L-2	26-Jly-89	20.8	60	0.76	64.0	25	51.0			FULMER/COOKE
L-3	21-Jun-89	40.5	67	0.58	68.0	32	54.0	**58.0**	L3-Eutrophic	FULMER/COOKE
L-3	26-Jly-89	25.6	62	0.62	67.0	37	56.0			FULMER/COOKE
L-1	15-Apr-76			1.1	59.0	40	57.0			OEPA,1982 305(B)
L-1	14-Sep-76			0.61	67.0	110	72.0			OEPA,1982 305(B)
LAKE LORAMIE										
S-0	1994			(N=1)	81.0					
S-8	1994			(N=7)	83.0					
S-9	1994			(N=1)	80.0					
S-1	1993			(N=16)	84.0					
S-2	1993			(N=2)	85.0					
S-3	1993			(N=5)	91.0					
S-4	1993			(N=7)	81.0					
S-5	1993			(N=5)	79.0					
S-6	1993			(N=3)	83.0					
S-7	1993			(N=10)	81.0					
S-8	1993			(N=8)	84.0					
S-9	1993			(N=4)	93.0					
S-11	1993			(N=7)	83.0					
S-1	1992			(N=9)	76.0					CLIP/OLMS
S-2	1992			(N=12)	83.0					CLIP/OLMS
S-0	1991			(N=12)	79.0					CLIP/OLMS
S-1	1991			(N=11)	80.0					
L-1	25-Apr-89			0.38	74.0	44	59.0	**71.0**	L1-Hypereutrophic	OEPA,314 GRANT
L-1	29-Aug-89			0.28	78.0	190	80.0			OEPA,314 GRANT
L-1	10-Jly-89	96.2	75	0.3	77.0	200	81.0			FULMER/COOKE
L-1	08-Aug-89	146.7	80	0.24	81.0	166	78.0			FULMER/COOKE
L-2	10-Jly-89	95.5	75	0.31	77.0	231	83.0	**76.0**	L2-Hypereutrophic	FULMER/COOKE
L-2	08-Aug-89	131.1	78	0.3	77.0	189	80.0			FULMER/COOKE
L-1	29-Jul-81	71.2	72	0.27	79.0	170	78.0			OEPA,1982 305(B)
L-1	13-Aug-75			0.2	83.0	230	83.0			OEPA,1982 305(B)
L-1	17-May-75			0.28	78.0	240	83.0			OEPA,1982 305(B)
L-1	04-May-73	50.6	69	0.15	87.0	180	79.0			OEPA,1982 305(B)
L-1	01-Aug-73	104.2	76	0.15	87.0	210	81.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
LAKE LORETTA										
L-1	16-May-95	10.005	53	1	60.0	<10		**48.0**	Mesotrophic	OEPA,314 GRANT
L-1	15-Sep-95	16.465	58	1	60.0					OEPA,314 GRANT
L-1	24-Oct-95			1.25	57.0	60	63.0			OEPA,314 GRANT
LAKE LaCOMTE										
L-1	15-May-90			1.5	54.0	18	46.0	**45.0**	Mesotrophic	OEPA,314 GRANT
L-1	23-Aug-90	3.4	43	0.75	64.0	13	41.0			OEPA,314 GRANT
LAKE MILTON										
L-1	25-Jul-89			1	60.0	35	55.0	**59.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	04-May-89			1.27	57.0	27	52.0			OEPA,314 GRANT
L-1	10-Aug-89	41.9	67	0.94	61.0	35	55.0			OEPA,314 GRANT
L-2	04-May-89			1.13	58.0	28	52.0	**52.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	25-Jul-89			0.98	60.0	60	63.0			OEPA,314 GRANT
L-1	16-Aug-79	15.4	57	1.1	59.0	20	47.0			OEPA,1982 305(B)
L-1	21-Jun-79	9.3	52	1.6	53.0	20	47.0			OEPA,1982 305(B)
LAKE NESMITH										
S-1	1993			(N=1)	67.0					NEFCO
S-1	1992			(N=10)	68.0					NEFCO
S-1	1990			(N=12)	69.0					NEFCO
L-1	30-Jul-86			0.75	64.0	170	78.0			OEPA, UNPUBL
L-1	14-Aug-86			0.7	65.0	140	75.0			OEPA, UNPUBL
L-1	04-Nov-86			0.65	66.0	240	83.0			OEPA, UNPUBL
L-1	26-Sep-79	83	74	0.82	63.0	20	47.0	**68.0**	Hypereutrophic	OEPA,1982 305(B)
L-1	11-Apr-79	63.9	71	0.82	63.0	60	63.0			OEPA,1982 305(B)
LAKE PARK										
L-1	15-Jul-81	26	63	0.34	76.0	160	77.0	**63.0**	Eutrophic	OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
LAKE PIPPEN										
L-1	18-May-89			3.71	41.0	14	42.0	**44.0**	Mesotrophic	OEPA,314 GRANT
L-1	09-Aug-89	5	46	3.54	42.0	13	41.0			OEPA,314 GRANT
LAKE ROCKWELL										
L-1	Sum-1984	26.9	63	1.2	57.0			**63.0**	Eutrophic	KSU, CITY
L-1	Sum-1983	21	60	1.7	52.0					KSU, CITY
L-1	Sum-1981	18.1	59	1.3	56.0					KSU, CITY
L-1	11-May-76			1.2	57.0	50	61.0			OEPA,1982 305(B)
L-1	20-Aug-76			1	60.0	60	63.0			OEPA,1982 305(B)
LAKE ROMONA										
L-1	16-May-95	7.11	50	0.7	65.0	18	46.0	**54.0**	Eutrophic	OEPA,314 GRANT
L-1	15-Sep-95	22.995	61	1	60.0	<50				OEPA,314 GRANT
L-1	25-Oct-95			1.5	54.0	80	67.0			OEPA,314 GRANT
LAKE RUPERT										
L-1	10-May-95	3.18	42	1.34	56.0	16	44.0	**54.0**	Eutrophic	OEPA,314 GRANT
L-1	22-Aug-95	19.75	60	0.85	62.0	60	63.0			OEPA,314 GRANT
L-1	12-Sep-95	16.05	58			90	69.0			OEPA,314 GRANT
L-1	15-Jun-79	3.5	43	2.1	49.0	10	37.0			OEPA,1982 305(B)
L-1	04-Sep-79	7.3	50	1.6	53.0	10	37.0			OEPA,1982 305(B)
L-1	24-May-93			1.15	58.0	8	34.0			OEPA,314 GRANT
L-1	04-Aug-92			1.09	59.0					OEPA,314 GRANT
L-1	26-Aug-92	4.25	45	1.73	52.0	60	63.0			OEPA,314 GRANT
LAKE SNOWDEN (Structure #2)										
L-1	08-May-95	6.05	48	1.65	53.0	21	48.0	**50.0**	Eutrophic	OEPA,314 GRANT
L-1	21-Aug-95	6.64	49.2	1.94	50.0	50	60.0			OEPA,314 GRANT
L-1	11-Sep-95	10.44	54	1.5	54.0	70	65.0			OEPA,314 GRANT
S-3	1994			(N=12)	55.0					CLIP/OLMS
S-1	1993			(N=3)	53.0					CLIP/OLMS
S-3	1993			(N=9)	56.0					CLIP/OLMS
S-1	1992			(N=1)	49.0					CLIP/OLMS

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
S-3	1992			(N=12)	54.0					CLIP/OLMS
S-1	1991			(N=9)	52.0					CLIP/OLMS
S-2	1991			(N=11)	53.0					CLIP/OLMS
S-3	1991			(N=12)	54.0					CLIP/OLMS
L-1	05-Sep-79	17	58	1.8	52.0	20	47.0			OEPA,1982 305(B)
L-1	08-Jun-79			3.2	43.0	10	37.0			OEPA,1982 305(B)
LAKE VESUVIUS										
L-1	26-Jly-95	13.1	56					**56.0**	Eutrophic	OEPA,SPECIAL
L-1	13-May-75			0.81	63.0	20	47.0			OEPA,1982 305(B)
L-1	02-Sep-75			2.8	45.0	20	47.0			OEPA,1982 305(B)
LAKE WHITE RESERVOIR										
S-1	1994			(N=6)	56.0					CLIP/OLMS
S-2	1994			(N=6)	62.0					CLIP/OLMS
S-3	1994			(N=6)	69.0					CLIP/OLMS
S-1	1991			(N=6)	55.0					CLIP/OLMS
L-1	24-May-93			1.1	59.0	8	34.0	**49.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	04-Aug-92	22.51	61	0.35	75.0	70	65.0			OEPA,314 GRANT
L-1	26-Aug-92	9.42	53	0.77	64.0	19	47.0			OEPA,314 GRANT
L-1	20-Jun-89	1.7	36			10	37.0			FULMER/COOKE
L-1	25-Jly-89	2.8	41	2.24	48.0	10	37.0			FULMER/COOKE
L-2	20-Jun-89	3.2	42	1.05	59.0	14	42.0	**45.0**	L2-Mesotrophic	FULMER/COOKE
L-2	25-Jly-89	6	48	0.87	62.0	14	42.0			FULMER/COOKE
L-3	20-Jun-89	5.5	47			15	43.0			FULMER/COOKE
L-3	25-Jly-89	9.8	53	0.5	70.0	24	50.0	**48.0**	L3-Eutrophic	FULMER/COOKE
L-1	20-Aug-79	10.3	53	1.6	53.0	10	37.0			OEPA,1982 305(B)
L-1	31-May-79	3.9	44	1.3	56.0	10	37.0			OEPA,1982 305(B)
LAMPSON RESV (JEFFERSON RESV)										
L-1	22-May-95	3.37	42	0.99	60.0	180	79.0	**72.0**	Hypereutrophic	OEPA,314 GRANT
L-1	01-Aug-95	31.14	64	0.64	66.0	LA				OEPA,314 GRANT
L-1	24-Aug-95	82.12	74	0.41	73.0	50	60.0			OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
LEESVILLE LAKE										
S-1	1994			(N=9)	52.0					CLIP/OLMS
S-1	1993			(N=13)	52.0					CLIP/OLMS
L-1	31-Aug-76			1.6	53.0	40	57.0	**53.0**	Eutrophic	OEPA,1982 305(B)
L-1	18-May-76			1.4	55.0	30	53.0			OEPA,1982 305(B)
LONG LAKE										
S-1	1994			(N=6)	61.0					NEFCO
S-2	1994			(N=6)	61.0					NEFCO
S-3	1994			(N=6)	61.0					NEFCO
S-1	1993			(N=7)	65.0					NEFCO
L-1	02-Jun-93			0.87	62.0	42	58.0	**65.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	26-Aug-93	39.95	67	0.85	62.0	60	63.0			OEPA,314 GRANT
L-1	8-Sep-93	58.225	70	0.79	63.0	60	63.0			OEPA,314 GRANT
L-2	02-Jun-93			0.92	61.0	46	59.0	**65.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	26-Aug-93	47.2	68	0.77	64.0	60	63.0			OEPA,314 GRANT
L-2	8-Sep-93	49.53	69	0.69	65.0	80	67.0			OEPA,314 GRANT
S-1	1992			(N=12)	64.0					NEFCO
S-1	10-Jun-90	45.1	68	0.58	68.0	100	69.0			NEFCO/KSU
S-1	30-Jun-90	20.9	60	0.94	61.0	57	62.0			NEFCO/KSU
S-1	22-Jly-90	47.9	69	0.61	67.0	89	69.0			NEFCO/KSU
S-1	12-Aug-90	48.9	69	0.58	68.0	74	66.0			NEFCO/KSU
S-1	03-Sep-90	11	54	0.66	66.0	97	70.0			NEFCO/KSU
S-1	23-Sep-90	16	58	0.58	68.0	89	69.0			NEFCO/KSU
S-1	1990			(N=27)	72.0					NEFCO
S-1	1989			(N=11)	63.0					NEFCO
S-1	1988			(N=5)	69.0					NEFCO
L-1	19-Apr-77	77.3	73	0.85	62.0	70	65.0			OEPA,1982 305(B)
L-1	09-Aug-77	62.7	71	0.73	65.0	60	63.0			OEPA,1982 305(B)
LOWER SHAKER LAKE										
L-1	17-Aug-77	21.6	61	0.6	67.0	170	78.0	**61.0**	Eutrophic	OEPA,1982 305(B)
LaDUE RESERVOIR										
L-1	07-Aug-78	11.1	54	1.8	52.0	20	47.0	**57.0**	Eutrophic	OEPA,1982 305(B)
L-1	11-May-78	7.6	50	1.7	52.0	50	61.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
MADISON LAKE										
L-1	07-Jun-93			0.5	70.0	59	63.0	**68.0**	L1-Hypereutrophic	OEPA,314 GRANT
L-1	13-Aug-92	73.39	73	0.35	75.0	69	65.0			OEPA,314 GRANT
L-1	10-Sep-92	44.03	68	0.2	83.0	80	67.0			OEPA,314 GRANT
S-1	1991			(N=5)	84.0					CLIP/OLMS
L-1	14-Jun-89	46.3	68	0.39	74.0	109	72.0			FULMER/COOKE
L-1	08-Aug-89	28.6	63	0.49	70.0	66	65.0			FULMER/COOKE
L-2	14-Jun-89	38.7	66	0.37	74.0	97	70.0			FULMER/COOKE
L-2	08-Aug-89	34.6	65	0.49	70.0	78	67.0			FULMER/COOKE
L-3	14-Jun-89	8.3	51	0.23	81.0	194	80.0			FULMER/COOKE
L-3	08-Aug-89	32.8	65	0.28	78.0	114	72.0			FULMER/COOKE
L-1	05-Jun-79	47.3	68	0.31	75.0	90	69.0			OEPA,1982 305(B)
L-1	07-Aug-79	26.3	63	0.51	70.0	80	67.0			OEPA,1982 305(B)
MAYSVILLE REG. WATER DIST. LAKE										
L-1	28-Apr-94			4.09	40.0	<50		**42.0**	Mesotrophic	OEPA,314 GRANT
L-1	09-Aug-94	4.27	45	2.42	48.0	<50				OEPA,314 GRANT
L-1	30-Aug-94	2.37	39	4.97	37.0	29	53.0			OEPA,314 GRANT
MEADOWBROOK LAKE										
S-1	1992			(N=7)	71.0					NEFCO
S-2	1992			(N=7)	70.0					NEFCO
S-3	1992			(N=7)	70.0					NEFCO
S-1	11-Jun-90	10.4	54	0.36	75.0	106	70.0	**60.0**	Eutrophic	NEFCO/KSU
S-1	29-Jun-90	11	54	0.64	67.0	59	62.0			NEFCO/KSU
S-1	07-Jly-90	7.7	51	0.84	63.0	71	65.0			NEFCO/KSU
S-1	09-Aug-90	6.1	48	0.3	77.0	79	67.0			NEFCO/KSU
S-1	30-Aug-90	20.9	60	0.79	63.0	40	57.0			NEFCO/KSU
S-1	20-Sep-90	51.7	69	0.36	75.0	73	66.0			NEFCO/KSU
S-1	1990			(N=34)	76.0					NEFCO
S-1	1989			(N=4)	66.0					NEFCO
L-1	29-Aug-80	58.9	71	1.2	57.0	130	74.0			OEPA,1982 305(B)
L-1	02-Jun-80	25	62	1.2	57.0	110	72.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
MEANDER CREEK RESERVOIR										
L-1	25-May-94			1.14	59.0	18	46.0	**52.0**	Eutrophic-L1	OEPA,314 GRANT
L-1	20-Jly-94	21.87	61	1.29	56.0	25	51.0			OEPA,314 GRANT
L-1	23-Aug-94	6.72	49	1.23	57.0	15	43.0			OEPA,314 GRANT
L-2	23-Aug-94	19.26	60	0.78	64.0	27	52.0	**60.0**	Eutrophic-L2	OEPA,314 GRANT
L-1	17-Aug-79	9.7	53	1.7	52.0	10	37.0			OEPA,1982 305(B)
L-1	22-Jun-79	3.9	44	2.1	49.0	10	37.0			OEPA,1982 305(B)
METAMORA RESERVOIR #1										
L-1	17-May-93			2.1	49.0	10	37.0	**48.0**	Eutrophic	OEPA,314 GRANT
L-1	18-Aug-92	9.39	53	1.22	57.0	9	36.0			OEPA,314 GRANT
L-1	18-Aug-92	9.59	53	1.1	59.0					OEPA,314 GRANT
METZGER RESERVOIR										
L-1	24-Apr-90			2	50.0	36	56.0	**55.0**	Eutrophic	OEPA,314 GRANT
L-1	22-Aug-90	9.8	53	3.5	42.0	80	67.0			OEPA,314 GRANT
MIAMI CONS. DIST. LAKE (HUFFMAN)										
L-1	25-May-94			0.3	77.0	150	76.0	**73.0**	Hypereutrophic	OEPA,314 GRANT
L-1	09-Aug-94	55.83	70	0.46	71.0	80	67.0			OEPA,314 GRANT
L-1	13-Sep-94			0.3	77.0	80	67.0			OEPA,314 GRANT
MIAMI WHITEWATER LAKE										
L-1	07-Jul-81	21.5	61	0.73	65.0	70	65.0	**61.0**	Eutrophic	OEPA,1982 305(B)
MICHAEL J. KIRWIN RESERVOIR										
L-1	17-May-94			0.8	63.0	170	78.0	**61.0**	Eutrophic	OEPA,314 GRANT
L-1	18-Jly-94	14.78	57	0.68	65.0	12	40.0			OEPA,314 GRANT
L-1	24-Aug-94	5.2	47	1.79	52.0	10	37.0			OEPA,314 GRANT
S-1	1993			(N=8)	59.0					NEFCO
S-2	1993			(N=8)	54.0					NEFCO
S-1	1992			(N=12)	57.0					NEFCO
S-2	1992			(N=12)	63.0					NEFCO

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
S-1	1989			(N=1)	63.0					NEFCO
L-1	29-Aug-77	6.4	49	1.4	55.0	10	37.0			OEPA,1982 305(B)
L-1	18-Apr-77	4.6	46	1.1	59.0	10	37.0			OEPA,1982 305(B)
MILLER ANTRIM LAKE										
L-1	11-Jun-93			4	40.0	7	32.0	**37.0**	Oligotrophic	OEPA,314 GRANT
L-1	12-Aug-92	2.29	39	5.5	35.0					OEPA,314 GRANT
L-1	10-Sep-92	2.58	40	3.6	42.0	12	40.0			OEPA,314 GRANT
MILLER ANTRIM LAKE										
L-1	1987		54		43.0					OEPA, UNPUBL
MOGADORE RESERVOIR										
S-1	1995			(N=10)	58.0					NEFCO
S-1	1994			(N=3)	61.0					NEFCO
S-1	1993			(N=5)	55.0					NEFCO
S-2	1993			(N=5)	56.0					NEFCO
S-1	1992			(N=6)	55.0					NEFCO
S-1	1992			(N=6)	56.0					NEFCO
S-1	10-Jun-90	20.3	60	1.83	51.0	75	64.0	**72.0**	Hypereutrophic	NEFCO/KSU
S-1	01-Jly-90	19.8	60	0.53	69.0	54	61.0			NEFCO/KSU
S-1	22-Jly-90	212.3	83	0.41	73.0	184	80.0			NEFCO/KSU
S-1	13-Aug-90	106.2	76	0.36	75.0	134	75.0			NEFCO/KSU
S-1	03-Sep-90	62.7	71	0.46	71.0	105	71.0			NEFCO/KSU
S-1	20-Sep-90	104.5	76	0.97	61.0	133	75.0			NEFCO/KSU
S-1	1990			(N=16)	59.0					NEFCO
S-1	1989			(N=22)	56.0					NEFCO
L-1	23-Aug-76			1.6	53.0	30	53.0			OEPA,1982 305(B)
L-1	04-May-76			6.4	33.0	30	53.0			OEPA,1982 305(B)
MONROE LAKE										
L-1	22-Aug-80	16	58	1.8	52.0	20	47.0	**52.0**	Eutrophic	OEPA,1982 305(B)
L-1	16-May-80	4.9	46	1.5	54.0	20	47.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
MOSQUITO CREEK RESERVOIR										
S-1	1992			(N=8)	68.0					CLIP/OLMS
S-2	1992			(N=8)	73.0					CLIP/OLMS
S-3	1992			(N=8)	79.0					CLIP/OLMS
L-1	10-Jul-89			0.65	66.0	32	54.0			OEPA,314 GRANT
L-1	10-Aug-89	28.8	64	0.67	66.0	37	56.0	**55.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	25-Apr-89			0.71	65.0	18	46.0			OEPA,314 GRANT
L-1	24-Aug-76			0.61	67.0	70	65.0			OEPA,1982 305(B)
L-2	25-Apr-89			0.61		70	47.0	**47.0**	L2-Mesotrophic	OEPA,1982 305(B)
L-1	12-May-76			0.82	63.0	60	63.0			OEPA,1982 305(B)
L-1	30-Jul-73	40.2	67	0.81	63.0	50	61.0			OEPA,1982 305(B)
L-1	21-Apr-73	25.7	62	0.99	60.0	30	53.0			OEPA,1982 305(B)
MT. GILEAD LAKE #1 (MAPLE GROVE)										
L-1	11-May-94	3.42	43	0.45	71.0	210	81.0	**65.0**	Eutrophic	OEPA,314 GRANT
L-1	28-Jly-94	9.07	52	0.85	62.0	60	63.0			OEPA,314 GRANT
L-1	07-Sep-94	21.08	60	0.75	64.0	60	63.0			OEPA,314 GRANT
L-1	04-Aug-80	17.6	59			270	85.0			OEPA,1982 305(B)
MT. GILEAD LAKE #2 (LOWER)										
L-1	03-May-94			0.6	67.0	36	56.0	**57.0**	Eutrophic	OEPA,314 GRANT
L-1	11-May-94	39.72	66.7							OEPA,314 GRANT
L-1	28-Jly-94	14.21	57	0.7	65.0	42	58.0			OEPA,314 GRANT
L-1	07-Sep-94	18.78	59	0.6	67.0	60	63.0			OEPA,314 GRANT
L-1	04-Aug-80	2.6	40	0.12	91.0	220	82.0			OEPA,1982 305(B)
MUD LAKE										
S-1	1993			(N=7)	61.0					NEFCO
L-1	08-Jun-93			1.18	58.0	160	77.0	**65.0**	Eutrophic	OEPA,314 GRANT
L-1	03-Aug-92	19.24	60	1.07	59.0	42	58.0			OEPA,314 GRANT
L-1	08-Aug-92	17.33	59	1.12	58.0	60	63.0			OEPA,314 GRANT
S-1	1992			(N=7)	60.0					NEFCO
S-1	1989			(N=10)	57.0					NEFCO
S-1	1988			(N=3)	56.0					NEFCO

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
MUNROE BASIN										
L-1	14-May-90			0.62	67.0	35	55.0	**61.0**	Eutrophic	OEPA,314 GRANT
L-1	13-Sep-90	35.9	66	0.3	77.0	50	61.0			OEPA,314 GRANT
MUNROE FALLS LAKE										
S-1	1995			(N=4)	38.0				Insuff. Data	NEFCO
S-1	1994			(N=10)	57.0					NEFCO
S-1	1993			(N=9)	57.0					NEFCO
S-1	1992			(N=12)	49.0					NEFCO
MUZZY LAKE										
S-1	1994			(N=11)	63.0					CLIP/OLMS
S-1	1993			(N=6)	66.0					CLIP/OLMS
S-1	1992			(N=12)	63.0					CLIP/OLMS
S-1	1991			(N=6)	63.0					CLIP/OLMS
S-1	1990			(N=7)	63.0					NEFCO
S-1	11-Jun-90	39	67	0.66	66.0	112	71.0	**63.0**	Eutrophic	NEFCO/KSU
S-1	02-Jly-90	23.8	62	1.19	57.0	61	63.0			NEFCO/KSU
S-1	23-Jly-90	42.4	67	0.74	64.0	190	81.0			NEFCO/KSU
S-1	12-Aug-90	36.3	66	0.76	64.0	100	71.0			NEFCO/KSU
S-1	03-Sep-90	12.3	55			105	71.0			NEFCO/KSU
S-1	22-Sep-90	17.6	59	0.91	61.0	88	69.0			NEFCO/KSU
S-1	1989			(N=10)	62.0					NEFCO
S-1	1988			(N=7)	60.0					NEFCO
NETTLE LAKE										
S-1	1994			(N=10)	61.0					CLIP/OLMS
S-2	1994			(N=9)	61.0					CLIP/OLMS
S-1	1993			(N=6)	64.0					CLIP/OLMS
S-2	1993			(N=6)	65.0					CLIP/OLMS
S-1	1992			(N=10)	65.0					CLIP/OLMS
S-2	1992			(N=7)	65.0					CLIP/OLMS
S-4	1992			(N=9)	65.0					CLIP/OLMS
L-1	19-May-93			0.9	61.0	19	47.0	**65.0**	Eutrophic	OEPA,314 GRANT
L-1	17-Aug-92	116.11	77	0.69	65.0					OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-1	16-Sep-92	69.18	72	0.69	65.0	69	65.0			OEPA,314 GRANT
L-1	22-May-78	19.5	60	1.1	59.0	40	57.0			OEPA,1982 305(B)
L-1	14-Aug-78	19.5	60	1.2	57.0	40	57.0			OEPA,1982 305(B)
NEW CONCORD RESERVOIR										
L-1	26-Apr-94			3.6	42.0	16	44.0	**53.0**	Eutrophic	OEPA,314 GRANT
L-1	09-Aug-94	7.81	51	2.48	47.0	<50				OEPA,314 GRANT
L-1	30-Aug-94	26.8	63	1.3	56.0	45	59.0			OEPA,314 GRANT
NEW LEXINGTON RESERVOIR #1										
L-1	09-May-95	6.35	49	1.3	56.0	20	47.0	**42.0**	Mesotrophic	OEPA,314 GRANT
L-1	21-Aug-95	0.81	28	2.8	45.0	60	63.0			OEPA,314 GRANT
L-1	11-Sep-95	6.885	49	1.6	53.0	90	69.0			OEPA,314 GRANT
NEW LEXINGTON RESERVOIR #2 (Old)										
L-1	06-May-80	6.8	49	1.4	55.0	20	47.0	**46.0**	Mesotrophic	OEPA,1982 305(B)
L-1	04-Aug-80	4.3	45	1.2	57.0	30	53.0			OEPA,1982 305(B)
NEWPORT LAKE										
L-1	28-Aug-80	155.2	80	0.56	68.0	230	83.0	**86.0**	Hypereutrophic	OEPA,1982 305(B)
L-1	22-May-80	73.2	73	0.41	73.0	430	92.0			OEPA,1982 305(B)
NIMISILA RESERVOIR										
L-2	25-May-93			0.71	65.0	40	57.0	**58.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	17-Aug-93	18.15	59	1.15	58.0	140	75.0			OEPA,314 GRANT
L-2	08-Sep-93	14.61	57	1.06	59.0	31	54.0			OEPA,314 GRANT
S-1	1993			(N=7)	63.0					NEFCO
S-2	1993			(N=7)	65.0					NEFCO
VLMP	1990			(N=6)	65.0					NEFCO
S-1	06-Jly-89	8.7	52	1.35	56.0	36	56.0	**57.0**	S1-Eutrophic	FULMER/COOKE
S-1	06-Sep-89	21.8	61	1.09	59.0	56	62.0			FULMER/COOKE
S-2	06-Jly-89	8.5	52	1.25	57.0	42	58.0			FULMER/COOKE
S-2	06-Sep-89	37.1	66	1.09	59.0	69	65.0			FULMER/COOKE

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
S-3	06-Jly-89	8.3	51	1.46	55.0	43	58.0			FULMER/COOKE
S-3	06-Sep-89	26.9	63	1.05	59.0	59	63.0			FULMER/COOKE
VLMP	1988			(N=6)	60.0					NEFCO
L-1	02-May-77	41.4	67	0.67	66.0	50	61.0			OEPA,1982 305(B)
L-1	08-Aug-77	43.6	68	0.91	61.0	50	61.0			OEPA,1982 305(B)
NORTH BALTIMORE RESERVOIR										
L-1	09-May-94			1	60.0	32	54.0	**59.0**	Eutrophic	OEPA,314 GRANT
L-1	25-Jly-94	14.04	56	0.7	65.0	25	51.0			OEPA,314 GRANT
L-1	22-Aug-94	43.02	67	0.8	63.0	28	52.0			OEPA,314 GRANT
NORTH BRANCH KOKOSING RIVER LAKE										
L-1	25-Apr-90			0.5		80	67.0	**59.0**	Eutrophic	OEPA,314 GRANT
L-1	22-Aug-90	7.8	51	0.5	70.0	70				OEPA,314 GRANT
L-1	14-Aug-79	48.4	69	0.51	70.0	60	63.0			OEPA,1982 305(B)
L-1	12-Jun-79	14.1	57	0.51	70.0	40	57.0			OEPA,1982 305(B)
NORTH RESERVOIR										
L-1	02-Jun-93			0.81	63.0	41	58.0	**59.0**	Eutrophic	OEPA,314 GRANT
L-1	26-Aug-93	22.65	61	0.38	74.0	70	65.0			OEPA,314 GRANT
S-1	1993			(N=1)	68.0					NEFCO
S-2	1993			(N=1)	71.0					NEFCO
S-1	1992			(N=5)	71.0					NEFCO
S-1	1990			(N=20)	66.0					NEFCO
S-1	06-Jly-89	25.1	62	0.84	63.0	82	68.0			FULMER/COOKE
S-1	06-Sep-89	88.2	75	0.51	70.0	127	74.0			FULMER/COOKE
S-2	06-Jly-89	27	63	0.83	63.0	75	66.0			FULMER/COOKE
S-2	06-Sep-89	91.8	75	0.48	71.0	140	75.0			FULMER/COOKE
S-3	06-Jly-89	30.8	64	0.83	63.0	95	70.0			FULMER/COOKE
S-3	06-Sep-89	90.5	75	0.5	70.0	140	75.0			FULMER/COOKE
S-1	1989			(N=7)	66.0					NEFCO
S-1	1988			(N=6)	69.0					NEFCO
OAK THORP RESERVOIR										

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-1	08-Jun-93			0.91	61.0	70	65.0	**71.0**	Hypereutrophic	OEPA,314 GRANT
L-1	24-Aug-93	88.95	75	0.48	71.0	90	69.0			OEPA,314 GRANT
L-1	21-Sep-93	79.38	73	0.37	74.0	90	69.0			OEPA,314 GRANT
OPOSSUM CREEK LAKE 1 (POND 5A)										
L-1	23-May-95	6.25	49	0.76	64.0	80	67.0	**58.0**	Eutrophic	OEPA,314 GRANT
L-1	17-Aug-95	11.395	54	0.71	65.0	50	60.0			OEPA,314 GRANT
L-1	27-Sep-95	10.14	53	1	60.0					OEPA,314 GRANT
OPPOSSUM CREEK LAKE 2 (LAKE 18A)										
L-1	23-May-95	8.215	51	2.44	47.0	17	45.0	**37.0**	Oligotrophic	OEPA,314 GRANT
L-1	17-Aug-95	0.385	21	2.33	48.0	<50				OEPA,314 GRANT
L-1	27-Sep-95	4.96	46	2.59	46.0	<50				OEPA,314 GRANT
O'SHAUGHNESSY RESERVOIR										
L-1	15-May-95	9.675	53	0.25	80.0	100	70.0	**61.0**	Eutrophic	OEPA,314 GRANT
L-1	14-Sep-95	9.395	53	0.6	67.0	90	69.0			OEPA,314 GRANT
L-1	25-Oct-95			0.4	73.0	200	80.0			OEPA,314 GRANT
S-1	1994			(N=9)	66.0					CLIP/OLMS
S-2	1994			(N=10)	66.0					CLIP/OLMS
S-1	1993			(N=12)	70.0					CLIP/OLMS
S-2	1993			(N=10)	68.0					CLIP/OLMS
S-1	1992			(N=12)	64.0					CLIP/OLMS
S-2	1992			(N=8)	66.0					CLIP/OLMS
S-1	1991			(N=12)	67.0					CLIP/OLMS
S-2	1991			(N=10)	67.0					CLIP/OLMS
L-1	26-Apr-73	9.6	53	0.46	71.0	170	78.0			OEPA,1982 305(B)
L-1	02-Aug-73	3.5	43	0.46	71.0	220	82.0			OEPA,1982 305(B)
OBERLIN RESERVOIR										
L-1	30-May-89			2.74	45.0	18	46.0	**46.0**	Mesotrophic	OEPA,314 GRANT
L-1	06-Sep-89			1.16	58.0	70	65.0			OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
PAINT CREEK LAKE										
L-1	25-May-93			0.61	67.0	51	61.0	**69.0**	L1-Hypereutrophic	OEPA,314 GRANT
L-1	04-Aug-92	127.26	78	0.61	67.0	110	72.0			OEPA,314 GRANT
L-1	25-Aug-92	41.21	67	0.61	67.0					OEPA,314 GRANT
L-2	25-May-93			0.46	71.0	82	68.0	**71.0**	L2-Hypereutrophic	OEPA,314 GRANT
L-2	04-Aug-92			0.61	67.0	70	65.0			OEPA,314 GRANT
L-2	25-Aug-92	93.06	75	0.46	71.0	70	65.0			OEPA,314 GRANT
S-1	1991			(N=3)	61.0					CLIP/OLMS
S-2	1991			(N=3)	69.0					CLIP/OLMS
L-1	06-May-75			0.66	66.0	140	75.0			OEPA,1982 305(B)
L-1	02-Oct-75			0.91	61.0	40	57.0			OEPA,1982 305(B)
PETROS LAKE										
L-1	1989			(N=2)	63.0				Insuff. Data	NEFCO
L-1	1988			(N=6)	53.0					NEFCO
PIEDMONT LAKE										
L-1	12-Apr-77	16.1	58	1.4	55.0	20	47.0	**56.0**	Eutrophic	OEPA,1982 305(B)
L-1	11-Aug-77	33.3	65	0.85	62.0	20	47.0			OEPA,1982 305(B)
PINE HILL LAKE										
S-1	1994			(N=12)	66.0				Insuff. Data	CLIP/OLMS
S-1	1993			(N=12)	68.0					CLIP/OLMS
S-1	1992			(N=13)	68.0					CLIP/OLMS
S-2	1992			(N=1)	66.0					CLIP/OLMS
S-3	1992			(N=1)	64.0					CLIP/OLMS
S-1	1991			(N=2)	65.0					CLIP/OLMS
S-2	1991			(N=13)	68.0					CLIP/OLMS
										CLIP/OLMS
PINE LAKE (MAHONING)										
S-1	1992			(N=1)	65.0					CLIP/OLMS
S-1	1992			(N=8)	67.0					CLIP/OLMS
L-1	12-Mar-80	1.6	35			5	27.0	**27.0**	Oligotrophic	OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
PLEASANT HILL LAKE										
S-1	1994			(N=12)	58.0					
S-2	1994			(N=11)	62.0					
L-1	27-May93			0.8	63.0	60	63.0	**68.0**	L1-Hypereutrophic	OEPA,314 GRANT
L-1	23-Aug-93	47.18	68	0.7	65.0	23	49.0			OEPA,314 GRANT
L-1	16-Sep-93	76.01	73	0.75	64.0	60	63.0			OEPA,314 GRANT
L-2	27-May93			0.8	63.0	44	59.0	**68.0**	L2-Hypereutrophic	OEPA,314 GRANT
L-2	23-Aug-93	59.84	71	0.55	69.0	70	65.0			OEPA,314 GRANT
L-2	16-Sep-93	83.97	74	0.6	67.0	100	70.0			OEPA,314 GRANT
S-1	1993			(N=12)	65.0					CLIP/OLMS
S-1	1992			(N=6)	62.0					CLIP/OLMS
S-1	1991			(N=6)	64.0					CLIP/OLMS
L-1	30-Jul-73	10	53	1.1	59.0	20	47.0			OEPA,1982 305(B)
L-1	20-Apr-73	41.7	67	1.4	55.0	40	57.0			OEPA,1982 305(B)
POND LICK LAKE										
L-1	26-Jly-95	5.2	47					**47.0**	Mesotrophic	OEPA,SPECIAL
PUNDERSON LAKE										
S-2	1991			(N=2)	51.0					CLIP/OLMS
L-1	19-Apr-89			2.13	49.0	42	58.0	**56.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	29-Aug-89	11.7	55	1.44	55.0	60	63.0			OEPA,314 GRANT
L-2	07-Jul-80	9.8	53	2.1	49.0	40	57.0	**53.0**	L2-Eutrophic	OEPA,1982 305(B)
L-2	19-Aug-75			1.3	56.0	30	53.0			OEPA,1982 305(B)
L-2	27-May-75			2.3	48.0	30	53.0			OEPA,1982 305(B)
PYMATUNING RESERVOIR										
L-1	31-Jul-73	43.1	68	0.61	67.0	50	61.0	**56.0**	Eutrophic	OEPA,1982 305(B)
L-1	21-Apr-73	7.7	51	1.7	52.0	20	47.0			OEPA,1982 305(B)
RACCOON CREEK RESERVOIR										
L-1	30-May-95	10.125	53	1.7	52.0	70	65.0	**46.0**	Mesotrophic	OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-1	02-Aug-95	1.735	36	4	40.0	70	65.0			OEPA,314 GRANT
L-1	17-Aug-95	1.645	35	2.6	46.0	60	63.0			OEPA,314 GRANT
REX LAKE										
L-1	08-Jun-93			1.12	58.0	50	61.0	**60.0**	Eutrophic	OEPA,314 GRANT
L-1	03-Aug-92	21.73	61	0.98	60.0	90	69.0			OEPA,314 GRANT
L-1	25-Aug-92	35.06	65	1.03	60.0	70	65.0			OEPA,314 GRANT
RICHWOOD PARK LAKE										
L-1	15-May-95	23.94	62	0.6	67.0	36	56.0	**64.0**	Eutrophic	OEPA,314 GRANT
L-1	14-Sep-95	68	72	0.35	75.0	60	63.0			OEPA,314 GRANT
L-1	23-Oct-95			0.5	70.0	80	67.0			OEPA,314 GRANT
L-1	31-Jul-80	21.8	61	0.91	61.0	60	63.0			OEPA,1982 305(B)
RIO GRANDE RESERVOIR										
L-1	10-May-95	1.33	33	1.72	52.0	26	51.0	**43.0**	Mesotrophic	OEPA,314 GRANT
L-1	22-Aug-95	2.385	39	3.84	41.0	50	60.0			OEPA,314 GRANT
L-1	12-Sep-95	2.1	38	3.07	44.0	80	67.0			OEPA,314 GRANT
L-1	26-Jly-95	3.4								OEPA,SPECIAL
ROAMING ROCK LAKE										
L-1	23-May-95	6.53	49	1.56	54.0	34	55.0	**56.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	01-Aug-95	8.435	51	1.4	55.0	110	72.0			OEPA,314 GRANT
L-1	24-Aug-95	25.15	62	1.43	55.0	50	60.0			OEPA,314 GRANT
S-1	1994			(N=11)	57.0					CLIP/OLMS
S-2	1994			(N=9)	56.0					CLIP/OLMS
S-1	1993			(N=12)	60.0					CLIP/OLMS
S-2	1993			(N=12)	59.0					CLIP/OLMS
S-1	1992			(N=12)	57.0					CLIP/OLMS
S-2	1992			(N=11)	56.0					CLIP/OLMS
S-1	1991			(N=12)	52.0					CLIP/OLMS
S-2	1991			(N=12)	53.0					CLIP/OLMS

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
ROCK MILL LAKE										
L-1	09-Jun-93			1.22	57.0	44	59.0	**61.0**	Eutrophic	OEPA,314 GRANT
L-1	20-Aug-93	21.74	61	0.96	61.0	80	67.0			OEPA,314 GRANT
L-1	21-Sep-93	28.89	64	1.15	58.0	70	65.0			OEPA,314 GRANT
S-1	1992			(N=5)	67.0					CLIP/OLMS
S-2	1992			(N=5)	67.0					CLIP/OLMS
S-1	1991			(N=4)	67.0					CLIP/OLMS
S-2	1991			(N=4)	69.0					CLIP/OLMS
ROCKY FORK LAKE										
S-1	1993			(N=1)	59.0					CLIP/OLMS
S-1	1991			(N=4)	71.0					CLIP/OLMS
S-2	1991			(N=4)	63.0					CLIP/OLMS
L-1	01-May-89			0.41	73.0	60	63.0	**66.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	22-Aug-89	46.2	68	0.71	65.0	38	57.0			OEPA,314 GRANT
L-2	22-Aug-89	37.3	66	0.51	70.0	50	61.0	**59.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	01-May-89			0.1	93.0	25	51.0			OEPA,314 GRANT
L-1	12-Aug-81	83.9	74	0.79	63.0	40	57.0			OEPA,1982 305(B)
L-1	07-May-75			0.64	66.0	40	57.0			OEPA,1982 305(B)
L-1	06-Sep-75			0.86	62.0	50	61.0			OEPA,1982 305(B)
L-1	01-Aug-73	41.6	67	0.86	62.0	60	63.0			OEPA,1982 305(B)
L-1	28-Apr-73	74.4	73	0.71	65.0	60	63.0			OEPA,1982 305(B)
ROOSEVELT LAKE										
S-1	1993			(N=12)	51.0					CLIP/OLMS
L-1	25-May-93			2.6	46.0	8	34.0	**35.0**	Oligotrophic	OEPA,314 GRANT
L-1	05-Aug-92			0.75	64.0	15	15.0			OEPA,314 GRANT
L-1	27-Aug-92	1.69	36	3.5	42.0	10	37.0			OEPA,314 GRANT
S-1	1992			(N=12)	49.0					CLIP/OLMS
S-1	1991			(N=12)	52.0					CLIP/OLMS
L-1	1987	31	64		56.0					OEPA, UNPUBL
ROSS LAKE										
L-1	10-Aug-79	4.4	45	3.1	44.0	10	37.0	**46.0**	Mesotrophic	OEPA,1982 305(B)
L-1	07-Jun-79			2	50.0	20	47.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
RUSH CREEK LAKE (RCCD STRUC. 6-A)										
L-1	08-Jun-93			2.1	49.0	60	63.0	**65.0**	Eutrophic	OEPA,314 GRANT
L-1	14-Aug-92	28.68	64	0.75	64.0	41	58.0			OEPA,314 GRANT
L_1	09-Sep-92	44.31	68	0.75	64.0	60	63.0			OEPA,314 GRANT
RUSH RUN LAKE										
L-1	21-Aug-89	6.1	48	1.02	60.0	50	61.0	**47.0**	Mesotrophic	OEPA,314 GRANT
L-1	26-Apr-89			1.37	55.0	19	47.0			OEPA,314 GRANT
SALT FORK RESERVOIR										
L-1	25-Apr-94			1.3	56.0	15	43.0	**53.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	08-Aug-94	17.68	59	1.12	58.0	37	56.0			OEPA,314 GRANT
L-1	29-Aug-94	14.83	57	1.26	57.0	27	52.0			OEPA,314 GRANT
L-2	25-Apr-94			0.8	63.0	50	61.0	**55.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	08-Aug-94	2.05	38	1.34	56.0	<50				OEPA,314 GRANT
L-2	29-Aug-94	42.87	67	0.57	68.0	36	56.0			OEPA,314 GRANT
L-1	20-May-75			1.6	53.0	20	47.0			OEPA,1982 305(B)
L-1	15-Aug-75			0.91	61.0	30	53.0			OEPA,1982 305(B)
SEBALD POND #2										
L-1	29-May-95			0.3	77.0	140	75.0	**63.0**	Eutrophic	OEPA,314 GRANT
L-1	15-Aug-95	8.74	52	0.37	74.0	90	69.0			OEPA,314 GRANT
L-1	26-Sep-95	27.11	63			180	79.0			OEPA,314 GRANT
SENECAVILLE LAKE										
L-1	20-Apr-76			0.98	60.0	40	57.0	**57.0**	Eutrophic	OEPA,1982 305(B)
L-1	17-Aug-76			0.79	63.0	40	57.0			OEPA,1982 305(B)
SHARON WOODS LAKE										
L-1	08-Jul-81	64.6	71	0.53	69.0	660	98.0	**71.0**	Hypereutrophic	OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
SHELBY RESERVOIR #1										
L-1	25-May-93			2.6	46.0	17	45.0	**58.0**	Eutrophic	OEPA,314 GRANT
L-1	34207	16.41	58	1.05	59.0	24	50.0			OEPA,314 GRANT
L-1	13-Sep-93	68.42	72	0.6	67.0	36	56.0			OEPA,314 GRANT
SHELBY RESERVOIR #2										
L-1	25-May-93			3.4	42.0	8	34.0	**43.0**	Mesotrophic	OEPA,314 GRANT
L-1	34207	8.46	51	2.8	45.0	10	37.0			OEPA,314 GRANT
L-1	13-Sep-93	3.81	44	1.4	55.0	19	47.0			OEPA,314 GRANt
SHREVE LAKE										
L-1	11-May-89			0.84	63.0	28	52.0	**59.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	28-Aug-89	23.2	61	1.08	59.0	48	60.0			OEPA,314 GRANT
L-1	19-Jly-89	38.7	66			59	63.0			FULMER/COOKE
L-1	21-Aug-89	15.4	57	0.97	60.0	59	63.0			FULMER/COOKE
L-2	19-Jly-89	34	65			64	64.0	**60.0**	L2-Eutrophic	FULMER/COOKE
L-2	21-Aug-89	12.8	56	1.08	59.0	32	54.0			FULMER/COOKE
SILVER CREEK LAKE										
S-1	1992			(N=13)	52.0				Insuff. Data	NEFCO
S-2	1992			(N=12)	52.0					NEFCO
S-3	1992			(N=7)	56.0					NEFCO
SIPPO LAKE										
VLMP	1995			(N=4)	67.0					NEFCO
VLMP	1995			(N=4)	67.0					NEFCO
VLMP	1994			(N=9)	67.0					NEFCO
VLMP	1994			(N=6)	66.0					NEFCO
VLMP	1993			(N=10)	61.0					NEFCO
VLMP	1993			(N=10)	62.0					NEFCO
VLMP	1992			(N=9)	54.0					NEFCO
VLMP	1992			(N=4)	53.0					NEFCO

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
VLMP	1990				52.0					NEFCO
VLMP	1989			(N=6)	58.0					NEFCO
VLMP	1988			(N=4)	54.0					NEFCO
L-1	18-Apr-90			1.37	55.0	30	53.0	**60.0**	L1-Eutrophic	PHASE I GRANT
L-1	24-May-90			1.83	51.0	60	63.0			PHASE I GRANT
L-1	13-Jun-90			2.3	48.0	90	69.0			PHASE I GRANT
L-1	18-Jly-90			2.3	48.0	40	57.0			PHASE I GRANT
L-1	22-Aug-90			0.97	60.0	50	61.0			PHASE I GRANT
L-1	26-Sep-90			1.83	51.0	43	58.0			PHASE I GRANT
L-2	18-Apr-90			1.16	58.0	40	57.0	**58.0**	L2-Eutrophic	PHASE I GRANT
L-2	24-May-90			2.46	47.0	70	65.0			PHASE I GRANT
L-2	13-Jun-90			2.3	48.0	80	67.0			PHASE I GRANT
L-2	18-Jly-90			2	50.0	70	65.0			PHASE I GRANT
L-2	22-Aug-90	24	61	0.75	64.0	70	65.0			PHASE I GRANT
L-2	31-Aug-90			1.5	54.0					PHASE I GRANT
L-2	26-Sep-90	9	52	1.52	54.0	48	60.0			PHASE I GRANT
L-1	12-Jul-89			1.52	54.0	43	58.0			OEPA,314 GRANT
L-1	05-Sep-89	13.5	56	1.47	54.0	70	65.0			OEPA,314 GRANT
L-2	05-Sep-89	4.9	46	2.46	47.0	32	54.0			OEPA,314 GRANT
L-1	15-Jul-81	23.3	61	0.82	63.0	80	67.0			OEPA,1982 305(B)
SNYDER PARK LAKE										
L-1	10-Jul-81	17.5	59	0.61	67.0	50	61.0	**59.0**	Eutrophic	OEPA,1982 305(B)
SPENCER RESERVOIR										
L-1	29-Aug-77	58.9	71	0.4	73.0	310	87.0	**71.0**	Hypereutrophic	OEPA,1982 305(B)
SPRING VALLEY LAKE										
L-1	08-May-89			1.22	57.0	29	53.0	**50.0**	Eutrophic	OEPA,314 GRANT
L-1	14-Aug-89	6.1	48	1.37	55.0	26	51.0			OEPA,314 GRANT
SPRINGFIELD LAKE										
S-1	1994			(N=7)	58.0					NEFCO
S-2	1994			(N=7)	59.0					NEFCO

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
S-3	1994			(N=7)	59.0					NEFCO
S-1	1993			(N=8)	55.0					NEFCO
VLMP	1992			(N=6)	57.0				(volunteer #1)	NEFCO
VLMP	1992			(N=12)	60.0				(volunteer #2)	NEFCO
VLMP	1992			(N=12)	58.0					NEFCO
VLMP	10-Jun-90	26.4	63	1.09	59.0	62	61.0	**56.0**	Eutrophic	NEFCO/KSU
VLMP	01-Jly-90	13.8	56	1.52	54.0	33	52.0			NEFCO/KSU
VLMP	22-Jly-90	4.4	45	1.02	60.0	40	56.0			NEFCO/KSU
VLMP	08-Aug-90	23.1	61	1.22	57.0	39	57.0			NEFCO/KSU
VLMP	01-Sep-90	5.6	49	0.86	62.0	40	57.0			NEFCO/KSU
VLMP	23-Sep-90	28.1	63	0.86	62.0	38	57.0			NEFCO/KSU
S-1	1990			(N=16)	56.0					NEFCO
S-1	1989			(N=21)	48.0					NEFCO
S-1	1988			(N=7)	54.0					NEFCO
L-1	04-Aug-81	50.4	69.00	0.82	63.0	40	57.0			OEPA,1982 305(B)
STAGES POND										
L-1	16-Jun-93					130	74.0	**79.0**	Hypereutrophic	OEPA,314 GRANT
L-1	24-Aug-93	286	86	0.35	75.0	260	84.0			OEPA,314 GRANT
L-1	21-Sep-93	93.17	75	0.32	76.0	120	73.0			OEPA,314 GRANT
STONELICK RESERVOIR										
S-1	1993			(N=7)	73.0					CLIP/OLMS
S-2	1993			(N=7)	74.0					CLIP/OLMS
S-3	1993			(N=7)	77.0					CLIP/OLMS
S-4	1993			(N=7)	86.0					CLIP/OLMS
S-1	1992			(N=7)	74.0					CLIP/OLMS
S-2	1992			(N=7)	74.0					CLIP/OLMS
S-3	1992			(N=7)	77.0					CLIP/OLMS
S-4	1992			(N=7)	82.0					CLIP/OLMS
S-1	1991			(N=10)	70.0					CLIP/OLMS
S-2	1991			(N=10)	72.0					CLIP/OLMS
S-3	1991			(N=10)	74.0					CLIP/OLMS
S-4	1991			(N=10)	83.0					CLIP/OLMS
L-1	10-May-89			0.15	87.0	130	74.0	**74.0**	Hypereutrophic	OEPA,314 GRANT
L-1	30-Aug-89			0.36	75.0	150	76.0			OEPA,314 GRANT
L-1	14-Apr-77	53.7	70	0.24	81.0	130	74.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-1	01-Sep-77	21.2	61	1.1	59.0	60	63.0			OEPA,1982 305(B)
SUMMIT LAKE										
L-1	24-Apr-86			0.65	66.0	80	67.0	**67.0**	L-1 Hypereutrophic	OEPA, UNPUBL
L-1	30-Jul-86			1	60.0	70	65.0			OEPA, UNPUBL
L-1	14-Aug-86			0.6	67.0	50	61.0			OEPA, UNPUBL
L-2	24-Apr-86			0.65	66.0	80	67.0	**67.0**	L-2 Hypereutrophic	OEPA, UNPUBL
L-2	30-Jul-86			1	60.0	50	61.0			OEPA, UNPUBL
L-2	14-Aug-86			0.6	67.0					OEPA, UNPUBL
L-3	14-Aug-86			0.8	63.0	80	67.0	**61.0**	L-3 Eutrophic	OEPA, UNPUBL
L-3	30-Jul-86			0.9	62.0	80	67.0			OEPA, UNPUBL
L-3	24-Apr-86			0.65	66.0	50	61.0			OEPA, UNPUBL
L-1	05-Aug-81	36.8	66	0.82	63.0	70	65.0			OEPA,1982 305(B)
L-1	19-Aug-76			0.64	66.0	90	69.0			OEPA,1982 305(B)
L-1	03-May-76			0.85	62.0	70	65.0			OEPA,1982 305(B)
SUNNY LAKE (HARMON'S POND)										
L-1	15-May-95	40.49	67	0.4	73.0	50	61.0	**66.0**	Eutrophic	OEPA,314 GRANT
L-1	31-Jly-95	39.63	67	0.39	74.0	70	65.0			OEPA,314 GRANT
L-1	21-Aug-95	54.74	70	0.39	74.0	90	69.0			OEPA,314 GRANT
S-1	1992			(N=2)	73.0					NEFCO
S-1	1990			(N=10)	74.0					NEFCO
S-1	1989			(N=9)	74.0					NEFCO
L-1	07-Aug-80	54.1	70	0.61	67.0	240	83.0			OEPA,1982 305(B)
SWIFT RUN LAKE										
L-1	25-Apr-89			0.56	68.0	50	61.0	**64.0**	Eutrophic	OEPA,314 GRANT
L-1	17-Aug-89	40.5	67	0.41	73.0	70	65.0			OEPA,314 GRANT
TAPPAN LAKE										
L-1	01-Jun-93			1.11	58.0	23	49.0	**57.0**	Eutrophic	OEPA,314 GRANT
L-1	17-Aug-93	17.67	59	0.92	61.0	39	57.0			OEPA,314 GRANT
L-1	07-Sep-93	24.19	62	0.88	62.0	30	53.0			OEPA,314 GRANT
L-2	01-Jun-93			0.9	61.0	31	54.0	**61.0**	Eutrophic	OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-2	17-Aug-93	34.59	65	0.57	68.0	70	65.0			OEPA,314 GRANT
L-2	07-Sep-93	32.24	65	0.78	64.0	45	59.0			OEPA,314 GRANT
S-1	1993			(N=5)	58.0					CLIP/OLMS
S-1	1992			(N=3)	60.0					CLIP/OLMS
L-1	02-Sep-76			1.1	59.0	50	61.0			OEPA,1982 305(B)
L-1	26-Apr-76			1.1	59.0	40	57.0			OEPA,1982 305(B)
L-1	21-Apr-73	28.3	63	0.97	60.0	20	47.0			OEPA,1982 305(B)
L-1	30-Jul-73	27.4	63	0.99	60.0	30	53.0			OEPA,1982 305(B)
TINKERS CREEK ST PK LAKE										
S-1	1993			(N=12)	47.0				Insuff. Data	NEFCO
S-1	1992			(N=11)	45.0					NEFCO
S-1	1991			(N=11)	48.0					NEFCO
S-2	1991			(N=8)	47.0					NEFCO
TURKEY CREEK LAKE										
L-1	25-May-93			4.11	40.0	8	34.0	**36.0**	Oligotrophic	OEPA,314 GRANT
L-1	05-Aug-92			1.9	33.0	12	40.0			OEPA,314 GRANT
L-1	27-Aug-92	2.22	38	3.44	42.0	8	34.0			OEPA,314 GRANT
S-1	1992			(N=12)	48.0					CLIP/OLMS
S-2	1992			(N=12)	48.0					CLIP/OLMS
S-1	1991			(N=12)	44.0					CLIP/OLMS
S-2	1991			(N=12)	46.0					CLIP/OLMS
L-1	1987		63		42.0					OEPA, UNPUBL
TURKEYFOOT LAKE										
L-1	08-Jun-93			1.03	60.0	70	65.0	**64.0**	Eutrophic	OEPA,314 GRANT
L-1	03-Aug-92	35.34	66	0.98	60.0	70	65.0			OEPA,314 GRANT
L-1	25-Aug-92	23.16	61	1.01	60.0	60	63.0			OEPA,314 GRANT
S-1	1992			(N=3)	59.0					NEFCO
S-2	1992			(N=3)	63.0					NEFCO
S-3	1992			(N=3)	62.0					NEFCO
S-1	1990			(N=18)	60.0					NEFCO
S-1	1989			(N=21)	60.0					NEFCO
S-1	1988			(N=6)	58.0					NEFCO
L-1	19-Apr-77	62.1	71	0.64	66.0	90	69.0			OEPA,1982 305(B)

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-1	09-Aug-77	33.6	65	1.1	59.0	50	61.0			OEPA,1982 305(B)
TYCOON LAKE										
L-1	26-Apr-90			1.33	56.0	50	61.0	**58.0**	Eutrophic	OEPA,314 GRANT
L-1	24-Aug-90	11.1	54	1.7	52.0	23	49.0			OEPA,314 GRANT
L-1	24-Aug-78	10.1	53	1.8	52.0	20	47.0			OEPA,1982 305(B)
L-1	02-May-78	6.7	49	2	50.0	20	47.0			OEPA,1982 305(B)
VAN BUREN LAKE										
L-1	09-May-94			0.2	83.0	340	88.0	**77.0**	Hypereutrophic	OEPA,314 GRANT
L-1	25-Jly-94	65.17	72	0.1	93.0	90	69.0			OEPA,314 GRANT
L-1	22-Aug-94	65.69	72	0.2	83.0	75	66.0			OEPA,314 GRANT
L-1	08-Jun-89	69.3	72	0.3	77.0	144	76.0	**76.0**	L1-Hypereutrophic	FULMER/COOKE
L-1	07-Aug-89	108.8	77	0.28	78.0	110	72.0			FULMER/COOKE
L-2	08-Jun-89	84.2	74	0.21	82.0	228	82.0	**80.0**	L2-Hypereutrophic	FULMER/COOKE
L-2	07-Aug-89	132.6	79	0.22	82.0	189	80.0			FULMER/COOKE
L-3	08-Jun-89	27.7	63	0.1	93.0	144	76.0	**76.0**	L3-Hypereutrophic	FULMER/COOKE
L-3	07-Aug-89	106.4	76	0.21	82.0	189	80.0			FULMER/COOKE
L-1	29-Apr-80	76	73	0.33	76.0	80	67.0			OEPA,1982 305(B)
L-1	11-Aug-80	6.4	49	0.1	93.0	210	81.0			OEPA,1982 305(B)
VETO LAKE										
S-1	1994			(N=4)	69.0					CLIP/OLMS
S-0	1994			(N=2)	66.0					CLIP/OLMS
S-1	1993			(N=12)	72.0					CLIP/OLMS
S-1	1992			(N=12)	68.0					CLIP/OLMS
S-1	1991			(N=12)	70.0					CLIP/OLMS
L-1	15-May-90			0.7	65.0	27	52.0	**61.0**	Eutrophic	OEPA,314 GRANT
L-1	10-Sep-90	51.1	69	0.6	67.0	60	63.0			OEPA,314 GRANT
L-1	17-Aug-78	14.4	57	0.46	71.0	50	61.0			OEPA,1982 305(B)
L-1	09-May-78	20.1	60	0.46	71.0	50	61.0			OEPA,1982 305(B)
VILLAGE OF BARNESVILLE LAKE #3										
L-1	02-Jun-93			2.03	50.0	15	43.0	**43.0**	Mesotrophic	OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-1	17-Aug-93	2.06	38	2.22	48.0	18	46.0			OEPA,314 GRANT
L-1	08-Sep-93	6.75	49	1.85	51.0	25	52.0			OEPA,314 GRANT
VIRGINIA KENDALL LAKE										
S-1	1994			(N=1)	71.0				Insuff. Data	NEFCO
S-2	1994			(N=1)	83.0					NEFCO
S-3	1994			(N=1)	85.0					NEFCO
VLMP	1988			(N=7)	55.0					NEFCO
WABASH CONS. DIST. RESV. #1										
L-1	29-Aug-89			0.2	83.0	90	69.0	**76.0**	Hypereutrophic	OEPA,314 GRANT
L-1	25-Apr-89			0.15	87.0	150	76.0			OEPA,314 GRANT
WALLACE LAKE										
L-1	29-Aug-77	3.5	43	2	50.0	22	49.0	**43.0**	Mesotrophic	OEPA,1982 305(B)
WAUSEON RESERVOIR #2										
L-1	19-May-93			1	60.0	37	56.0	**60.0**	Eutrophic	OEPA,314 GRANT
L-1	17-Aug-92	15.53	58	0.91	62.0	41	58.0			OEPA,314 GRANT
L-1	16-Sep-92	39.82	67	0.91	62.0	230	83.0			OEPA,314 GRANT
WEST RESERVOIR										
L-1	19-May-93			1.01	60.0	37	56.0	**67.0**	Hypereutrophic	OEPA,314 GRANT
L-1	17-Aug-93	73.17	73	0.65	66.0	100	70.0			OEPA,314 GRANT
L-1	09-Sep-93	72.54	73	0.66	66.0	130	74.0			OEPA,314 GRANT
S-1	1993			(N=2)	56.0					NEFCO
S-1	1992			(N=5)	57.0					NEFCO
S-1	09-Jun-90	6.1	48	1.17	58.0	77	67.0			NEFCO/KSU
S-1	29-Jun-90	5.5	47	1.07	59.0	48	59.0			NEFCO/KSU
S-1	21-Jly-90	25.3	62	1.22	57.0	73	66.0			NEFCO/KSU
S-1	09-Aug-90	24.8	62	0.81	63.0	74	66.0			NEFCO/KSU
S-1	31-Aug-90	6.3	49	0.91	61.0	64	64.0			NEFCO/KSU
S-1	15-Sep-90	10.5	54	0.74	64.0	72	65.0			NEFCO/KSU

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
S-1	1990			(N=16)	61.0					NEFCO
S-1	1989			(N=19)	60.0					NEFCO
S-1	1988			(N=8)	60.0					NEFCO
WESTERVILLE RESERVOIR										
L-1	01-Apr-80	17.6	59	0.91	61.0	40	57.0	**57.0**	Eutrophic	OEPA,1982 305(B)
WESTVILLE LAKE										
L-3	20-Jly-87	53.7	70	0.5	70.0			**70.0**	Hypereutrophic	OEPA, NEDO
WHITE SULPHER LAKE										
L-1	15-Jun-93			2.4	47.0	24	50.0	**50.0**	Eutrophic	OEPA,314 GRANT
L-1	25-Aug-93	11.12	54	1.68	52.0	13	41.0			OEPA,314 GRANT
L-1	21-Sep-93	5.14	47	3.1	44.0	50	61.0			OEPA,314 GRANT
WILLARD CITY RESERVOIR										
L-1	30-Aug-79	8.8	52	1.6	53.0	10	37.0	**44.0**	Mesotrophic	OEPA,1982 305(B)
L-1	22-Jun-79	1.9	37	6.5	33.0	10	37.0			OEPA,1982 305(B)
WILLS CREEK RESERVOIR										
L-1	26-May-93			0.48	71.0	60	63.0	**58.0**	L1-Eutrophic	OEPA,314 GRANT
L-1	06-Aug-92	15.16	57	0.19	75.0	43	58.0			OEPA,314 GRANT
L-1	31-Aug-92	9.45	53	0.22	82.0	70	65.0			OEPA,314 GRANT
L-2	26-May-93			0.32	76.0	80	67.0	**61.0**	L2-Eutrophic	OEPA,314 GRANT
L-2	06-Aug-92	17.59	59	0.25	80.0	41	58.0			OEPA,314 GRANT
L-2	31-Aug-92	14.32	57	0.35	75.0	380	90.0			OEPA,314 GRANT
L_1	06-May-76			0.46	71.0	80	67.0			OEPA,1982 305(B)
L-1	07-Sep-76			0.46	71.0	80	67.0			OEPA,1982 305(B)
WILMINGTON RESERVOIR #1										
L-1	07-Jun-93			2.13	49.0	18	46.0	**46.0**	Mesotrophic	OEPA,314 GRANT
L-1	31-Aug-93			2.74	45.0	11	39.0			OEPA,314 GRANT

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
WILMINGTON RESERVOIR #2 (NEW)										
L-1	07-Jun-93			1.68	52.0	17	45.0	**52.0**	Eutrophic	OEPA,314 GRANT
L-1	31-Aug-93			2.74	45.0	12	40.0			OEPA,314 GRANT
L-1	28-Sep-93	17.48	59	1.52	54.0	<50				OEPA,314 GRANT
WINCHESTER LAKE										
L-1	26-Jly-95	319	87					**87.0**	Hypereutrophic	OEPA, SPECIAL
WINTON WOODS LAKE (W.FK.MILL CK.)										
L-1	29-Apr-87	25.8	62	0.41	73.0	32	54.0	**77.0**	Hypereutrophic	PHASE I GRANT
L-1	13-May-87	32.4	65	0.4	73.0	754	100.0			PHASE I GRANT
L-1	27-May-87	55.2	70	0.33	76.0	167	78.0			PHASE I GRANT
L-1	10-Jun-87	27	63	0.3	77.0	169	78.0			PHASE I GRANT
L-1	24-Jun-87	22.7	61	0.3	77.0	129	74.0			PHASE I GRANT
L-1	01-Jul-87	119.8	78							PHASE I GRANT
L-1	08-Jul-87	64.6	71	0.35	75.0	116	73.0			PHASE I GRANT
L-1	22-Jul-87	26.9	63	0.35	75.0					PHASE I GRANT
L-1	29-Jul-87	56.9	70							PHASE I GRANT
L-1	05-Aug-87	63	71	0.34	76.0					PHASE I GRANT
L-1	12-Aug-87	43.7	68							PHASE I GRANT
L-1	19-Aug-87	50.9	69	0.4	73.0					PHASE I GRANT
L-1	26-Aug-87	60.2	71							PHASE I GRANT
L-1	02-Sep-87	72.7	73							PHASE I GRANT
L-1	09-Sep-87	33.4	65							PHASE I GRANT
L-1	16-Sep-87	48.4	69	0.4	73.0					PHASE I GRANT
L-1	24-Apr-78	62.2	71	0.61	67.0	110	72.0			OEPA,1982 305(B)
L-1	25-Jul-78	35.7	66	0.56	68.0	160	77.0			OEPA,1982 305(B)
WOLF RUN RESERVOIR										
S-1	1991			(N=1)	49.0					CLIP/OLMS
L-1	29-Jun-89	2	37	2.6	46.0	16	44.0	**40.0**	L1-Mesotrophic	FULMER/COOKE
L-1	31-Jly-89	1.5	35	3.31	43.0	11	38.0			FULMER/COOKE
L-2	29-Jun-89	3.5	43	1.02	60.0	23	49.0	**48.0**	L2-Eutrophic	FULMER/COOKE

Appendix C. Trophic state classification, TSI data, and trends in trophic state for publicly-owned lakes greater than 5 acres.

Site	Date	CH-a (µg/l)	TSI CH-a	SD(m) Raw Data	TSI SD	TP (µg/l)	TSI TP	Final TSI	Trophic Classification	Data Source
L-2	31-Jly-89	5.2	47	2.5	47.0	26	51.0			FULMER/COOKE
L-3	29-Jun-89	6.3	49	0.55	69.0	53	61.0	**49.0**	L3-Eutrophic	FULMER/COOKE
L-3	31-Jly-89	2.1	38	1.15	58.0	26	51.0			FULMER/COOKE
L-1	13-Aug-81	2.9	41	2.9	45.0	20	47.0			OEPA,1982 305(B)
L-1	19-Apr-76			2	50.0	20	47.0			OEPA,1982 305(B)
L-1	16-Aug-76			3.4	42.0	10	37.0			OEPA,1982 305(B)
WYNOKA RETENTION DAM										
L-1	26-May-93			0.53	69.0	120	73.0	**69.0**	Hypereutrophic	OEPA,314 GRANT
L-1	05-Aug-92	20.03	74	1	60.0	100	71.0			OEPA,314 GRANT
L-1	26-Aug-92	7.3	59	1.84	51.0					OEPA,314 GRANT
WYNOKA UPGROUND RESERVOIR										
L-1	26-May-93			0.82	63.0	12	40.0	**46.0**	Mesotrophic	OEPA,314 GRANT
L-1	05-Aug-92	9.47	53	0.78	64.0	50	61.0			OEPA,314 GRANT
L-1	26-Aug-92	4.76	46	0.91	61.0					OEPA,314 GRANT
ZEPPERNICK LAKE										
S-1	1993			(N=3)	63.0				Insuff. Data	CLIP/OLMS
S-1	1992			(N=11)	64.0					CLIP/OLMS

Appendix D

State of Ohio Environmental Protection Agency
Division of Surface Water

LAKE CONDITION QUESTIONNAIRE

This questionnaire should be completed by one who is familiar with lake conditions over the past two years. If monitored data are not available, please use your best judgement. Please attach a copy of any raw data that were collected over the past two years. This information will be used by the Ohio EPA to update the State of Ohio's 305(b) Lake Water Quality Inventory Report that is submitted to the USEPA. Any comments or questions may be directed to: Bob Davic, Ohio EPA, Northeast District Office, 2110 E. Aurora Rd., Twinsburg, Ohio 44087. Phone (330)963-1132, Fax (330)487-0769. Please return completed questionnaires to the above address.

Name of Lake:_____

County at Dam Site:_____

1. **INLAKE CONDITIONS.**

   a. Does the lake support a well-balanced mix of sport and forage fish, or do few fish species exist?

Insufficient Data	Well-balanced Fishery	Partially Balanced	Partially Impaired	Impaired Fishery

   b. How would you rate the fishing in this lake? (Circle one).

Insufficient Data Excellent Good Acceptable Marginal Very Poor

   c. If *marginal* or *very poor* please indicate reasons why.
   _____ Poor water chemistry
   _____ Too many aquatic plants
   _____ Turbidity
   _____ Overfishing
   _____ Fish populations with stunted growth
   _____ Physical characteristics of the lake
   _____ Other (Please specify) _____

   d. If *excellent* or *good* , please indicate reasons why.
   _____

e. Please list the types and numbers of fish that have been stocked in the lake during the past two years (if any). Please include white amur.

_____

_____

f. What species of fish are most frequently caught in the lake?

_____Largemouth Bass	_____Crappie	_____Bluegill
_____Catfish	_____Other Sunfish	_____Walleye
_____Saugeye	_____Perch	_____Other Sunfish
	_____Other (Specify)	

g. Is fish tissue data available? Yes _____No_____ Don't Know _____. If available, please attach a copy of the raw data.

h. Has the bottom sediment been chemically tested? Yes_____No_____ Don't Know_____. If yes, please attach a copy of the raw data.

i. Has any sediment been dredged or removed from the lake? Yes_____ No_____ Don't Know_____.

j. Based on your best judgement, how much of the original lake volume has been lost due to sedimentation from the upstream watershed?

<10% 10-25% 25-40% 40-60% >60%

k. Has a recent survey (since 1980) been conducted to document the extent of volume loss?
Yes_____No_____ Don't Know_____. If yes, what percent capacity was lost? _____%.

l. Have any chemical tests (nutrients, fecal bacterial, heavy metals, etc.) been conducted on the lake water during the past two years? Yes_____No_____ Don't Know_____. If available, please attach a copy of the raw data.

m. Are there ongoing water quality surveys in this lake? Yes_____No_____ Don't Know_____.

n. During the summer months, to what extent do aquatic weeds cover the shoreline of the lake? (Circle one).

<10% 10-25% 25-50% 50-75% 75-100%

o. Has a survey of the types and abundance of aquatic vegetation been conducted for the lake? Yes_____No_____Don't Know_____. If available, please attach a copy of the raw data.

p. During the past two summers, how would you rate the water quality of this lake?

Excellent Good Acceptable Marginal Poor

q. Problem evaluation: On a scale from one (1) to ten (10) with one being no problem and ten being extreme problem please rate the condition of this lake during the summer months

1. Algae blooms (pea green water)

No Problem Moderate Problem Extreme Problem

1 -- 2 -- 3 -- 4 -- 5 -- 6 -- 7 -- 8 -- 9 -- 10 --- Don't Know---

2. Floating scum

No Problem Moderate Problem Extreme Problem

1 -- 2 -- 3 -- 4 -- 5 -- 6 -- 7 -- 8 -- 9 -- 10 --- Don't Know---

3. Fish kills (more than 200 fish at one time)

No Problem Moderate Problem Extreme Problem

1 -- 2 -- 3 -- 4 -- 5 -- 6 -- 7 -- 8 -- 9 -- 10 --- Don't Know---

4. Odors

No Problem Moderate Problem Extreme Problem

1 -- 2 -- 3 -- 4 -- 5 -- 6 -- 7 -- 8 -- 9 -- 10 --- Don't Know---

5. Duckweed

No Problem Moderate Problem Extreme Problem

1 -- 2 -- 3 -- 4 -- 5 -- 6 -- 7 -- 8 -- 9 -- 10 --- Don't Know---

6. Muddy brown water

No Problem Moderate Problem Extreme Problem

1 -- 2 -- 3 -- 4 -- 5 -- 6 -- 7 -- 8 -- 9 -- 10 --- Don't Know---

7. Aquatic plants (macrophytes) in shallow areas

No Problem Moderate Problem Extreme Problem

1 -- 2 -- 3 -- 4 -- 5 -- 6 -- 7 -- 8 -- 9 -- 10 --- Don't Know---

8. Beach Closures

No Problem Moderate Problem Extreme Problem

1 -- 2 -- 3 -- 4 -- 5 -- 6 -- 7 -- 8 -- 9 -- 10 --- Don't Know---

9. Other problems (list and rank)

r. Is the lake water used as a source of public drinking water? Yes_____No_____ Don't Know_____.If yes, please answer the following questions

1. Taste and odor problems

No Problem Moderate Problem Extreme Problem

1 -- 2 -- 3 -- 4 -- 5 -- 6 -- 7 -- 8 -- 9 -- 10 --- Don't Know---

2. THM (Trihalomethane) problems

No Problem Moderate Problem Extreme Problem

1 -- 2 -- 3 -- 4 -- 5 -- 6 -- 7 -- 8 -- 9 -- 10 --- Don't Know---

3. Other problems. (List_____).

s. In the space below, indicate your general impression of the overall health or condition of this lake, and what steps you feel are necessary to protect and/ or restore lake uses.

_____
_____
_____

2. **LAKE USES.**

Please indicate <u>all</u> of the types of uses supported by the lake.

_____Agricultural water supply
_____Boating - motorized
_____Boating - nonmotorized
_____Camping/Picnicking
_____Conservation
_____Fishing (from shore)
_____Fishing (from boats)
_____Flood control
_____Industrial water supply
_____Public water supply (back-up)
_____Public water supply (primary)
_____Stormwater management
_____Swimming
_____Water skiing
_____Others (name)

3. **INLAKE TREATMENTS.**

Please indicate the types of lake management techniques that have been used in the lake over the past two years.

_____Circulation/aeration
_____Copper sulphate treatment
_____Dilution/flushing
_____Dredging
_____Fish removal
_____Grass carp (white amur)
_____Herbicides/algacides other than copper sulphate, Name_____
_____
_____Hypolimnetic aeration
_____Lake level drawdown
_____Nutrient inactivation (alum)
_____Sediment covers
_____Weed (macrophyte) harvesting
_____Others_____

4. **MISCELLANEOUS INFORMATION**.

a. Would local funds (either in dollars or woman/man hours) be available in the next two years to match a potential $50,000 federal EPA Clean Lake Program grant to conduct a detailed study of lake and watershed conditions.
_____yes _____No _____Not sure.

b. Do you think there is enough local support in the area to encourage and assist the development of a lake protection or restoration project?
Yes_____No_____Not sure_____
Please name a contact person(s) or group with phone number and address.
_____
_____

5. **CAUSES OF LAKE PROBLEM**
On a scale of 1 to 5(1 = **very high magnitude**, 2 = **moderate**, 3 = **don't know**, 4 = **slight**, 5 = **no problem**), please rank the importance of the following **causes of potential problems** in this lake.

Code	*Cause*	*Rank*				
		Very high	*moderate*	*don't know*	*slight*	*none*
0000	Cause unknown----------	1	2	3	4	5
0100	Unknown toxicity----------	1	2	3	4	5
0200	Pesticides----------	1	2	3	4	5
0300	Priority organics ----------	1	2	3	4	5
0400	Nonpriority organics----------	1	2	3	4	5
0410	PCBs----------	1	2	3	4	5
0420	Dioxins----------	1	1	3	4	5
0500	Metals----------	1	2	3	4	5
	0508 Nickel----------	1	2	3	4	5
	0509 Iron----------	1	2	3	4	5
	0510 Arsenic----------	1	2	3	4	5
	0511 Strontium----------	1	2	3	4	5
	0512 Barium----------	1	2	3	4	5
	0513 Aluminum----------	1	2	3	4	5
	0514 Other Metals----------	1	2	3	4	5
	0520 Cadmium----------	1	2	3	4	5
	0530 Copper----------	1	2	3	4	5
	0540 Chromium----------	1	2	3	4	5
	0550 Lead----------	1	2	3	4	5
	0560 Mercury----------	1	2	3	4	5
	0570 Selenium----------	1	2	3	4	5
	0580 Zinc----------	1	2	3	4	5
0600	Unionized Ammonia----------	1	2	3	4	5
0700	Chlorine----------	1	2	3	4	5
0720	Cyanide----------	1	2	3	4	5
0750	Sulfates----------	1	2	3	4	5

Code	*Cause*	*Rank*				
		Very high	*moderate*	*don't know*	*slight*	*none*
0800	Other Organics----------	1	2	3	4	5
0900	Nutrients----------	1	2	3	4	5
	0910 Phosphorus----------	1	2	3	4	5
	0920 Nitrogen----------	1	2	3	4	5
	0990 Other----------	1	2	3	4	5
1000	pH----------	1	2	3	4	5
1100	Siltation----------	1	2	3	4	5
1200	Organic enrichment/low D.O.----------	1	2	3	4	5
1300	Salinity/TDS/chlorides----------	1	2	3	4	5
1400	Thermal modifications----------	1	2	3	4	5
1500	Flow alterations----------	1	2	3	4	5
1600	Other habitat alterations----------	1	2	3	4	5
1700	Pathogenic indicators----------	1	2	3	4	5
1800	Radiation----------	1	2	3	4	5
1900	Oil and grease----------	1	2	3	4	5
2000	Taste and odor----------	1	2	3	4	5
2100	Suspended solids----------	1	2	3	4	5
2200	Noxious native aquatic plants----------	1	2	3	4	5
2210	Excess algal growth/chlorophyll-a---------	1	2	3	4	5
2300	Filling and draining----------	1	2	3	4	5
2400	Total toxics----------	1	2	3	4	5
2500	Turbidity----------	1	2	3	4	5
2600	Exotic Species----------	1	2	3	4	5
2700	Other (specify)_____	1	2	3	4	5

6. **WHICH CONTROL AND LAKE RESTORATION EFFORTS HAVE BEEN USED AT THIS LAKE OR IN ITS BASIN?**

Control activities	*Control activities*
_____10 Point source controls	_____30 Detention/sedimentation basins
_____11 Industrial point source permit	_____31 Runoff diversion
_____12 Municipal point source permit	_____32 Redesigned streets/parking
_____13 Point source diversion	_____33 Unspecified BMP's installed
_____14 Other point source controls	_____34 Other watershed controls
_____20 Nonpoint sources	_____40 NPS land use Ords. or Regs.
_____21 Conservation tillage	_____50 Functional NPS controls
_____22 Integrated pest management	_____60 Functional state lake mngt. prgs.
_____23 Animal waste management	_____70 Emission control programs
_____24 porous pavement	_____80 Other NPS controls
_____25 Road/skid trail managemnt	_____81 Local lake mngt. Prgs. In-place
_____26 Land surface roughening	_____82 Public information/Education
_____27 Stormwater management	_____83 Local ordinance/Zoning/Regs.
_____28 Bank stabilization	_____85 Other protection/Restoration pgrs.
_____29 Riprapping	

Restoration activities

_____01 Phosphorus precipitation
_____02 Sedimentation removal/dredging
_____03 Dilution
_____04 Biological controls
_____05 Aquatic macrophyte harvesting
_____06 Artificial circulation
_____07 Hypolimnetic aeration
_____08 Food chain manipulation
_____09 Chemical controls
____ 10 Diversion
_____11 Sediment basin/traps
_____12 Drawdown

Restoration activities

_____13 Shading/sediment cover
_____14 Sediment oxidation
_____15 Hypolimnetic withdrawl
_____16 Introduction of non-native species
_____17 Other in-lake treatment
_____20 Application of aquatic herbicide
_____19 Sand filters for clarification
_____21 Destratification
_____22 Sand or other media filtration

7. **SOURCES OF LAKE POLLUTION**

On a scale of 1-5(1 = **very high magnitude**, 2 = **moderate**, 3 = **don't know**, 4 = **slight**, 5 = **no problem**), please rank the importance of the following **sources** of pollution loading to this lake.

Code	*Cause*	*Rank*				
		Very high	*moderate*	*don't know*	*slight*	*none*
0100	**Industrial Point Sources:**					
	0110 Major industrial----------	1	2	3	4	5
	0120 Minor industrial----------	1	2	3	4	5
0200	**Municipal Point Sources:**					
	0210 Major municipal----------	1	2	3	4	5
	0220 Minor municipal----------	1	2	3	4	5
	0230 Package Plants----------	1	2	3	4	5
0400	**Combined Sewer Overflow**------	1	2	3	4	5
0500	**Collection System Failure**----------	1	2	3	4	5
0900	**Domestic Wastewater Lagoon**-----	1	2	3	4	5
1000	**Agricultural:**					
	1100 Non-irrigated crop production-	1	2	3	4	5
	1200 Irrigated crop production-------	1	2	3	4	5
	1300 Truck farming-orchards-------	1	2	3	4	5
	1410 Pasture grazing (riparian)------	1	2	3	4	5
	1420 Pasture grazing (upland)-------	1	2	3	4	5
	1620 Concentrated animal feed lots--	1	2	3	4	5
	1640 Confined animal feed lots-------	1	2	3	4	5
	1700 Aquaculture----------	1	2	3	4	5

Code	*Source*	*Rank*				
2000	**Silviculture:**	*Very high*	*moderate*	*don't know*	*slight*	*none*
	2100 Tree harvesting----------	1	2	3	4	5
	2200 Forest management----------	1	2	3	4	5
	2300 Road construction----------	1	2	3	4	5
3000	**Construction:**					
	3100 Highway construction----------	1	2	3	4	5
	3200 Land development----------	1	2	3	4	5
4000	**Urban Runoff:**					
	4100 Storm sewers----------	1	2	3	4	5
	4300 Surface runoff (paved areas)---	1	2	3	4	5
5000	**Resource Extraction:**					
	5100 Surface mining----------	1	2	3	4	5
	5200 Subsurface mining----------	1	2	3	4	5
	5300 Placer mining----------	1	2	3	4	5
	5400 Dredge mining----------	1	2	3	4	5
	5500 Petroleum activities----------	1	2	3	4	5
	5600 Mill tailings----------	1	2	3	4	5
	5700 Mine tailings----------	1	2	3	4	5
	5800 Acid Mine Drainage----------	1	2	3	4	5
6000	**Land Disposal:**					
	6100 Sludge----------	1	2	3	4	5
	6200 Wastewater----------	1	2	3	4	5
	6300 Landfills----------	1	2	3	4	5
	6400 Industrial----------	1	2	3	4	5
	6500 Septic tank----------	1	2	3	4	5
	6600 Hazardous waste----------	1	2	3	4	5
7000	**Hydromodification:**					
	7100 Stream channelization----------	1	2	3	4	5
	7200 In-lake dredging----------	1	2	3	4	5
	7300 Dam construction----------	1	2	3	4	5
	7400 Flow regulation----------	1	2	3	4	5
7550	**Habitat Modification (other than Hydomodification)**					
	7600 Riparian (shoreline removal)---	1	2	3	4	5
	7700 Streambank modification-------	1	2	3	4	5
8000	**Other:**					
	8100 Atmospheric deposition---------	1	2	3	4	5
	8400 Spills----------	1	2	3	4	5
	8500 In-place contaminants----------	1	2	3	4	5

	Code	*Cause*	*Rank*				
			Very high	*moderate*	*don't know*	*slight*	*none*
	8530	Internal nutrient cycling---------	1	2	3	4	5
	8540	Sediment resuspension----------	1	2	3	4	5
	8600	Natural aging----------	1	2	3	4	5
9000	**Source Unknown:**----------		1	2	3	4	5

Thank you very much for responding to this questionnaire!

(**Please complete respondent identification on last page**)

Respondent Identification:

Name: _____

Title: _____

Address: _____

City: _____ Zip_____

Telephone ( ) -

APPENDIX E

Ohio EPA State Lakes Policy

Policy No. 1.05
Effective: August 1, 1988
Revised: February 22, 1989

Subject: National Pollution Discharge Elimination System; States Lakes

The State Lakes Policy applies to point source dischargers to all publically owned lakes and reservoirs and tributary streams within three miles of lakes or reservoirs and establishes effluent limitations for new, existing or expanded wastewater treatment facilities. This policy is not applicable upground reservoirs, point source dischargers into Lake Erie or privately owned lakes.

Dischargers into streams tributary to lakes and reservoirs shall have limitations as stringent as if the discharge were occuring directly into the lake or reservoir except where the stream assimilation study has been done. For lakes lakes whose depth is varies seasonally, such as for flood control purposes, the lake boundary shall be taken at the water surface of the summer low water level.

This category is to be applies to three different categories of discharge.

Category 1. All new point sources discharging directly into a lake, reservoir, or into a streams tributary (within three stream miles) to the lake or reservoir will be assigned the following effluent limitations:

Total discharge volume of facility greater than or equal to 0.1 MGD

$CBOD_{5i}$		3.0 mg/l
NH_3-N	(Summer)	1.5 mg/l or present ambient standard for toxicity, which ever is more stringent.
	(Winter)	Present ambient standard for toxicity.
T-Phosphorus		1,0 mg/l
Dissolved Oxygen		6.0 mg/l
TRC	(Summer Only)	11.0 ug/l
Fecal coliform	(Summer Only)	Bathing waters 200/100 ml Other areas 1000/ 100 ml

Total discharge volume of facility less than 0.1 MGD

$CBOD_{5i}$		8.0 mg/l
NH_3-N	(Summer)	1.5 mg/l or present ambient standard for toxicity, which ever is less stringent.
	(Winter)	Present ambient standard for toxicity.
T-Phosphorus		0.8 mg/l
Dissolved Oxygen		6.0 mg/l
TRC	(Summer Only)	11.0 ug/l
Fecal coliform	(Summer Only)	Bathing waters 200/100 ml Other areas 1000/ 100 ml

Category 2. All existing point source discharges directly into lake, reservoir, or into streams tributary (within three stream miles) to the lake or reservoir will be assigned the following effluent limitations:

$CBOD_{5i}$		10.0 mg/l
NH_3-N	(Summer)	12.0 mg/l or present ambient standard for toxicity, which ever is less stringent; if discharge is into a tributary stream, a waste load allocation may be considered.
	(Winter)	Monitor. Note: If design flow is less than 0.01 MGD, neither monitoring nor a NH_3N limitation is required.
T-Phosphorus		If less than 0.2 MGD design flow, no limit or monitoring required. If greater than or equal to 0.2 MGD design flow, use 8.34 lbs/day or 1 mg/l, whichever is less stringent.
Dissolved Oxygen		6.0 mg/l
TRC	(Summer Only)	5.0 ug/l
Fecal coliform	(Summer Only)	Bathing waters 200/100 ml Other areas 1000/ 100 ml

Category 3. All point source harges from expanded facilities discharging directly into a lake, reservoir, or stream tributary (within three stream miles) to the lake or the reservoir will be assigned limitations using the following formula in combination with limitations listed to applicable parts of category 1. The formula develops limitations for category 3 dischargers by prorating the existing and additional design flow and existing and more stringent effluent limitations. The existing permit limits or the existing effluent quality 95 percent confidence interval, whichever is more stringent, along with the limitations shown in category 1 which are applicable to the additional flow, should be used when developing limitations for category 3 discharges.

*

$$L_N = \frac{(PF_o \text{ X } L_o) + (PF_1 \text{ X } L_1)}{PF_O + PF_1}$$

L_N = New permit limit

L_o = The limits from Category 2 or existing permit limit / existing effluent 95 percent confidencc interval when these are more stringent than category 2 limits.

L_1 = Limits for expanded capacity as taken from this policy

PF_o = Design flow of existing portion of the WWTP.

PF_1 = Design flow of expanded portion of WWTP.

* This formula should not be applied to fecal coliform, TRC or D.O.

All other possible alternatives should be considered prior to approving a new direct discharge to a lake or reservoir. On-lot wastewater disposal may be feasible where suitable subsoils exist. In some cases, it may be possible to direct the discharge to a stream not tributary to the lake or reservoir. If a direct discharge to a lake or reservoir is the only viable alternative, the Ohio EPA will require public ownership of the treatment faccility.

Note: The feasibility of a controlled discharge lagoon discharge to a lake, reservoir, or stream tributary (within three miles) to a lake or reservoir that is included in the criteria described above will be assessed on a case-by-case PF basis. If approved, effluent limitations will be set based upon the Ohio EPALagoons policy. Additional effluent limitations (i.e.,phosphorus) may be requiredas necessary to assure continued high water quality.

Appendix F-1. Relative assessment of causes of impairment (i.e., acres[1]) causing partial and non-attainment of designated uses in lakes, ponds, and reservoirs in Ohio and threats to lakes currently unimpaired. Major, moderate, and minor impacts refer to the high, moderate, and slight magnitude codes specified by the U.S. EPA guidance for the 305(b) report.

	1988-1996 305(b) Cycles			
Causes	Major Cause	Moderate Cause	Minor Cause	Threats
Nutrients	5,376.6	626.0	34.0	18,595.9
Organic Enrichment / Dissolved Oxygen	4,836.5	2,072.0	947.0	20,431.9
Siltation	2,897.6	486.0	2,273.0	7,238.8
Turbidity	983.0	2,812.0	44.0	3,420.0
Metals	424.0	987.0	1,348.0	8,344.9
Thermal Modifications	180.0	192.0	26.0	2,677.8
Other Inorganics	85.0	149.6	536.0	5,113.8
Exotic Species	63.0	53.0	40.5	9.6
Pesticides	57.0	58.0	2,271.0	4,783.8
Ammonia	37.6	180.0	–	5,046.0
Nitrites	34.0	292.0	115.5	3,416.4
Filling & Draining	30.0	–	79.0	321.5
Total Toxics	–	–	–	–
Suspended Solids	–	–	1,368.5	1,072.9
Taste and Odor	–	55.6	–	355.4
Oil & Grease	–	183.0	–	32.0
Radiation	–	–	–	16.0
Pathogens	–	94.0	259.0	900.0
Habitat Alterations	–	–	243.0	1661.8
Flow Alteration	–	88.0	–	250.0
Salinity / TSD / Chlorides	–	53.0	–	2658.5
pH	–	–	1269.0	9.6
Chlorine	–	–	–	130.0
Non-Priority Organics	–	–	–	2264.0
Priority Organics	–	7.0	1325.0	2275.0
Unknown	–	–	107.6	–

Appendix F-2. Relative assessment of sources of impacts (i.e., acres[1]) causing non-support of aquatic life uses in Ohio lakes, ponds, and reservoirs. Major, moderate, and minor impacts refer to the high, moderate, and slight magnitude codes specified by the U.S. EPA guidance for the 305(b) report.

Sources	Major Source	Moderate Source	Minor Source	Threats
POINT SOURCES	**1678.0**	**5619.0**	**2209.5**	**15756.0**
Industrial	–	4,510.0	1,190.0	12,698.0
Municipal	1190.0	4,699.0	1,019.5	9,828.0
Combined Sewers	–	–	–	2,166.0
Stormwater Sewers	287.0	32.0	–	2,453.0
AGRICULTURE	**9075.0**	**3337.0**	**2843.1**	**28376.2**
Agriculture	5,672.0	59.0	20.0	13,687.5
Non-irrigated Crops	4,000.0	2,149.0	259.5	15,383.2
Irrigated Crops	–	–	1074.0	240.0
Specialty Crops	–	43.0	–	110.0
Pasture Land	7.0	3,050.0	320.0	9,016.7
Rangeland	–	927.0	70.0	2,977.6
Feedlots	611.0	1,059.0	1,493.5	4,803.5
Aquaculture	–	–	31.0	–
Animal Holding	604.0	43.0	107.6	1,206.5
SILVICULTURE	**–**	**239.0**	**461.4**	**526.0**
Silviculture	–	59.0	180.0	177.0
Timber Harvesting	–	–	171.0	333.0
Forest Mangement	–	–	127.0	308.0
Timber Harv. Roads	–	180.0	110.4	120.0
CONSTRUCTION	**291.5**	**1748.0**	**1567.1**	**7727.0**
Construction	88.0	722.0	1,325.0	1,147.0
Highway Constr.	–	–	108.5	2,687.0
Land Development	203.5	1,026.0	227.6	6,580.0
URBAN RUNOFF/ STORM SEWERS (NPS)	**602.0**	**486.0**	**1632.0**	**6574.8**
Urban Runoff	316.0	287.0	1,479.0	2,736.8
Storm Sewers	201.0	382.0	1,325.0	1,267.0
Industrial Permitted	–	183.0	–	2,160.0
Surface Runoff	422.0	183.0	153.0	1,653.0
RESOURCE EXTRACT.	**270.0**	**539.0**	**1489.0**	**7431.9**
Mining	85.0	–	94.0	313.0
Surface Mining	85.0	539.0	70.0	3,568.9
Subsurface Mining	185.0	–	26.0	–
Petroleum Activities	–	–	1,369.0	5,009.6
Mine Tailings	–	–	44.0	9.6
Acid Mine Drainage	–	–	–	900.0
LAND DISPOSAL	**570.0**	**853.0**	**956.0**	**24341.0**
Land Disposal	–	–	–	10.0
Sludge Disposal	–	–	–	6.0
Wastewater Disposal	–	–	–	6.0
Landfills	–	–	96.0	2,852.0
Septic Tanks	570.0	853.0	850.0	22,171.0
Hazardous Waste	**–**	**–**	**10.0**	**5.0**

Appendix F-2. continued.

Sources	Major Source	Moderate Source	Minor Source	Threats
HYDROMODIFICATION	***488.5***	***3648.0***	***1955.0***	***8933.4***
Hydromodification	–	3,617.0	385.0	900.0
Channelization	7.0	–	31.0	712.6
Dredging	–	–	635.0	–
Dam Construction	21.5	31.0	–	11.0
Flow Regulation	187.0	–	85.0	478.0
Riparian Destruction	287.0	–	881.0	4,483.8
Streambank Disturb.	183.0	–	881.0	3543.6
OTHER	***483.0***	***4911.6***	***2527.0***	***16201.3***
Misc.	34.0	–	–	–
Atmos. Deposition	–	3,624.0	56.0	720.0
Highway maintenance	–	–	–	2,010.0
Spills	–	3,773.0	95.0	3133.0
In-place contaminants	104.0	201.0	1,355.0	2,315.0
Natural Conditions	449.0	4,890.6	1,061.0	8,746.3
SOURCE UNKNOWN	–	–	–	***221.0***
Unknown	–	–	–	221.0

Appendix G

List of Nonpoint Source Targeted Lakes

Lake	Acres	County
ADAMS LAKE	37.0	Adams
METZGER RESERVOIR	157.0	Allen
BRESLER RESERVOIR	582.0	Allen
FERGUSON RESERVOIR	305.0	Allen
PLEASANT HILL LAKE	850.0	Ashland
CHARLES MILL LAKE	1350.0	Ashland
CINNAMON LAKE	131.0	Ashland
PYMATUNING RESERVOIR	3580.0	Ashtabula
LAMPSON RESERVOIR (JEFFERSON	20.0	Ashtabula
ROAMING ROCK LAKE	464.0	Ashtabula
GRAND LAKE ST. MARYS	12700.0	Auglaize
FORTY ACRE POND	70.0	Auglaize
BELMONT LAKE	117.0	Belmont
GRANT LAKE	181.0	Brown
WAYNOKA RESERVOIR	11.6	Brown
SEBALD POND #1	5.5	Butler
ACTON LAKE	604.0	Butler
KISER LAKE	380.0	Champaign
C. J. BROWN LAKE	2120.0	Clark
EAST FORK LAKE	2160.0	Clermont
STONELICK RESERVOIR	160.0	Clermont
COWAN LAKE	688.0	Clinton
GUILFORD LAKE	396.0	Columbiana
HIGHLANDTOWN LAKE	170.0	Columbiana
WILLS CREEK RESERVOIR	900.0	Coshocton
BUCYRUS RESERVOIR #1	36.0	Crawford
RILEY RESERVOIR (BUCYRUS RESERVOIR #3)	28.0	Crawford
BUCYRUS RESERVOIR #2	31.0	Crawford
BALDWIN LAKE	32.0	Cuyahoga
COE LAKE	23.0	Cuyahoga
O'SHAUGHNESSY RESERVOIR	920.0	Delaware
DELAWARE LAKE	1300.0	Delaware
WESTERVILLE RESERVOIR	53.0	Delaware
DELCO WATER COMPANY LAKE	6.0	Delaware
ROCK MILL LAKE (HRCD STRUCTURE #9)	19.8	Fairfield
GREENFIELD LAKE (HUNTERS RUN #R-63)	13.5	Fairfield
HOOVER RESERVOIR	3000.0	Franklin
J. GRIGGS RESERVOIR	385.0	Franklin
WAUSEON RESERVOIR #2	49.0	Fulton
WAUSEON RESERVOIR #1	17.0	Fulton
FULTON POND	15.0	Fulton
HARRISON LAKE	96.0	Fulton
TYCOON LAKE	204.0	Gallia
LaDUE RESERVOIR	1500.0	Geauga

Appendix G

List of Nonpoint Source Targeted Lakes

Lake	Acres	County
LAKE AQUILLA	27.0	Geauga
EAST BRANCH RESERVOIR	416.0	Geauga
PUNDERSON LAKE	101.0	Geauga
HUFFMAN POND (MIAMI CONS. DIST. LAKE)	43.0	Greene
CEDARVILLE RESERVOIR	5.0	Greene
SALT FORK RESERVOIR	2952.0	Guernsey
MIAMI WHITEWATER LAKE	85.0	Hamilton
WINTON WOODS LAKE (W.FK. MILL CK.	183.0	Hamilton
SHARON WOODS LAKE	38.0	Hamilton
VAN BUREN LAKE	53.0	Hancock
TAPPAN LAKE	2350.0	Harrison
PIEDMONT LAKE	2310.0	Harrison
ROCKY FORK LAKE	2080.0	Highland
PAINT CREEK LAKE	1190.0	Highland
HILLSBORO RESERVOIR	22.0	Highland
LAKE LOGAN (HOCKING LAKE)	354.0	Hocking
WILLARD MARSH AREA LAKE	6.3	Huron
JACKSON LAKE	243.0	Jackson
JEFFERSON LAKE	25.0	Jefferson
KNOX LAKE	474.0	Knox
BUCKEYE LAKE	3136.0	Licking
INDIAN LAKE	5104.0	Logan
FINDLEY LAKE	83.0	Lorain
GRAFTON UPGROUND RESERVOIR	7.0	Lorain
SWANTON RESERVOIR	25.0	Lucas
MADISON LAKE	106.0	Madison
NEWPORT LAKE	105.0	Mahoning
HINCKLEY LAKE	88.0	Medina
SWIFT RUN LAKE	40.0	Miami
ECHO LAKE	14.5	Miami
MONROE LAKE	39.0	Monroe
MAPLE GROVE LAKE (UPPER MT. GILEAD	7.0	Morrow
CUTLER LAKE (BLUE ROCK STATE PARK	18.2	Muskingum
MUNROE BASIN LAKE	17.0	Muskingum
DILLON RESERVOIR	1325.0	Muskingum
CALDWELL LAKE	51.0	Noble
NEW LEXINGTON RESERVOIR #1	44.0	Perry
CLOUSE POND (CLOUSE LAKE)	41.0	Perry
DEER CREEK LAKE	1277.0	Pickaway
STAGE'S POND	30.0	Pickaway
LAKE WHITE	337.0	Pike
SUNNY LAKE (HARMON'S POND)	63.0	Portage
BERLIN RESERVOIR	3590.0	Portage
LAKE ROCKWELL	539.0	Portage

Appendix G

List of Nonpoint Source Targeted Lakes

Lake	Acres	County
LAKE HODGSON	190.0	Portage
MOGADORE RESERVOIR	900.0	Portage
BRADY LAKE	70.0	Portage
MUZZY LAKE	82.0	Portage
SHELBY RESERVOIR #1	29.0	Richland
ALDRICH POND	34.0	Sandusky
SIPPO LAKE	88.0	Stark
DEER CREEK RESERVOIR	313.0	Stark
SUMMIT LAKE	100.0	Summit
LAKE NESMITH	80.0	Summit
NORTH RESERVOIR	160.0	Summit
LONG LAKE	180.0	Summit
EAST RESERVOIR	201.0	Summit
NIMISILA RESERVOIR	825.0	Summit
WEST RESERVOIR	104.0	Summit
REX LAKE	48.0	Summit
TURKEYFOOT LAKE	318.0	Summit
MUD LAKE	85.0	Summit
MEADOWBROOK LAKE	24.0	Summit
SPRINGFIELD LAKE	200.0	Summit
HUDSON SPRINGS LAKE	45.0	Summit
GRAND RIVER WILDLIFE AREA LAKE	11.2	Trumbull
BEACH CITY LAKE	420.0	Tuscarawas
RICHWOOD PARK LAKE	16.0	Union
LAKE HOPE	127.0	Vinton
CAESAR CREEK RESERVOIR	2830.0	Warren
SPRING VALLEY LAKE	58.0	Warren
VETO LAKE	160.0	Washington
SHREVE LAKE	56.0	Wayne
NORTH BALTIMORE RESERVOIR	29.0	Wood
DEFIANCE POWER DAM RESERVOIR	679.0	Defiance

Lakes were targeted if they indicated less than full use (fu) attainnment for 4 or more of the following Ohio LCI parameters: productivity (P), nutrients (N), volume loss (V), fecal coliform bacteria (B), acid mine drainage (M), aesthetics (A), priority metals (PPM), nuisance levels of macrophytes (NM). See Appendix F for targeted parameters. Lakes not included in this list either had insufficient data to be assessed or did not meet the targeting criteria.

Appendix G

List of Nonpoint Source Targeted Lakes

Lake	Acres	County
ADAMS LAKE	37.0	Adams
METZGER RESERVOIR	157.0	Allen
BRESLER RESERVOIR	582.0	Allen
FERGUSON RESERVOIR	305.0	Allen
PLEASANT HILL LAKE	850.0	Ashland
CHARLES MILL LAKE	1350.0	Ashland
CINNAMON LAKE	131.0	Ashland
PYMATUNING RESERVOIR	3580.0	Ashtabula
JEFFERSON RESERVOIR (LAMPSON	20.0	Ashtabula
ROAMING ROCK LAKE	464.0	Ashtabula
GRAND LAKE ST. MARYS	12700.0	Auglaize
FORTY ACRE POND	70.0	Auglaize
BELMONT LAKE	117.0	Belmont
GRANT LAKE	181.0	Brown
WAYNOKA RETENTION DAM	11.6	Brown
SEBALD POND #1	5.5	Butler
ACTON LAKE	604.0	Butler
KISER LAKE	380.0	Champaign
C. J. BROWN LAKE	2120.0	Clark
EAST FORK LAKE (HARSA LAKE)	2160.0	Clermont
STONELICK RESERVOIR	160.0	Clermont
COWAN LAKE	688.0	Clinton
GUILFORD LAKE	396.0	Columbiana
HIGHLANDTOWN LAKE	170.0	Columbiana
WILLS CREEK RESERVOIR	900.0	Coshocton
BUCYRUS RESERVOIR #1	36.0	Crawford
BUCYRUS RESERVOIR #3 (RILEY RES.)	28.0	Crawford
BUCYRUS RESERVOIR #2	31.0	Crawford
BALDWIN LAKE	32.0	Cuyahoga
COE LAKE	23.0	Cuyahoga
DEFIANCE POWER DAM RESERVOIR	679.0	Defiance
O'SHAUGHNESSY RESERVOIR	920.0	Delaware
DELAWARE LAKE	1300.0	Delaware
WESTERVILLE RESERVOIR	53.0	Delaware
DELCO WATER COMPANY LAKE	6.0	Delaware
HRCD STRUCTURE 9 (ROCK MILL LAKE)	19.8	Fairfield
GREENFIELD LAKE (HUNTERS RUN #R-63)	13.5	Fairfield
HOOVER RESERVOIR	3000.0	Franklin

Appendix G

List of Nonpoint Source Targeted Lakes

Lake	Acres	County
J. GRIGGS RESERVOIR	385.0	Franklin
WAUSEON RESERVOIR #2	49.0	Fulton
WAUSEON RESERVOIR #1	17.0	Fulton
FULTON POND	15.0	Fulton
HARRISON LAKE	96.0	Fulton
TYCOON LAKE	204.0	Gallia
LaDUE RESERVOIR	1500.0	Geauga
LAKE AQUILLA	27.0	Geauga
EAST BRANCH RESERVOIR	416.0	Geauga
PUNDERSON LAKE	101.0	Geauga
HUFFMAN POND (MIAMI CONS. DIST. LAKE)	43.0	Greene
CEDARVILLE RESERVOIR	5.0	Greene
SALT FORK RESERVOIR	2952.0	Guernsey
MIAMI WHITEWATER LAKE	85.0	Hamilton
WINTON WOODS LAKE (W.FK. MILL CK. LAKE)	183.0	Hamilton
SHARON WOODS LAKE	38.0	Hamilton
VAN BUREN LAKE	53.0	Hancock
TAPPAN LAKE	2350.0	Harrison
PIEDMONT LAKE	2310.0	Harrison
ROCKY FORK LAKE	2080.0	Highland
PAINT CREEK LAKE	1190.0	Highland
HILLSBORO RESERVOIR	22.0	Highland
LAKE LOGAN (HOCKING LAKE)	354.0	Hocking
WILLARD MARSH AREA LAKE	6.3	Huron
JACKSON LAKE	243.0	Jackson
JEFFERSON LAKE	25.0	Jefferson
KNOX LAKE	474.0	Knox
BUCKEYE LAKE	3136.0	Licking
INDIAN LAKE	5104.0	Logan
FINDLEY LAKE	83.0	Lorain
GRAFTON UPGROUND RESERVOIR	7.0	Lorain
SWANTON RESERVOIR	25.0	Lucas
MADISON LAKE	106.0	Madison
NEWPORT LAKE	105.0	Mahoning
HINCKLEY LAKE	88.0	Medina
SWIFT RUN LAKE	40.0	Miami
ECHO LAKE	14.5	Miami
MONROE LAKE	39.0	Monroe

Appendix G

List of Nonpoint Source Targeted Lakes

Lake	Acres	County
MAPLE GROVE LAKE (UPPER MT. GILEAD	7.0	Morrow
BLUE ROCK STATE PARK LAKE (CUTLER	18.2	Muskingum
MUNROE BASIN LAKE	17.0	Muskingum
DILLON RESERVOIR	1325.0	Muskingum
CALDWELL LAKE	51.0	Noble
NEW LEXINGTON RESERVOIR #1	44.0	Perry
CLOUSE POND (CLOUSE LAKE)	41.0	Perry
DEER CREEK LAKE	1277.0	Pickaway
STAGE'S POND	30.0	Pickaway
LAKE WHITE	337.0	Pike
HARMON'S POND (SUNNY LAKE)	63.0	Portage
BERLIN RESERVOIR	3590.0	Portage
LAKE ROCKWELL	539.0	Portage
LAKE HODGSON	190.0	Portage
MOGADORE RESERVOIR	900.0	Portage
BRADY LAKE	70.0	Portage
MUZZY LAKE	82.0	Portage
SHELBY RESERVOIR #1	29.0	Richland
ALDRICH POND	34.0	Sandusky
SIPPO LAKE	88.0	Stark
DEER CREEK RESERVOIR	313.0	Stark
SUMMIT LAKE	100.0	Summit
LAKE NESMITH	80.0	Summit
NORTH RESERVOIR	160.0	Summit
LONG LAKE	180.0	Summit
EAST RESERVOIR	201.0	Summit
NIMISILA RESERVOIR	825.0	Summit
WEST RESERVOIR	104.0	Summit
REX LAKE	48.0	Summit
TURKEYFOOT LAKE	318.0	Summit
MUD LAKE	85.0	Summit
MEADOWBROOK LAKE	24.0	Summit
SPRINGFIELD LAKE	200.0	Summit
HUDSON SPRINGS LAKE	45.0	Summit
GRAND RIVER WILDLIFE AREA LAKE	11.2	Trumbull
BEACH CITY LAKE	420.0	Tuscarawas
RICHWOOD PARK LAKE	16.0	Union
LAKE HOPE	127.0	Vinton

Appendix G

List of Nonpoint Source Targeted Lakes

Lake	Acres	County
CAESAR CREEK RESERVOIR	2830.0	Warren
SPRING VALLEY LAKE	58.0	Warren
VETO LAKE	160.0	Washington
SHREVE LAKE	56.0	Wayne
NORTH BALTIMORE RESERVOIR	29.0	Wood

Lakes were targeted if they indicated less than full use (fu) attainnment for 4 or more of the following Ohio LCI parameters: productivity (P), nutrients (N), volume loss (V), fecal coliform bacteria (B), acid mine drainage (M), aesthetics (A), priority metals (PPM), nuisance levels of macrophytes (NM). See Appendix F for targeted parameters. Lakes not included in this list either had insufficient data to be assessed or did not meet the targeting criteria.

Appendix H. Summary of LCI parameters for Ohio's 446 public lakes. See text for explanation of parameters.

Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
[OH61 23-048] - ACTON LAKE (Butler), 604 acres																			
1988	ne	ne	t(bpj)	t(m)	t(m)	t(bpj)	t(m)	t-h(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	P	P
1990	t(m)	t(bpj)	fu(bpj)	t(m)	fu(m)	t(bpj)	fu(m)	t-e(m)	ne	t-h(m)	fu(m)	fu(m)	fu(m)	t(m)		U	T	P	P
1992	t(m)	t(bpj)	fu(bpj)	t(m)	t(m)	t(bpj)	fu(m)	t-e(m)	ne	t-h(m)	fu(m)	fu(m)	fu(m)	t(m)		U	P	P	P
1996	t(m)	t(bpj)	fu(m)	t(m)	t(m)	fu(m)	fu(m)	t-e(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)	27.86	F	T	T	P
[OH48 13-001] - ADAMS LAKE (Adams), 37 acres																			
1988	t(m)	ne	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	P	T
[OH88 01-369] - ALDER POND (Summit), 15 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH78 04-336] - ALDRICH POND (Sandusky), 34 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	i(bpj)	t(bpj)	t(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	ne	fu(m)	t(bpj)		U	T	P	P
[OH38 05-102] - ALUM CREEK LAKE (Delaware), 3387 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	fu(m)	ne	i(m)	ne	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	I	I	T
1990	fu(m)	ne	fu(bpj)	fu(bpj)	fu(m)	fu(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		F	T	T	T
1992	fu(m)	fu(bpj)	fu(bpj)	fu(bpj)	t(m)	fu(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	fu(m)	t(bpj)	17.50	F	T	T	T
[OH36 35-268] - AMANN RESERVOIR (Morrow), 24 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH36 35-269] - AMICKS RESERVOIR (Morrow), 51 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH72 18-139] - ARCHBOLD RESERVOIR #1 (Fulton), 20 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH72 18-140] - ARCHBOLD RESERVOIR #2 (Fulton), 49 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH92 28-016] - ASHTABULA CO. METRO PARKS LAKE #1 (Ashtabula), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH92 28-017] - ASHTABULA CO. METRO PARKS LAKE #2 (Ashtabula), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH45 21-303] - ATOMIC ENERGY COMM. LAKE #1 (Pike), 14 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH45 21-304] - ATOMIC ENERGY COMM. LAKE #2 (Pike), 17 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH81 18-344] - ATTICA RESERVOIR (Seneca), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH12 05-383] - ATWOOD RESERVOIR (Tuscarawas), 1540 acres																			
1988	t(bpj)	ne	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1990	t(bpj)	ne	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	fu(m)		U	T	T	T

Appendix H. Summary of LCI parameters for Ohio's 446 public lakes. See text for explanation of parameters.

Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
1992	t(m)	ne	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	fu(m)		U	T	T	T
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	fu(m)	fu(m)	t-e(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	21.43	F	T	T	T
[OH87 04-088] - BALDWIN LAKE (Cuyahoga), 32 acres																			
1988	t(bpj)	ne	fu(bpj)	fu(m)	ne	ne	ne	t-e(m)	ne	ne	ne	ne	ne	i(bpj)		U	T	U	T
1990	t(bpj)	i(bpj)	fu(bpj)	t(m)	ne	ne	ne	t-e(m)	ne	ne	ne	ne	ne	i(bpj)		U	U	P	P
[OH90 19-095] - BALDWIN RESERVOIR (Cuyahoga), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH82 01-337] - BALLVILLE RESERVOIR (Sandusky), 89 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH10 28-367] - BARBERTON RESERVOIR (WOLF CR. RESV.) (Summit), 196 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	fu(m)	ne	ne	t(m)		U	U	U	U
[OH07 36-036] - BARNESVILLE RESERVOIR #1 (Belmont), 35 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH07 36-037] - BARNESVILLE RESERVOIR #2 (Belmont), 11 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH07 44-035] - BARNESVILLE RESERVOIR #3 (Belmont), 43 acres																			
1988	fu(m)	ne	ne	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	ne	ne	fu(m)	ne		U	P	P	U
1992	fu(m)	ne	ne	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	ne	ne	fu(m)	ne		U	P	P	P
1996	fu(m)	fu(m)	fu(m)	fu(m)	t(m)	ne	fu(m)	fu(m)	ne	fu(m)	t(m)	fu(m)	fu(m)	fu(bpj)	16.67	U	T	T	F
[OH53 -418] - BATAVIA WATER SUPPLY RESERVOIR (Clermont), 14 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH13 01-384] - BEACH CITY LAKE (Tuscarawas), 420 acres																			
1988	t(bpj)	ne	fu(bpj)	t(bpj)	t(bpj)	ne	ne	t-e(m)	ne	t-h(m)	ne	ne	ne	fu(m)		U	U	U	T
[OH82 02-342] - BEAVER CREEK RESERVOIR (Seneca), 110 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1992	fu(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	t(bpj)	fu(m)	fu(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	ne	14.17	U	T	T	F
[OH02 05-078] - BEAVER LAKE (Columbiana), 103 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH84 25-194] - BELLEVUE RESERVOIR #1,#2 (Huron), 14 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH84 25-193] - BELLEVUE RESERVOIR #3 (Huron), 14 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH83 03-192] - BELLEVUE RESERVOIR #4 (Huron), 31 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	ne		U	U	U	U

Appendix H. Summary of LCI parameters for Ohio's 446 public lakes. See text for explanation of parameters.

Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
[OH84 12-201] - BELLEVUE RESERVOIR #5 (Huron), 87 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	t(bpj)	fu(bpj)	fu(m)	fu(m)	ne	fu(m)	fu(m)	ne	fu(m)	fu(m)	ne	fu(m)	ne		U	F	T	T
[OH06 19-030] - BELMONT LAKE (Belmont), 117 acres																			
1988	t(m)	ne	fu(bpj)	t(m)	ne	ne	ne	t-h(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	U	P
1992	t(m)	ne	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
[OH84 24-110] - BERLIN HEIGHTS RESERVOIR (Erie), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH01 24-307] - BERLIN RESERVOIR (Portage), 3590 acres																			
1988	ne	ne	t(bpj)	t(bpj)	fu(m)	ne	t(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1990	t(m)	fu(bpj)	fu(bpj)	t(m)	fu(m)	t(bpj)	fu(m)	t-e(m)	fu(m)	t-h(m)	ne	fu(m)	fu(m)	fu(m)		F	T	P	T
1992	t(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	t(bpj)	fu(m)	t-e(m)	fu(m)	t-h(m)	ne	fu(m)	fu(m)	fu(m)	30.00	F	T	P	T
[OH53 31-060] - BETHEL RESERVOIR (Clermont), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH53 25-419] - BETHEL UPGROUND RESERVOIR #2 (Clermont), 6 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH07 24-032] - BETHESDA RESERVOIR (Belmont), 13 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH34 13-420] - BIG ISLAND WILDLIFE AREA UPGR. RESERVOIR (Marion), 382 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH52 04-061] - BLANCHESTER RESERVOIR #1 (Clinton), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH52 04-062] - BLANCHESTER RESERVOIR #2 (Clinton), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH52 04-063] - BLANCHESTER RESERVOIR #3 (Clinton), 11 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH52 04-064] - BLANCHESTER RESERVOIR #4 (Clinton), 11 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH52 04-065] - BLANCHESTER RESERVOIR #5 (Clinton), 18 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH36 02-421] - BLUE LIMESTONE PARK QUARRY LAKE (Delaware), 7 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH23 02-270] - BLUE ROCK STATE PARK LAKE (CUTLER LAKE) (Muskingum), 18 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1988	t(m)	ne	t(bpj)	fu(m)	ne	ne	ne	t-e(m)	ne	t(bpj)	ne	ne	fu(m)	t(bpj)		U	T	U	T
1992	t(m)	ne	t(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t(bpj)	ne	ne	fu(m)	t(bpj)		U	T	T	T

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Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
[OH77 10-422] - BOWLING GREEN GOLF COURSE LAKE (Wood), 7 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH77 10-423] - BOWLING GREEN UPGROUND RESERVOIR (Wood), 21 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	ne	fu(bpj)	fu(m)	fu(m)	fu(m)	fu(m)	fu(m)	ne	t-e(m)	fu(m)	fu(m)	fu(bpj)	fu(bpj)	16.67	U	F	T	T
[OH88 08-313] - BRADY LAKE (Portage), 70 acres																			
1988	t(m)	ne	t(bpj)	t(bpj)	ne	ne	ne	t-h(m)	ne	t(bpj)	ne	ne	fu(m)	fu(bpj)		U	P	U	P
1992	t(m)	ne	t(bpj)	t(bpj)	t(m)	ne	ne	t-h(m)	ne	t(bpj)	ne	ne	fu(m)	fu(bpj)		U	P	U	P
[OH70 13-004] - BRESLER RESERVOIR (Allen), 582 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	t(bpj)	ne	ne	ne	ne	ne	t(bpj)		U	T	U	T
1992	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	t(bpj)	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	t(bpj)	fu(m)	t-e(m)	fu(m)	t-e(m)	ne	fu(m)	fu(m)	t(bpj)	25.00	F	T	T	T
[OH22 59-212] - BUCKEYE LAKE (Licking), 3136 acres																			
1988	ne	ne	t(bpj)	t(m)	fu(m)	ne	i(m)	t-h(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	I	I	P
1990	t(m)	t(bpj)	fu(bpj)	t(m)	fu(m)	fu(bpj)	fu(m)	t-h(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)	28.57	F	P	T	P
[OH80 17-083] - BUCYRUS RESERVOIR #1 (Crawford), 36 acres																			
1988	ne	ne	t(bpj)	t(bpj)	ne	ne	ne	t(bpj)	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	fu(m)	t(m)	t-h(m)	ne	t-e(m)	fu(m)	ne	fu(m)	t(bpj)	28.33	U	P	T	P
[OH80 17-086] - BUCYRUS RESERVOIR #2 (Crawford), 31 acres																			
1988	ne	ne	t(bpj)	t(bpj)	ne	ne	ne	t(bpj)	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	fu(m)	t(m)	t-h(m)	ne	t-e(m)	t(m)	ne	fu(m)	fu(bpj)	30.83	U	P	P	P
[OH80 20-084] - BUCYRUS RESERVOIR #3 (RILEY RES.) (Crawford), 28 acres																			
1988	ne	ne	t(bpj)	t(bpj)	ne	ne	ne	t(bpj)	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH80 17-087] - BUCYRUS RESERVOIR #4 (Crawford), 150 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	fu(m)	t(bpj)	fu(bpj)	fu(m)	t(m)	ne	t(m)	fu(m)	ne	t-e(m)	fu(m)	ne	fu(m)	fu(bpj)		U	T	T	T
[OH02 05-236] - BURGESS LAKE (Mahoning), 20 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH26 20-023] - BURR OAK LAKE (T. JENKINS RESV.) (Athens), 664 acres																			
1988	fu(bpj)	ne	t(bpj)	fu(bpj)	fu(m)	ne	fu(m)	ne	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1992	fu(bpj)	ne	t(bpj)	fu(bpj)	t(m)	ne	fu(m)	ne	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
[OH58 18-055] - C. J. BROWN LAKE (Clark), 2120 acres																			
1988	fu(bpj)	ne	t(bpj)	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	T	P
1992	t(m)	ne	t(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	T	P
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	t(m)	fu(m)	t-e(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	t(bpj)	25.00	F	T	T	T
[OH51 01-393] - CAESAR CREEK RESERVOIR (Warren), 2830 acres																			
1988	fu(bpj)	ne	fu(bpj)	fu(m)	fu(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	P	T

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Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
1992	fu(bpj)	ne	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	P	T
1996	fu(bpj)	ne	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	P	T
[OH09 34-278] - CALDWELL LAKE (Noble), 51 acres																			
1988	fu(bpj)	ne	fu(bpj)	fu(m)	fu(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	U	U	U
[OH86 16-424] - CALEY WOODS WILDLIFE LAKE (Lorain), 9 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH21 43-158] - CAMBRIDGE RESERVOIR (Guernsey), 26 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	ne	fu(bpj)	fu(m)	i(m)	ne	fu(m)	t-e(m)	ne	ne	i(m)	fu(m)	fu(m)	fu(bpj)		U	I	I	T
[OH85 08-215] - CAMDEN RESERVOIR (Lorain), 9 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH56 02-261] - CARRIAGE HILL RESERVE LAKE (Montgomery), 14 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH32 36-146] - CARTER LAKE (WAYNE NAT'L FOREST LAKE) (Gallia), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH50 12-157] - CEDARVILLE COLLEGE LAKE (Greene), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH50 12-155] - CEDARVILLE RESERVOIR (Greene), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	fu(bpj)	fu(bpj)	t(m)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	t(m)	fu(m)	fu(m)	fu(bpj)	23.33	U	T	T	T
[OH84 19-082] - CELERYVILLE RESERVOIR (Crawford), 75 acres																			
1988	ne	ne	t(bpj)	fu(bpj)	ne	t(bpj)	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH16 21-013] - CHARLES MILL LAKE (Ashland), 1350 acres																			
1988	t(bpj)	ne	t(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	P	P
1992	t(m)	fu(bpj)	fu(bpj)	i(m)	t(m)	t(bpj)	fu(m)	t-h(m)	ne	t-e(m)	fu(m)	t(m)	fu(m)	t(bpj)		U	P	T	P
1996	t(m)	fu(bpj)	fu(bpj)	i(m)	t(m)	t(bpj)	fu(m)	t-h(m)	fu(m)	t-e(m)	fu(m)	t(m)	fu(m)	t(bpj)	35.71	F	P	T	P
[OH10 24-243] - CHIPPEWA CR. STRUCTURE 2-A (Medina), 12 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH10 22-244] - CHIPPEWA CR. STRUCTURE 3-A (Medina), 20 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH10 -425] - CHIPPEWA CR. STRUCTURE 5-C (Wayne), 9 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH10 13-426] - CHIPPEWA CR. STRUCTURE 5-D (Wayne), 7 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH10 19-398] - CHIPPEWA CR. STRUCTURE 7-C (Wayne), 34 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U

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[OH54 01-163] - CINCINNATI WATERWORKS LAKE #1 (Hamilton), 18 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH54 01-164] - CINCINNATI WATERWORKS LAKE #2 (Hamilton), 19 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH17 10-014] - CINNAMON LAKE (Ashland), 131 acres																			
1988	ne	ne	t(bpj)	t(bpj)	ne	ne	ne	t(bpj)	ne	ne	ne	ne	ne	x		U	U	U	T
1992	fu(m)	ne	t(bpj)	t(bpj)	ne	ne	ne	t(bpj)	ne	ne	ne	ne	ne	t(bpj)		U	U	U	T
[OH17 23-010] - CITY OF ASHLAND LAKE (Ashland), 6 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	fu(bpj)		U	U	U	U
[OH58 01-258] - CITY OF DAYTON LAKE #1 (Montgomery), 10 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	28.33	U	P	P	P
[OH01 20-373] - CITY OF NEWTON FALLS LAKE (Trumbull), 13 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH76 20-404] - CITY OF PERRYSBURG LAKE (Wood), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH30 18-205] - CITY OF WELLSTON LAKE (Jackson), 11 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	fu(bpj)		U	U	U	U
[OH58 17-054] - CLARK LAKE (Clark), 100 acres																			
1988	fu(bpj)	ne	t(bpj)	fu(m)	fu(m)	ne	fu(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	F	T
1992	fu(bpj)	ne	t(bpj)	fu(m)	t(m)	ne	fu(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1996	fu(bpj)	fu(bpj)	t(bpj)	fu(m)	t(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	ne	fu(m)	fu(m)	t(bpj)	15.00	F	T	T	T
[OH16 15-328] - CLEAR FORK RESERVOIR (Richland), 1010 acres																			
1988	t(bpj)	ne	fu(bpj)	fu(bpj)	ne	ne	t(m)	ne	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1992	t(m)	ne	fu(bpj)	fu(bpj)	ne	ne	t(m)	ne	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	fu(m)	ne	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	ne	fu(m)	fu(bpj)	16.67	F	T	F	T
[OH14 20-182] - CLENDENING LAKE (Harrison), 1800 acres																			
1988	t(bpj)	ne	fu(bpj)	fu(bpj)	fu(m)	ne	fu(m)	ne	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1992	t(bpj)	ne	fu(bpj)	fu(bpj)	fu(m)	ne	fu(m)	ne	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1996	t(bpj)	fu(bpj)	fu(bpj)	fu(bpj)	fu(m)	ne	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	fu(m)	t(bpj)	14.17	F	T	T	T
[OH52 -427] - CLINTON COUNTY DAM #1 (Clinton), 10 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 21-292] - CLOUSE POND (CLOUSE LAKE) (Perry), 42 acres																			
1988	t(m)	ne	t(bpj)	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	t(m)	fu(m)	t(bpj)		U	P	T	P
1992	t(m)	ne	t(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	t(m)	fu(m)	t(bpj)		U	P	T	P
[OH87 05-090] - COE LAKE (Cuyahoga), 23 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U

Appendix H. Summary of LCI parameters for Ohio's 446 public lakes. See text for explanation of parameters.

Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
1994	t(m)	t(bpj)	t(bpj)	t(m)	t(m)	fu(m)	fu(m)	t-e(m)	ne	fu(m)	t(m)	ne	fu(m)	t(bpj)	29.17	U	T	T	P
[OH25 15-122] - COLFAX LAKE (RCCD STRUCTURE 7-A) (Fairfield), 22 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH61 30-322] - COLLEGE CORNER RESERVOIR (Preble), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH26 23-296] - CORNING RESERVOIR (Perry), 16 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH52 11-066] - COWAN LAKE (Clinton), 688 acres																			
1988	t(bpj)	ne	t(bpj)	fu(bpj)	fu(m)	t(bpj)	fu(m)	ne	ne	t-h(m)	ne	t(m)	fu(m)	t(bpj)		U	T	P	T
1992	t(m)	ne	t(bpj)	fu(bpj)	t(m)	t(bpj)	fu(m)	t-e(m)	ne	t-h(m)	ne	t(m)	fu(m)	t(bpj)		U	P	P	T
1996	t(m)	ne	t(bpj)	fu(bpj)	t(m)	t(bpj)	fu(m)	t-e(m)	fu(m)	t-h(m)	ne	t(m)	fu(m)	t(bpj)	33.33	F	P	P	T
[OH23 44-263] - CROOKSVILLE LOWER RESERVOIR #1 (Morgan), 8 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH23 45-286] - CROOKSVILLE RESERVOIR #3 (Perry), 15 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH23 44-264] - CROOKSVILLE UPPER RESERVOIR #2 (Morgan), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH01 14-311] - CRYSTAL LAKE (Portage), 25 acres																			
1988	fu(m)	ne	t(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	T
1992	fu(m)	ne	t(bpj)	fu(bpj)	ne	ne	ne	fu(m)	ne	fu(m)	ne	ne	ne	t(bpj)		U	U	U	T
1996	fu(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	ne	fu(m)	fu(m)	ne	fu(m)	i(m)	ne	fu(m)	t(bpj)		U	T	I	I
[OH01 29-349] - DALE WALBURN RESERVOIR (Stark), 670 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	t(m)	ne	ne	ne	ne	ne	ne	ne	ne	t-e(m)	ne	ne	ne	ne		U	U	U	U
1996	t(m)	ne	ne	ne	ne	ne	ne	ne	fu(m)	t-e(m)	ne	ne	ne	ne		F	U	U	U
[OH41 16-297] - DEER CREEK CAMPGROUND LAKE (Pickaway), 8 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH41 15-298] - DEER CREEK LAKE (Pickaway), 1277 acres																			
1988	t(bpj)	ne	fu(bpj)	t(bpj)	t(m)	ne	t(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	P	T
1992	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	fu(m)	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	fu(m)	fu(m)	t-e(m)	fu(m)	t-e(m)	ne	fu(m)	fu(m)	t(bpj)	23.08	F	T	T	T
[OH01 29-348] - DEER CREEK RESERVOIR (Stark), 313 acres																			
1988	t(m)	ne	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	T	P
1996	t(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	fu(m)	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	24.61	U	T	T	T
[OH71 19-417] - DEFIANCE POWER DAM RESERVOIR (Delaware), 679 acres																			
1992	t(m)	t(bpj)	fu(m)	t(m)	t(m)	t(bpj)	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	t(m)	fu(m)	fu(m)	30.00	U	T	T	P

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																FC	PWS	EWH	REC
[OH36 01-103] - DELAWARE LAKE (Delaware), 1300 acres																			
1988	t(bpj)	ne	fu(bpj)	t(bpj)	ne	ne	ne	fu(m)	ne	t-h(m)	ne	ne	ne	t(m)		U	U	U	T
1990	t(bpj)	ne	fu(bpj)	t(bpj)	ne	ne	ne	fu(m)	ne	t-h(m)	fu(m)	ne	ne	t(m)		U	U	U	T
1992	t(m)	ne	fu(bpj)	t(bpj)	ne	ne	ne	t-e(m)	ne	t-h(m)	fu(m)	ne	ne	t(m)		U	U	U	T
1996	t(m)	ne	fu(bpj)	t(bpj)	ne	ne	ne	t-e(m)	fu(m)	t-h(m)	fu(m)	ne	ne	t(m)		F	U	U	T
[OH37 15-428] - DELCO UPGROUND RESERVOIR #2 (Delaware), 31 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH37 15-107] - DELCO WATER COMPANY LAKE (Delaware), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1988	t(m)	fu(bpj)	fu(bpj)	fu(m)	fu(m)	ne	t(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(bpj)		U	T	T	T
[OH73 02-144] - DELTA POND (Fulton), 11 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH73 02-142] - DELTA RESERVOIR (Fulton), 39 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH73 02-145] - DELTA RESERVOIR #2 (Fulton), 50 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1994	fu(m)	t(bpj)	fu(bpj)	fu(m)	t(m)	fu(m)	fu(m)	fu(m)	ne	fu(m)	fu(m)	ne	fu(m)	fu(bpj)		U	T	T	T
[OH74 08-184] - DESHLER RESERVOIR (Henry), 23 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH22 05-272] - DILLON RESERVOIR (Muskingum), 1325 acres																			
1988	t(bpj)	ne	t(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	P	P
1990	t(bpj)	ne	t(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	fu(m)	fu(m)	fu(m)	t(m)		U	P	P	P
1992	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	t(bpj)	t-e(m)	t-h(m)	ne	t-h(m)	fu(m)	fu(m)	fu(m)	t(m)		U	P	P	P
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	t(bpj)	t-e(m)	t-h(m)	fu(m)	t-h(m)	fu(m)	fu(m)	fu(m)	t(m)	35.00	F	P	P	P
[OH27 49-021] - DOW LAKE (Athens), 161 acres																			
1988	fu(bpj)	ne	t(bpj)	fu(m)	fu(m)	ne	t(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	ne		U	T	T	T
1990	fu(m)	t(bpj)	t(bpj)	fu(m)	fu(m)	fu(bpj)	fu(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	t(m)		U	T	T	T
1992	fu(m)	t(bpj)	t(bpj)	fu(m)	t(m)	fu(bpj)	fu(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	t(m)	20.77	U	T	T	T
[OH77 10-429] - DUGOUT POND (ODOT) (Wood), 9 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH88 18-152] - EAST BRANCH RESERVOIR (Geauga), 416 acres																			
1988	t(bpj)	ne	t(bpj)	t(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	P
1990	t(bpj)	ne	t(bpj)	t(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)		U	T	T	P
1992	t(bpj)	fu(bpj)	t(bpj)	t(bpj)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)	25.83	U	T	T	P
[OH58 19-430] - EAST FORK BUCK CREEK STRUCTURE 1-B (Champaign), 6 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U

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[OH58 19-431] - EAST FORK BUCK CREEK STRUCTURE 4-A (Champaign), 22 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH53 20-058] - EAST FORK LAKE (HARSA LAKE) (Clermont), 2160 acres																			
1988	t(bpj)	ne	t(bpj)	t(m)	fu(m)	t(bpj)	t(m)	t-h(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	P	P
1992	t(bpj)	ne	t(bpj)	t(m)	t(m)	t(bpj)	t(m)	t-h(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	P	P
1996	fu(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	fu(m)	fu(m)	t-e(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	fu(bpj)		F	T	T	T
[OH04 08-072] - EAST PALESTINE RESERVOIR (Columbiana), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH10 33-359] - EAST RESERVOIR (Summit), 201 acres																			
1988	ne	ne	ne	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	ne		U	P	T	U
1990	t(m)	ne	ne	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	ne		U	P	T	P
1992	t(m)	ne	ne	t(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	ne		U	T	T	T
1996	t(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	i(m)	fu(m)	fu(m)	fu(bpj)	35.83	U	P	I	I
[OH58 01-257] - EASTWOOD LAKE (Montgomery), 170 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	t(m)	t(bpj)	fu(bpj)	fu(m)	fu(m)	fu(bpj)	fu(m)	t-h(m)	ne	t-e(m)	ne	ne	fu(m)	fu(bpj)		U	P	T	P
1992	t(m)	t(bpj)	fu(bpj)	fu(m)	fu(m)	fu(bpj)	fu(m)	t-h(m)	fu(m)	t-e(m)	ne	ne	fu(m)	fu(bpj)	25.00	F	P	T	P
[OH56 12-252] - ECHO LAKE (Miami), 15 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	t(bpj)	fu(bpj)	fu(m)	t(m)	t(m)	fu(m)	t-e(m)	ne	t-e(m)	t(m)	fu(m)	fu(m)	t(bpj)	30.00	U	T	P	P
[OH62 32-162] - EDEN PARK POND (Hamilton), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH23 45-285] - ESSINGTON LAKE (Perry), 16 acres																			
1988	fu(m)	ne	ne	fu(m)	i(m)	ne	i(m)	fu(m)	ne	ne	ne	ne	i(m)	ne		U	I	I	U
[OH02 05-239] - EVANS LAKE (Mahoning), 566 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	fu(bpj)		U	U	U	U
1996	fu(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	16.67	U	T	T	T
[OH75 09-226] - EVERGREEN LAKE (Lucas), 9 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	23.33	U	T	T	T
[OH90 20-094] - FAIRMOUNT RESERVOIR (Cuyahoga), 8 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH43 48-188] - FALLSVILLE WILDLIFE AREA LAKE (Highland), 11 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH68 18-005] - FERGUSON RESERVOIR (Allen), 305 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	t(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	T

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																FC	PWS	EWH	REC
[OH66 13-170] - FINDLAY RESERVOIR #1 (Hancock), 186 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH66 13-171] - FINDLAY RESERVOIR #2 (Hancock), 650 acres																			
1988	fu(bpj)	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	T
1996	fu(bpj)	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	fu(m)	t(bpj)	ne	ne	ne	t(bpj)		F	U	U	T
[OH86 16-217] - FINDLEY LAKE (Lorain), 83 acres																			
1988	ne	ne	t(bpj)	t(m)	fu(m)	t(bpj)	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	T	P
1990	t(m)	t(bpj)	t(bpj)	i(m)	t(m)	fu(bpj)	fu(m)	t-h(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	T	I
1992	t(m)	t(bpj)	t(bpj)	i(m)	t(m)	fu(bpj)	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)	33.33	U	P	T	I
[OH10 33-354] - FIRESTONE RESERVOIR (Summit), 83 acres																			
1988	t(m)	ne	ne	t(m)	fu(m)	ne	ne	t-h(m)	ne	ne	ne	ne	ne	ne		U	U	U	U
1992	t(m)	ne	ne	t(m)	t(m)	ne	ne	t-h(m)	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH28 63-248] - FORKED RUN LAKE (Meigs), 104 acres																			
1988	fu(bpj)	ne	fu(bpj)	fu(bpj)	ne	ne	t(m)	ne	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	U	T
1990	fu(bpj)	ne	fu(bpj)	fu(bpj)	ne	ne	t(m)	ne	ne	fu(m)	fu(m)	fu(m)	fu(m)	fu(m)		U	T	T	F
1992	fu(bpj)	ne	fu(bpj)	fu(bpj)	t(m)	ne	t(m)	fu(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(m)		U	T	T	F
1996	fu(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	fu(m)	ne	fu(m)	t(m)	fu(m)	fu(m)	t(bpj)	17.50	U	T	T	T
[OH64 18-029] - FORTY ACRE POND (Auglaize), 70 acres																			
1988	ne	ne	fu(bpj)	t(m)	ne	ne	ne	t-h(m)	ne	ne	ne	ne	fu(m)	t(bpj)		U	P	U	P
[OH77 08-177] - FOSTORIA RESERVOIR #1 (LAKE DAUGHTERY) (Hancock), 12 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH77 08-178] - FOSTORIA RESERVOIR #2 (LAKE MOTRAM) (Hancock), 18 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH77 08-176] - FOSTORIA RESERVOIR #3 (LAKE LAMBERJACK) (Hancock), 45 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH77 08-175] - FOSTORIA RESERVOIR #4 (LAKE MOSIER) (Hancock), 88 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH77 08-174] - FOSTORIA RESERVOIR #5 (LAKE LaCOMTE) (Hancock), 128 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
1992	t(m)	fu(bpj)	fu(bpj)	fu(bpj)	fu(m)	fu(bpj)	fu(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	F	T
[OH77 -432] - FOSTORIA RESERVOIR #6 (VETS MEM RESV.) (Hancock), 161 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH26 05-027] - FOX LAKE (MARGARET CR. CONS. DIST. #6) (Athens), 48 acres																			
1988	fu(m)	ne	t(bpj)	fu(m)	fu(m)	ne	t(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1992	fu(m)	ne	t(bpj)	fu(m)	t(m)	ne	t(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	T	T
[OH56 12-253] - FRANZ POND (Miami), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U

Appendix H. Summary of LCI parameters for Ohio's 446 public lakes. See text for explanation of parameters.

Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
[OH05 08-207] - FRIENDSHIP PARK LAKE (Jefferson), 85 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1992	fu(m)	ne	fu(m)	fu(m)	fu(m)	ne	fu(m)	fu(m)	ne	fu(m)	ne	ne	i(m)	ne		U	I	I	F
[OH75 11-138] - FULTON POND (Fulton), 15 acres																			
1988	ne	ne	t(bpj)	t(bpj)	ne	t(bpj)	ne	t(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH49 48-042] - GEORGETOWN VILLAGE RESERVOIR (Brown), 12 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH02 22-380] - GIRARD LAKE (Trumbull), 185 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH86 05-221] - GRAFTON UPGROUND RESERVOIR (Lorain), 10 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1994	t(m)	t(bpj)	t(bpj)	t(m)	t(m)	fu(m)	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	ne	fu(m)	fu(bpj)		U	T	T	T
[OH63 14-028] - GRAND LAKE ST. MARYS (Auglaize), 12700 acres																			
1988	t(bpj)	ne	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	P	P
1994	t(m)	t(bpj)	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(bpj)		U	P	T	P
1996	t(m)	t(bpj)	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)	33.08	F	P	T	P
[OH91 29-375] - GRAND RIVER WILDLIFE AREA LAKE (Trumbull), 11 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	fu(bpj)	i(bpj)	t(bpj)	t(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(bpj)	32.50	U	P	T	P
[OH90 02-450] - GRANGER POND (Lake), 30 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH49 55-039] - GRANT LAKE (Brown), 181 acres																			
1988	t(bpj)	ne	fu(bpj)	t(m)	ne	ne	ne	t-h(m)	ne	ne	ne	ne	ne	t(bpj)		U	P	U	P
1990	t(bpj)	ne	fu(bpj)	t(m)	ne	ne	ne	t-h(m)	ne	ne	fu(m)	ne	ne	t(m)		U	P	U	P
1996	t(bpj)	ne	fu(bpj)	t(m)	ne	ne	ne	t-h(m)	fu(m)	ne	fu(m)	ne	ne	t(m)		F	P	U	P
[OH50 06-156] - GREENE CO. PARKS LAKE (FISH POND #2) (Greene), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 26-112] - GREENFIELD LAKE (HUNTERS RUN #R-63) (Fairfield), 14 acres																			
1994	t(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(bpj)		U	T	T	T
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH85 14-191] - GREENWICH RESERVOIR (Huron), 7 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH04 34-074] - GUILFORD LAKE (Columbiana), 396 acres																			
1988	ne	ne	t(bpj)	t(m)	fu(m)	ne	t(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	T	P
1990	t(m)	fu(bpj)	t(bpj)	t(m)	fu(m)	fu(bpj)	fu(m)	t-h(m)	ne	t-e(m)	fu(m)	t(m)	fu(m)	fu(m)		U	P	T	P
1992	t(m)	fu(bpj)	t(bpj)	t(m)	t(m)	fu(bpj)	fu(m)	t-h(m)	ne	t-e(m)	fu(m)	t(m)	fu(m)	fu(m)		U	P	T	P
1996	t(m)	fu(bpj)	t(bpj)	t(m)	t(m)	fu(m)	fu(m)	t-e(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	fu(m)	25.00	F	T	T	T

Appendix H. Summary of LCI parameters for Ohio's 446 public lakes. See text for explanation of parameters.

Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
[OH44 17-203] - HAMMERTOWN LAKE (JACKSON CITY RESERVOIR) (Jackson), 186 acres																			
1988	fu(bpj)	ne	ne	fu(m)	fu(m)	ne	t(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	ne		U	T	T	F
1992	fu(bpj)	ne	ne	fu(m)	t(m)	ne	t(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	ne		U	T	T	F
[OH41 39-299] - HARGUS LAKE (Pickaway), 130 acres																			
1988	fu(bpj)	ne	fu(bpj)	fu(m)	fu(m)	ne	t(m)	fu(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1990	fu(bpj)	ne	fu(bpj)	fu(m)	fu(m)	ne	t(m)	fu(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(m)		U	T	T	F
1992	fu(bpj)	fu(bpj)	fu(bpj)	fu(m)	fu(m)	ne	t(m)	fu(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(m)	16.67	U	T	T	F
[OH90 10-305] - HARMON'S POND (SUNNY LAKE) (Portage), 63 acres																			
1988	ne	ne	t(bpj)	t(m)	ne	ne	ne	t-h(m)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	P
1990	t(m)	ne	t(bpj)	t(m)	ne	ne	ne	t-h(m)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	P
[OH90 10-305] - HARMONS POND (SUNNY LAKE) (Portage), 63 acres																			
1996	t(m)	i(bpj)	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	34.17	U	P	P	P
[OH72 29-141] - HARRISON LAKE (Fulton), 96 acres																			
1988	t(m)	ne	t(bpj)	t(bpj)	t(m)	t(bpj)	i(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	I	I	P
1990	t(m)	ne	t(bpj)	t(bpj)	t(m)	t(bpj)	i(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(m)		U	I	I	P
1996	t(m)	ne	t(bpj)	t(bpj)	t(m)	t(bpj)	i(m)	t-e(m)	fu(m)	t-h(m)	ne	fu(m)	fu(m)	t(m)	40.83	F	I	I	P
[OH22 59-213] - HEBRON FISH HATCHERY LAKE (Licking), 75 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH78 05-335] - HELENA LAKE (Sandusky), 15 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH01 16-318] - HICKORY LAKE (Portage), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH05 84-075] - HIGHLANDTOWN LAKE (Columbiana), 170 acres																			
1988	fu(bpj)	ne	t(bpj)	t(m)	fu(m)	ne	fu(m)	t-h(m)	fu(m)	fu(m)	ne	fu(m)	fu(m)	t(bpj)		F	P	F	P
1992	fu(bpj)	fu(bpj)	t(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	fu(m)	fu(m)	ne	fu(m)	fu(m)	t(bpj)	25.83	F	P	T	P
[OH05 85-076] - HIGHLANDTOWN WILDLIFE AREA POND (Columbiana), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH43 49-187] - HILLSBORO RESERVOIR (Highland), 22 acres																			
1988	ne	ne	t(bpj)	t(bpj)	ne	t(bpj)	ne	t(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	T	U	T
1990	t(m)	t(bpj)	fu(bpj)	t(m)	fu(m)	fu(bpj)	t(m)	t-e(m)	ne	fu(m)	ne	ne	fu(m)	fu(bpj)		U	T	T	T
1992	t(m)	t(bpj)	fu(bpj)	t(m)	t(m)	fu(bpj)	t(m)	t-e(m)	ne	fu(m)	ne	ne	fu(m)	fu(bpj)		U	T	T	T
[OH43 49-433] - HILLSBORO UPGROUND RESERVOIR (Highland), 20 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH87 04-246] - HINCKLEY LAKE (Medina), 88 acres																			
1988	ne	ne	fu(bpj)	t(m)	ne	t(bpj)	ne	t-e(m)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	T	U	T
1990	t(m)	i(bpj)	fu(bpj)	t(m)	fu(m)	fu(m)	fu(m)	t-e(m)	ne	fu(m)	fu(m)	ne	fu(m)	t(bpj)	24.17	U	T	P	P

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																FC	PWS	EWH	REC
[OH44 30-189] - HOCKING HILLS RESERVOIR (Hocking), 21 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH38 22-131] - HOOVER RESERVOIR (Franklin), 3000 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	fu(m)	ne	t(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	P	T
1990	t(m)	ne	fu(bpj)	t(bpj)	fu(m)	ne	t(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(bpj)		U	T	T	T
1992	t(m)	ne	fu(bpj)	t(bpj)	t(m)	ne	t(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(bpj)		U	P	T	P
1996	t(m)	ne	fu(bpj)	t(bpj)	t(m)	ne	t(m)	t-e(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	t(bpj)	28.33	F	P	T	P
[OH58 11-056] - HOSTERMAN LAKE (Clark), 9 acres																			
1988	t(m)	ne	ne	t(m)	fu(m)	ne	ne	t-h(m)	ne	ne	ne	ne	fu(m)	ne		U	U	U	U
[OH10 33-357] - HOWER LAKE (Summit), 23 acres																			
1992	fu(m)	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 27-116] - HRCD STRUCTURE 1 (Fairfield), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 27-117] - HRCD STRUCTURE 2 (Fairfield), 9 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 26-114] - HRCD STRUCTURE 5 (Fairfield), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 26-115] - HRCD STRUCTURE 8 (Fairfield), 8 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 27-111] - HRCD STRUCTURE 9 (ROCK MILL LAKE) (Fairfield), 20 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	t(bpj)	t(bpj)	t(m)	fu(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	t(m)	fu(m)	t(bpj)	29.17	U	P	T	P
[OH25 27-118] - HRCD STRUCTURE R-21 (Fairfield), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH89 09-371] - HUDSON SPRINGS LAKE (Summit), 45 acres																			
1992	t(m)	ne	t(bpj)	t(bpj)	ne	ne	ne	t-e(m)	ne	t-e(m)	ne	ne	ne	t(bpj)		U	U	U	T
[OH58 05-154] - HUFFMAN POND (MIAMI CONS. DIST. LAKE) (Greene), 43 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	fu(bpj)	t(bpj)	t(m)	t(m)	t(m)	fu(m)	t-h(m)	ne	t-h(m)	fu(m)	fu(m)	fu(m)	t(bpj)		U	P	P	P
[OH73 26-100] - INDEPENDENCE DAM RESERVOIR (Defiance), 605 acres																			
1990	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	fu(m)		U	U	U	U
[OH53 50-038] - INDIAN CREEK WILDLIFE AREA PONDS (Brown), 56 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH55 40-214] - INDIAN LAKE (Logan), 5104 acres																			
1988	ne	ne	t(bpj)	i(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	P	I
1990	t(m)	t(bpj)	t(bpj)	i(m)	t(m)	fu(m)	fu(m)	t-h(m)	fu(m)	t-h(m)	fu(m)	fu(m)	fu(m)	t(m)		F	P	P	I
1994	t(m)	fu(bpj)	fu(bpj)	i(m)	fu(m)	fu(m)	fu(m)	t-h(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)	39.29	F	P	T	I

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																FC	PWS	EWH	REC
[OH05 84-434] - ISMOND POND (Columbiana), 8 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH37 19-132] - J. GRIGGS RESERVOIR (Franklin), 385 acres																			
1990	t(bpj)	ne	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	fu(bpj)		U	P	T	P
1992	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	t(m)	t-e(m)	ne	t-h(m)	t(m)	fu(m)	fu(m)	fu(bpj)		U	T	P	T
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	t(m)	t-e(m)	ne	t-h(m)	t(m)	fu(m)	fu(m)	fu(bpj)	34.17	U	T	P	T
[OH32 35-202] - JACKSON LAKE (Jackson), 243 acres																			
1988	t(bpj)	ne	t(bpj)	t(bpj)	fu(m)	ne	t(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	P
1990	t(bpj)	ne	t(bpj)	t(bpj)	fu(m)	ne	t(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	t(m)		U	T	T	P
1992	t(bpj)	ne	t(bpj)	t(bpj)	fu(m)	ne	t(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	t(m)		U	P	T	P
1996	t(bpj)	ne	t(bpj)	t(bpj)	fu(m)	ne	t(m)	t-e(m)	fu(m)	fu(m)	fu(m)	fu(m)	fu(m)	t(m)	22.50	F	P	T	P
[OH05 56-206] - JEFFERSON LAKE (Jefferson), 25 acres																			
1988	fu(m)	ne	t(bpj)	t(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	ne	t(m)	fu(m)	t(bpj)		U	T	F	T
1990	fu(m)	ne	t(bpj)	t(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	t(m)	t(m)	fu(m)	t(m)		U	T	T	T
1992	fu(m)	t(bpj)	t(bpj)	t(m)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	t(m)	21.67	U	T	T	P
[OH92 23-019] - JEFFERSON RESERVOIR (LAMPSON RESERVOIR) (Ashtabula), 20 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	fu(bpj)	fu(bpj)	fu(bpj)	t(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	fu(m)	fu(m)	fu(m)	fu(bpj)		U	P	P	P
[OH44 16-416] - JISCO LAKE (Jackson), 54 acres																			
1992	fu(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	ne	ne	fu(m)	ne		F	T	T	F
[OH89 09-320] - KENT BOARD OF TRUSTEES LAKE (Portage), 10 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH79 01-406] - KILLDEER RESERVOIR (Wyandot), 253 acres																			
1992	fu(m)	fu(bpj)	fu(bpj)	fu(bpj)	fu(m)	fu(bpj)	fu(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)	10.83	U	T	F	T
[OH80 12-407] - KILLDEER WILDLIFE POND #1 (Wyandot), 9 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH79 22-408] - KILLDEER WILDLIFE POND #2 (Wyandot), 45 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH80 12-409] - KILLDEER WILDLIFE POND #3 (Wyandot), 9 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH80 12-410] - KILLDEER WILDLIFE POND #4 (Wyandot), 8 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH79 24-411] - KILLDEER WILDLIFE POND #5 (Wyandot), 18 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH80 12-412] - KILLDEER WILDLIFE POND #6 (Wyandot), 15 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U

Appendix H. Summary of LCI parameters for Ohio's 446 public lakes. See text for explanation of parameters.

Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
[OH80 11-413] - KILLDEER WILDLIFE POND #7 (Wyandot), 225 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH80 11-414] - KILLDEER WILDLIFE POND #8 (Wyandot), 373 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH80 11-415] - KILLDEER WILDLIFE POND #9 (Wyandot), 225 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH21 43-435] - KILLIANY LAKE (Guernsey), 5 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH85 08-216] - KIPTON RESERVOIR (Lorain), 20 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH56 40-052] - KISER LAKE (Champaign), 380 acres																			
1988	t(m)	ne	t(bpj)	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	T	P
1990	t(m)	fu(bpj)	fu(bpj)	fu(m)	fu(m)	fu(bpj)	fu(m)	t-h(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)	26.15	U	P	T	P
[OH18 29-208] - KNOX LAKE (Knox), 474 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	t(m)	fu(m)	t(bpj)		U	T	T	T
1990	t(m)	fu(bpj)	fu(bpj)	t(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	t(m)	fu(m)	t(m)	27.50	U	T	T	P
[OH30 17-391] - LAKE ALMA (Vinton), 63 acres																			
1988	fu(m)	ne	t(bpj)	fu(m)	fu(m)	ne	t(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1990	fu(m)	ne	t(bpj)	fu(m)	fu(m)	ne	t(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	fu(m)		U	T	T	T
1992	fu(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	ne	t(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	fu(m)	20.83	U	T	T	T
[OH10 28-351] - LAKE ANNA (Summit), 12 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH88 16-151] - LAKE AQUILLA (Geauga), 27 acres																			
1988	ne	ne	t(bpj)	t(bpj)	ne	ne	ne	t-e(m)	ne	ne	ne	ne	ne	t(bpj)		U	T	U	T
1990	fu(m)	i(bpj)	i(bpj)	i(m)	fu(m)	fu(bpj)	fu(m)	t-e(m)	ne	fu(m)	ne	ne	fu(m)	t(bpj)		U	P	P	I
1992	fu(m)	i(bpj)	i(bpj)	i(m)	t(m)	fu(bpj)	fu(m)	t-e(m)	ne	fu(m)	ne	ne	fu(m)	t(bpj)		U	P	P	I
[OH45 62-330] - LAKE CALDWELL (Ross), 10 acres																			
1988	ne	ne	ne	t(m)	ne	ne	ne	t-h(m)	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH02 12-234] - LAKE COHASSET (Mahoning), 27 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	t(m)	ne	t(m)	ne	ne	ne	ne	fu(m)	fu(m)	t(bpj)		U	T	U	T
[OH88 11-315] - LAKE GEORGE (Portage), 12 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH02 12-233] - LAKE GLACIER (Mahoning), 43 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	t(m)	ne	fu(m)	ne	ne	ne	ne	t(m)	fu(m)	t(bpj)		U	T	U	T
[OH02 05-235] - LAKE HAMILTON (Mahoning), 104 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U

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																FC	PWS	EWH	REC
[OH88 08-310] - LAKE HODGSON (Portage), 190 acres																			
1988	ne	ne	t(bpj)	t(bpj)	ne	t(bpj)	ne	fu(m)	ne	ne	ne	ne	ne	ne		U	T	U	T
1990	t(m)	ne	t(bpj)	t(bpj)	ne	t(bpj)	ne	fu(m)	ne	ne	ne	ne	ne	ne		U	T	U	T
1992	t(m)	ne	t(bpj)	fu(bpj)	ne	fu(bpj)	ne	t-e(m)	ne	t-e(m)	ne	ne	ne	t(bpj)		U	T	U	T
[OH30 56-390] - LAKE HOPE (Vinton), 127 acres																			
1988	t(bpj)	ne	t(bpj)	fu(m)	t(m)	ne	t(m)	t-e(m)	ne	fu(m)	ne	fu(m)	i(m)	t(bpj)		U	I	I	T
1990	t(bpj)	ne	t(bpj)	fu(m)	t(m)	ne	t(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	i(m)	t(m)		U	I	I	T
1992	fu(m)	t(bpj)	t(bpj)	fu(m)	t(m)	fu(bpj)	fu(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	i(m)	t(m)	27.69	U	I	I	P
[OH54 07-168] - LAKE ISABELLA (Hamilton), 23 acres																			
1988	fu(m)	ne	t(bpj)	fu(m)	ne	ne	ne	fu(m)	ne	ne	ne	ne	fu(m)	ne		U	T	U	T
[OH87 05-096] - LAKE ISSAC (Cuyahoga), 15 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH44 15-204] - LAKE KATHARINE (Jackson), 42 acres																			
1988	fu(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH65 38-399] - LAKE LA SU AN (Williams), 134 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	fu(bpj)		U	U	U	U
1992	t(m)	fu(bpj)	fu(bpj)	fu(bpj)	t(m)	fu(bpj)	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	fu(bpj)	23.33	U	T	T	T
[OH65 39-400] - LAKE LAVERE (Williams), 11 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH26 44-190] - LAKE LOGAN (HOCKING LAKE) (Hocking), 354 acres																			
1988	t(bpj)	ne	t(bpj)	t(bpj)	fu(m)	ne	fu(m)	t(bpj)	ne	t-e(m)	ne	fu(m)	fu(m)	ne		U	T	T	P
1990	t(bpj)	ne	t(bpj)	t(bpj)	fu(m)	ne	fu(m)	t(bpj)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)		U	T	T	P
1992	t(m)	fu(bpj)	t(bpj)	t(bpj)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)	28.33	U	P	T	P
[OH56 32-345] - LAKE LORAMIE (Shelby), 785 acres																			
1988	ne	ne	t(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(m)		U	P	P	P
1990	t(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	t(bpj)	fu(m)	t-h(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)		U	P	T	P
1996	t(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	t(bpj)	fu(m)	t-h(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)	33.08	F	P	P	P
[OH25 23-119] - LAKE LORETTA (Fairfield), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	ne	t(m)	fu(m)	ne	fu(m)	t(m)	ne	fu(m)	fu(bpj)		U	T	T	T
[OH87 15-240] - LAKE MEDINA (Medina), 109 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH01 22-230] - LAKE MILTON (Mahoning), 1685 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	fu(m)	ne	t(m)	t-e(m)	ne	fu(m)	ne	t(bpj)	fu(m)	fu(bpj)		U	T	T	T
1990	t(m)	fu(bpj)	fu(bpj)	fu(bpj)	fu(m)	ne	fu(m)	t-h(m)	fu(m)	t-e(m)	ne	fu(m)	fu(m)	fu(bpj)		F	P	T	P
1992	t(m)	fu(bpj)	fu(bpj)	fu(bpj)	t(m)	ne	fu(m)	t-h(m)	fu(m)	t-e(m)	ne	fu(m)	fu(m)	fu(bpj)	27.50	F	P	T	P

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																FC	PWS	EWH	REC
[OH10 33-355] - LAKE NESMITH (Summit), 80 acres																			
1988	t(m)	ne	fu(bpj)	t(m)	fu(m)	ne	ne	t-h(m)	t(m)	t-e(m)	fu(m)	ne	fu(m)	t(bpj)		P	P	T	P
1992	t(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	fu(m)	fu(m)	t-h(m)	t(m)	t-e(m)	fu(m)	ne	fu(m)	t(bpj)	33.08	P	P	T	P
[OH01 30-231] - LAKE PARK (Mahoning), 20 acres																			
1988	t(m)	ne	ne	fu(m)	i(m)	ne	ne	t-e(m)	ne	ne	ne	ne	fu(m)	ne		U	I	I	T
[OH88 11-314] - LAKE PIPPEN (Portage), 143 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	fu(m)	ne	t(bpj)	fu(m)	fu(m)	fu(bpj)	fu(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(bpj)		U	T	F	T
1992	fu(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	fu(bpj)	fu(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(bpj)	14.17	U	T	T	T
[OH88 11-308] - LAKE ROCKWELL (Portage), 539 acres																			
1988	t(m)	ne	t(bpj)	t(bpj)	fu(m)	t(bpj)	t(m)	t-h(m)	ne	t-h(m)	ne	ne	fu(m)	t(bpj)		U	P	P	P
1990	t(m)	ne	t(bpj)	t(m)	fu(m)	t(bpj)	t(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)		U	P	P	P
1992	t(m)	fu(bpj)	t(bpj)	t(m)	t(m)	t(bpj)	t(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)	33.08	U	P	P	P
[OH25 07-120] - LAKE ROMONA (Fairfield), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	t(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	fu(bpj)		U	T	T	T
[OH30 17-392] - LAKE RUPERT (Vinton), 325 acres																			
1988	fu(bpj)	ne	t(bpj)	fu(m)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	ne	t(m)	fu(m)	t(bpj)		U	T	F	T
1990	fu(bpj)	ne	t(bpj)	fu(m)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	fu(m)	t(m)	fu(m)	fu(m)		U	T	F	T
1992	fu(bpj)	ne	t(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	fu(m)	fu(m)	t(m)	fu(m)	fu(m)		U	T	T	T
1994	fu(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	fu(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	fu(m)		U	T	T	F
1996	t(m)	fu(bpj)	t(bpj)	t(m)	t(m)	ne	fu(m)	t-e(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	24.17	U	T	T	T
[OH45 62-331] - LAKE STEWART (Ross), 8 acres																			
1988	ne	ne	ne	t(m)	ne	ne	ne	t-h(m)	ne	ne	ne	ne	ne	ne		U	U	U	U
1992	ne	ne	ne	t(m)	t(m)	ne	ne	t-h(m)	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH65 39-401] - LAKE SUE (Williams), 11 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH33 81-210] - LAKE VESUVIUS (Lawrence), 105 acres																			
1988	fu(bpj)	ne	ne	ne	t(m)	ne	t(m)	ne	ne	fu(m)	ne	fu(m)	fu(m)	t(m)		U	T	T	U
1990	fu(bpj)	ne	ne	ne	t(m)	ne	t(m)	ne	ne	fu(m)	fu(m)	fu(m)	fu(m)	t(m)		U	T	T	T
[OH45 34-302] - LAKE WHITE (Pike), 337 acres																			
1988	fu(bpj)	ne	fu(bpj)	fu(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	ne		U	T	F	T
1990	fu(bpj)	ne	fu(bpj)	fu(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	t(m)	fu(m)	fu(m)	t(m)		U	T	F	T
1992	fu(bpj)	ne	fu(bpj)	fu(bpj)	t(m)	ne	fu(m)	t-e(m)	ne	fu(m)	t(m)	fu(m)	fu(m)	t(m)		U	T	T	T
1994	t(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-e(m)	fu(m)	fu(m)	i(m)	fu(m)	fu(m)	t(m)		F	T	I	I
[OH34 13-436] - LARUE PARK POND (Marion), 5 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U

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																FC	PWS	EWH	REC
[OH12 16-051] - LEESVILLE LAKE (Carroll), 1000 acres																			
1988	fu(bpj)	ne	ne	ne	fu(m)	ne	fu(m)	ne	ne	t-e(m)	ne	fu(m)	fu(m)	ne		U	F	T	U
1990	fu(bpj)	ne	ne	ne	fu(m)	ne	fu(m)	ne	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(m)		U	F	T	F
1992	fu(bpj)	ne	fu(bpj)	fu(bpj)	fu(m)	ne	fu(m)	ne	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(m)		U	F	T	F
1996	fu(bpj)	ne	fu(bpj)	fu(bpj)	fu(m)	ne	fu(m)	ne	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(m)		F	F	T	F
[OH56 26-437] - LEIGHTY LAKE (Shelby), 13 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH74 11-325] - LEIPSIC RESERVOIR (Putnam), 27 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH02 22-379] - LIBERTY LAKE (Trumbull), 99 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH68 17-009] - LIMA RESERVOIR (Allen), 84 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH88 18-438] - LITTLE PUNDERSON LAKE (Geauga), 24 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH41 28-229] - LONDON FISH HATCHERY LAKE (Madison), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH10 33-358] - LONG LAKE (Summit), 180 acres																			
1988	ne	ne	ne	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	ne		U	P	T	U
1990	t(m)	ne	ne	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	t(m)	fu(m)	fu(m)	t(m)		U	P	T	P
1992	t(m)	ne	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(m)		U	P	T	P
1996	t(m)	t(bpj)	t(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	fu(m)	t-e(m)	i(m)	fu(m)	fu(m)	t(m)	40.77	F	P	I	I
[OH68 17-006] - LOST CREEK RESERVOIR (Allen), 121 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH90 20-092] - LOWER SHAKER LAKE (Cuyahoga), 17 acres																			
1988	t(bpj)	ne	ne	fu(bpj)	ne	ne	ne	t-e(m)	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH88 15-150] - LaDUE RESERVOIR (Geauga), 1500 acres																			
1988	fu(bpj)	ne	t(bpj)	t(bpj)	ne	ne	ne	t(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	T
1992	fu(m)	ne	t(bpj)	t(bpj)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1996	fu(m)	fu(bpj)	t(bpj)	t(bpj)	t(m)	ne	fu(m)	t-e(m)	fu(m)	t-e(m)	ne	fu(m)	fu(m)	t(bpj)	22.50	F	T	T	T
[OH86 15-223] - LaGRANGE WATER WORKS LAKE (Lorain), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH75 18-227] - M. OLANDER PARK LAKE (Lucas), 20 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH41 30-228] - MADISON LAKE (Madison), 106 acres																			
1988	t(bpj)	ne	t(bpj)	t(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	P	P
1990	t(bpj)	ne	t(bpj)	t(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	t(m)	fu(m)	fu(m)	i(m)		U	I	P	P

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																FC	PWS	EWH	REC
1992	t(bpj)	ne	t(bpj)	t(bpj)	t(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	t(m)	fu(m)	fu(m)	i(m)		U	I	P	I
1994	t(m)	t(bpj)	t(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	i(m)	40.00	U	I	T	I
[OH36 16-265] - MAPLE GROVE LAKE (UPPER MT. GILEAD LAKE) (Morrow), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1988	ne	ne	t(bpj)	t(bpj)	t(m)	ne	ne	t-e(m)	ne	ne	ne	ne	fu(m)	t(bpj)		U	T	U	T
1996	t(m)	t(bpj)	t(m)	t(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	fu(m)	t(m)	fu(m)	i(bpj)		U	P	P	P
[OH26 02-022] - MARGARET CR CONS.DIST.#2 (LAKE SNOWDEN) (Athens), 131 acres																			
1988	fu(bpj)	ne	fu(bpj)	fu(m)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	F	T
1996	fu(bpj)	fu(bpj)	t(bpj))	fu(m)	t(m)	fu(m)	fu(m)	t-e(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	fu(bpj)		F	T	T	T
[OH26 02-026] - MARGARET CREEK CONS. DIST. #1 (Athens), 16 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH26 02-025] - MARGARET CREEK CONS. DIST. #4 (Athens), 28 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH26 05-024] - MARGARET CREEK CONS. DIST. #5 (Athens), 8 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH23 22-274] - MAYSVILLE REG. WATER DIST. LAKE (Muskingum), 45 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	fu(m)	fu(bpj)	fu(bpj)	fu(m)	fu(m)	ne	fu(m)	fu(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	10.00	U	F	F	F
[OH89 30-368] - MEADOWBROOK LAKE (Summit), 24 acres																			
1988	ne	ne	t(bpj)	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	ne	t(m)	fu(m)	t(bpj)		U	P	P	P
1990	t(m)	ne	t(bpj)	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	ne	t(m)	fu(m)	t(bpj)		U	P	P	P
1992	t(m)	t(bpj)	t(bpj)	t(m)	t(m)	fu(m)	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	t(bpj)		U	T	T	P
[OH02 23-378] - MEANDER CREEK RESERVOIR (Trumbull), 2010 acres																			
1988	fu(bpj)	ne	fu(bpj)	fu(bpj)	ne	ne	t(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(bpj)		U	T	U	T
1992	fu(bpj)	ne	fu(bpj)	fu(bpj)	t(m)	ne	t(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(bpj)		U	T	T	T
1996	fu(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	fu(m)	t(m)	ne	fu(m)	fu(bpj)		U	T	T	T
[OH75 18-439] - METAMORA RESERVOIR #1 (Fulton), 6 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1994	fu(m)	t(bpj)	ne	fu(m)	fu(m)	ne	t(m)	t-e(m)	ne	fu(m)	t(m)	ne	fu(m)	ne		U	T	T	T
[OH75 18-143] - METAMORA RESERVOIR #2 (Fulton), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH68 17-003] - METZGER RESERVOIR (Allen), 157 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	t(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	T
1992	fu(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	fu(bpj)	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)	20.83	U	T	T	T
[OH62 05-165] - MIAMI WHITEWATER LAKE (Hamilton), 85 acres																			
1988	t(m)	ne	fu(bpj)	t(bpj)	fu(m)	ne	ne	t-e(m)	ne	t(bpj)	ne	ne	fu(m)	t(bpj)		U	T	U	T
1992	t(m)	ne	fu(bpj)	t(bpj)	t(m)	ne	ne	t-e(m)	ne	t(bpj)	ne	ne	fu(m)	t(bpj)		U	T	U	T

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Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
[OH01 14-309] - MICHAEL J. KIRWIN RESV. (WEST BR. RESV.) (Portage), 2650 acres																			
1988	ne	ne	t(bpj)	fu(m)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(m)		U	T	F	T
1990	t(m)	ne	t(bpj)	fu(m)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(m)		U	T	F	T
1992	t(m)	ne	t(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(m)		U	T	T	T
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	fu(m)	fu(m)	fu(m)		F			
[OH37 09-133] - MILLER ANTRIM LAKE (Franklin), 37 acres																			
1988	fu(m)	ne	ne	fu(bpj)	ne	ne	ne	t-h(m)	ne	ne	ne	ne	ne	ne		U	U	U	U
1994	fu(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	fu(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	13.33	U	T	T	F
[OH10 33-362] - MILLER LAKE (Summit), 28 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH65 26-440] - MILLER PARK LAKE (Williams), 8 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH38 04-441] - MINERVA PARK LAKE (Franklin), 8 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH88 04-312] - MOGADORE RESERVOIR (Portage), 900 acres																			
1988	ne	ne	t(bpj)	t(m)	fu(m)	t(bpj)	fu(m)	t(bpj)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1990	fu(m)	ne	t(bpj)	t(m)	fu(m)	t(bpj)	fu(m)	t(bpj)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1992	t(m)	ne	t(bpj)	t(m)	t(m)	t(bpj)	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	T	P
1996	t(m)	fu(bpj)	t(bpj)	t(m)	t(m)	t(bpj)	fu(m)	t-h(m)	fu(m)	t-e(m)	ne	fu(m)	fu(m)	t(bpj)	34.61	F	P	T	P
[OH88 05-366] - MONROE FALLS LAKE (PARK LAKE) (Summit), 13 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH07 10-255] - MONROE LAKE (Monroe), 39 acres																			
1988	fu(m)	ne	t(bpj)	t(bpj)	ne	ne	fu(m)	t-e(m)	ne	fu(m)	ne	fu(m)	ne	t(bpj)		U	T	U	T
[OH02 31-381] - MOSQUITO CREEK RESERVOIR (Trumbull), 7850 acres																			
1988	ne	ne	fu(bpj)	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	fu(bpj)		U	P	T	P
1990	t(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	fu(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	21.43	F	T	T	T
[OH49 55-045] - MOUNT ORAB RESERVOIR #2 (Brown), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH36 16-266] - MT. GILEAD LAKE (LOWER) (Morrow), 11 acres																			
1988	t(m)	ne	ne	fu(m)	ne	ne	ne	fu(m)	ne	ne	ne	ne	fu(m)	ne		U	U	U	T
1988	t(m)	t(bpj)	i(bpj)	i(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	i(bpj)		U	I	T	P
[OH10 33-365] - MUD LAKE (Summit), 85 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	fu(m)	ne	ne	ne	ne	ne	ne	ne	ne	ne	fu(m)	ne	ne	ne		U	U	U	U
1994	t(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	t(m)	fu(m)	fu(m)	t(m)	35.00	U	P	P	P

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[OH15 01-081] - MUDPORT BASIN LAKE (Coshocton), 9 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH20 22-271] - MUNROE BASIN LAKE (Muskingum), 17 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1992	t(m)	ne	t(bpj)	t(bpj)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	ne	fu(m)	t(bpj)		U	T	T	T
[OH10 16-242] - MUSKINGUM WCD STRUCTURE 7-C (Medina), 23 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH88 08-319] - MUZZY LAKE (Portage), 82 acres																			
1988	ne	ne	t(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
1990	t(m)	ne	t(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	T
1992	t(m)	ne	t(bpj)	fu(bpj)	ne	ne	ne	t-e(m)	ne	t-h(m)	ne	ne	ne	t(bpj)		U	U	U	P
[OH77 05-172] - McCOMB RESERVOIR #1 (Hancock), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH77 05-173] - McCOMB RESERVOIR #2 (Hancock), 20 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH02 09-238] - McKELVEY LAKE (Mahoning), 133 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH65 36-402] - NETTLE LAKE (Williams), 94 acres																			
1988	fu(bpj)	ne	t(bpj)	fu(m)	fu(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1992	fu(bpj)	ne	t(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1994	t(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	ne	fu(m)	t-h(m)	ne	fu(m)	fu(m)	t(m)	fu(m)	t(bpj)	29.17	U	P	T	P
[OH21 36-273] - NEW CONCORD RESERVOIR (Muskingum), 10 acres																			
1988	ne	ne	t(bpj)	fu(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	fu(m)	t(m)	fu(m)	fu(m)	fu(bpj)	23.33	U	T	T	T
[OH25 20-283] - NEW LEXINGTON RESERVOIR #1 (Perry), 44 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	fu(m)	ne	t(bpj)	t(m)	t(m)	fu(m)	fu(m)	fu(m)	ne	t-e(m)	i(m)	fu(m)	fu(m)	fu(bpj)		U	T	I	I
[OH25 20-284] - NEW LEXINGTON RESERVOIR #2 (Perry), 27 acres																			
1988	fu(m)	ne	fu(bpj)	fu(m)	fu(m)	ne	t(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(bpj)		U	T	T	F
1992	fu(m)	ne	fu(bpj)	fu(m)	t(m)	ne	t(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(bpj)		U	T	T	F
[OH85 12-196] - NEW LONDON RESERVOIR (Huron), 221 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH60 38-442] - NEWFIELDS DEVELOPMENT LAKE (Montgomery), 7 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH02 12-232] - NEWPORT LAKE (Mahoning), 105 acres																			
1988	t(m)	ne	fu(bpj)	t(m)	ne	ne	t(m)	t-h(m)	fu(m)	t-h(m)	ne	i(m)	fu(m)	t(bpj)		F	I	U	I
1992	t(m)	i(bpj)	fu(bpj)	t(m)	t(m)	fu(bpj)	t(m)	t-h(m)	fu(m)	t-h(m)	fu(m)	i(m)	fu(m)	i(bpj)	44.29	F	I	P	I

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																FC	PWS	EWH	REC
[OH10 12-360] - NIMISILA RESERVOIR (Summit), 825 acres																			
1988	ne	ne	ne	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	ne		U	P	T	U
1990	t(m)	ne	ne	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	ne		U	P	T	P
1992	t(m)	ne	ne	t(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	ne		U	T	T	T
1996	t(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	23.08	F	T	T	T
[OH77 04-403] - NORTH BALTIMORE RESERVOIR (Wood), 29 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
1996	t(m)	t(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	t(m)	fu(m)	fu(m)	fu(bpj)	27.50	U	T	T	T
[OH18 27-209] - NORTH BRANCH KOKOSING LAKE (Knox), 154 acres																			
1988	t(bpj)	ne	fu(bpj)	t(m)	fu(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	fu(bpj)		U	P	T	P
1992	t(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	fu(bpj)		U	T	P	T
[OH93 05-018] - NORTH KINGSVILLE RESERVOIR (Ashtabula), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH10 33-356] - NORTH RESERVOIR (Summit), 160 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1992	t(m)	ne	ne	ne	ne	ne	ne	t-h(m)	ne	ne	ne	ne	ne	t(m)		U	U	U	U
1996	t(m)	fu(bpj)	t(bpj)	t(m)	fu(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	t(m)	fu(m)	fu(m)	t(m)		U	T	T	P
[OH84 05-197] - NORWALK LOWER RESERVOIR (Huron), 31 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH84 05-199] - NORWALK MEMORIAL RESERVOIR (Huron), 97 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH84 05-198] - NORWALK UPPER RESERVOIR (Huron), 50 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	ne		U	U	U	U
[OH75 06-443] - NOVA FRANCE RECREATION CTR. LAKE (Lucus), 12 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH37 25-101] - O'SHAUGHNESSY RESERVOIR (Delaware), 920 acres																			
1988	t(bpj)	ne	fu(bpj)	t(bpj)	ne	ne	ne	fu(m)	ne	t-h(m)	ne	ne	ne	t(m)		U	U	U	T
1990	t(bpj)	ne	fu(bpj)	t(bpj)	ne	ne	ne	fu(m)	ne	t-h(m)	fu(m)	ne	ne	t(m)		U	U	U	T
1996	t(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	t(m)	fu(m)	t-e(m)	fu(m)	t-h(m)	t(m)	fu(m)	fu(m)	t(m)	36.43	F	T	P	P
[OH25 17-124] - OAK THORPE RESERVOIR (RCCD STRUC. 6-D) (Fairfield), 10 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	fu(bpj)	fu(bpj)	fu(bpj)	t(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	31.67	U	P	P	P
[OH86 14-224] - OBERLIN OLD UPGROUND RESERVOIR (Lorain), 10 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH86 16-218] - OBERLIN RESERVOIR (Lorain), 56 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	t(bpj)	ne	t(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	T	U	T
1990	t(m)	ne	fu(bpj)	fu(bpj)	fu(m)	t(bpj)	fu(m)	t(bpj)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T

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																FC	PWS	EWH	REC
1992	t(m)	fu(bpj)	fu(bpj)	fu(bpj)	t(m)	fu(bpj)	fu(m)	t(bpj)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)	18.33	U	T	T	T
[OH24 80-262] - OHIO POWER RECREATION LAKES (Morgan), 2000 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH58 16-053] - OLD REID PARK LAKE (Clark), 15 acres																			
1988	ne	ne	ne	fu(m)	fu(m)	ne	ne	fu(m)	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH60 34-259] - OPOSSUM CREEK POND #1 (Montgomery), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	fu(m)	fu(m)	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(bpj)		U	T	T	T
[OH60 34-260] - OPOSSUM CREEK RESERVE LAKE (Montgomery), 18 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	fu(m)	fu(m)	fu(m)	fu(m)	fu(m)	ne	fu(m)	fu(m)	ne	fu(m)	fu(bpj)	fu(m)	fu(m)	fu(m)		U	F	F	F
[OH37 10-135] - OSU GOLF COURSE LAKE (Franklin), 9 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH76 11-279] - OTTAWA NATIONAL WILDLIFE REFUGE LAKE (Ottawa), 8 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH67 06-324] - OTTAWA RESERVOIR (Putnam), 20 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH72 06-099] - OXBOW LAKE (Defiance), 40 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH42 01-186] - PAINT CREEK LAKE (Highland), 1190 acres																			
1988	t(bpj)	ne	t(bpj)	t(bpj)	fu(m)	t(bpj)	fu(m)	t(bpj)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	P	P
1992	t(bpj)	ne	t(bpj)	t(bpj)	t(m)	t(bpj)	fu(m)	t(bpj)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	P	T
1994	t(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	t(m)	fu(m)	fu(m)	t(bpj)		U	P	P	P
1996	t(m)	fu(bpj)	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	fu(m)	t-h(m)	t(m)	fu(m)	fu(m)	t(bpj)	36.92	F	P	P	P
[OH71 15-282] - PAULDING PONDS (Paulding), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH71 15-281] - PAULDING RESERVOIR (Paulding), 67 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	t(bpj)	ne	t(bpj)		U	U	U	U
[OH76 23-445] - PEARSON PARK PONDS (Lucus), 10 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH23 28-291] - PERRY RECLAMATION POND (PERRY DAM #3) (Perry), 8 acres																			
1992	ne		ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH11 06-350] - PETROS LAKE (Stark), 12 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	t(m)	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U

Appendix H. Summary of LCI parameters for Ohio's 446 public lakes. See text for explanation of parameters.

Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
[OH14 33-181] - PIEDMONT LAKE (Harrison), 2310 acres																			
1988	t(bpj)	ne	fu(bpj)	t(bpj)	t(bpj)	ne	fu(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1992	t(bpj)	ne	fu(bpj)	t(bpj)	t(m)	ne	fu(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1996	t(bpj)	fu(bpj)	fu(bpj)	t(bpj)	t(m)	ne	fu(m)	t-e(m)	fu(m)	fu(m)	ne	fu(m)	fu(m)	t(bpj)	19.17	F	T	T	T
[OH45 13-301] - PIKE LAKE RESERVOIR (Pike), 13 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH33 55-211] - PINE CREEK STRUCTURE #8 (Lawrence), 9 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH -067] - PINE HILL LAKE (Warren), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH02 05-237] - PINE LAKE (Mahoning), 474 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	fu(m)	ne	ne	ne	t(bpj)		U	U	U	U
1990	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	fu(m)	fu(m)	ne	ne	fu(m)		U	U	U	F
[OH16 01-011] - PLEASANT HILL LAKE (Ashland), 850 acres																			
1988	t(bpj)	ne	fu(bpj)	fu(bpj)	ne	ne	fu(m)	t-e(m)	ne	fu(m)	ne	ne	ne	ne		U	T	U	T
1990	t(bpj)	ne	fu(bpj)	fu(bpj)	ne	ne	fu(m)	t-e(m)	ne	fu(m)	fu(m)	ne	ne	t(m)		U	T	U	T
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-h(m)	fu(m)	t-e(m)	fu(m)	ne	fu(m)	t(m)	30.83	F	P	P	T
[OH47124-341] - POND LICK LAKE (Scioto), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH88 11-317] - PORTAGE CO. COMM. LAKE (Portage), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH36 35-085] - POWERS RESERVOIR (Crawford), 29 acres																			
1988	ne	ne	t(bpj)	fu(bpj)	ne	t(bpj)	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH88 13-153] - PUNDERSON LAKE (Geauga), 101 acres																			
1988	ne	ne	t(bpj)	fu(m)	fu(m)	ne	t(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1990	fu(m)	fu(bpj)	t(bpj)	t(m)	fu(m)	fu(bpj)	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	fu(bpj)		U	T	T	T
1992	fu(m)	fu(bpj)	t(bpj)	t(m)	t(m)	fu(bpj)	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	fu(bpj)	24.17	U	T	T	T
[OH03 14-015] - PYMATUNING RESERVOIR (Ashtabula), 3580 acres																			
1988	t(bpj)	ne	fu(bpj)	t(bpj)	ne	ne	ne	t-e(m)	ne	t-e(m)	ne	ne	ne	t(bpj)		U	U	U	T
1996	t(bpj)	ne	fu(bpj)	t(bpj)	ne	ne	ne	t-e(m)	ne	t-e(m)	ne	ne	ne	t(bpj)		U	U	U	T
[OH83 11-334] - RACCOON CREEK RESERVOIR (Sandusky), 34 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	fu(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	i(m)	fu(m)	ne	t-e(m)	t(m)	ne	fu(m)	fu(bpj)		U	I	I	T
[OH01 07-316] - RAVENNA ORDINANCE PLANT LAKE (Portage), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U

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Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status FC	PWS	EWH	REC
[OH25 21-294] - RCCD STRUCTURE 3-A (Perry), 13 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 21-293] - RCCD STRUCTURE 3-B (Perry), 13 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 20-288] - RCCD STRUCTURE 4-C (TWIN CHURCH LAKE) (Perry), 49 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 20-125] - RCCD STRUCTURE 5-A (Fairfield), 20 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 21-126] - RCCD STRUCTURE 5-B (Fairfield), 12 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 21-127] - RCCD STRUCTURE 5-C (Fairfield), 13 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 15-113] - RCCD STRUCTURE 7-C (Fairfield), 43 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 15-123] - RCCD STRUCTURE 7-D (Fairfield), 15 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 15-128] - RCCD STRUCTURE 7-E (Fairfield), 10 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH83 04-109] - RESTHAVEN WILDLIFE AREA PONDS (Erie), 200 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH10 33-363] - REX LAKE (Summit), 48 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1994	t(m)	fu(bpj)	t(m)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	t(m)	fu(m)	fu(m)	fu(bpj)	30.00	U	T	T	T
[OH35 30-386] - RICHWOOD PARK LAKE (Union), 16 acres																			
1988	t(m)	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	t(m)	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(m)		U	U	U	U
1996	t(m)	ne	ne	t(m)	fu(m)	ne	i(m)	t-h(m)	ne	t-e(m)	i(m)	t(m)	fu(m)	ne		U	I	I	I
[OH31 51-148] - RIO GRANDE RESERVOIR (Gallia), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	fu(m)	ne	i(bpj)	fu(m)	t(m)	ne	fu(m)	fu(m)	ne	fu(m)	t(m)	fu(m)	fu(m)	fu(bpj)		U	P	T	P
[OH91 01-020] - ROAMING ROCK LAKE (Ashtabula), 464 acres																			
1988	ne	ne	t(bpj)	t(bpj)	ne	ne	ne	t(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
1996	fu(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	t(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(m)	20.00	U	T	T	T
[OH43 44-185] - ROCKY FORK LAKE (Highland), 2080 acres																			
1988	ne	ne	t(bpj)	t(bpj)	fu(m)	t(bpj)	t(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	T	P
1990	t(m)	fu(bpj)	fu(bpj)	fu(bpj)	fu(m)	t(bpj)	fu(m)	t-h(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	t(bpj)	23.57	F	P	T	P

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Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
[OH47127-340] - ROOSEVELT LAKE (Scioto), 16 acres																			
1988	fu(m)	ne	fu(bpj)	t(m)	ne	ne	ne	t-h(m)	ne	ne	ne	ne	ne	ne		U	U	U	P
1994	t(m)	t(bpj)	fu(bpj)	t(m)	t(m)	ne	fu(m)	fu(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	t(bpj)	21.67	U	T	T	T
[OH41 02-333] - ROSS LAKE (Ross), 140 acres																			
1988	fu(bpj)	ne	t(bpj)	fu(m)	fu(m)	ne	fu(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(bpj)		U	T	F	T
1992	fu(bpj)	ne	t(bpj)	fu(m)	t(m)	ne	fu(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(bpj)		U	T	T	T
[OH11 30-447] - RUFF POND (Columbiana), 6 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 16-289] - RUSH CREEK LAKE (RCCD STRUCTURE 6-A) (Perry), 300 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1994	t(m)	t(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	i(m)	fu(m)	fu(bpj)		U	T	T	I
[OH61 14-321] - RUSH RUN LAKE (Preble), 54 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	t(bpj)	ne	ne	ne	ne	ne	t(bpj)		U	U	U	T
1990	t(m)	t(bpj)	t(bpj)	t(m)	fu(m)	fu(bpj)	fu(m)	t-e(m)	fu(m)	fu(m)	ne	ne	fu(m)	t(bpj)		F	T	T	P
1992	t(m)	t(bpj)	t(bpj)	t(m)	t(m)	fu(bpj)	fu(m)	t-e(m)	fu(m)	fu(m)	ne	ne	fu(m)	fu(bpj)	25.00	F	T	T	P
[OH47 45-040] - RUSSELLVILLE RESERVOIR (Brown), 11 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH04 35-070] - SALEM RESERVOIR (Columbiana), 97 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH21 19-159] - SALT FORK RESERVOIR (Guernsey), 2952 acres																			
1988	t(bpj)	ne	t(bpj)	fu(bpj)	fu(m)	ne	t(m)	ne	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1992	t(bpj)	ne	t(bpj)	fu(bpj)	fu(m)	ne	t(m)	ne	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	fu(m)	t-e(m)	fu(m)	t(m)	fu(m)	t(bpj)	26.15	F	T	T	T
[OH21 19-121] - SALT FORK WILDLIFE AREA POND #2 (Guernsey), 10 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH34 26-179] - SAULIS BERRY PARK LAKE (Hardin), 50 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH68 17-008] - SCHOONOVER LAKE (Allen), 22 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH38 04-134] - SCHROCK LAKE (Franklin), 12 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH60 19-046] - SEBALD POND #1 (Butler), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	fu(bpj)	fu(bpj)	t(m)	fu(m)	t(m)	fu(m)	t-e(m)	ne	t-h(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	29.23	U	T	P	T
[OH60 19-047] - SEBALD POND #2 (Butler), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U

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Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
[OH21 46-160] - SENECAVILLE LAKE (Guernsey), 3550 acres																			
1988	t(bpj)	ne	ne	ne	fu(m)	ne	fu(m)	ne	ne	t-e(m)	ne	fu(m)	fu(m)	ne		U	F	T	U
[OH21 46-161] - SENECAVILLE NATIONAL FISH HATCHERY LAKE (Guernsey), 20 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH54 26-395] - SHADOW LAKE (Warren), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH62 29-167] - SHARON WOODS LAKE (Hamilton), 38 acres																			
1988	t(m)	ne	t(bpj)	t(m)	t(m)	ne	ne	t-h(m)	ne	t-h(m)	ne	ne	fu(m)	t(bpj)		U	P	U	P
[OH16 28-326] - SHELBY RESERVOIR #1 (Richland), 29 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	t(bpj)	ne	ne	t(m)	ne	t(m)	t-e(m)	ne	fu(m)	t(m)	ne	fu(m)	ne		U	T	T	P
[OH16 21-327] - SHELBY RESERVOIR #2 (Richland), 12 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	fu(m)	t(bpj)	ne	ne	fu(m)	ne	t(m)	t-e(m)	ne	fu(m)	t(m)	ne	fu(m)	ne		U	T	T	P
[OH19 35-397] - SHREVE LAKE (Wayne), 58 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	t(m)	t(bpj)	t(bpj)	t(m)	t(m)	fu(bpj)	fu(m)	t-e(m)	ne	t-e(m)	ne	ne	fu(m)	fu(bpj)		U	T	T	P
[OH88 05-448] - SILVER CREEK LAKE (Summit), 47 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH10 06-347] - SIPPO LAKE (Stark), 88 acres																			
1988	ne	ne	t(bpj)	fu(m)	fu(m)	ne	ne	t-e(m)	ne	ne	ne	fu(m)	fu(m)	t(bpj)		U	T	U	T
1990	fu(m)	ne	i(bpj)	t(m)	t(m)	fu(m)	fu(m)	t-e(m)	ne	ne	fu(m)	fu(m)	fu(m)	i(m)		U	P	T	I
1992	fu(m)	t(bpj)	i(m)	t(m)	t(m)	fu(m)	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	i(m)		U	I	T	I
1996	fu(m)	t(bpj)	i(m)	t(m)	t(m)	fu(m)	fu(m)	t-e(m)	fu(m)	t-e(m)	fu(m)	fu(m)	fu(m)	i(m)	35.00	F	I	T	I
[OH16 21-449] - SITES LAKE (Richland), 7 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH60 20-050] - SMITH PARK LAKE (Butler), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH91 06-372] - SNIDER DITCH LAKE (Trumbull), 245 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH58 15-057] - SNYDER PARK LAKE (Clark), 6 acres																			
1988	t(m)	ne	ne	fu(m)	ne	ne	ne	t-e(m)	ne	ne	ne	ne	fu(m)	ne		U	U	U	T
[OH25 21-295] - SOMERSET RESERVOIR (Perry), 8 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH33 10-451] - SOUTH WEBSTER RESERVOIR (Scioto), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U

Appendix H. Summary of LCI parameters for Ohio's 446 public lakes. See text for explanation of parameters.

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																FC	PWS	EWH	REC
[OH06 71-183] - SPARROW RESERVOIR (Harrison), 17 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH86 09-241] - SPENCER LAKE (Medina), 51 acres																			
1988	ne	ne	ne	t(m)	ne	ne	ne	t-h(m)	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	ne	ne	ne	t(m)	ne	ne	ne	t-h(m)	fu(m)	ne	ne	ne	ne	ne		F	U	U	U
[OH86 09-247] - SPENCER RESERVOIR (Medina), 9 acres																			
1988	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH50 01-394] - SPRING VALLEY LAKE (Warren), 58 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	fu(m)	i(bpj)	i(bpj)	i(m)	t(m)	t(bpj)	fu(m)	t-e(m)	ne	t-e(m)	ne	ne	fu(m)	fu(m)		U	P	P	I
[OH88 02-370] - SPRINGFIELD LAKE (Summit), 200 acres																			
1988	ne	ne	t(bpj)	t(m)	fu(m)	ne	ne	t-h(m)	ne	ne	ne	ne	fu(m)	t(bpj)		U	P	U	P
1990	fu(m)	ne	t(bpj)	t(m)	fu(m)	ne	ne	t-h(m)	ne	ne	ne	ne	fu(m)	t(bpj)		U	P	U	P
1992	fu(m)	ne	t(bpj)	t(m)	t(m)	ne	ne	t-e(m)	ne	t-e(m)	ne	ne	fu(m)	t(bpj)		U	T	U	T
1996	fu(m)	ne	t(bpj)	t(m)	t(m)	ne	ne	t-e(m)	ne	t-e(m)	ne	ne	fu(m)	t(bpj)		U	T	U	T
[OH61 11-049] - ST. CLAIR RECREATION AREA LAKE (Butler), 10 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH06 05-033] - ST. CLAIRSVILLE RESERVOIR #1 (Belmont), 10 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH06 32-034] - ST. CLAIRSVILLE RESERVOIR #2 (Belmont), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH25 21-290] - ST. JOSEPH'S LAKE (RCCD STRUCTURE 3-E) (Perry), 60 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH53 53-041] - ST. MARTIN RESERVOIR (Brown), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH40 02-300] - STAGE'S POND (Pickaway), 30 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	t(m)	ne	i(bpj)	ne	fu(m)	ne	fu(m)	t-h(m)	ne	t-h(m)	fu(m)	fu(m)	fu(m)	i(bpj)		U	P	P	P
[OH64 25-149] - STATE FISH HATCHERY LAKE (Auglaize), 52 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH91 14-377] - STATE OF OHIO LAKE #1 (Trumbull), 35 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH91 14-374] - STATE OF OHIO LAKE #2 (Trumbull), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH91 14-376] - STATE OF OHIO LAKE #3 (Trumbull), 21 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U

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																FC	PWS	EWH	REC
[OH66 14-343] - STATE OF OHIO LAKE #4 (Seneca), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH53 08-059] - STONELICK RESERVOIR (Clermont), 160 acres																			
1988	ne	ne	t(bpj)	t(bpj)	t(m)	t(bpj)	fu(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	P	T
1990	t(m)	t(bpj)	t(bpj)	fu(m)	fu(m)	fu(bpj)	fu(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(m)		U	P	P	P
1992	t(m)	t(bpj)	t(bpj)	fu(m)	t(m)	fu(bpj)	fu(m)	t-e(m)	ne	t-h(m)	ne	t(m)	fu(m)	t(m)		U	T	P	P
1996	t(m)	t(bpj)	t(bpj)	fu(m)	t(m)	fu(bpj)	fu(m)	t-e(m)	fu(m)	t-h(m)	ne	t(m)	fu(m)	t(m)	33.85	F	T	P	P
[OH10 33-352] - SUMMIT LAKE (Summit), 100 acres																			
1988	t(m)	ne	fu(bpj)	fu(bpj)	fu(m)	fu(m)	fu(m)	t-e(m)	t(m)	t-e(m)	t(m)	fu(m)	fu(m)	t(bpj)		P	T	T	T
1992	t(m)	fu(bpj)	fu(bpj)	fu(bpj)	t(m)	fu(m)	fu(m)	t-e(m)	t(m)	t-e(m)	t(m)	fu(m)	fu(m)	t(bpj)	27.86	P	T	T	T
[OH38 30-104] - SUNBURY RESERVOIR #1 (Delaware), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH38 30-108] - SUNBURY RESERVOIR #2 (Delaware), 19 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH75 12-225] - SWANTON RESERVOIR (Lucas), 25 acres																			
1988	ne	ne	t(bpj)	t(bpj)	ne	ne	ne	ne	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH56 19-251] - SWIFT RUN LAKE (Miami), 40 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	t(m)	fu(bpj)	i(bpj)	fu(m)	t(m)	t(bpj)	fu(m)	t-h(m)	ne	t-e(m)	ne	ne	fu(m)	t(bpj)		U	P	T	P
[OH14 02-180] - TAPPAN LAKE (Harrison), 2350 acres																			
1988	t(bpj)	ne	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1996	t(m)	fu(bpj)	fu(bpj)	fu(m)	t(m)	fu(m)	fu(m)	t-e(m)	fu(m)	t-e(m)	t(m)	fu(m)	fu(m)	t(bpj)		F	T	T	T
[OH56 39-346] - TAWAWA LAKE (Shelby), 8 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH38 20-130] - THOREAU POND (Franklin), 11 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH89 09-306] - TINKERS CREEK STATE PARK LAKE (Portage), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	fu(m)	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH76 04-280] - TOUSSAINT CREEK WILDLIFE AREA LAKE (Ottawa), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH47115-339] - TURKEY CREEK LAKE (Scioto), 51 acres																			
1988	fu(m)	ne	fu(bpj)	t(m)	ne	ne	ne	t-h(m)	ne	ne	ne	ne	ne	t(bpj)		U	U	U	P
1994	fu(m)	t(bpj)	t(bpj)	t(m)	t(m)	ne	fu(m)	fu(m)	ne	fu(m)	fu(m)	t(m)	fu(m)	t(bpj)		U	P	T	P
1996	fu(m)	t(bpj)	t(bpj)	t(m)	t(m)	ne	fu(m)	fu(m)	fu(m)	fu(m)	fu(m)	t(m)	fu(m)	t(bpj)	21.54	F	P	T	P
[OH10 33-364] - TURKEYFOOT LAKE (Summit), 318 acres																			
1988	ne	ne	ne	fu(m)	fu(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	ne		U	T	P	T

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																FC	PWS	EWH	REC
1990	t(m)	ne	ne	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	ne		U	T	P	T
1994	t(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	fu(m)	fu(m)	t-e(m)	ne	t-e(m)	t(m)	fu(m)	fu(m)	ne		U	T	T	T
1996	t(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	fu(m)	fu(m)	t-e(m)	fu(m)	t-e(m)	t(m)	fu(m)	fu(m)	fu(bpj)	25.00	F	T	T	T
[OH20 24-254] - TURNING BASIN LAKE (Coshocton), 11 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	T	U
[OH68 17-007] - TWIN LAKES RESERVOIR (Allen), 26 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	T	U
[OH31 49-147] - TYCOON LAKE (Gallia), 204 acres																			
1988	fu(bpj)	ne	t(bpj)	fu(m)	fu(m)	ne	i(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(bpj)		U	I	I	T
1992	fu(bpj)	fu(bpj)	fu(bpj)	t(m)	fu(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	fu(bpj)		U	T	T	T
[OH80 09-405] - UPPER SANDUSKY RESERVOIR (Wyandot), 36 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH90 19-093] - UPPER SHAKER LAKE (Cuyahoga), 11 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH63 19-080] - UPPER WABASH STRUCTURE #2 (Mercer), 6 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH63 19-012] - UPPER WABASH STRUCTURE #3 (Mercer), 78 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH88 11-245] - USA DEPARTMENT OF LABOR LAKE (Medina), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH77 04-169] - VAN BUREN LAKE (Hancock), 53 acres																			
1988	t(m)	ne	t(bpj)	fu(m)	t(m)	t(bpj)	fu(m)	t-e(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	P	T
1992	t(m)	ne	t(bpj)	fu(m)	t(m)	t(bpj)	fu(m)	t-h(m)	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	P	P
1996	t(m)	i(bpj)	fu(bpj)	t(m)	t(m)	t(m)	fu(m)	t-h(m)	ne	t-h(m)	fu(m)	t(m)	fu(m)	i(bpj)	45.38	U	P	P	P
[OH69 15-387] - VAN WERT RESERVOIR #1 (Van Wert), 60 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	t(bpj)	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH69 15-388] - VAN WERT RESERVOIR #2 (Van Wert), 60 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	t(bpj)	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH27 63-396] - VETO LAKE (Washington), 160 acres																			
1988	t(bpj)	ne	t(bpj)	fu(m)	fu(m)	ne	t(m)	t-e(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T
1992	t(m)	t(bpj)	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	ne	fu(m)	fu(m)	t(bpj)		U	P	T	P
[OH14 44-031] - VILLAGE OF BARNESVILLE LAKE (Belmont), 8 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH70 02-323] - VILLAGE OF CONTINENTAL LAKE (Putnam), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U

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[OH56 10-249] - VILLAGE OF TIPP CITY LAKE #1 (Miami), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH56 10-250] - VILLAGE OF TIPP CITY LAKE #2 (Miami), 14 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH89 21-353] - VIRGINIA KENDALL PARK LAKE (Summit), 14 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	fu(m)	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH63 19-097] - WABASH CONS. DIST. RESERVOIR #1 (Darke), 57 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	t(m)	ne	t(bpj)	fu(m)	t(m)	t(bpj)	fu(m)	ne	ne	t-h(m)	ne	ne	fu(m)	t(bpj)		U	T	P	T
[OH87 04-089] - WALLACE LAKE (Cuyahoga), 16 acres																			
1988	t(bpj)	ne	ne	t(bpj)	ne	ne	ne	fu(m)	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	t(bpj)	t(bpj)	fu(bpj)	fu(m)	ne	ne	ne	fu(m)	ne	ne	ne	ne	ne	fu(bpj)		U	U	U	T
[OH42 35-129] - WASHINGTON COURTHOUSE RESERVOIR (Fayette), 37 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH73 11-137] - WAUSEON RESERVOIR #1 (Fulton), 49 acres																			
1988	ne	ne	t(bpj)	t(bpj)	ne	t(bpj)	ne	t(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	P	U	P
[OH73 16-136] - WAUSEON RESERVOIR #2 (Fulton), 17 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1994	t(m)	t(bpj)	fu(bpj)	t(m)	fu(m)	fu(m)	fu(m)	t-e(m)	fu(m)	t-e(m)	t(m)	ne	fu(m)	t(bpj)	26.92	F	T	T	P
[OH55 27-287] - WAYNESFIELD RESERVOIR (Auglaize), 5 acres																			
1992	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH47 18-043] - WAYNOKA RETENTION DAM (Brown), 12 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1994	t(m)	fu(bpj)	i(bpj)	i(m)	t(m)	fu(m)	fu(m)	t-h(m)	ne	t-h(m)	fu(m)	fu(m)	fu(m)	ne	42.50	U	P	P	I
[OH49 69-044] - WAYNOKA UPGROUND RESERVOIR (Brown), 12 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1994	t(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	ne	t(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	ne		U	T	T	T
[OH86 18-219] - WELLINGTON RESERVOIR (Lorain), 160 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH86 18-220] - WELLINGTON UPGROUND RESERVOIR (Lorain), 21 acres																			
1988	ne	ne	ne	t(bpj)	ne	t(bpj)	ne	t(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH05 84-073] - WELLSVILLE RESERVOIR (Columbiana), 25 acres																			
1988	ne	ne	t(bpj)	fu(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
[OH10 33-361] - WEST RESERVOIR (Summit), 104 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1990	t(m)	ne	ne	ne	ne	ne	ne	t-e(m)	ne	t-e(m)	ne	ne	ne	ne		U	U	U	U

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																FC	PWS	EWH	REC
1996	t(m)	fu(bpj)	t(bpj)	fu(m)	t(m)	ne	fu(m)	t-h(m)	ne	t-e(m)	i(m)	fu(m)	fu(m)	t(bpj)	36.67	U	P	I	I
[OH38 04-105] - WESTERVILLE RESERVOIR (Delaware), 53 acres																			
1988	t(m)	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH01 30-071] - WESTVILLE LAKE (Columbiana), 90 acres																			
1988	ne	ne	t(bpj)	i(m)	fu(m)	ne	fu(m)	t-h(m)	fu(m)	ne	ne	fu(m)	fu(m)	t(bpj)		F	P	U	I
1990	ne	ne	t(bpj)	i(m)	fu(m)	ne	fu(m)	t-h(m)	fu(m)	ne	t(m)	fu(m)	fu(m)	t(m)		F	P	T	I
1992	t(m)	t(bpj)	t(bpj)	t(m)	t(m)	ne	fu(m)	t-h(m)	fu(m)	ne	t(m)	fu(m)	fu(m)	t(m)	35.83	F	P	T	P
[OH35 12-106] - WHITE SULPHUR LAKE (Delaware), 39 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	fu(m)	t(bpj)	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	fu(m)	fu(m)	fu(bpj)	20.83	U	T	T	T
[OH84 18-195] - WILLARD CITY RESERVOIR (Huron), 200 acres																			
1988	fu(bpj)	ne	fu(bpj)	fu(m)	fu(m)	ne	fu(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	F	T
1992	fu(bpj)	ne	fu(bpj)	fu(m)	t(m)	ne	fu(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	F	T
[OH84 19-200] - WILLARD MARSH AREA LAKE (Huron), 6 acres																			
1988	ne	ne	fu(bpj)	t(bpj)	ne	ne	ne	t(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)		U	U	U	U
[OH21 01-079] - WILLS CREEK RESERVOIR (Coshocton), 900 acres																			
1988	t(bpj)	ne	fu(bpj)	fu(bpj)	t(bpj)	ne	fu(m)	ne	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	P	T
1992	t(bpj)	ne	fu(bpj)	fu(bpj)	fu(m)	ne	fu(m)	ne	ne	t-h(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	P	T
1994	t(m)	t(bpj)	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-e(m)	ne	t-e(m)	fu(m)	t(m)	fu(m)	t(bpj)		U	T	T	T
1996	t(m)	t(bpj)	fu(bpj)	t(m)	t(m)	ne	fu(m)	t-e(m)	fu(m)	t-e(m)	fu(m)	t(m)	fu(m)	t(bpj)	30.00	F	T	T	T
[OH84 19-200] - WILLSHIRE QUARRY LAKE (Van Wert), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH52 13-069] - WILMINGTON RESERVOIR #1 (Clinton), 16 acres																			
1988	ne	ne	fu(bpj)	fu(bpj)	ne	t(bpj)	ne	ne	ne	t(bpj)	ne	ne	ne	fu(bpj)		U	U	U	U
1996	fu(m)	t(bpj)	fu(bpj)	t(m)	fu(m)	t(m)	fu(m)	ne	ne	fu(m)	ne	fu(m)	fu(m)	fu(bpj)		U	T	T	T
[OH52 11-068] - WILMINGTON RESERVOIR #2 (Clinton), 54 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
1996	fu(m)	fu(bpj)	fu(bpj)	fu(bpj)	fu(bpj)	fu(m)	fu(m)	t-e(m)	ne	fu(m)	ne	fu(m)	fu(m)	fu(bpj)	13.33	U	T	F	T
[OH48 30-002] - WINCHESTER LAKE (Adams), 10 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH62 26-166] - WINTON WOODS LAKE (W.FK.MILL CK. LAKE) (Hamilton), 183 acres																			
1988	t(m)	ne	t(bpj)	t(bpj)	fu(m)	ne	fu(m)	t-e(m)	ne	t-h(m)	ne	i(m)	fu(m)	t(bpj)		U	I	P	I
1990	t(m)	i(bpj)	t(m)	i(m)	fu(m)	ne	fu(m)	t-h(m)	fu(m)	t-h(m)	fu(m)	i(m)	fu(m)	t(m)		F	I	P	I
1992	t(m)	i(bpj)	t(m)	i(m)	t(m)	ne	fu(m)	t-h(m)	fu(m)	t-h(m)	fu(m)	i(m)	fu(m)	t(m)		F	I	P	I
[OH09 27-277] - WOLF RUN RESERVOIR (Noble), 209 acres																			
1988	fu(m)	ne	t(bpj)	fu(m)	fu(m)	ne	fu(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	F	T
1992	fu(m)	ne	t(bpj)	fu(m)	t(m)	ne	fu(m)	fu(m)	ne	fu(m)	ne	fu(m)	fu(m)	t(bpj)		U	T	T	T

Appendix H. Summary of LCI parameters for Ohio's 446 public lakes. See text for explanation of parameters.

Year Assessed	SD	IBI	NM	A	NP	PPO	PPM	P	F	N	S	B	M	V	Final LCI	Use Status			
																FC	PWS	EWH	REC
[OH89 02-091] - WOODLAND HILLS PARK LAKE (Cuyahoga), 5 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH07 05-256] - WOODSFIELD RESERVOIR (Monroe), 7 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH41 01-332] - YOUCTANGEE PARK LAKE (Ross), 6 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH23 50-276] - ZANESVILLE STATE NURSERY LAKE (Muskingum), 10 acres																			
1988	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne		U	U	U	U
[OH11 30-077] - ZEPPERNICK LAKE (Columbiana), 41 acres																			
1988	ne	ne	t(bpj)	fu(bpj)	ne	ne	ne	ne	ne	ne	ne	ne	ne	t(bpj)		U	U	U	U
1996	ne	ne	t(bpj)	fu(bpj)	ne	ne	ne	ne	fu(m)	ne	ne	ne	ne	t(bpj)		F	U	U	U

APPENDIX I

Report On:
Section 314 Lake Water Quality Assessment Grants
Sampling Years 1993-1995

Introduction

Ohio has classified 445 publicly owned lakes and reservoirs with a surface area of five acres or greater, of which 345 are freely open to the public for recreational activities. Lakes with recreational use are listed in the 1994 Ohio Water Resource Inventory (Vol. III, *Ohio's Public Lakes, Ponds, and Reservoirs*) as significant publicly owned lakes (Ohio EPA 1995). Section 314 of the 1987 Water Quality Act Amendments requires each State to classify their significant publicly owned lakes according to trophic condition, to develop a list of threatened and impaired lakes, and to assess the status and trends of lake water quality. In an attempt to gather the necessary information to fulfill these mandates, the Ohio EPA applied for and received Lake Water Quality Assessment (LWQA) grants to sample Ohio lakes in 1993, 1994, and 1995.

The 1996 lake report will be the last under LWQA grants. Ohio EPA recognizes the value of lake monitoring and will continue to provide financial support for this program as part of an integrated watershed approach strategy to address water quality issues within the state. Ohio EPA will provide summary updates on sampled lakes in fulfillment of Section 314 of the Water Quality Act and will produce an updated comprehensive 305(b) report in 2001.

Ohio EPA collected resource information at 22 lakes (28 locations) in 1993, 24 lakes (27 locations) in 1994 and 20 lakes (20 locations) in 1995. Each lake was sampled on three occasions - once in the spring when the water column was well mixed and twice in midsummer/early fall when the lakes were thermally stratified. The sampled lakes and additional pertinent information are listed in Table 1. These lakes were selected based on information from two Ohio EPA documents. Volume III of the 1994 Ohio Water Resource Inventory, *Ohio's Public Lakes, Ponds, and Reservoirs* (Ohio EPA 1995), included a list of impaired and threatened lakes. This list was developed utilizing a "Lake Condition Index" (Davic and DeShon 1989) that summarized impaired and threatened conditions for a variety of parameters including aesthetics, productivity, excessive nutrients, volume loss, toxic pollutants, acidity, bacterial contamination, contaminated sediments and fish tissue. The 1990 *Ohio Nonpoint Source Assessment Report* (Ohio EPA 1990) targeted specific lakes where nonpoint issues were a major concern. Priority was given to lakes that had never been sampled by Ohio EPA as well as select lakes that had been previously sampled in the late 1970s and early 1980s.

The specific objective of the Ohio EPA lake sampling program is:

> To further improve Ohio's ability to classify lakes, to identify impaired and threatened lakes, and to establish consistent databases for future assessments of trends in lake water quality.

Methods

Each lake listed in Table 1 was sampled at one or more locations (based on lake size) three times during the sampling season, once in the spring and twice in midsummer/early fall. At each location, water column samples were collected at the surface and near the bottom and were analyzed for nutrients, heavy metals and miscellaneous other parameters. Additionally, full water column profiles of basic field parameters (temperature, dissolved oxygen, pH and conductivity) were collected during each visit. One sediment grab sample was collected at one location in each lake during the spring sampling run. Sediment samples were analyzed for nutrients (phosphorus) and metals; additionally, priority pollutant organochlorine pesticides, PCBs, cyanide, ammonia, % total solids, % volatile solids, % moisture and particle size were collected at selected lakes. At the sediment sampling locations in select water supply lakes, upper and lower water column samples were analyzed for organochlorine pesticides and PCBs. Parametric coverage for all types of chemical sampling is listed in Tables 2 and 3 (conventionals) and Table 4 (organics). In addition to the chemical sampling listed above, duplicate samples for plankton chlorophyll *a* were collected at each surface location during each summer sampling run and Secchi depth measurements were taken during all visits. All chemical, physical, biological field, laboratory, data processing, and data analysis methods and procedures adhered to those specified in the *Manual of Ohio EPA Surveillance Methods and Quality Assurance Practices* (Ohio EPA 1989).

Results and Discussion

Summary information for the 66 lakes sampled from 1993 to 1995 with regard to lake sizes, lake types, geographic location (*i.e.*, by ecoregion) and lake uses is listed in Table 1 and depicted in Figures 1 and 2. An attempt was made to sample a wide variety of lake sizes and types in the different ecoregions of Ohio. With some exceptions, the lake selection procedure was successful although the overall size of the database was too small for sophisticated data analysis procedures. Raw water column chemical data collected from all 66 lakes are tabulated in Appendix Tables I-2 (field parameter profiles and Secchi depths), Appendix I-3 (nutrients) and Appendix I-4 (metals, and other parameters). Important results are summarized in Tables 5 and 6. Upper and lower water column sampling results from water supply lakes analyzed for priority pollutant organochlorine pesticides and PCBs are compiled in Table 7. Surficial sediment data from each lake are compiled in Table 8 (total phosphorus and metals), Table 9 (organochlorine pesticides and PCBs) and Table 10 (miscellaneous other parameters). Results of chlorophyll *a* analyses and tabulation of the Trophic State Index (TSI) (Carlson 1977) for summer chlorophyll *a*, spring total phosphorus and summer Secchi depth at sites at each of the 66 lakes are compiled in Appendix Table I-1. The breakdown of new or reevaluated trophic state assessments for the 66 lakes is depicted in Figure 3. Lake information collected from 1993 to 1995 was incorporated into and assessed in the 1996 Ohio Water Resource Inventory Volume 1: *Summary, Status, and Trends* and Volume 3: *Ohio's Public Lakes, Ponds, and Reservoirs* (Ohio EPA 1996).

Water Column Sampling

Water column samples were collected near the surface (0.5 meters) in order to compare results with Ohio's Water Quality Standards (WQS) criteria (OAC Chapter 3745-1) for protection of the Exceptional Warmwater Habitat (EWH) aquatic life use assigned to Ohio's public lakes. Water violations of the dissolved oxygen (D.O.) criterion (Appendix Table I-2) were recorded during midsummer in most lakes. Surface water violations occurred 12 times in 11 lakes during midsummer (Table 5). Concentrations ranged from 2.6 mg/l (Grand River Wildlife Area Lake) to 5.8 mg/l (Salt Fork Reservoir and East Fork Lake).

Historically, one of the most commonly occurring violations has been D.O. at levels less than the EWH minimum of 6.0 mg/l in some portion of the water column. This condition persisted with the current sampling data. All lakes where these exceedences occurred either had turbid or algal conditions present at the time of the sampling. These conditions tend to encourage algal photo respiration and subsequent oxygen uptake.

Minor exceedences of the total recoverable iron criterion for the prevention of chronic aquatic life toxicity were recorded in surface water samples from 12 lakes (Table 5). Iron concentrations were highest in alkaline lakes and reservoirs receiving high humic organic matter and having low sulfate concentrations (Grand River Wildlife Area Lake, Stages Pond and Van Buren Lake). Of minor importance were the violations of the maximum allowable copper criterion for the prevention of aquatic life lethality in five lakes. Four of these lakes (Shelby Reservoir #1 and #2, Delco Water Company Lake and Raccoon Creek Reservoir) are upground reservoirs used for water supply.

Exceedences of the iron criterion in Ohio surface waters is common because of the presence of iron in Ohio soils. Apparently, the sulfate concentrations are insufficient in these lakes to precipitate iron as iron sulfide. The elevated levels of copper in these reservoirs are probably attributable to the use of copper sulfate that is routinely applied to upground reservoirs as an algicide to protect drinking water from the adverse impacts of algal blooms.

Other concentrations of note included nitrate. Although not detected at elevated levels (> 10.0 mg/l), the higher concentrations were found in upground water supply reservoirs.

Most of these reservoirs obtain their water by pumping adjacent creeks. If these creeks are situated in agricultural watersheds, they undoubtably are contributing nitrogen to the lake. Because these reservoirs maintain high oxygen levels throughout the water column for most of the year, the nitrogen probably is being oxidized to nitrate by nitrifying bacteria at a higher than normal rate. Ordinarily, nitrate would be assimilated by algae but elevated concentrations of copper in these reservoirs suggest that copper based algicides are being applies to these lakes. Under these conditions, nitrate concentrations may reach unacceptable levels for the protection of human health. Nitrate advisories for potable water supplies usually are issued for young children and individuals on nitrate restricted diets

when finished water exceeds 10.0 mg/l for two consecutive samples.

Another elevated parameter of some importance was summer ammonia in the lower water column. Twelve lakes recorded ammonia concentrations greater than 2.2 mg/l. Ammonia at this concentration was an exceedence of the chronic aquatic life use criterion as determined by each lakes pH and temperature near the bottom.

During the summer, these lakes thermally stratify and exhibit hypolimnions with near anoxic conditions. Ammonification takes place through anaerobic bacteria function in the hypolimnion. Under these conditions, the elevated ammonia levels probably are not a serious concern to aquatic life and, at fall turnover, would have been rapidly nitrified into nitrite and nitrate.

Many of the 66 lakes exhibited some degree of thermal stratification during the summer. Of these, 45 lakes suffered severe oxygen depletion (i.e., D.O. < 2.0 mg/l) in the hypolimnion with some having zones of D.O. levels less than 0.05 mg/l. The percentage of the total lake depth affected by low D.O. levels ranged from near zero in some shallow upground reservoirs to nearly 80 percent in lakes with large hypolimnions.

The temperature and oxygen profiles of the upground reservoirs displayed nearly isothermal conditions throughout the summer with D.O. levels above 2.0 mg/l. In fact, some of these waterbodies had higher levels of D.O. in the summer than during the spring turnover.

The shallow depth and level substrate of these upground reservoirs may favor holomixis. Holomixis is a typical lake phenomenon whereby wind driven circulation mixes the entire lake and creates uniform temperature and oxygen levels thoughout the water column. A number of these upground reservoirs have aereation systems installed to promote mixing of the bottom and surface waters to control algal blooms. These factors modify the water density and temperature gradients neccesary for thermal stratifiction. As a result, these waterbodies behave quite differently from other lake types (i.e., dammed impoundments, natural lakes and dugouts). Due to their unique behavior, futher studies into the dynamics of these water resources should be expanded to assess their true impacts on the resident biotic community.

Water Column Organics Sampling

Summer sampling of priority pollutant organochlorine pesticides in 10 water supply lakes revealed the presence of a number of compounds in the surface water and/or the lower water column in close proximity to the sediment/water interface (Table 7). Compounds detected included 4,4 -DDE (one lake), dieldrin (six lakes), endrin (one lake), endosulfan I (one lake), endosulfan II (three lakes), heptachlor epoxide (one lake), isomers of hexachlorocyclohexane, a-BHC, and/or d-BHC, and/or y-BHC (nine lakes), and methoxychlor (one lake). The lake with the detected pesticides was Each Lake with five compounds.

Echo Lake is a 14.5 acre impoundment used primarily for recreation. A possible source for the pesticide contamination may be from a public golf course within the lake's watershed. Isomers of hexachlorocyclohexane are the primary component of the popular pesticide lindane. Formulations of lindane were used to control grubs and worms infestations in turfgrass and ornamental plants. The intensive use of pesticides and herbicides on large areas such as golf courses and the possible runoff of these chemicals into adjacent waterbodies and the effect that they have on the environment should be investigated further.

There were only two lakes with organochlorine pesticide concentrations above the detection limits simul-taneously in the water column and in the sediment. Deer Creek Reservoir had d-BHC concetrations of 0.003 ug/l for the lower water column and 6.24 ug/kg within the sediment. Van Buren Lake contained dieldrin concentrations of 0.005 ug/l in the water column and 1.14 ug/kg in the sediment.

This is not to imply that a relationship does not exist between sediment and water column concentrations of pesticides. Because many physical and chemical variables are interacting between the sediment and water column interface, we are unable, without further analyses to correlate sediment and water column organochlorine pesticide concentrations.

Comparisons of the concentrations of detected pesticides with Ohio Water Quality Standards (WQS) revealed that the chlorinated cyclodienes (aldrin, dieldrin and eldrin) were the only pesticides that exceeded the thirty-day average aquatic life and/or the thirty-day average human health criterion (Table 5). Exceedences occured in the spring and summer sampling runs in both thermally stratified anoxic and unstratified well oxygenated lakes.

The relationship between these ambient environmental lake conditions, observed pesticide concentration and the risk, if any, to human health and aquatic life are not well documented for Ohio lakes. However, with the analytical detection limits being quite small (i.e., parts per billon), pesticide concentration in lakes probably pose minimal risk to human health.

Sediment Sampling

Of the 11 heavy metals analyzed, seven were detected in concentrations considered elevated or highly elevated based on surficial lake sediment classification system described by Kelly, Hite and Rogers (1984) for Illinois lakes (Table 8). Copper was elevated or highly elevated in 17 lakes. Chromium was elevated or highly elevated in 13 lakes. Arsenic was elevated or highly elevated in 10 lakes. Elevated or highly elevated concentrations existed for lead, manganese, mercury and zinc but to a lesser degree. All other parameter concentrations were classified as normal or below normal in sediments for each lake.

The importance of higher than normal detection for concentrations arsenic, chromium, copper and zinc in several lakes was not readily apparent and probably will not be until

sediment criteria are promulgated. It is interesting to note that there is a relationship between elevated and highly elevated levels of arsenic and zinc and the percent of volatile solids in lakes. Lakes with volatile solids greater than 10 percent showed significant increases in the concentrations of these heavy metals. This is expected within lakes where binding of heavy metals to organic matter takes place.

Sediment phosphorus results were highly elevated in eight lakes according to the Illinois classification system (Table 5). An exception was found in Crystal Lake. Crystal Lake, a 10.5 acre natural lake, exhibited highly elevated phosphorus concentrations in the sediment (2740 mg/kg). The lake was well stratified in the summer reaching 0 mg/l of dissolved oxygen at five meters in depth. However, the total phosphorus level in the water column was less than 0.005mg/l throughout the summer.

In most cases, a relationship existed between summer phosphorus levels in the water column and sediment concentrations. Most of these lakes stratify in the summer and have near anoxic conditions present near the bottom. The anoxic conditions favor the release of phosphorus out of the sediment and into the water column. It is likely that different mechanisms are governing the phosphorus loading of this lake (e.g., internal recycling versus external loadings). The spatial and temporal heterogeneity of lakes should be a major consideration when establishing a lakes database for comparative purposes.

Sediment organic sampling detected 10 priority pollutant organchlorine pesticides, one or more of which were present in 18 lakes sampled (Table 9). The 10 pesticides included: dieldrin endrin endosulfan II, hexochlorobenzene, and its isomers (a-BHC, b-BHC and d-BHC), methoxychlor, 4,4 DDD and 4,4 DDE. Concentrations were generally less than 10 ug/kg (1 ug/kg = 1 ppb). There were no polychlorinated biphenyls (PCBs) detected in the lakes sampled for organic compounds.

Fish Tissue Sampling

Fish tissue samples were collected from 60 Ohio lakes and reservoirs under a state funded comprehensive tissue program jointly coordinated by Ohio EPA, Ohio DNR, Ohio Department of Health and Ohio Department of Agriculture. Lakes and reservoirs sampled for fish tissue contamination included: Atwood Reservoir, Nimisila Reservoir, Pleasant Hill Lake, Tappan Lake, Guilford Lake, Michael J. Kirwin Reservoir (a.k.a. West Branch Reservoir), Salt Fork Reservoir and O'Shaughnessy Reservoir. Specific results of these analyses are reported in the 1996 Ohio Water Resource Inventory Volume 2: Fish Tissue Contamination Monitoring Program (Ohio EPA 1996).

Fish tissue analyses from eight Ohio lakes and reservoirs from the 1993, 1994 and 1995 sampling years revealed detectable concentrations of mercury present in all but one lake (Tappan Lake). The mercury concentrations ranged from 0.0167 to 0.181 microgram per gram (1 ug/g = 1 PPM). The only other metal detected from the above lakes was lead. Four fish collected from Michael J.Kirwin Reservoir showed concentrations of lead in their tissue. The lead concentrations ranged from 0.0553 to 0.455 ug/g.

The source of the mercury contamination is unknown, but due to its ubiquitousness in inland lakes, atmospheric deposition may be a likely source. The significance of the lead concentration is unknown. Currently, the Ohio Department of Health has no reference dose for the health effects from lead.

Sport fish consumption advisories can be issued by either the Ohio Department of Health (ODH) or a local health department. ODH is reviewing a fish consumption advisory grid that is based upon a health protection value for mercury residue ingested from fish tissue. Because safe levels and body burdens for many compounds are simply not known, practices to decrease the risk of exposure to these chemicals through consumption of contaminated fish always should be encouraged. Generally recommended practices include: 1) eat only fish skinned and boned, with as much fat as possible removed, 2) roast, grill, broil, or bake fish--do not boil, fry or microwave, and 3) do not eat or reuse juices or fat cooked out of fish.

Trophic State Assessments

Carlson's Trophic State Index (TSI) values were calculated for all lake sampling locations using two parameters: mean chlorophyll *a* concentration of the two summer surface samples and total phosphorus concentration of the spring surface sampling run (Appendix Table I-1). For each sampling location a final TSI value was obtained by averaging the mean chlorophyll *a* TSI and the total spring phosphorus TSI. Secchi depth was omitted as a trophic status indicator in the final TSI value since it often is abnormally high because of light attenuating substances other than algal particles (such as turbidity). This is an important consideration in Ohio since many reservoirs and shallow lakes have high suspended sediment loads. However, Secchi depth TSI values often can clarify observed relationships between the two other TSI values. The trophic state assessment for each lake was determined using the final TSI scaled as follows: oligotrophic--final TSI less than 38, mesotrophic-- final TSI 38 to 47, eutrophic--final TSI 48 to 66 and hypereutrophic--final TSI greater than 66.

Final TSI values for the 66 lakes sampled in 1993, 1994 and 1995 ranged from 37 for Forked Run Lake and Opossum Creek Reserve Lake to 79 for Stages Pond. Breakdown of the 66 lakes by trophic state indicates that two lakes (3%) rated oligotrophic, 10 lakes (15%) mesotrophic, 45 lakes (68%) eutrophic and nine lakes (14%) hypereutrophic (Figure 3).

As with 1990 and 1992 lake sampling, most lakes fell into the 48 to 66 TSI range (eutrophic) which indicates that enriched, productive conditions continue to be the norm for Ohio's lakes.

Differences between the two oligotrophic lakes (Forked Run and Opossum Creek Reserve Lake) and the nine hypereutrophic lakes (Bucyrus Reservoir #2, City of Dayton Lake #1, Huffman Pond, Lampson Reservoir, Oak Thorpe Reservoir, Pleasant Hill Lake, Stages Pond, Van Buren Lake and

West Reservoir) were dramatic. In the oligotrophic lakes, summer total phosphorus and summer chlorophyll-a concentrations were very low with values less than 60 ug/l and 0.81 ug/l respectively. Conversely, the hypereutrophic lakes had concentrations of phosphorus 27 times higher than their oligotrophic counterparts (50 ug/l to 1660 ug/l). This translated into summer chlorophyll-a concentrations from over 134 to 214 times higher than the lowest concentration found in oligotrophic lakes (31.02 ug/l to 173.47 ug/l).

As in previous sampling years, the hypereutrophic lakes as a group displayed much more variable phosphorus and chlorophyll-a concentrations, which is probably another indication of the highly productive, but unstable nature of these lakes.

Recognizing that factors other than nutrients can limit biomass and productivity in Ohio lakes and reservoirs, Secchi depth, total phosphorus and chlorophyll-a were combined to identify non-nutrient limiting factors. Using an expanded trophic state concept developed by Carlson (1991), with modified X Y axis addendum (1991), deviations of TSI chlorophyll-a (TSI (chl)) from TSI total phosphorus (TSI(tp)) would indicate the degree to which phosphorus limits algal growth. Deviations of TSI(chl) from TSI Secchi depth (TSI(sd)) would indicate the degree of light penetration relative to the number and size of suspended particles in the water column. By plotting these deviations simultaneously on a single graph (Figure 4), we then would be able to identify situations where nutrients may not limit algal biomass.

For example, if TSI(chl) - TSI(tp) is plotted on a horizontal X axis, then points above the line indicate a strong phosphorus limitation associated with total nitrogen/total phosphorus ratios greater than 33:1. This is the ratio where phosphorus is the limiting nutrient determining algal growth. Points lying between 0 and minus 10 below the X axis indicate a lowering degree of phosphorus limitation or TN/TP ratios less than 33:1 but usually greater than 20:1. Points between minus 10 and minus 20 indicate that the degree of phosphorus limitation that is acting upon algal growth is minimal. Points below minus 20 suggests that something other than phosphorus is limiting algal growth (i.e., non-algal turbidity, zooplankton grazing, nitrogen limitation) Points lying to the left of the Y axis would be related to situations where very small particles predominate or where non-algal factors such as color and turbidity affect transparency. Points lying to the right of the Y axis exhibit situations where large particulates, such as blue-green algae, exist and where transparency is less affected by these particulates.

Carlson's graphing methodology allows us to gain considerable information not only about trophic status but about potential misclassifications based either on Secchi depth or phosphorus. Plotting the phosphorus and Secchi depth deviations simultaneously for 1993, 1994 and 1995 lake data (Figure 4), the majority of points lie in the small silt/clay particle non-phosphorus limited quadrant. This identifies non-algal turbid situations. However, by incorporating Secchi depth and summer phosphorus TSIs into a final TSI value, these lakes would be classified incorrectly as eutrophic based on those parameters even though the algal chlorophyll may be very low. This is not so much evident at the extreme ends of the trophic scale where each of the three parameters more or less correlat

with one another, but rather in the eutrophic range (final TSI 48 - 66) where most of Ohio's lakes and reservoirs are classified. In these turbid eutrophic lakes and reservoirs, phosphorus is apparently sorbed onto small silt/clay particles and made unavailable to algae. This results in phosphorus correlating with transparency but not with chlorophyll.

Section 314 of the Clean Water Act requires that all lakes in the nation be classified according to their "eutrophic" character. Using the trophic state indices is adequate as long as those indices are the factors that limit biomass and truly reflect the trophic character of the system. This approach becomes a problem when lakes and reservoirs with biomass not limited by nutrients are pigeonholed into this classification. This is especially true in Ohio's lakes and reservoirs where non-algal turbidity acts to limit biomass. The key point is that not only do we need to estimate the nutrient limitations of our lakes and reservoirs but also identify the nature of these limitations. The classical trophic state index as currently used should be expanded to take into account the non-nutrient effects on biomass. This will present us with a more accurate and balanced approach to assessing the true trophic and biological condition of Ohio's lake resources.

Limiting Nutrients

An attempt was made to determine the major nutrient that would limit the growth of algae in the sampled lakes. Knowledge of the limiting nutrient can be an important factor in the final selection of lake restoration techniques (e.g., use of alum to bind phosphorus). Two methods commonly used to determine limiting nutrients in lakes are 1) the ratio of total nitrogen to total phosphorus (TN/TP) and 2) algae bioassay using the green algae *Selenastrum capricornutum*. Smith (1982) reports that TN/TP ratios above 17:1 indicates usually indicate that phosphorus is the important nutrient limiting the growth of algae. Others have suggested that ratios less than 7:1 indicate nitrogen limitation.

As a preliminary screening process, only summer TN/TP ratios from 1.5 meters in depth were used to determine the limiting nutrient for 1993, 1994 and 1995 lakes. Of the 64 lakes that had summer TN/TP ratios at 1.5 meters below the surface, 30 (47%) had ratios ranging between 18 and 260 and were considered phosphorus limited. Only seven lakes (12.5%) had ratios less than 7:1. These lakes, Cedarville Reservoir, Clearfork Reservoir, East Reservoir, Pleasant Hill Reservoir, Echo Lake, Tappan Lake and Rio Grande Reservoir are lakes that appear nitrogen limited. The remaining 27 lakes (40.5%) had ratios between 7:1 and 17:1.

It is uncertain what the limiting nutrient is for these lakes. For lakes with TN/TP ratios close to either of the above limits, algae bioassays should be conducted to verify the limiting nutrient prior to any restoration or protection activity.

It is interesting to note that a large percentage (66%) of upground reservoirs exhibited high TN/TP values. These values ranged from 56 to 260 ug/l indicating extreme phosphorus limitation. Since the majority of upground reservoirs obtain their water source from

adjacent streams during low flow conditions, efforts should be made to protect the source waters of these upground reservoirs by evaluating nutrient input from upstream point sources.

Historical Perspectives

Thirty lakes that were sampled in 1993, 1994 and 1995 were previously assessed in the 1970s and 1980s. Of these thirty lakes, five lakes improved their trophic state classification while eight lakes declined in their trophic state. Most lake reclassifications ranged between a plus or minus 10 final trophic points. However, four lakes (Lake Rupert, M.J. Kirwin Reservoir, Mt. Gilead Lake and Pleasant Hill Reservoir) had values that ranged from 11 to 18 final TSI points from their original classification. Only Mt Gilead Lake showed an improved trophic condition (being reclassified from hypereutrophic to eutrophic) in the last twenty years.

A frequency histogram of the final trophic state for 1993, 1994 and 1995 sampled lakes fails to show any significant departure of TSI distribution from previous sampled years. As a group, impoundments appear to be more productive than other lake types. This is due probably to differences in watershed size and/or the degree of enrichment of the receiving waters for these types of lakes.

Earlier TSI calculations were performed by averaging TSI (chl), TSI (tp) and TSI(sd) in the final calculations. The current methodology averages the value of the 2 summer TSI (chl) and the spring TSI(tp). Significant differences in the final TSI value for these lakes resulted.. It was found that omiting the secchi depth in favor of the average summer chlorophyll-a concentrations significantly lowered the final TSI values (distribution-free sign test, where $B^* = 4.34, \propto < .0002,$*). The test strongly supports that non-nutrient limitations are interfering with the algal and transparency relationship in Ohio lakes and reservoirs. It also indicates that improved prediction of the trophic state of these lakes may be possible by using chlorophyll-a and total phosphorus.*

It must be remembered that "trophic state" is a measurement of a system at a given point in time. This snapshot approach, while useful for classifying a lakes trophic condition, poses problems when we try to assess its "trophic progression" through time. For example, one such dilemma is that no algal species extend over the entire year in significant numbers to provide a benchmark in determining an "annual" chlorophyll-a concentration for a lake. The variations in chlorophyll-a concentrations reflect the seasonal population dynamics of the various algae species present in the lake at that time. It is obvious that greater sampling frequency is needed in lakes to make meaningful, and hopefully, appropriate determinations on the true trophic character of Ohio's lakes.

Table 1. List of Ohio public lakes, ponds, and reservoirs sampled in 1993, 1994, and 1995.

WaterBody ID#	Lake Name	County	Eco-region	Surface Area (acres)	Current Public Uses	Lake Type
		1993 Lakes				
OH12 5-383	Atwood Reservoir (2 sites)	Tuscarawas	4	1540.0	R FC	DPI
OH 7 44- 35	Barnesville Reservoir #3	Belmont	4	98.0	WS R	DPI
OH84 12-201	Bellevue Reservoir #5	Huron	5	87.0	WS R	UP
OH50 15-155	Cedarville Reservoir	Greene	5	5.0	WS R	UP
OH16 15-328	Clear Fork Reservoir (2 sites)	Richland	3	1010.0	WS R	DPI
OH53 20- 58	East Fork Lake (2 sites)	Clermont	2	2160.0	WS R FC	DPI
OH10 33-359	East Reservoir	Summit	3	201.0	R	NL
OH28 63-248	Forked Run Lake	Meigs	4	104.0	R	DPI
OH10 33-358	Long Lake (2 sites)	Summit	3	180.0	WS R	NL
OH10 12-360	Nimisila Reservoir	Summit	3	825.0	WS R	DPI
OH10 33-356	North Reservoir	Summit	3	160.0	R	NL
OH25 17-124	Oak Thorpe Reservoir	Fairfield	3	43.0	R FC C	DPI
OH16 1- 11	Pleasant Hill Lake (2 sites)	Ashland	3	850.0	R FC	DPI
OH25 27-111	Rock Mill Lake	Fairfield	5	19.8	R FC C	DPI
OH16 28-326	Shelby Reservoir #1	Richland	3	29.0	WS R	UP
OH16 21-327	Shelby Reservoir #2	Richland	3	12.0	WS R	UP
OH40 2-300	Stage's Pond	Pickaway	5	30.0	C	NL
OH14 2-180	Tappan Lake (2 sites)	Harrison	4	2350.0	R FC	DPI
OH10 33-361	West Reservoir	Summit	6	104.0	R	NL
OH35 12-106	White Sulphur Lake	Delaware	5	53.0	WS R	DO
OH52 13- 69	Wilmington Reservoir #1	Clinton	5	16.0	WS	UP
OH52 11- 68	Wilmington Reservoir #2	Clinton	5	54.0	WS	UP
		1994 Lakes				
OH78 4-336	Aldrich Pond	Sandusky	1	34.0	R	DO
OH36 35-268	Amann Reservoir	Morrow	5	24.0	WS R	DPI
OH36 2-421	Blue Limestone Park Quarry Lake	Delaware	5	6.8	R	DO
OH77 10-423	Bowling Green Upground Resv.	Wood	1	20.5	WS	UP
OH21 43-158	Cambridge Reservoir	Guernsey	4	26.0	WS R	DPI
OH58 18- 55	C.J Brown Reservoir (2 sites)	Clark	5	2120.0	R FC	DPI
OH 1 14-311	Crystal Lake	Portage	3	25.0	R	NL
OH53 1-258	City of Dayton Lake #1	Montgomery	5	10.0	R	DO
OH 1 24-348	Deer Creek Reservoir	Stark	3	313.0	WS R	DPI
OH37 15-107	Delco Water Company Lake	Delaware	5	6.0	WS	UP
OH56 12-252	Echo Lake	Miami	5	14.5	WS R	DPI
OH 2 5-239	Evans Lake	Mahoning	3	566.0	WS R	DPI
OH75 9-226	Evergreen Lake	Lucas	1	8.5	R	DPI
OH 4 34- 74	Guilford Lake	Columbiana	3	396.0	R	DPI
OH58 5-154	Huffman Pond	Greene	5	43.0	R	DO

Table 1. Continued

Waterbody ID #	Lake Name	County	Eco-Region	Surface Area (acres)	Current Public Uses	Lake Type
OH 1 14-309	Michael J. Kirwin Reservoir	Portage	3	2650.0	WS R FC	DPI
OH18 38-265	Maple Grove Lake	Morrow	5	7.0	R	DPI
OH36 16-266	Mt. Gilead Lake	Morrow	5	11.0	WS R	DPI
OH23 22-274	Maysville Reg. Water Dist. Lake	Muskingum	4	45.0	WS R	DO
OH 2 23-378	Meander Creek Reservoir (2 sites)	Trumbull	3	2010.0	WS C	DPI
OH21 36-273	New Concord Reservoir	Muskingum	4	9.6	WS R	DPI
OH78 4-403	North Baltimore Reservoir	Wood	1	29.0	WS R	UP
OH21 19-159	Salt Fork Reservoir (2 sites)	Guernsey	4	2952.0	WS R	DPI
OH77 4-169	Van Buren Lake	Hancock	1	53.0	R	DPI
		1995 Lakes				
OH61 23-48	Acton Lake	Butler	5	604.0	WS R	DPI
OH80 17-83	Bucyrus Reservoir #1	Crawford	5	36.0	WS R	DPI
OH80 17-86	Bucyrus Reservoir #2	Crawford	5	31.0	WS R	DPI
OH80 17-87	Bucyrus Reservoir #4	Crawford	5	150.0	WS	UP
OH91 29-375	Grand River Wildlife Area Lake	Trumbull	3	11.2	R	DPI
OH25 23-119	Lake Loretta	Fairfield	3	5.0	R	DPI
OH25 7-120	Lake Romona	Fairfield	3	5.0	R FC	DPI
OH30 17-392	Lake Rupert	Vinton	4	325.0	WS R	DPI
OH26 2-22	Lake Snowden	Athens	4	131.0	WS R	DPI
OH92 23-19	Lampson Reservoir	Ashtabula	3	20.0	WS R	UP
OH25 20-283	New Lexington Reservoir #1	Perry	4	44.0	WS R FC	DPI
OH60 34-259	Opposum Creek Pond #1	Montgomery	5	5.0	R	DPI
OH60 34-260	Opposum Creek Reserve Lake	Montgomery	5	18.0	R	DPI
OH37 25-101	O'Shaughnessy Reservoir	Delaware	5	920.0	WS R	DPI
OH83 11-334	Raccoon Creek Reservoir	Sandusky	1	34.0	WS R	UP
OH35 30-386	Richwood Park Lake	Union	5	16.0	R	DO
OH31 51-148	Rio Grande Reservoir	Gallia	4	7.2	WS	DPI
OH91 1-20	Roaming Rock Lake	Ashtabula	3	464.0	WS	DPI
OH60 19-47	Sebald Pond #1	Butler	5	5.4	R	DPI
OH90 10-305	Sunny Lake	Portage	3	63.0	R	NL

Ecoregion:
- 1 - Huron/Erie Lake Plain
- 2 - Interior Plateau
- 3 - Erie/Ontario Lake Plain
- 4 - Western Allegheny Plateau
- 5 - Eastern Corn Belt Plains

Current Public Uses:
- WS - Water Supply
- R - Recreation
- FC - Flood Control
- C - Conservation

Lake Type:
- DO - Dugout Reservoir
- DPI - Dammed Impoundment
- NL - Natural Lake
- UP - Upground Reservoir

Table 2. List of conventional parameters (nutrients, metals, *etc.*) analyzed in water column samples collected from Ohio public lakes, ponds, and reservoirs, 1993, 1994, and 1995.

Field Parameter Profiles	Metals
Conductivity	Arsenic
Dissolved Oxygen	Cadmium
pH	Calcium
Temperature	Chromium
	Copper
Nutrients, *etc.*	Iron
	Lead
Alkalinity	Magnesium
Biochemical Oxygen Demand	Manganese
Total Phosphorus	Mercury*
Total Dissolved Solids	Strontium
Total Suspended Solids	Zinc
Hardness	
Sulfate	Other
Ammonia	
Nitrate-Nitrite	Chlorophyll *a*
Nitrite	Secchi Depth
Total Kjeldahl Nitrogen	

* Selected 1995 lakes - spring sample only.

Table 3. List of conventional parameters (nutrients, metals, *etc.*) analyzed in surficial sediment samples collected from Ohio public lakes, ponds, and reservoirs, 1993, 1994, and 1995. Those parameters in boldface were analyzed in select lakes only.

Metals	Nutrients
Arsenic	Phosphorus
Cadmium	Ammonia
Chromium	
Copper	Others
Lead	
Manganese	**% Residue**
Mercury	**% Volatile Solids**
Nickel	**% Moisture**
Selenium	**Particle Size**
Strontium	**Cyanide**
Zinc	

Table 4. List of priority pollutant organochlorine pesticides and polychlorinated biphenyls (PCBs) analyzed in sediment and water column samples collected from select Ohio public lakes, ponds, and reservoirs, 1993, 1994, and 1995.

Chemical Abstracts Service (CAS) No.	Compound
319-84-6	a-BHC
319-85-7	b-BHC
58-89-9	y-BHC
319-86-8	d-BHC
309-00-2	Aldrin
60-57-1	Dieldrin
76-44-8	Heptachlor
1024-57-3	Heptachlor epoxide
959-98-8	Endosulfan I
33212-65-9	Endosulfan II
1031-07-8	Endosulfan sulfate
72-20-8	Endrin
7421-93-4	Endrin aldehyde
72-54-8	4,4'-DDD
72-55-9	4,4'-DDE
50-29-3	4,4'-DDT
72-43-5	Methoxychlor
2385-85-5	Mirex
118-74-1	Hexachlorobenzene*
57-74-9	Chlordane*
8001-35-2	Toxaphene*
12674-11-2	PCB-1016
11104-28-2	PCB-1221
11141-16-5	PCB-1232
53469-21-9	PCB-1242
12672-29-6	PCB-1248
11097-69-1	PCB-1254
11096-82-5	PCB-1260

* Sediment samples only.

Table 5. Water Quality Standards exceedences of human health, aquatic life, and drinking water criteria (OAC Chapter 3745-1) for chemical/physical parameters measured in surface water column samples collected from Ohio public lakes, ponds, and reservoirs, 1993, 1994, and 1995 (units are ug/l). All sampling locations were L-1 sites unless otherwise indicated.

Lake Name	Season (Sp,Su1,Su2)	Exceedence Parameter (value)
	1993 Lakes	
Atwood Reservoir	Sp, Su1	Manganese (97, 55)*
Atwood Reservoir L-2	Su1, Su2	Manganese (64, 248)*
Clear Fork Reservoir	Sp, Su1, Su2	Manganese (65, 122, 114)*
Clear Fork Reservoir L-2	Su1, Su2	Iron (1210)***, Manganese (103, 132)*
East Fork Lake	Su2	Dieldrin (0.003)**, Manganese (56)*
East Fork Lake L-2	Su1	D.O. (5.8)***
	Su2	Manganese (87)*
East Reservoir	Su2	Manganese (182)*
Long Lake	Su2	Manganese (120)*
Long Lake L-2	Sp, Su1, Su2	Manganese (66, 66, 107)*
Nimisila Reservoir L-2	Su2	Manganese (91)*
North Reservoir	Su1	Iron (1200)***
Oak Thorpe Reservoir	Sp, Su1, Su2	Manganese (66, 56, 192)*
Pleasant Hill Lake	Sp, Su1, Su2	Manganese (128, 170, 81)*
Pleasant Hill Lake L-2	Sp, Su1, Su2	Manganese (68, 87, 105)*
Rock Mill Lake	Sp, Su1, Su2	Manganese (117, 72, 93)*
Shelby Reservoir #1	Su2	Copper (31)***, Manganese (104)*
Shelby Reservoir #2	Su2	Copper (75)***
Stages Pond	Su1, Su2	Iron (3040, 1220)***
	Sp, Su1, Su2	Manganese (147, 726, 244)*
Tappan Lake	Sp, Su2	Manganese (53, 84)*
	Su1	Total Dissolved Solids (512)*
Tappan Lake L-2	Sp, Su2	Manganese (157, 58)*
	Sp, Su2	Total Dissolved Solids (526, 514)*
West Reservoir	Sp, Su1, Su2	Manganese (203, 69, 206)*
Wilmington Reservoir #1	Su1	Dieldrin (0.003)**
	1994 Lakes	
Aldrich Pond	Su2	D.O. (5.3)***
Amann Reservoir	Sp, Su1, Su2	Manganese (199, 283, 605)*
	Su1	D.O. (2.8)***
Blue Limestone Park Quarry Lake	Su1	Copper (59)***, D.O. (5.2)***
	Su1, Su2	Manganese (109, 78)*
	Su1	D.O. (5.2)***
Bowling Green Upground Reservoir	Sp	Dieldrin (0.003)**
	Su2	D.O. (5.5)***
Cambridge Reservoir	Sp, Su1, Su2	Manganese (57, 83, 73)*

Table 5. Continued.

Lake Name	Season (Sp,Su1,Su2)	Exceedence Parameter (value)
	Su2	Sulfates (304)*
	Su1, Su2	Total Dissolved Solids (784, 639)*
C.J. Brown Reservoir	Su1	Manganese (62)*
C.J. Brown Reservoir L-2	Su1	Iron (1200)***, Manganese (72)*
Deer Creek Reservoir	Sp, Su1, Su2	Manganese (263, 82, 176)*
Delco Water Company Lake	Su1	Copper (22)***
Echo Lake	Su1	Dieldrin (0.002)**
	Su1, Su2	Iron (1020, 1010)***
	Sp, Su1, Su2	Manganese (83, 135, 124)*
Evans Lake Sp, Su2		Manganese (282, 142)*
	Su1, Su2	Sulfates (330, 333)*
	Sp, Su1, Su2	Total Dissolved Solids (560, 692, 628)*
Evergreen Lake	Su2	D.O. (4.9)***
Huffman Pond	Su1	Dieldrin (0.002)**
Mt. Gilead Lake	Sp, Su1, Su2	Manganese (71, 115, 145)*
Meander Creek Reservoir	Su2	Manganese (80)*
Salt Fork Reservoir	Su2	Iron (3450)***
	Sp, Su1, Su2	Manganese (157, 135, 7570)*
Salt Fork Reservoir L-2	Su1	D.O. (5.8)***
	Sp, Su1, Su2	Manganese (80, 242, 176)*
Van Buren Lake	Sp	Dieldrin (0.005)*****
	Sp, Su1, Su2	Iron (1790, 3370, 3410)***
	1995 Lakes	
Acton Lake	Su2	Manganese (63)*
Bucyrus Reservoir #1	Sp	D.O. (5.4)**
	Sp	Manganese (88)*
	Sp	Mercury (0.200)*****
Bucyrus Reservoir #2	Sp	Mercury (0.400)*****
Bucyrus Reservoir #4	Sp	Mercury (0.200)*****
Grand River Wildlife Area Lake	Su1	D.O. (2.6)***
	Sp, Su1, Su2	Iron (1630, 2200, 3940)***
	Sp, Su1, Su2	Manganese (890, 2100, 2880)*
Lake Loretta	Sp, Su2	Manganese (51, 749)*
	Sp	Mercury (0.200)*****
Lake Romona	Sp, Su1, Su2	Manganese (46, 110, 334)*
	Sp	Mercury (0.200)*****
Lake Rupert	Su1, Su2	Manganese (7840, 914)*
Lake Snowden	Sp, Su2	Manganese (104, 183)*

Table 5. Continued.

Lake Name	Season (Sp,Su1,Su2)	Exceedence Parameter (value)
New Lexington Reservoir #1	Sp, Su2	Manganese (86, 293)*
O'Shaughnessy Reservoir	Sp	Dieldrin (0.003)**(0.005)****
	Su1, Su2	D.O. (3.5, 5.4)***
	Sp	Endrin (0.003)***
	Sp, Su2	Iron (3070, 1010)***
	Su1, Su2	Manganese (116, 56)*
Raccoon Creek Reservoir	Sp, Su1, Su2	Copper (63, 92, 29)***
	Sp	Mercury (0.200)*****
Richwood Park Lake	Su2	Manganese (55)*
	Sp	Mercury (0.78)*****
Rio Grande Reservoir	Su2	Iron (1133)***
	Su2	Manganese (119)*
Roaming Rock Lake	Sp	Manganese (57)*
	Sp	Mercury (0.200)*****
Sebald Pond #1	Sp	Aldrin (0.017)*****
	Su2	Iron (5070)***
	Sp, Su1, Su2	Manganese (128, 315, 933)*
Sunny Lake	Sp, Su1, Su2	Iron (1510, 1200, 1300)***
	Sp, Su1, Su2	Manganese (63, 108, 79)*

Sp - Spring Visit Su1 - Midsummer/Early Fall Visit #1 Su2 -Midsummer/Early Fall Visit #2

* Indicates an exceedence of Public Water Supply drinking water criterion (30-day average).
** Indicates an exceedence of Human Health criterion (30-day average).
*** Indicates an exceedence of Exceptional Warmwater Habitat aquatic life criterion (30-day average).

Table 6. Ohio lakes, ponds, and reservoirs with hypolimnetic dissolved oxygen (D.O.) levels falling below 2.0 mg/l during at least one midsummer/early fall sampling visit, 1993, 1994, and 1995. All sampling locations were L-1 sites unless otherwise indicated.

Lake	Minimum D.O. Recorded (mg/l)		Lake Depth <2.0 mg/l (m)		Total Lake Depth (m)
	Su1	Su2	Su1	Su2	
1993 Lakes					
Atwood Lake	0.4	0.2	5.0	7.0	10.4
Atwood Lake L-2	0.7	5.3	5.0	0.0	5.4
Barnesville Reservoir	0.6	0.3	5.0	5.0	15.0
Clear Fork Reservoir	0.2	6.8	6.0	5.5	6.5
East Fork Lake	0.1	6.1	5.0	0.0	7.5
East Fork Lake L-2*	0.2	0.4	5.0	5.5	7.5
East Reservoir*	0.0	0.0	3.5	6.0	8.5
Forked Run Lake*	0.7	0.4	6.0	5.0	8.7
Long Lake*	0.0	0.0	4.0	5.0	16.5
Long Lake L-2*	0.8	1.2	3.0	4.5	5.0
Nimisila Reservoir L-2	0.0	0.0	3.5	6.0	7.5
Oak Thorpe Reservoir*	0.6	0.7	3.0	5.0	6.0
Pleasant Hill Lake*	0.2	4.6	4.0	0.0	11.5
Rock Mill Lake*	1.3	1.9	3.0	3.5	3.5
Shelby Reservoir #1	1.2	9.1	3.5	0.0	4.3
Stages Pond	0.4	8.0	2.0	0.0	2.0
Tappan Lake	0.7	0.1	4.0	6.0	8.5
Tappan Lake L-2	0.4	6.2	4.0	0.0	5.3
West Reservoir	0.0	0.0	3.5	4.5	5.0
White Sulpher Lake*	0.4	0.5	5.0	6.0	15.0
1994 Lakes					
Cambridge Reservoir	0.0	0.2	8.0	0.1	9.5
C.J. Brown Reservoir*	0.1	0.2	3.0	5.0	12.0
Crystal Lake	0.3	0.0	5.0	5.0	10.5
Deer Creek Lake	0.0	0.0	3.5	4.5	6.0
Evans Lake	0.0	0.0	5.0	5.0	8.5
Evergreen Lake*	0.3	0.0	2.0	2.0	4.1
Guildford Lake	0.0	0.0	3.0	3.5	7.5
Michael J. Kirwin Reservoir	0.7	0.0	6.0	7.0	14.5
Mt. Gilead Lake	0.2	4.8	4.0	0.0	4.5
Maysville Reg. Water Dist. Lake*	0.4	0.3	8.0	7.5	9.5
Meander Creek Reservoir	0.2	0.0	4.0	6.0	8.5
New Concord Reservoir	0.0	0.2	5.0	4.0	8.8
North Baltimore Reservoir	0.2	1.2	4.0	5.0	5.3
Salt Fork Reservoir	0.0	0.3	6.0	6.0	11.2

Table 6. Continued.

Lake	Minimum D.O. Recorded (mg/l) Su1	Su2	Lake Depth <2.0 mg/l (m) Su1	Su2	Total Lake Depth (m)
1995 Lakes					
Bucyrus Reservoir #1*	0.3	0.5	2.5	2.0	4.2
Bucyrus Reservoir #2*	0.3	0.4	2.0	1.5	3.5
Bucyrus Reservoir #4	0.5	0.8	7.0	8.0	11.2
Grand River Wildlife Area Lake	0.0	0.0	1.3	1.3	2.7
Lake Romona	0.6	6.0	4.0	0.0	4.2
Lampson Reservoir	0.5	0.4	2.0	2.7	3.0
O'Shaughnessy Reservoir*	0.2	3.8	6.0	0.0	16.0
Roaming Rock Lake*	0.0	0.0	4.0	3.0	11.5
Sunny Lake	0.0	0.0	1.7	1.7	3.0

Su1 - Midsummer/Early Fall Visit #1 Su2 -Midsummer/Early Fall Visit #2

* Spring sample also with low hypolimnetic D.O. levels.

Table 7. Concentrations(ug/l = ppb) of priority pollutant organochlorine pesticides detected in upper or lower water column samples collected from Ohio public lakes, ponds, and reservoirs, 1993, 1994 and 1995.* All sampling locations were L-1 sites unless otherwise indicated.

Lake	Depth(m)	Concentration (ug/l) a-BHC	d-BHC	4,4'-DDE	y-BHC	Heptachlor Epoxide	Endo-sulfan I	Dieldrin	Endrin	Endo-sulfan II	Methoxy-chlor
1993 Lakes											
East Fork Lake	7.5	0.009	**	**	**	**	**	0.002	**	**	0.011
East Fork Lake (L-2)	7.5	0.004	**	**	0.003	**	**	**	**	**	**
Wilmington Reservoir #1	4.0	**	**	**	**	**	**	0.003	0.002	0.003	**
Wilmington Reservoir #2	5.5	0.003	0.006	**	**	0.004	**	**	**	**	**
1994 Lakes											
Bowling Grn.Up. Resv.	7.3	**	**	**	0.006	**	**	0.003	**	**	**
C.J. Brown Reservoir	1.3	0.003	**	**	**	0.004	**	**	**	**	**
Crystal Lake	11.5	**	0.040	**	**	0.003	**	**	**	**	**
Deer Creek Reservoir	5.5	**	0.003	**	0.004	**	0.003	**	**	**	**
Echo Lake	2.0	0.003	0.007	**	0.003	**	**	0.002	**	0.005	**
Huffman Pond	1.0	0.008	0.004	**	0.004	0.004	**	0.002	**	0.004	**
Van Buren Lake	1.0	0.015	0.005	0.003	0.008	**	**	0.005	**	**	**
1995 Lakes											
Bucyrus Reservoir #1	4.0	**	0.003	**	0.034	**	**	**		**	**
Lake Snowden	0.5	0.002	**	**	**	**	**	**	**	**	**
New Lexingt. Resv. #1	0.5	0.002	**	**	**	**	**	**	**	**	**
O'Shaughnessy Resv.	21.0	0.002	0.008	**	**	**	**	0.003	**	**	**
Sebald Pond #1	2.0	**	0.011	**	0.005	0.018	**	**	**	**	**

* Compounds listed are those that were measured above corrected method detection limits in at least one sample from the sampled lakes; compounds from Table 3 not listed here were not detected above corrected method detection limits in any lake sample.

** Concentration less than corrected method detection limit.

Table 8. Concentrations (mg/kg = ppm) of total phosphorus and metals in surficial sediment samples collected from Ohio public lakes, 1993, 1994, and 1995.* All sampling locations were L-1 sites unless otherwise indicated.

Lake	Sediment Concentration (mg/kg dry weight) P	Ar	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Se	Sr	Zn
1993 Lakes												
Atwood Reservoir	577	13.4	0.150	**37.9**	24.8	22.3	481	0.0320	19.1	<0.601	27.2	48.6
Atwood Reservoir (L-2)	512	12.8	0.187	**40.1**	26.2	22.7	850	0.0442	20.9	<0.811	31.5	130
Barnesville Reservoir #3	965	26.7	0.302	**31.1**	**1380**	30.2	**3680**	0.0678	21.3	<1.520	63.3	132
Bellevue Reservoir #5	547	13.6	0.353	**34.0**	32.0	39.8	437	0.0551	51.0	<0.099	19.4	139
Cedarville Reservoir	436	10.4	0.131	24.5	**1050**	16.4	316	0.0341	10.0	<0.226	492	96.2
Clear Fork Reservoir	**4160**	**28.2**	0.501	**42.8**	40.5	36.9	936	0.0595	31.1	<0.352	46.0	174
Clear Fork Reservoir (L-2)	**4910**	24.5	0.562	**33.0**	34.6	31.4	903	0.0605	25.2	<0.267	42.2	171
East Fork Lake	424	--	0.138	24.5	16.8	18.3	428	0.0296	11.3	<0.157	24.2	78.6
East Reservoir	824	**71.4**	1.400	**33.4**	48.0	**176**	997	0.1910	23.7	0.426	36.1	**395**
Forked Run Lake	657	24.9	0.209	**88.7**	31.8	30.3	470	0.0988	29.9	<0.994	46.5	123
Long Lake	**1270**	**58.8**	1.100	27.9	40.9	86.1	2280	--	19.3	<1.690	84.8	**260**
Long Lake (L-2)	697	**50.0**	**2.120**	22.5	33.3	**109**	2710	--	17.7	<1.360	131	**205**
Nimisila Reservoir	884	15.7	0.402	19.0	21.0	36.0	741	0.0608	12.6	<0.212	30.4	175
North Reservoir	521	**93.3**	0.747	28.7	34.4	86.9	637	0.1100	19.7	<0.610	77.6	**220**
Oak Thorpe Reservoir	731	21.7	0.518	29.9	28.9	23.0	757	0.0505	20.3	<0.259	55.7	144
Pleasant Hill Lake	**1440**	**29.7**	0.415	**36.0**	32.4	59.8	1150	0.0592	43.4	<0.149	41.8	163
Rock Mill Lake	791	25.6	0.665	30.0	34.5	23.3	1060	0.0501	24.6	0.274	--	**240**
Shelby Reservoir #1	796	17.4	0.846	**36.4**	**395**	53.6	632	0.0495	53.9	<0.119	256	146
Shelby Reservoir #2	566	15.4	0.770	28.5	**311**	50.3	551	0.0503	57.2	0.238	123	156
Stage's Pond	**3438**	17.1	0.654	**35.0**	34.8	32.4	493	0.0649	22.3	<0.528	91.8	165
Tappan Lake	564	8.7	0.219	24.6	23.1	21.4	819	0.0257	13.7	<0.549	30.6	**960**
Tappan Lake (L-2)	662	14.5	0.413	**42.4**	27.2	34.1	632	0.0606	20.8	<1.030	56.9	104
West Reservoir	562	15.5	1.710	**30.6**	55.5	**220**	855	0.2430	20.7	0.762	31.8	**318**
White Sulphur Lake	794	21.1	0.326	**38.9**	37.9	24.7	575	<0.0396	25.4	<0.395	174	**311**
Wilmington Reservoir #2	333	--	0.200	17.9	**328**	17.4	402	0.0210	15.0	<0.186	162	47.9
1994 Lakes												
Aldrich Pond	584	21.3	0.549	**38.9**	39.0	56.1	674	0.0840	38.5	--	193	119
Amann Reservoir	-	25.5	0.933	**33.4**	33.0	40.1	667	0.0705	32.0	--	28.3	167
Blue Limestone Pk Quarry Lake	-	15.5	1.53	24.2	**412**	12.9	538	0.1030	27.5	--	1600	**196**
Bowling Green Upgrd. Res.	814	19.7	0.577	29.8	**106**	41.7	433	0.0313	27.1	--	150	106
Cambridge Reservoir	1050	**28.8**	0.308	**49.9**	**278**	57.7	2100	<0.0525	44.7	--	123	130
C.J. Brown Reservoir	648	13.7	0.751	27.4	23.0	31.9	548	0.0499	22.8	--	135	88
Crystal Lake	**2740**	**168**	**2.11**	21.8	**382**	2.11	**3900**	**0.3210**	42.7	--	66.4	**429**
City of Dayton Lake #1	1170	13.6	1.25	**45.4**	42.0	70.9	465	0.1590	31.2	--	243	158
Deer Creek Reservoir	626	24.6	0.271	--	21.0	39.7	1420	0.0543	27.0	--	15.0	112
Delco Water Company Lake	-	24.5	0.443	**31.4**	**133**	41.2	389	0.0449	47.2	--	239	135
Echo Lake	889	26.4	0.662	**32.6**	**199**	69.1	622	0.0560	24.4	--	158	148
Evans Lake	853	**30.4**	0.882	**34.1**	58.0	75.9	**3510**	0.1080	51.8	--	57.0	**212**
Evergreen Lake	896	19.7	0.499	26.2	26.0	34.2	313	0.0668	11.2	--	24.4	71
Guilford Lake	500	4.49	0.393	6.31	5.0	19.8	308	<0.0198	6.21	--	3.2	44
Huffman Pond	1000	17.1	1.14	**31.9**	35.0	58.9	462	0.0759	22.5	--	147	162
Michael J. Kirwin Reservoir	418	25.5	0.131	28.3	20.0	36.6	1070	0.0493	29.0	--	16.1	81
Maple Grove Lake	867	26.1	0.756	28.3	24.0	52.6	738	<.00604	30.6	--	146	141
Mt. Gilead Lake	989	24.9	0.891	27.9	33.0	46.5	562	0.0660	32.2	--	124	157
Maysville Reg. Water Dist. Lake	742	**36.4**	0.578	**40.7**	--	70.7	1800	0.0545	29.6	--	125	130
Meander Creek Reservoir	<.05	<2.0	<.020	<30.0	2.0	**121**	50	--	--	--	75.0	<10
New Concord Reservoir	858	**45.6**	0.506	**51.8**	41.0	84.4	835	<0.1180	39.7	--	42.4	135
North Baltimore Reservoir	757	21.9	0.549	**34.4**	**318**	60.1	535	0.0780	27.7	--	369	108
Salt Fork Reservoir	--	**27.1**	0.511	**44.4**	32.0	53.0	**6940**	<0.0753	37.5	--	37.0	141
Salt Fork Reservoir (L-2)	845	**27.6**	0.423	**52.1**	26.0	23.9	1030	0.0550	42.1	--	35.8	136
Van Buren Lake	**962**	25.2	0.569	**36.1**	32.0	37.5	488	0.0618	--	--	83.7	119

Table 8. Continued.

Lake	Sediment Concentration (mg/kg dry weight) P	Ar	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Se	Sr	Zn
1995 Lakes												
Acton Lake	**2080**	--	0.331	24.2	27.1	26.5	878	<0.0878	27.9	1.66	92.6	152
Bucyrus Reservoir #1	**1860**	**29.2**	0.544	23.3	50.0	30.5	458	<0.1060	35.5	2.00	103	**219**
Bucyrus Reservoir #2	**2440**	**28.3**	0.401	25.5	**178**	35.3	951	<0.1200	48.1	2.19	59.0	**203**
Bucyrus Reservoir #4	--	**19.2**	0.289	12.5	30.2	15.6	608	<0.0585	31.3	1.22	74.3	86
Grand R. Wildlife Area Lake	**1220**	23.3	0.905	<20.6	17.8	38.4	372	**0.4100**	28.1	--	<20.6	**239**
Lake Loretta	--	25.3	0.514	<23.0	**144**	**50.7**	514	**0.4940**	<30.7	<1.53	<23.0	167
Lake Romona	--	17.1	0.309	<16.0	15.9	29.3	328	0.2450	25.0	<1.06	<15.9	122
Lake Rupert	--	**38.3**	0.348	24.1	18.6	**54.2**	2760	0.0236	54.5	1.38	16.9	137
Lake Snowden	1160	**37.8**	0.249	29.0	24.1	32.5	1720	**0.3140**	35.3	1.78	22.8	119
Lampson Reservoir	880	16.6	--	15.1	73.5	29.6	352	<0.0615	21.4	--	<11.1	108
New Lexington Reservoir #1	**1310**	**48.3**	0.390	25.2	**360**	**44.2**	1690	**0.4300**	58.9	1.44	26.8	**187**
Opossum Creek Pond #1	**1260**	18.3	0.369	14.6	--	**43.9**	652	<0.0857	21.9	1.20	36.1	126
O'Shaughnessy Reservoir	**1990**	**45.7**	0.610	**44.2**	36.4	75.9	736	**0.3370**	57.7	2.34	367	**182**
Raccoon Creek Reservoir	--	15.7	0.362	13.4	**349**	16.8	559	<0.0846	25.7	1.49	61.9	88
Richwood Park Lake	1050	24.2	0.691	16.2	39.8	94.8	560	**0.4690**	44.6	1.73	84.0	**193**
Rio Grande Reservoir	--	18.9	0.233	15.8	**748**	45.8	512	≤0.0551	36.1	0.95	60.8	103
Roaming Rock Lake	**1930**	**35.2**	0.613	<24.8	34.8	32.3	487	<0.1470	35.6	2.40	<24.8	**219**
Sebald Pond #1	**1520**	**41.9**	0.194	15.8	--	18.2	840	<0.0908	21.8	1.08	64.9	106
Sunny Lake	**1270**	20.9	0.499	23.5	40.2	37.6	607	**0.3360**	33.3	--	21.2	166

* Parameter concentrations, excluding nickel, selenium, and strontium are ranked based on a surficial lake sediment classification system described by Kelly, Hite, and Rogers (1984) for 63 Illinois lakes. Sediment results are classified as:

Below Normal,
Normal,
Elevated, or
Highly Elevated.

Table 9. Concentrations (ug/kg = ppb) of priority pollutant organochlorine pesticides and polychlorinated biphenyls (PCBs) detected in surficial sediment samples collected from Ohio public lakes, 1993, 1994, and 1995.* All sampling locations were L-1 sites unless otherwise indicated.

Lake	Sediment Concentration (ug/kg dry weight) a-BHC	b-BHC	d-BHC	4,4'DDE	Dieldrin	Endrin	Endo-sulfan II	4,4'DDD	Methox-Chlor	Hexachloro-benzene
1993 Lakes										
Atwood Reservoir	**	**	5.63	**	**	**	**	**	**	**
Bellevue Reservoir #5	**	**	5.82	1.24	**	**	1.31	**	**	**
Cedarville Reservoir	**	2.34	6.37	**	1.96	**	**	**	**	1.15
East Fork Lake (L-2)	**	**	**	**	1.06	**	**	**	10.00	**
Long Lake	**	**	35.27	4.05	**	**	**	**	16.3	0.92
Nimisila Reservoir	**	**	23.55	**	6.06	**	**	**	**	**
Pleasant Hill Lake	4.04	3.25	8.17	2.17	**	**	2.96	**	**	**
Stage's Pond	**	3.93	**	**	**	**	**	**	**	**
Tappan Lake (L-2)	**	**	15.47	**	**	**	**	**	**	**
1994 Lakes										
Cambridge Reservoir	**	**	4.32	**	**	**	**	**	**	**
C.J. Brown Reservoir	**	**	**	1.25	1.21	**	**	**	**	**
Deer Creek Reservoir	**	**	6.29	**	1.04	**	**	**	**	**
Delco Water Co. Lake	**	2.52	**	**	**	**	**	**	**	**
Evans Lake	**	**	5.16	**	**	**	**	**	**	**
Mt. Gilead Lake	**	**	2.14	**	**	**	**	**	**	**
Maysville Reg. Lake	**	**	2.76	**	1.88	2.2	1.57	2.76	**	**
Meander Creek Resv.	**	**	3.65	**	**	**	**	**	**	**
Van Buren Lake	**	**	**	**	1.14	**	**	**	**	**
1995 Lakes* **										

* Compounds listed are those that were measured above corrected method detection limits in at least one sediment sample from the sampled lakes; compounds from Table 3 not listed here were not detected above corrected method detection limits in any lake sediment sample.

** Concentration less than corrected method detection limit.

*** Sediment data for 1995 lakes were below detection limits

Table 10. Concentrations (mg/kg = ppm) or percent composition of miscellaneous parameters analyzed in surficial sediment samples collected from Ohio public lakes, 1993, 1994, and 1995. All sampling locations were L-1 sites unless otherwise indicated.

Lake	Sediment Concentration or Percent Composition								
	CN	NH_3	% Total Solids	% Volatile Solids	% Moisture Solids	% TOC Solids	% Particle Size Sand	Silt	Clay
1993 Lakes									
Atwood Reservoir (L-2)	--	189	32.9	8.0	66.9	--	**	**	**
Bellevue Reservoir #5	<0.272	158	39.5	4.0	60.5	--	8.70	29.00	62.30
Cedarville Reservoir	--	167	--	--	81.0	--	--	--	--
Clear Fork Reservoir	--	432	19.0	11.0	--	--	--	--	--
East Fork Lake	--	43	62.0	4.0	38.0	--	--	--	--
East Reservoir	--	268	14.0	18.0	86.0	--	**	**	**
Long Lake	--	564	15.0	29.0	85.0	--	**	**	**
Nimisila Reservoir	--	252	25.0	11.0	75.3	--	**	**	**
Pleasant Hill Lake	<0.376	218	25.2	9.0	74.8	--	19.30	28.70	52.00
Stage's Pond	--	763	19.0	30.4	81.0	--	44.70	31.60	23.70
Tappan Lake (L-2)	--	325	23.0	10.0	77.0	--	**	**	**
1994 Lakes									
Bowling Green Upgrd. Res.	<0.816	<13.4	39.8	5.0	60.2	--	17.90	33.40	48.70
Cambridge Reservoir	<30.1	90.9	28.0	8.0	72.0	--	7.80	39.50	52.70
C.J. Brown Reservoir	<17.4	70.8	55.4	8.1	44.5	--	19.70	57.10	23.20
Deer Creek Reservoir	<1.21	111	35.2	5.6	64.8	--	--	--	--
Delco Water Company Lake	<18.6	39.3	52.0	5.3	48.0	--	--	--	--
Evans Lake	<0.590	77.2	72.5	8.0	27.5	--	--	--	--
Mt. Gilead Lake	<28.0	159	34.0	7.8	65.6	--	--	--	--
Maysv. Reg. Wat. Dist. Lk.	<40.5	109	24.0	8.0	76.0	--	15.50	50.20	34.30
Meander Creek Reservoir	<0.589	55.0	61.2	4.0	38.2	--	--	--	--
North Baltimore Reservoir	<1.69	<30.4	29.6	6.0	70.4	--	14.60	42.70	42.70
Salt Fork Reservoir	<30.9	156	25.0	8.0	75.0	--	14.70	49.10	36.20
Van Buren Lake	<1.11	165	43.8	6.0	56.6	--	13.50	39.30	47.20
1995 Lakes									
Acton Lake	<1.08	322	38.9	8.7	61.1	3.1	23.40	16.60	60.00
Bucyrus Reservoir #1	<3.10	765	29.9	8.2	70.1	3.5	17.60	18.50	63.90
Bucyrus Reservoir #2	<1.13	394	39.3	12.4	60.6	2.9	26.90	20.20	52.90
Lake Loretta	--	--	--	--	--	2.5	30.20	34.90	34.90
Lake Romona	--	--	--	--	--	2.6	6.80	68.00	25.20
Lake Rupert	--	--	--	--	--	2.1	42.30	30.00	27.70
Lake Snowden	<2.25	140	22.0	9.4	78.0	2.7	31.00	29.60	39.40
Lampson Reservoir	<1.09	74.9	46.2	3.4	53.8	1.3	27.50	63.40	9.10
New Lexington Res. #1	<2.36	183	22.0	11.1	78.0	2.7	19.80	38.00	42.20
Opossum Creek Pond #1	<1.18	61.4	42.3	4.9	57.7	--	15.60	40.30	44.10
O'Shaughnessy Reservoir	<1.57	398	30.5	8.3	69.5	3.2	11.80	22.50	65.70
Racoon Creek Reservoir	--	--	--	--	--	1.9	42.60	33.50	23.90
Richwood Park Lake	<47.1	95.7	20.0	10.4	80.0	6.9	15.80	63.80	20.40
Rio Grande Reservoir	--	--	--	--	--	1.0	5.00	42.50	52.50
Roaming Rock Lake	<2.26	259	21.6	3.6	78.4	3.6	**	**	**
Sebald Pond #1	<0.940	109	52.9	4.0	47.1	1.6	7.40	62.40	30.20

-- Not analyzed ** Analyzed but results inconclusive due to contamination of sample

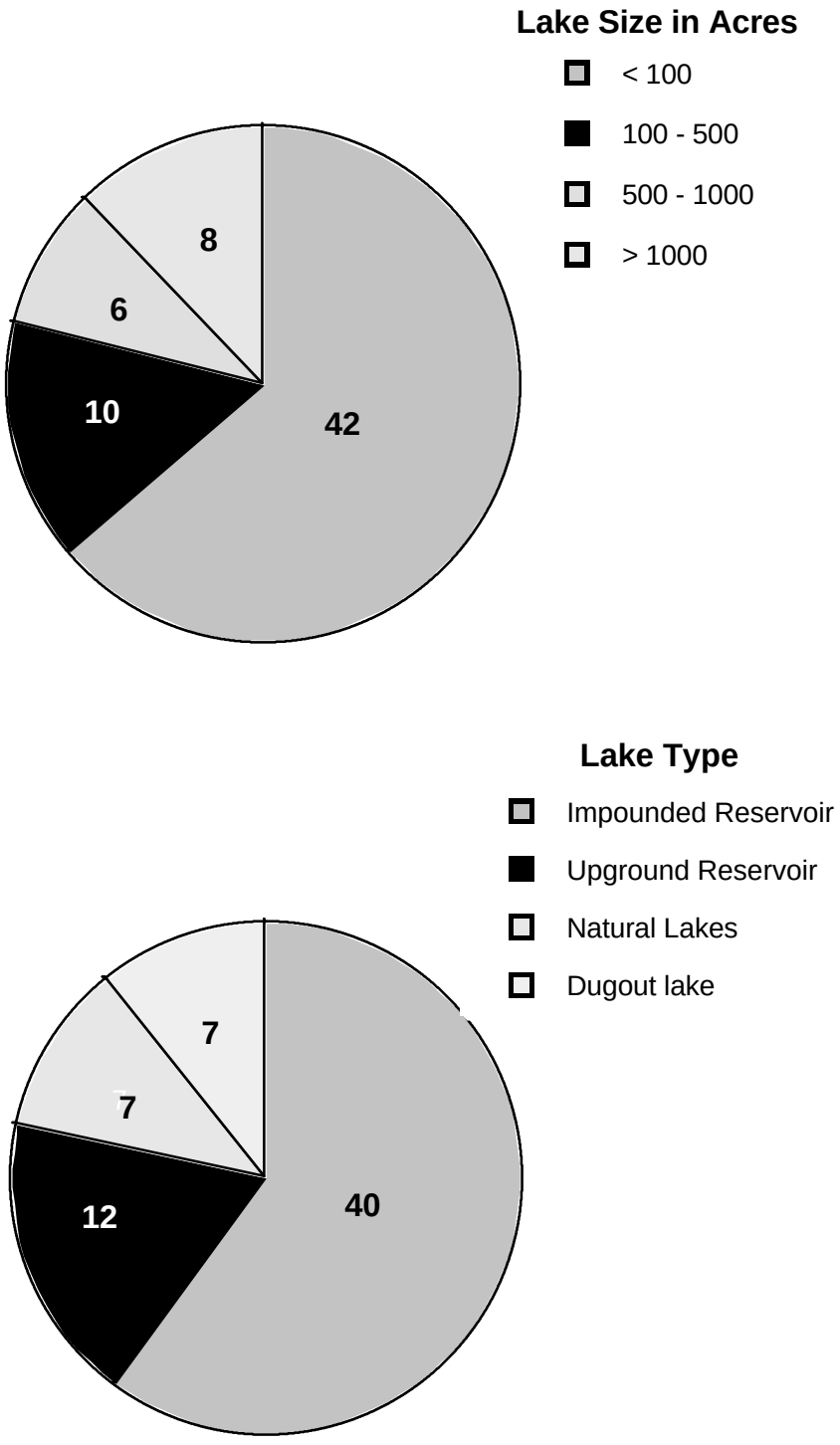

Figure 1. Breakdown by size and type of the 66 lakes sampled by Ohio EPA 1993, 1994 and 1995.

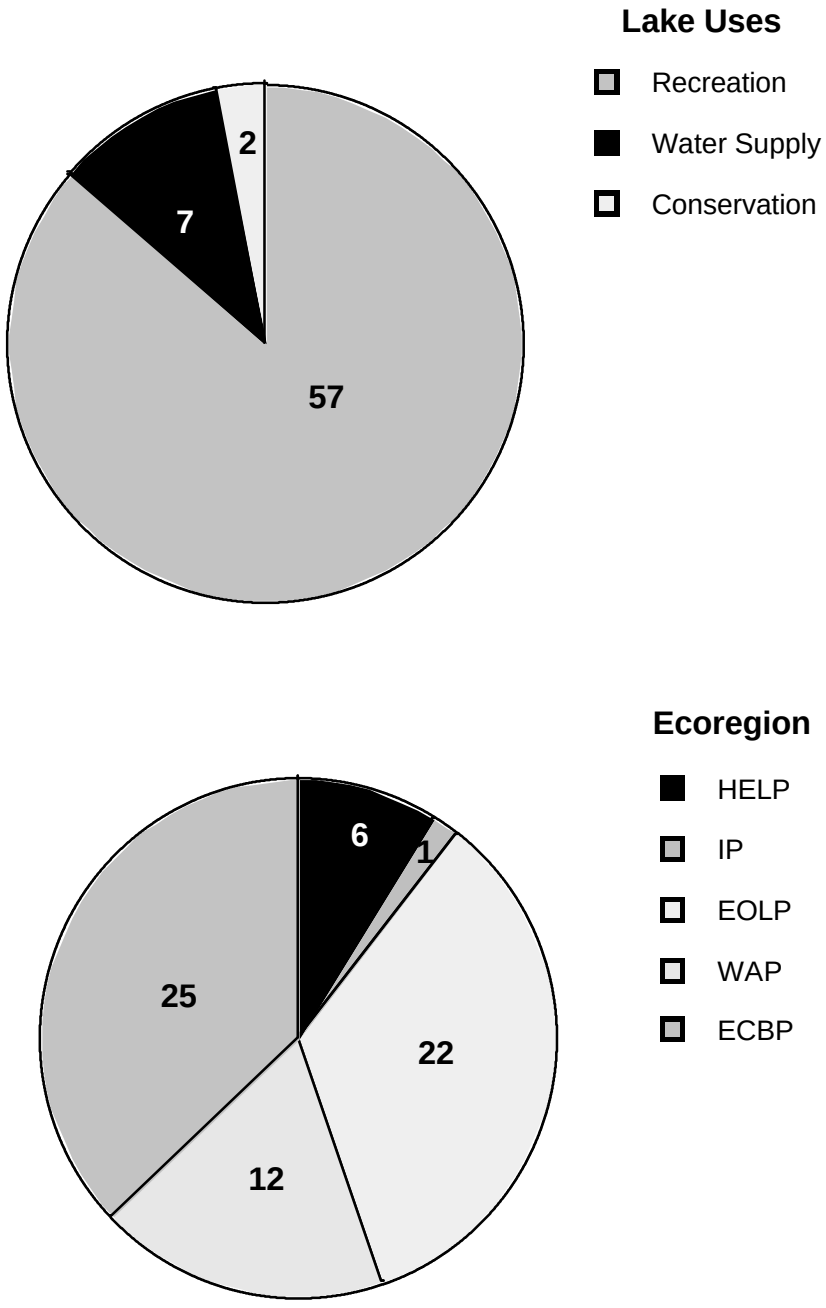

Figure 2. Breakdown by use and geographic location (ecoregion) of the 66 lake sampled in 1993, 1994 and 1995. HELP is Huron Lake Erie Plain, IP is Interior Plateau, EOLP is Erie-Ontario Lake Plain, WAP is Western Allegheny Platea and ECBP is Eastern Corn Belt Plains.

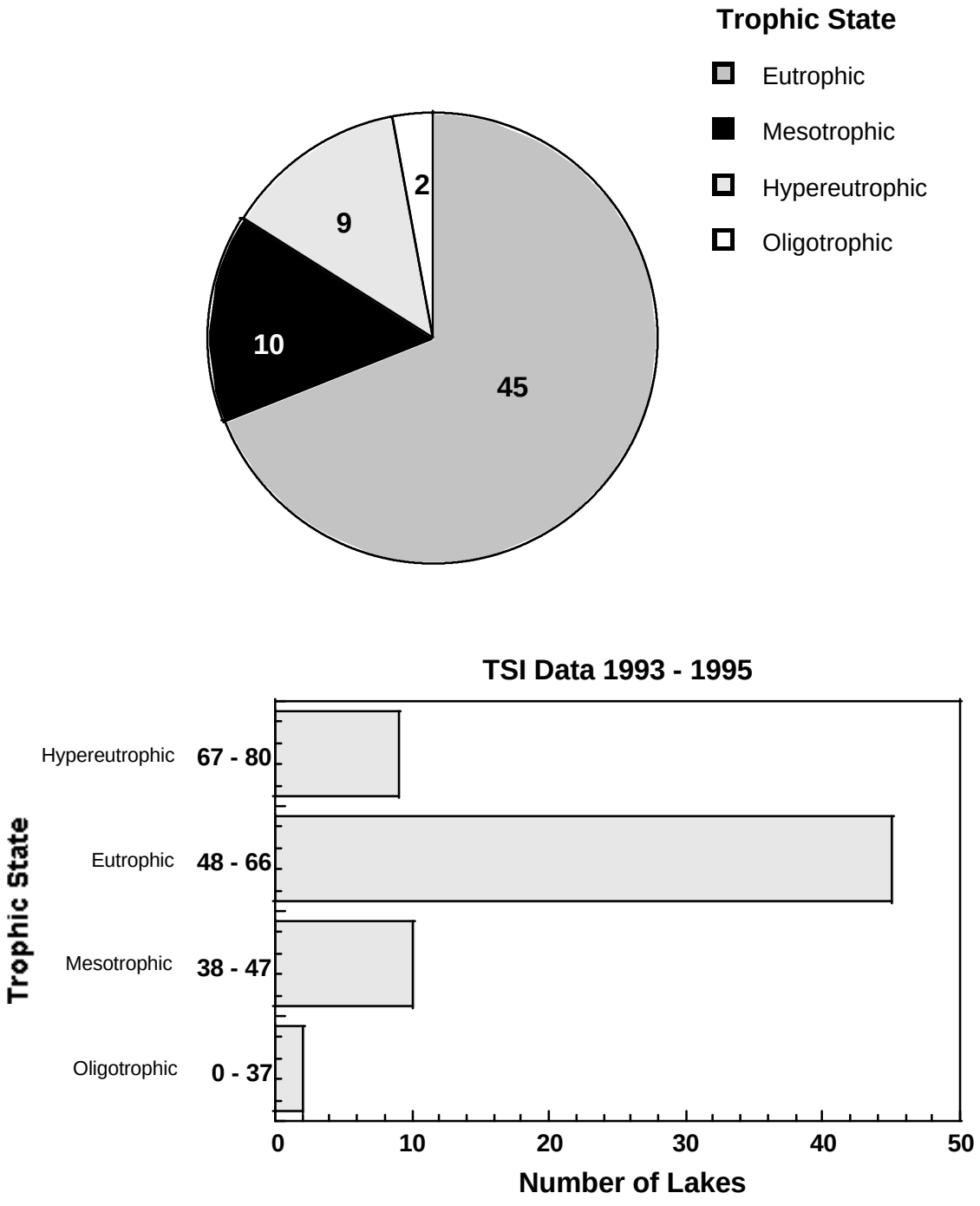

Figure 3. Pie chart and frequency histogram of Ohio's lakes classified according to trophic state using Carlson's TSI values for the 1993, 1994 and 1995 lake data..

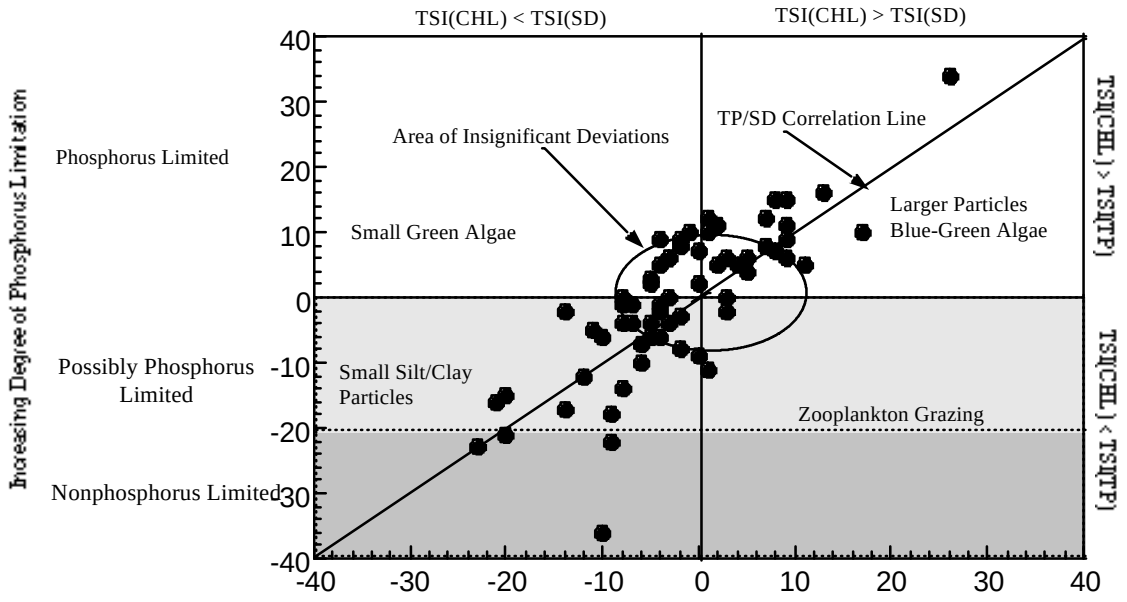

Figure 4. Deviations of TSI (CHL) from TSI (TP) and TSI (SD) for Ohio lakes sampled in 1993, 1994 and 1995 illustrating the possible misclassifications that might take place when non-nutrient limiting factors are not taken into account (Adapted from Carlson 1991 with addendum 1991).

APPENDIX TABLE I-1

Results of water column chemical/physical sampling
(chlorophyl-a and tabulation of Carlson's Trophic State Index)
in Ohio public lakes, ponds, and reservoirs,
1993, 1994, and 1995.

Appendix Table I-1. Results of chlorophyll-a analyses and tabulation of Carlson's Trophic State Index (TSI) values for Ohio public lakes, 1993, 1994, and 1995.

Lake	Date	Depth(m)	Chl-a (ug/l) 1	Chl-a (ug/l) 2	Mean Chl-a (ug/l)	TSI Chl-a	TSI SD	TSI TP	Final TSI	Trophic State
ACTON LAKE L-1										
	05/30/95	0.5	6.75	11.53	9.14	52	71	61	66	E
	08/14/95	0.5	80.28	66.77	73.53	72	72	72		
	09/28/95	0.5	31.84	37.22	34.53	65	69			
ALDRICH POND L-1										
	05/11/94	0.5					59	84	66	E
	07/27/94	0.5	48.03	51.41	49.72	69	60	47		
	08/24/94	0.5	3.77	3.53	3.65	43	65	49		
AMANN RESERVOIR L-1										
	05/03/94	0.5	22.52	19.09	20.81	60	65	63	61	E
	07/28/94	0.5	7.04	5.22	6.13	48	70	63		
	09/07/94	0.5	55.93	54.36	55.15	70	73	69		
ATWOOD RESERVOIR L-1										
	06/01/93	0.5					64	49	52	E
	08/18/93	0.5	19.25	20.82	20.04	60	61	56		
	09/07/93	0.5	13.63	13.93	13.78	56	57	51		
ATWOOD RESERVOIR L-2										
	08/18/93	0.5	54.96	51.80	53.38	70	60	59	65	E
	09/07/93	0.5	18.37	23.26	20.82	60	60	55		
BARNESVILLE RESERVOIR #3 L-1										
	06/02/93	0.5					50	43	43	M
	08/17/93	0.5	2.11	2.04	2.08	38	49	46		
	09/08/93	0.5	6.64	6.85	6.75	49	51	51		
BELLEVUE RESERVOIR #5 L-1										
	05/26/93	0.5					49	36	44	M
	08/25/93	0.5	12.14	2.71	7.43	50	45	37		
	09/14/93	0.5	4.69	4.35	4.52	45	61	45		
BLUE LIMESTONE PARK QUARRY LAKE L-1										
	05/04/94	0.5	6.00	7.23	6.61	49	52	59	57	E
	07/27/94	0.5	6.36	5.99	6.17	48	60	52		
	09/07/94	0.5	26.79	27.37	27.08	63	60	65		
BOWLING GREEN UPGROUND RESERVOIR L-1										
	05/10/94	0.5					56	65	53	E
	07/26/94	0.5	4.88	5.19	5.03	46	73	61		
	08/23/94	0.5	5.14	5.29	5.21	47	73	61		
BUCYRUS RESERVOIR #1 L-1										
	05/31/95	0.5	4.44	4.73	4.59	45	63	57	65	E
	08/01/95	0.5	48.52	48.08	48.30	69	73	63		
	08/16/95	0.5	51.26	51.13	51.19	69	67	65		
BUCYRUS RESERVOIR #2 L-1										
	05/31/95	0.5	33.76	21.83	27.79	63	70	60	71	H
	08/01/95	0.5	158.48	173.47	165.97	81	77	63		
	08/16/95	0.5	69.98	67.01	68.49	72	70	73		
BUCYRUS RESERVOIR #4 L-1										
	05/31/95	0.5					44	65	40	M
	08/01/95	0.5	2.06	1.01	1.53	35	39	63		
	08/16/95	0.5	.41	.34	.37	21	32	63		
C.J. BROWN RESERVOIR L-1										
	06/02/94	0.5					61		63	E
	08/10/94	0.5	27.14	28.33	27.73	63	54	57		
	09/14/94	0.5					51	54		
C.J. BROWN RESERVOIR L-2										
	06/02/94	0.5					61	61	64	E
	08/10/94	0.5	43.98	39.27	41.63	67	64	61		
	09/14/94	0.5					61	59		
CAMBRIDGE RESERVOIR L-1										
	04/26/94	0.5					59		65	E
	08/09/94	0.5					63	59		
	08/29/94	0.5	32.61		32.61	65	64			

(O:Oligotrophic-TSI<38; M:Mesotrophic-TSI 38-47; E:Eutrophic-TSI 48-66; H:Hypereutrophic-TSI>66)

Lake	Date	Depth(m)	Chl-a (ug/l) 1	Chl-a (ug/l) 2	Mean Chl-a (ug/l)	TSI Chl-a	TSI SD	TSI TP	Final TSI	Trophic State
CEDARVILLE RESERVOIR L-1										
	06/01/93	0.5						41	49	E
	08/30/93	0.5					56	91		
	09/27/93	0.5	17.57	15.80	16.69	58	63	63		
CITY OF DAYTON LAKE #1 L-1										
	05/25/94	0.5					64	63	71	H
	08/09/94	0.5	140.65	115.51	128.08	78	61	69		
	09/13/94	0.5					59	71		
CLEAR FORK RESERVOIR L-1										
	06/01/93	0.5					50	43	57	E
	08/24/93	0.5	56.55	55.55	56.05	70	61	59		
	09/15/93	0.5	18.96	17.19	18.08	59	63	56		
CLEAR FORK RESERVOIR L-2										
	06/01/93	0.5					59	49	58	E
	08/24/93	0.5	28.38	27.51	27.95	63	64	63		
	09/15/93	0.5	22.81	23.76	23.29	31	73	59		
CRYSTAL LAKE L-1										
	05/17/94	0.5					38	39	42	M
	07/18/94	0.5	4.28		4.28	45	41	39		
	08/24/94	0.5	3.03	3.39	3.21	42	41	39		
DEER CREEK RESERVOIR L-1										
	05/18/94	0.5					66	54	63	E
	07/14/94	0.5	48.48	41.92	45.20	68	67			
	08/22/94	0.5	41.98	45.46	43.72	68	68	58		
DELCO WATER COMPANY LAKE L-1										
	05/04/94	0.5	6.41		6.41	49	52	63	57	E
	07/27/94	0.5	9.72	9.69	9.71	53	65	53		
	09/07/94	0.5	14.20	13.14	13.67	56	59	63		
EAST FORK LAKE L-1										
	06/02/93	0.5					61	59	54	E
	09/02/93	0.5					54	46		
	09/29/93	0.5	6.69	6.58	6.64	49	52			
EAST FORK LAKE L-2										
	06/02/93	0.5					60	60	56	E
	09/02/93	0.5					53	63		
	09/29/93	0.5	8.33	7.98	8.16	51	58			
EAST RESERVOIR L-1										
	05/19/93	0.5					55	47	63	E
	08/17/93	0.5	50.70	58.88	54.79	70	63	80		
	09/10/93	0.5	62.03	65.16	63.59	71	61	72		
ECHO LAKE L-1										
	05/24/94	0.5					71	59	63	E
	08/08/94	0.5	48.56	42.88	45.72	68	71	75		
	09/12/94	0.5					71	71		
EVANS LAKE L-1										
	05/26/94	0.5					47	37	49	E
	07/21/94	0.5	3.07	2.79	2.93	41	49	44		
	09/01/94	0.5	42.74	43.18	42.96	67	61	47		
EVERGREEN LAKE L-1										
	05/10/94	0.5					53	46	61	E
	07/26/94	0.5	57.51	49.88	53.69	70	63	63		
	08/23/94	0.5	34.45	39.62	37.03	66	61	63		
FORKED RUN LAKE L-1										
	06/03/93	0.5					51	40	37	O
	08/16/93	0.5	0.81	0.75	0.78	28	47	39		
	09/09/93	0.5	3.44	3.69	3.57	43	44	45		
GRAND RIVER WILDLIFE AREA LAKE L-1										
	05/16/95	0.5	5.06	6.18	5.62	47	54	61	66	E
	07/31/95	0.5	29.59	26.84	28.21	63	66	63		
	08/21/95	0.5	86.24	85.53	85.89	74	68	67		
GUILFORD LAKE L-1										
	05/16/94	0.5					68	65	66	E
	07/19/94	0.5	26.34	29.91	28.13	63	63	58		

(O:Oligotrophic-TSI<38; M:Mesotrophic-TSI 38-47; E:Eutrophic-TSI 48-66; H:Hypereutrophic-TSI>66)

Lake	Date	Depth(m)	Chl-a (ug/l) 1	Chl-a (ug/l) 2	Mean Chl-a (ug/l)	TSI Chl-a	TSI SD	TSI TP	Final TSI	Trophic State
	08/30/94	0.5	57.43	56.65	57.04	70	65	63		
HUFFMAN POND L-1										
	05/25/94	0.5					77	76	73	H
	08/09/94	0.5	59.13	52.54	55.83	70	71	67		
	09/13/94	0.5					77	67		
LAKE LORETTA L-1										
	05/16/95	0.5	10.93	9.08	10.01	53	60	37	48	M
	09/15/95	0.5					57	63		
	10/24/95	0.5	16.51	16.42	16.47	58	60			
LAKE ROMONA L-1										
	05/16/95	0.5	9.63	4.59	7.11	50	65	46	54	E
	09/15/95	0.5	23.25	22.74	22.99	61	60			
	10/24/95	0.5					54	67		
LAKE RUPERT L-1										
	05/10/95	0.5	3.18		3.18	42	56	44	54	E
	08/22/95	0.5	18.57	20.93	19.75	60	62	63		
	09/12/95	0.5	16.41	15.69	16.05	58		69		
LAKE SNOWDEN L-1										
	05/08/95	0.5	6.05		6.05	48	53	48	50	E
	08/21/95	0.5	6.54		6.54	49	50	61		
	09/11/95	0.5	10.49	10.39	10.44	54	54	65		
LAMPSON RESERVOIR L-1										
	05/22/95	0.5	3.25	3.49	3.37	43	60	79	72	H
	08/01/95	0.5	31.26	31.02	31.14	64	66			
	08/24/95	0.5	82.65	81.59	82.12	73	73	61		
LONG LAKE L-1										
	06/02/93	0.5					62	58	65	E
	08/26/93	0.5	42.45	37.45	39.95	67	62	63		
	09/08/93	0.5	57.54	58.91	58.23	70	63	63		
LONG LAKE L-2										
	06/02/93	0.5					61	59	65	E
	08/26/93	0.5	46.57	47.83	47.20	68	64	63		
	09/08/93	0.5	49.50	49.56	49.53	69	65	67		
MAPLE GROVE LAKE L-1										
	05/11/94	0.5	3.59	3.26	3.43	43	71	81	65	E
	07/28/94	0.5	8.96	9.18	9.07	52	62	63		
	09/07/94	0.5	21.08		21.08	61	64	63		
MAYSVILLE REG. WATER DIST. LAKE L-1										
	04/28/94	0.5					40		42	M
	08/09/94	0.5	4.27		4.27	45	47			
	08/30/94	0.5	2.37		2.37	39	37	53		
MEANDER CREEK RESERVOIR L-1										
	05/25/94	0.5					59	46	52	E
	07/20/94	0.5	23.46	20.28	21.87	61	56	51		
	08/23/94	0.5	7.44	6.00	6.72	49	57	43		
MEANDER CREEK RESERVOIR L-2										
	08/23/94	0.5	19.23	19.29	19.26	60	64	52	60	E
MICHAEL J. KIRWIN RESERVOIR L-1										
	05/17/94	0.5					63	78	61	E
	07/18/94	0.5	14.78		14.78	57	65	40		
	08/24/94	0.5	5.46	4.94	5.20	47	52	37		
MT. GILEAD LAKE L-1										
	05/03/94	0.5					67	56	57	E
	05/11/94	0.5	38.25	41.20	39.73	67	65			
	07/28/94	0.5	14.72	13.70	14.21	57	65	58		
	09/07/94	0.5	21.34	16.23	18.79	59	67	63		
NEW CONCORD RESERVOIR L-1										
	04/26/94	0.5					41	44	53	E
	08/09/94	0.5	7.81		7.81	51	47			
	08/30/94	0.5	26.80		26.80	63	56	52		
NEW LEXINGTON RESERVOIR #1 L-1										
	05/09/95	0.5	6.35		6.35	49	56	47	42	M
	08/21/95	0.5	.81		.81	29	45	63		

(O:Oligotrophic-TSI<38; M:Mesotrophic-TSI 38-47; E:Eutrophic-TSI 48-66; H:Hypereutrophic-TSI>66)

Lake	Date	Depth(m)	Chl-a (ug/l) 1	Chl-a (ug/l) 2	Mean Chl-a (ug/l)	TSI Chl-a	TSI SD	TSI TP	Final TSI	Trophic State
	09/11/95	0.5	6.57	7.20	6.89	49	53	69		
NIMISILA RESERVOIR L-2										
	05/25/93	0.5					65	57	58	E
	08/17/93	0.5	18.62	17.68	18.15	59	58	75		
	09/08/93	0.5	14.12	15.10	14.61	57	59	54		
NORTH BALTIMORE RESERVOIR L-1										
	05/09/94	0.5					60	54	59	E
	07/25/94	0.5	14.41	13.67	14.04	57	65	51		
	08/22/94	0.5	38.81	47.24	43.03	67	63	52		
NORTH RESERVOIR L-1										
	06/02/93	0.5					63	58	59	E
	08/26/93	0.5	21.52	23.79	22.66	61	74	65		
O'SHAUGHNESSY RESERVOIR L-1										
	05/15/95	0.5	9.47	9.88	9.67	53	80	71	61	E
	09/14/95	0.5	8.38	10.41	9.39	53	67	69		
	10/23/95	0.5					73	81		
OAK THORPE RESERVOIR L-1										
	06/08/93	0.5					61	65	71	H
	08/24/93	0.5	82.94	94.97	88.95	75	71	69		
	09/21/93	0.5	76.13	82.63	79.38	73	74	69		
OPOSSUM CREEK POND #1 L-1										
	05/23/95	0.5	6.63	5.87	6.25	49	64	67	58	E
	08/17/95	0.5	12.70	10.09	11.39	54	65	61		
	09/27/95	0.5	9.94	10.34	10.14	53	60			
OPOSSUM CREEK RESERVE LAKE L-1										
	05/23/95	0.5	6.35	10.08	8.21	51	47	45	37	O
	08/17/95	0.5	.23	.54	.39	21	48			
	09/27/95	0.5	5.36	4.56	4.96	46	46	61		
PLEASANT HILL LAKE L-1										
	05/27/93	0.5					63	63	68	H
	08/23/93	0.5	43.92	50.44	47.81	68	65	49		
	09/16/93	0.5	75.52	76.51	76.01	73	64	63		
PLEASANT HILL LAKE L-2										
	05/27/93	0.5					63	59	68	H
	08/23/93	0.5	59.84		59.84	71	69	65		
	09/16/93	0.5	79.84	88.10	83.97	74	67	71		
RACCOON CREEK RESERVOIR L-1										
	05/30/95	0.5	9.98	10.27	10.13	53	52	65	46	M
	08/02/95	0.5	1.67	1.80	1.73	36	40	65		
	08/17/95	0.5	1.52	1.77	1.65	35	46	63		
RICHWOOD PARK LAKE L-1										
	05/15/95	0.5	22.84	25.04	23.94	62	67	56	64	E
	09/14/95	0.5	68.66	67.34	68.00	72	75	63		
	10/23/95	0.5					70	67		
RIO GRANDE RESERVOIR L-1										
	05/10/95	0.5	1.33		1.33	33	52	48	42	M
	08/22/95	0.5	2.15	2.62	2.39	39	41	61		
	09/12/95	0.5	2.01	2.19	2.10	38	44	67		
ROAMING ROCK LAKE L-1										
	05/23/95	0.5	6.31	6.75	6.53	49	53	55	56	E
	08/01/95	0.5	9.15	7.72	8.43	51	55	72		
	08/24/95	0.5	24.95	25.28	25.11	62	55	61		
ROCK MILL LAKE L-1										
	06/09/93	0.5					57	59	61	E
	08/26/93	0.5	18.26	25.22	21.74	61	61	67		
	09/21/93	0.5	30.89	26.89	28.89	63	58	65		
SALT FORK RESERVOIR L-1										
	04/25/94	0.5					56	43	53	E
	08/08/94	0.5	17.68		17.68	59	58			
	08/29/94	0.5	14.83		14.83	57	57	52		
SALT FORK RESERVOIR L-2										
	04/25/94	0.5					63	61	55	E
	08/08/94	0.5	2.05		2.05	38	56			

(O:Oligotrophic-TSI<38; M:Mesotrophic-TSI 38-47; E:Eutrophic-TSI 48-66; H:Hypereutrophic-TSI>66)

Lake	Date	Depth(m)	Chl-a (ug/l) 1	Chl-a (ug/l) 2	Mean Chl-a (ug/l)	TSI Chl-a	TSI SD	TSI TP	Final TSI	Trophic State
	08/29/94	0.5	42.87		42.87	67	68	56		
SEBALD POND #1 L-1										
	05/23/95	0.5					77	75	63	E
	08/15/95	0.5	4.76	12.72	8.74	52	74	69		
	09/26/95	0.5	32.08	22.14	27.11	63	85	79		
SHELBY RESERVOIR #1 L-1										
	05/25/93	0.5					46	45	58	E
	08/26/93	0.5	16.02	16.81	16.41	58	59	50		
	09/13/93	0.5	64.03	62.10	68.42	72	67	56		
SHELBY RESERVOIR #2 L-2										
	05/25/93	0.5					42	34	43	M
	08/26/93	0.5	3.35	13.59	8.47	51	45	37		
	09/13/93	0.5	3.53	3.90	3.71	43	55	47		
STAGE'S POND L-1										
	06/16/93	0.5						74	79	H
	08/24/93	0.5	342.65	229.99	286.32	86	75	84		
	09/21/93	0.5	85.15	101.19	93.17	75	76	73		
SUNNY LAKE L-1										
	05/15/95	0.5	39.41	41.57	40.49	67	73	61	66	E
	07/31/95	0.5	39.70	39.56	39.63	67	73	65		
	08/21/95	0.5	57.03	52.45	54.74	70	73	69		
TAPPAN LAKE L-1										
	06/01/93	0.5					59	49	57	E
	08/17/93	0.5	19.20	16.15	17.67	59	61	57		
	09/07/93	0.5	24.88	23.51	24.19	62	62	53		
TAPPAN LAKE L-2										
	06/01/93	0.5					61	54	61	E
	08/17/93	0.5	34.19	34.99	34.59	65	68	65		
	09/07/93	0.5	32.45	32.04	32.25	65	63	59		
VAN BUREN LAKE L-1										
	05/09/94	0.5					83	88	77	H
	07/25/94	0.5	61.93	68.42	65.17	71	93	69		
	08/22/94	0.5	67.59	63.80	65.69	72	83	66		
WEST RESERVOIR L-1										
	05/19/93	0.5					60	56	67	H
	08/17/93	0.5	70.01	76.33	73.17	73	66	71		
	09/09/93	0.5	72.29	72.79	72.54	73	66	74		
WHITE SULPHUR LAKE L-1										
	06/15/93	0.5					47	50	50	E
	08/25/93	0.5	9.97	12.28	11.13	54	53	41		
	09/21/93	0.5	5.14	5.15	5.15	47	44	61		
WILMINGTON RESERVOIR #1 L-1										
	06/07/93	0.5					49	46	46	M
	08/31/93	0.5					45	39		
WILMINGTON RESERVOIR #2 L-1										
	06/07/93	0.5					53	45	52	E
	08/31/93	0.5					45	40		
	09/28/93	0.5	16.56	18.40	17.48	59	54			

(O:Oligotrophic-TSI<38; M:Mesotrophic-TSI 38-47; E:Eutrophic-TSI 48-66; H:Hypereutrophic-TSI>66)

APPENDIX TABLE I-2

Results of water column chemical/physical sampling
(field parameter profiles and Secchi depth)
in Ohio public lakes, ponds, and reservoirs,
1993, 1994, and 1995

Appendix Table I-2. Results of water column chemical/physical sampling (field parameter profiles) for Ohio public lakes, 1993, 1994, and 1995.

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
ACTON LAKE	L-1						
	05/30/95	0.5	18.0	7.0	8.10		0.53
	05/30/95	1.0	18.0	7.0	7.83		
	05/30/95	2.0	17.5	6.8	7.76		
	05/30/95	3.0	17.4	6.2	7.70		
	05/30/95	4.0	17.0	6.0	7.67		
	05/30/95	5.0	14.6	5.6	7.61		
	05/30/95	6.0	13.0	4.8	7.60		
	05/30/95	7.0	11.0	4.4	7.49		
	05/30/95	8.0	10.9	4.1	7.30		
	08/14/95	0.5	31.0	16.0	9.26	370	0.46
	08/14/95	1.0	31.0	18.0	9.40	368	
	08/14/95	1.5	29.2	13.7	9.26	370	
	08/14/95	2.0	29.1	8.6	8.39	400	
	08/14/95	2.5	27.5	0.4	8.16	425	
	08/14/95	3.0	26.0	1.6	8.14	432	
	08/14/95	3.5	24.8	0.2	8.01	425	
	08/14/95	4.0	24.0	0.2	7.90	402	
	08/14/95	4.5	25.0	1.8	7.87	400	
	08/14/95	5.0	22.2	0.1	7.81	401	
	08/14/95	5.5	21.0	0.1	7.66	440	
	08/14/95	6.0	20.0	0.1	7.59	440	
	08/14/95	7.0	19.0	0.1	7.51	440	
	08/14/95	8.0	19.0	1.7	7.80	440	
	09/28/95	0.5	19.6	7.7	8.06	352	0.53
	09/28/95	1.0	19.3	3.3	7.86	352	
	09/28/95	2.0	19.3	3.2	7.83	352	
	09/28/95	3.0	18.9	0.3	7.77	352	
	09/28/95	4.0	18.8	0.1	7.70	350	
	09/28/95	5.0	18.7	0.1	7.67	350	
	09/28/95	6.0	18.7	0.1	7.63	350	
	09/28/95	7.0	18.6	0.1	7.60	350	
	09/28/95	8.0	18.0	0.1	7.45	390	
	09/28/95	8.5	17.3	0.3	7.21	465	
ALDRICH POND	L-1						
	05/11/94	0.5	14.9	9.5	8.45	395	1.10
	05/11/94	1.0	14.8	8.9	8.47	395	
	05/11/94	1.5	14.8	9.0	8.43	395	
	07/27/94	0.5	24.1	8.1	9.60	380	1.00
	07/27/94	1.0	24.1	7.9	9.63	380	
	07/27/94	1.25	23.9	5.4	9.37	380	
	08/24/94	0.5	22.5	5.3	8.58	400	0.70
	08/24/94	1.0	22.6	5.3	8.60	400	
	08/24/94	1.5	22.4	3.5	8.14	410	
AMANN RESERVOIR	L-1						
	05/03/94	0.5	12.9	10.2	8.39	392	0.70
	05/03/94	1.0	12.8	10.1	8.39	398	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	05/03/94	1.5	12.8	10.1	8.40	398	
	05/03/94	2.0	12.6	9.9	8.39	395	
	05/03/94	2.5	12.0	9.1	8.29	390	
	05/03/94	3.0	11.7	8.2	8.19	388	
	07/28/94	0.5	24.9	2.8	7.85	478	0.50
	07/28/94	1.0	24.6	2.5	7.82	478	
	07/28/94	1.5	24.6	2.7	7.81	473	
	07/28/94	2.0	24.5	2.7	7.81	471	
	07/28/94	2.5	24.5	2.5	7.76	470	
	09/07/94	0.5	19.7	6.9	8.44	385	0.40
	09/07/94	1.0	19.5	7.0	8.50	390	
	09/07/94	1.5	19.5	6.9	8.41	392	
	09/07/94	2.0	19.5	6.8	8.44	395	
	09/07/94	2.5	19.3	6.1	8.32	398	
ATWOOD RESERVOIR	L-1						
	06/01/93	0.5	18.3	10.5	9.07	151	0.75
	06/01/93	1.0	17.6	10.3	8.96	149	
	06/01/93	2.0	17.4	9.8	8.90	149	
	06/01/93	3.0	17.4	9.1	8.87	147	
	06/01/93	4.0	17.1	6.3	8.14	145	
	06/01/93	5.0	16.4	5.4	8.03	142	
	06/01/93	6.0	15.9	4.4	7.92	140	
	06/01/93	7.0	15.3	3.5	7.92	140	
	06/01/93	7.25	15.4	3.6	8.36	138	
	08/18/93	0.5	26.7	8.5	8.74	249	0.92
	08/18/93	1.0	26.6	8.5	8.70	249	
	08/18/93	2.0	26.3	8.4	8.62	249	
	08/18/93	3.0	26.1	8.1	8.51	249	
	08/18/93	4.0	25.7	6.7	8.17	245	
	08/18/93	5.0	24.0	1.2	7.31	232	
	08/18/93	6.0	21.9	0.5	7.29	241	
	08/18/93	7.0	21.3	0.4	7.29	241	
	08/18/93	8.0	19.8	0.5	7.31	231	
	08/18/93	9.0	17.7	0.5	7.29	228	
	08/18/93	9.4	17.6	0.6	7.38	225	
	08/18/93	10.0	17.4	0.7	7.44	228	
	09/07/93	0.5	24.8	6.0	7.60	247	1.22
	09/07/93	1.0	24.6	6.0	7.59	245	
	09/07/93	2.0	23.9	5.8	7.57	240	
	09/07/93	3.0	23.8	5.3	7.56	240	
	09/07/93	4.0	23.8	5.1	7.57	240	
	09/07/93	5.0	23.8	5.1	7.55	240	
	09/07/93	6.0	23.7	4.8	7.55	239	
	09/07/93	7.0	21.8	0.2	7.52	252	
	09/07/93	7.75	19.8	0.2	7.54	250	
ATWOOD RESERVOIR	L-2						
	08/18/93	0.5	26.9	8.4	8.90	252	0.94
	08/18/93	1.0	26.7	8.8	8.83	251	
	08/18/93	2.0	26.5	8.7	8.70	251	
	08/18/93	3.0	25.5	6.5	8.15	249	
	08/18/93	4.0	26.2	4.4	7.74	248	
	08/18/93	4.4	26.0	3.1	7.98	241	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	08/18/93	5.0	23.8	0.7	8.30	231	
	09/07/93	0.5	25.5	7.3	7.68	251	0.98
	09/07/93	1.0	24.3	6.5	7.58	245	
	09/07/93	2.0	24.1	5.6	7.59	245	
	09/07/93	3.0	24.1	5.3	7.61	242	
	09/07/93	4.0	24.1	5.3	7.65	242	
	09/07/93	4.25	24.0	5.4	7.71	242	
BARNESVILLE RESERVOIR #3	L-1						
	06/02/93	0.5	20.2		8.74	151	2.03
	06/02/93	1.0	20.0		8.68	151	
	06/02/93	2.0	19.9		8.54	151	
	06/02/93	3.0	18.2		8.19	142	
	06/02/93	4.0	13.8		7.79	125	
	06/02/93	5.0	10.7		7.46	112	
	06/02/93	6.0	8.9		7.34	110	
	06/02/93	7.0	8.0		7.30	110	
	06/02/93	8.0	7.2		7.21	109	
	06/02/93	9.0	6.5		7.13	109	
	06/02/93	10.0	6.1		7.00	109	
	06/02/93	11.0	6.0		7.43	109	
	06/02/93	12.0	5.9		7.42	109	
	06/02/93	13.0	6.0		7.42	99	
	08/17/93	0.5	26.3	7.8	7.93	211	2.22
	08/17/93	1.0	26.0	7.8	7.88	211	
	08/17/93	2.0	25.9	7.7	7.77	211	
	08/17/93	3.0	24.4	6.2	7.29	209	
	08/17/93	4.0	21.4	3.0	7.24	192	
	08/17/93	5.0	16.6	1.6	7.32	169	
	08/17/93	6.0	12.0	0.7	7.45	138	
	08/17/93	7.0	9.0	0.6	7.53	139	
	08/17/93	8.0	7.6	0.6	7.58	137	
	08/17/93	9.0	6.9	0.3	7.61	135	
	08/17/93	10.0	6.4	0.7	7.63	139	
	08/17/93	11.0	6.2	0.7	7.62	139	
	08/17/93	12.0	6.1	0.7	7.58	140	
	08/17/93	13.0	6.1	0.8	7.58	142	
	08/17/93	13.9	6.1	0.8	7.61	142	
	09/08/93	0.5	23.4	7.5	7.97	200	1.85
	09/08/93	1.0	23.3	7.2	7.98	200	
	09/08/93	2.0	23.3	7.1	8.01	200	
	09/08/93	3.0	23.1	6.6	7.98	200	
	09/08/93	4.0	22.2	3.1	8.00	200	
	09/08/93	5.0	16.5	0.5	8.40	170	
	09/08/93	6.0	12.8	0.3	8.60	150	
	09/08/93	7.0	9.5	0.3	8.90	140	
	09/08/93	8.0	7.8	0.3	9.15	135	
	09/08/93	9.0	7.2	0.4	9.28	138	
	09/08/93	10.0	7.1	0.4	9.30	140	
	09/08/93	11.0	6.9	0.4	9.50	145	
	09/08/93	12.0	6.8	0.4	10.05	145	
	09/08/93	13.0	6.6	0.3	10.27	150	
	09/08/93	14.0	6.3	0.3	10.38	80	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
BELLEVUE RESERVOIR #5	L-1						
	05/26/93	0.5	15.5	10.6	8.23	315	2.20
	05/26/93	1.0	15.5	10.6	8.30	315	
	05/26/93	2.0	15.4	10.4	8.32	315	
	05/26/93	3.0	15.3	10.4	8.34	315	
	05/26/93	4.0	15.2	10.3	8.35	315	
	05/26/93	5.0	15.2	10.3	8.33	315	
	05/26/93	6.0	15.2	10.2	8.33	315	
	05/26/93	7.0	15.2	10.1	8.31	315	
	05/26/93	7.5	14.1	8.1	8.02	305	
	08/25/93	0.5	25.5	9.6	9.23	380	2.80
	08/25/93	1.0	25.4	10.0	9.34	370	
	08/25/93	2.0	25.3	10.0	9.32	365	
	08/25/93	3.0	25.1	10.0	9.31	365	
	08/25/93	4.0	25.1	10.0	9.31	360	
	08/25/93	5.0	25.0	9.6	9.26	360	
	08/25/93	6.0	24.0	4.5	8.27	370	
	09/14/93	0.5	21.0	8.4	8.24	330	0.90
	09/14/93	1.0	21.1	7.9	8.19	335	
	09/14/93	1.5	21.1	7.8	8.25	335	
	09/14/93	2.0	21.1	7.7	8.31	330	
	09/14/93	2.5	20.2	7.7	8.37	330	
	09/14/93	3.0	21.1	7.7	8.41	330	
	09/14/93	3.5	21.1	7.7	8.41	330	
	09/14/93	4.0	21.1	7.7	8.41	330	
	09/14/93	4.5	21.1	7.7	8.42	330	
	09/14/93	5.0	21.1	7.7	8.40	330	
	09/14/93	5.5	21.1	7.7	8.47	330	
BLUE LIMESTONE PARK QUARRY LAKE	L-1						
	05/04/94	0.5	14.7	8.0	8.38	488	1.75
	05/04/94	1.0	14.7	8.3	8.40	500	
	05/04/94	1.5	14.6	8.3	8.42	508	
	05/04/94	2.0	14.6	8.4	8.42	508	
	07/27/94	0.5	26.3	5.2	8.29	550	0.98
	07/27/94	1.0	26.2	4.9	8.22	550	
	07/27/94	1.5	26.2	4.6	8.22	550	
	09/07/94	0.5	23.0	9.8	8.81	500	1.00
	09/07/94	1.0	22.1	10.2	8.82	500	
	09/07/94	1.5	21.5	9.8	8.75	499	
	09/07/94	2.0	21.0	9.2	8.66	500	
	09/07/94	2.5	21.0	8.6	8.60	500	
	09/07/94	3.0	20.9	7.8	8.44	500	
	09/07/94	3.5	20.8	4.0	7.84	500	
	09/07/94	4.0	20.7	2.5	7.32	500	
BOWLING GREEN UPGROUND RESERVOIR	L-1						
	05/10/94	0.5	14.5	9.4	8.37	450	1.30
	05/10/94	1.0	14.2	9.0	8.30	450	
	05/10/94	2.0	13.9	8.9	8.27	440	
	05/10/94	3.0	13.8	8.6	8.23	440	
	05/10/94	4.0	13.7	8.4	8.20	440	
	05/10/94	5.0	13.6	8.2	8.19	440	
	05/10/94	6.0	13.5	8.2	8.18	440	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	05/10/94	7.0	13.3	6.9	8.13	440	
	05/10/94	7.25	13.1	6.9	8.02	440	
	07/26/94	0.5	25.7	6.4	7.90	550	0.40
	07/26/94	1.0	25.7	6.5	8.01	550	
	07/26/94	2.0	25.7	6.5	8.02	550	
	07/26/94	3.0	25.8	6.5	8.02	550	
	07/26/94	4.0	25.8	6.5	8.02	550	
	07/26/94	5.0	25.8	6.5	8.02	550	
	07/26/94	6.0	25.7	6.5	8.02	550	
	07/26/94	7.0	25.7	6.5	8.02	550	
	07/26/94	7.25	25.7	6.4	8.02	550	
	08/23/94	0.5	22.8	5.5	7.98	550	0.40
	08/23/94	1.0	23.0	5.6	7.98	550	
	08/23/94	2.0	23.0	5.7	7.98	550	
	08/23/94	3.0	23.0	5.6	7.98	550	
	08/23/94	4.0	23.0	5.6	7.98	550	
	08/23/94	5.0	23.0	5.6	7.98	550	
	08/23/94	6.0	23.0	5.5	7.98	550	
	08/23/94	7.0	23.0	5.6	7.98	550	
	08/23/94	7.25	22.9	4.7	7.94	550	
BUCYRUS RESERVOIR #1	L-1						
	05/31/95	0.5	21.8	5.4	7.90	340	0.80
	05/31/95	1.0	19.5	4.6	7.79	320	
	05/31/95	1.5	19.0	4.2	7.75	320	
	05/31/95	2.0	18.6	3.3	7.70	320	
	05/31/95	2.5	17.6	1.8	7.58	340	
	05/31/95	3.0	15.5	0.3	7.45	380	
	05/31/95	3.5	13.7	0.3	7.38	380	
	05/31/95	4.0	12.8	0.3	7.36	380	
	08/01/95	0.5	29.4	13.6	9.15	320	0.40
	08/01/95	1.0	28.8	11.3	8.98	330	
	08/01/95	1.5	28.2	8.6	8.71	340	
	08/01/95	2.0	26.9	3.0	7.94	350	
	08/01/95	2.5	24.5	0.3	7.50	380	
	08/01/95	3.0	21.1	0.3	7.22	440	
	08/01/95	3.5	17.6	0.3	7.16	445	
	08/01/95	4.0	15.5	0.3	7.07	550	
	08/16/95	0.5	30.2	12.8	9.38	320	0.60
	08/16/95	1.0	29.4	11.4	9.33	315	
	08/16/95	1.5	27.9	4.6	8.13	340	
	08/16/95	2.0	25.6	0.6	7.60	350	
	08/16/95	2.5	23.7	0.5	7.36	370	
	08/16/95	3.0	21.7	0.5	7.14	420	
	08/16/95	3.5	18.9	0.5	7.05	485	
	08/16/95	4.0	16.2	0.5	6.96	400	
BUCYRUS RESERVOIR #2	L-1						
	05/31/95	0.5	20.3	9.6	8.64	360	0.50
	05/31/95	1.0	19.8	9.5	8.64	350	
	05/31/95	1.5	18.8	9.1	8.59	340	
	05/31/95	2.0	18.2	5.4	7.80	350	
	05/31/95	2.5	18.1	4.0	7.63	350	
	05/31/95	3.0	16.0	0.3	7.25	350	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	05/31/95	3.5	13.3	0.3	7.32	390	
	08/01/95	0.5	31.0	16.9	9.65	410	0.30
	08/01/95	1.0	29.2	16.0	9.49	400	
	08/01/95	1.5	27.4	4.7	7.86	420	
	08/01/95	2.0	25.0	0.3	7.41	455	
	08/01/95	2.5	22.4	0.7	7.16	485	
	08/01/95	3.0	19.2	0.7	7.06	550	
	08/16/95	0.5	29.0	10.8	9.05	405	0.50
	08/16/95	1.0	27.8	5.2	7.75	410	
	08/16/95	1.5	26.3	0.5	7.37	400	
	08/16/95	2.0	23.5	0.5	7.13	410	
	08/16/95	2.5	22.0	0.5	6.99	460	
	08/16/95	3.0	20.2	0.4	6.89	600	
BUCYRUS RESERVOIR #4	L-1						
	05/31/95	0.5	17.6	8.6	8.37	450	3.00
	05/31/95	1.0	17.4	8.6	8.39	450	
	05/31/95	2.0	17.3	8.6	8.40	440	
	05/31/95	3.0	17.2	8.7	8.40	440	
	05/31/95	4.0	17.2	8.7	8.39	440	
	05/31/95	5.0	17.1	8.5	8.38	440	
	05/31/95	6.0	17.1	8.5	8.37	440	
	05/31/95	7.0	17.0	8.4	8.35	440	
	05/31/95	8.0	16.9	8.2	8.33	440	
	05/31/95	9.0	16.7	7.6	8.23	440	
	08/01/95	0.5	27.3	8.6	8.49	550	4.20
	08/01/95	1.0	27.4	8.3	8.51	500	
	08/01/95	2.0	27.4	8.4	8.52	500	
	08/01/95	3.0	27.2	8.6	8.54	500	
	08/01/95	4.0	26.9	8.3	8.51	500	
	08/01/95	5.0	26.4	7.9	8.43	500	
	08/01/95	6.0	24.9	5.3	7.95	500	
	08/01/95	7.0	21.5	1.6	7.63	490	
	08/01/95	8.0	18.7	0.5	7.55	470	
	08/16/95	0.5	28.6	8.1	8.48	550	7.00
	08/16/95	1.0	28.5	8.1	8.52	550	
	08/16/95	2.0	28.3	8.1	8.53	550	
	08/16/95	3.0	28.1	8.5	8.52	550	
	08/16/95	4.0	27.0	8.3	8.48	500	
	08/16/95	5.0	26.3	7.9	8.46	500	
	08/16/95	6.0	25.0	5.9	8.07	500	
	08/16/95	7.0	22.6	2.7	7.66	500	
	08/16/95	8.0	19.3	0.8	7.55	500	
	08/16/95	9.0	17.4	0.5	7.59	500	
	08/16/95	10.0	16.6	0.5	7.60	450	
	08/16/95	11.0	15.3	0.5	7.57	450	
C.J. BROWN LAKE	L-1						
	06/02/94	0.5	20.5	15.6		438	0.91
	06/02/94	1.0	21.0	8.0		470	
	06/02/94	2.0	21.0	8.0		470	
	06/02/94	3.0	20.7	7.7		470	
	06/02/94	4.0	20.7	7.7		470	
	06/02/94	5.0	20.5	7.4		470	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	06/02/94	6.0	20.5	7.4		469	
	06/02/94	7.0	20.5	7.4		468	
	06/02/94	8.0	18.0	2.2		450	
	06/02/94	9.0	17.6	1.3		448	
	06/02/94	10.0	17.2	0.4		445	
	06/02/94	11.0	16.9	0.2		445	
	08/10/94	0.5	23.8	8.3	9.65	420	1.52
	08/10/94	1.0	24.5	7.6	9.73	428	
	08/10/94	2.0	24.5	7.4	9.73	428	
	08/10/94	3.0	24.5	7.4	8.50	430	
	08/10/94	4.0	24.2	7.4	8.60	430	
	08/10/94	5.0	24.2	7.4	8.60	430	
	08/10/94	6.0	24.2	7.5	8.61	432	
	08/10/94	7.0	24.2	7.6	8.62	432	
	08/10/94	8.0	23.2	4.6	8.29	440	
	08/10/94	9.0	22.1	0.3	7.81	463	
	08/10/94	10.0	19.9	0.2	7.59	480	
	08/10/94	11.0	18.7	0.1	7.57	482	
	08/10/94	11.5	18.3	0.1	7.47	470	
	09/14/94	0.5	22.0	7.5	7.85	435	1.83
	09/14/94	1.0	22.0	7.3	8.14	435	
	09/14/94	2.0	21.8	6.8	8.22	435	
	09/14/94	3.0	21.8	6.7	8.20	435	
	09/14/94	4.0	21.8	6.5	8.19	435	
	09/14/94	5.0	21.8	6.5	8.19	435	
	09/14/94	6.0	21.5	4.4	8.01	430	
	09/14/94	7.0	21.0	1.8	7.85	430	
	09/14/94	8.0	21.0	1.4	7.79	430	
	09/14/94	9.0	21.0	0.9	7.73	430	
	09/14/94	10.0	21.0	0.5	7.70	430	
	09/14/94	11.0	20.8	0.2	7.69	430	
C.J. BROWN LAKE	L-2						
	06/02/94	0.5	21.5	7.6		482	0.91
	06/02/94	1.0	21.5	7.5		484	
	06/02/94	1.5	21.3	7.5		482	
	06/02/94	2.0	20.9	7.1		472	
	06/02/94	2.5	20.6	5.6		472	
	06/02/94	3.0	20.5	5.3		470	
	08/10/94	0.5	23.2	9.7	8.99	418	0.74
	08/10/94	0.75	23.0	8.0	9.54	428	
	08/10/94	1.0	22.9	7.2	9.05	421	
	08/10/94	1.25	21.6	6.2	9.01	443	
	09/14/94	0.25	23.5	8.3	7.12	485	0.91
	09/14/94	0.5	23.5	8.0	8.25	485	
	09/14/94	0.75	22.5	8.0	8.24	485	
	09/14/94	1.0	22.0	7.9	7.94	500	
CAMBRIDGE RESERVOIR	L-1						
	04/26/94	0.5	16.8	11.1	8.55	370	1.10
	04/26/94	1.0	16.7	11.1	8.43	370	
	04/26/94	2.0	15.8	10.8	8.30	362	
	04/26/94	3.0	15.7	10.8	8.25	362	
	04/26/94	4.0	15.0	9.7	8.03	364	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	04/26/94	5.0	13.8	8.8	7.89	364	
	04/26/94	6.0	13.1	7.4	7.76	365	
	04/26/94	7.0	12.2	6.9	7.82	365	
	04/26/94	8.0	12.4	4.1	8.08	368	
	08/09/94	0.5	24.6	12.6	8.71	1060	0.80
	08/09/94	1.0	24.4	11.4	8.61	1060	
	08/09/94	2.0	24.1	9.3	8.43	1060	
	08/09/94	3.0	24.0	7.5	8.27	1080	
	08/09/94	4.0	23.9	6.2	8.14	1080	
	08/09/94	5.0	23.8	5.3	8.06	1080	
	08/09/94	6.0	23.4	4.5	8.03	1080	
	08/09/94	7.0	23.4	4.5	7.96	1080	
	08/09/94	8.0	21.7	0.0	7.84	1000	
	08/09/94	8.5	18.8	0.0	7.66	1000	
	08/29/94	0.5	26.2	12.8	8.72	900	0.78
	08/29/94	1.0	25.0	9.4	8.40	900	
	08/29/94	2.0	24.8	8.4	8.25	900	
	08/29/94	3.0	24.7	7.4	8.17	900	
	08/29/94	4.0	24.8	6.0	7.93	900	
	08/29/94	5.0	24.1	3.3	7.82	900	
	08/29/94	6.0	23.1	0.8	7.78	1000	
	08/29/94	7.0	23.1	0.2	7.74	1000	
	08/29/94	8.5	20.7	0.2	7.59	1000	
CEDARVILLE RESERVOIR	L-1						
	06/01/93	0.25	19.0	10.1	8.35	450	2.10
	06/01/93	0.5	19.0	10.1	8.37	450	
	06/01/93	0.75	19.0	10.1	8.37	450	
	06/01/93	1.0	19.0	10.1	8.37	450	
	06/01/93	1.25	19.0	10.0	8.37	450	
	06/01/93	1.5	19.0	10.2	8.37	450	
	06/01/93	1.75	19.0	10.1	8.36	450	
	06/01/93	2.0	19.0	10.1	8.34	450	
	06/01/93	2.25	19.0	10.2	8.36	450	
	06/01/93	2.5	19.0	10.3	8.38	450	
	08/30/93	0.5	28.0	7.3	8.26	550	1.30
	08/30/93	1.0	28.0	6.8	8.32	525	
	08/30/93	1.5	28.0	7.3	8.43	525	
	08/30/93	2.0	27.8	7.0	8.47	510	
	08/30/93	2.5	27.5	6.2	8.41	510	
	09/27/93	0.5	17.2	7.5		490	0.80
	09/27/93	1.0	17.2	7.5		490	
	09/27/93	1.5	17.2	7.5		490	
	09/27/93	2.0	17.2	7.5		490	
	09/27/93	2.5	17.2	7.5		490	
CITY OF DAYTON LAKE #1	L-1						
	05/25/94	0.5	20.5	14.2		500	0.74
	05/25/94	1.0	20.5	14.4		495	
	05/25/94	2.0	20.0	14.2		495	
	05/25/94	3.0	18.5	11.6		495	
	05/25/94	4.0	19.0	10.0		495	
	05/25/94	5.0	16.5	6.5		495	
	05/25/94	6.0	16.2	5.0		495	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	05/25/94	7.0	16.2	4.8		495	
	05/25/94	8.0	16.2	4.4		495	
	05/25/94	9.0	16.2	4.4		492	
	05/25/94	10.0	16.2	4.4		495	
	05/25/94	11.0	16.2	4.5		495	
	05/25/94	12.0	16.2	4.4		495	
	05/25/94	13.0	16.2	4.4		495	
	05/25/94	14.0	16.2	4.4		495	
	05/25/94	15.0	16.2	4.4		495	
	05/25/94	16.0	16.2	4.5		495	
	05/25/94	17.0	16.2	4.5		495	
	05/25/94	18.0	16.0	4.5		495	
	05/25/94	19.0	16.0	4.5		495	
	05/25/94	20.0	16.0	4.5		495	
	05/25/94	21.0	16.0	4.2		495	
	08/09/94	0.5	22.5	16.0	8.32	500	0.91
	08/09/94	1.0	22.8	14.4	8.33	490	
	08/09/94	1.5	22.0	12.2	8.05	490	
	08/09/94	2.0	21.5	10.6	8.01	500	
	08/09/94	2.5	21.2	8.8	7.85	495	
	08/09/94	3.0	21.0	16.0	7.85	495	
	08/09/94	3.5	21.0	7.6	7.79	500	
	08/09/94	4.0	21.0	6.8	7.77	500	
	08/09/94	4.5	20.8	5.2	7.65	500	
	09/13/94	0.5	20.8	12.2	8.75	507	1.07
	09/13/94	1.0	20.5	10.9	8.49	507	
	09/13/94	1.5	20.2	10.1	8.49	507	
	09/13/94	2.0	20.1	9.5	8.40	5.8	
	09/13/94	2.5	19.9	8.9	8.39	507	
	09/13/94	3.0	19.8	8.6	8.34	507	
	09/13/94	3.5	19.6	8.2	8.32	507	
	09/13/94	4.0	19.6	7.6	8.25	507	
	09/13/94	4.5	19.4	6.4	8.14	517	
	09/13/94	5.0	19.4	6.3	8.17	507	
CLEAR FORK RESERVOIR	L-1						
	06/01/93	0.5	17.6	8.6	8.21	270	2.00
	06/01/93	1.0	17.6	8.5	8.11	270	
	06/01/93	2.0	17.5	8.5	8.10	270	
	06/01/93	3.0	17.5	8.5	8.08	270	
	06/01/93	4.0	17.5	8.5	8.07	270	
	06/01/93	5.0	17.4	8.5	8.07	270	
	06/01/93	6.0	17.4	8.5	8.07	270	
	08/24/93	0.5	25.4	7.9	9.40	330	
	08/24/93	1.0	25.4	7.9	9.12	350	0.90
	08/24/93	2.0	25.2	7.3	8.96	330	
	08/24/93	3.0	24.7	6.4	8.72	330	
	08/24/93	4.0	24.6	5.7	8.53	330	
	08/24/93	5.0	24.6	5.0	8.37	330	
	08/24/93	6.0	21.9	0.2	7.53	350	
	09/15/93	0.5	20.7	7.0	7.99	300	0.80
	09/15/93	1.0	20.7	7.0	8.01	300	
	09/15/93	1.5	20.7	7.1	8.02	300	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	09/15/93	2.0	20.7	7.1	8.02	300	
	09/15/93	2.5	20.7	7.1	8.02	300	
	09/15/93	3.0	20.7	7.0	8.01	305	
	09/15/93	3.5	20.7	7.0	8.01	305	
	09/15/93	4.0	20.7	7.0	7.97	300	
	09/15/93	4.5	20.7	7.0	7.97	300	
	09/15/93	5.0	20.7	7.0	7.96	300	
	09/15/93	5.5	20.7	6.8	7.95	300	
CLEAR FORK RESERVOIR	L-2						
	06/01/93	0.5	17.4	8.7	8.28	275	1.10
	06/01/93	1.0	17.4	8.7	8.34	275	
	06/01/93	1.5	17.4	8.7	8.34	275	
	06/01/93	2.0	17.4	8.7	8.34	275	
	06/01/93	2.5	17.3	8.6	8.31	270	
	06/01/93	3.0	17.3	8.5	8.32	270	
	08/24/93	0.5	25.3	8.0	8.81	340	0.75
	08/24/93	1.0	25.2	7.8	8.78	340	
	08/24/93	1.5	25.2	7.5	8.72	340	
	08/24/93	2.0	25.1	6.7	8.57	340	
	08/24/93	2.5	25.0	5.9	8.34	340	
	08/24/93	3.0	24.6	4.2	7.86	345	
	09/15/93	0.5	21.0	7.9	8.22	300	0.40
	09/15/93	1.0	21.0	7.8	8.19	300	
	09/15/93	1.5	21.0	7.7	8.19	300	
	09/15/93	2.0	21.0	7.7	8.20	300	
	09/15/93	2.5	21.0	7.6	8.19	300	
CRYSTAL LAKE	L-1						
	05/17/94	0.5	13.0	8.2	7.60	283	4.51
	05/17/94	1.0	13.0	8.2		273	
	05/17/94	2.0	13.0	7.8		273	
	05/17/94	3.0	13.0	7.8		262	
	05/17/94	4.0	8.5	3.9		262	
	05/17/94	5.0	6.5	2.3		315	
	05/17/94	6.0	6.0	0.0		336	
	05/17/94	7.0	5.0	0.0		378	
	05/17/94	8.0	5.0	0.0	7.20	399	
	07/18/94	0.5	26.6	6.6	7.21	367	3.73
	07/18/94	1.0	26.6	6.5		364	
	07/18/94	2.0	26.3	5.2		358	
	07/18/94	3.0	22.0	7.5		345	
	07/18/94	4.0	16.5	6.2		318	
	07/18/94	5.0	12.6	0.7		326	
	07/18/94	6.0	9.1	0.4		359	
	07/18/94	7.0	7.4	0.3	6.80	375	
	08/24/94	0.5	23.5	7.5	7.00	330	3.85
	08/24/94	1.0	23.5	7.7		330	
	08/24/94	2.0	23.5	7.5		330	
	08/24/94	3.0	23.3	6.4		330	
	08/24/94	4.0	22.2	3.7		328	
	08/24/94	5.0	18.5	0.0		336	
	08/24/94	6.0	14.5	0.0		336	
	08/24/94	7.0	11.4	0.0		336	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	08/24/94	8.0	8.5	0.0		388	
	08/24/94	9.0	8.0	0.0		472	
	08/24/94	10.0	8.0	0.0		472	
DEER CREEK RESERVOIR	L-1						
	05/18/94	0.5	13.0	8.0	7.30	199	0.64
	05/18/94	1.0	13.0	8.0		191	
	05/18/94	2.0	13.0	8.0		191	
	05/18/94	3.0	13.0	8.0		191	
	05/18/94	4.0	13.0	8.0		191	
	05/18/94	5.0	13.0	8.0		191	
	05/18/94	5.5	13.0	7.0	7.00	191	
	07/14/94	0.5	27.5	8.0	8.30	294	0.61
	07/14/94	1.0	27.5	8.0		294	
	07/14/94	1.5	26.5	7.0		288	
	07/14/94	2.0	26.0	5.0		284	
	07/14/94	2.5	25.5	3.5		283	
	07/14/94	3.0	24.7	2.0		283	
	07/14/94	3.5	24.5	1.0		281	
	07/14/94	4.0	23.0	0.0		281	
	07/14/94	4.5	20.0	0.0		285	
	07/14/94	5.0	17.5	0.0	7.80	295	
	07/14/94	5.5	15.7	0.0		306	
	08/22/94	0.5	24.0	8.2	8.00	275	0.57
	08/22/94	1.0	23.5	8.0		275	
	08/22/94	1.5	23.5	8.0		275	
	08/22/94	2.0	23.5	7.8		275	
	08/22/94	2.5	23.5	7.6		275	
	08/22/94	3.0	23.5	7.3		275	
	08/22/94	3.5	23.0	4.3		275	
	08/22/94	4.0	23.5	2.0		280	
	08/22/94	4.5	21.5	0.0		283	
	08/22/94	5.0	19.5	0.0		300	
	08/22/94	5.5	19.0	0.0		330	
DELCO WATER COMPANY LAKE	L-1						
	05/04/94	0.5	13.0	9.0	8.66	312	1.70
	05/04/94	1.0	13.1	9.6	8.77	312	
	05/04/94	1.5	13.1	9.4	8.79	312	
	05/04/94	2.0	13.1	9.5	8.80	312	
	05/04/94	2.5	13.1	9.4	8.80	312	
	05/04/94	3.0	13.1	9.6	8.80	312	
	05/04/94	3.5	13.0	9.2	8.75	318	
	07/27/94	0.5	27.0	8.2	9.39	250	0.70
	07/27/94	1.0	27.2	8.3	9.34	280	
	07/27/94	1.5	26.9	8.3	9.34	290	
	07/27/94	2.0	26.9	8.1	9.29	270	
	07/27/94	2.5	26.8	7.7	9.28	290	
	07/27/94	3.0	26.7	7.9	9.30	300	
	07/27/94	3.5	26.5	7.7	9.29	240	
	07/27/94	4.0	26.2	6.3	9.10	220	
	09/07/94	0.5	21.2	7.6	9.24		1.10
	09/07/94	1.0	21.2	7.3	9.23		
	09/07/94	1.5	21.2	7.3	9.18		

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	09/07/94	2.0	21.1	7.3	9.19		
	09/07/94	2.5	21.1	6.9	9.14		
	09/07/94	3.0	21.0	7.0	9.17		
	09/07/94	3.5	21.0	6.4	9.09		
	09/07/94	4.0	21.0	5.8	9.04		
	09/07/94	4.5	20.9	4.5	8.75		
DELTA RESERVOIR #2	L-1						
	05/17/93	0.5	17.0	10.2	8.35	475	3.90
	05/17/93	1.0	17.0	10.4	8.32	475	
	05/17/93	2.0	17.0	10.4	8.33	475	
	05/17/93	3.0	16.9	10.3	8.34	475	
	05/17/93	4.0	16.9	10.2	8.35	475	
	05/17/93	5.0	16.9	10.2	8.35	475	
	05/17/93	6.0	13.1	13.2	8.41	430	
	05/17/93	7.0	11.4	13.4	8.37	415	
	05/17/93	8.0	10.7	13.2	8.40	410	
	05/17/93	9.0	10.3	12.9	8.44	405	
	05/17/93	10.0	9.9	12.0	8.54	400	
	05/17/93	11.0	9.7	11.4	8.52	400	
	05/17/93	12.0	9.4	10.8	8.48	400	
	05/17/93	13.0	9.2	9.6	8.35	400	
EAST FORK LAKE	L-1						
	06/02/93	0.5	20.8	12.0	7.59	230	0.91
	06/02/93	1.0	20.8	12.5	7.95	235	
	06/02/93	1.5	20.5	12.0	8.06	235	
	06/02/93	2.0	20.5	12.0	8.14	235	
	06/02/93	2.5	20.2	12.0	8.30	235	
	06/02/93	3.0	20.0	9.3	8.23	235	
	06/02/93	3.5	19.8	8.5	8.23	235	
	06/02/93	4.0	19.5	7.8	8.12	235	
	06/02/93	4.5	19.0	7.5	8.06	235	
	06/02/93	5.0	18.5	6.0	7.95	232	
	06/02/93	5.5	18.0	4.5	7.86	230	
	06/02/93	6.0	17.0	3.0	7.72	225	
	06/02/93	6.5	16.5	2.4	7.70	220	
	06/02/93	7.0	15.5	2.0	7.64	215	
	06/02/93	7.5	15.0	2.0	7.58	210	
	09/02/93	0.5	27.9	6.9	8.09	270	1.50
	09/02/93	1.0	27.9	6.9	8.26	285	
	09/02/93	2.0	27.9	6.8	8.36	285	
	09/02/93	3.0	27.8	6.1	8.41	285	
	09/02/93	4.0	26.9	2.5	8.01	290	
	09/02/93	5.0	25.2	0.25	7.89	285	
	09/02/93	6.0	22.7	0.13	7.82	275	
	09/02/93	7.0	18.7	0.10	7.75	260	
	09/02/93	7.5	18.1	0.10	7.69	255	
	09/29/93	0.5	19.0	6.8		225	1.75
	09/29/93	1.0	19.0	6.1		225	
	09/29/93	2.0	18.8	6.1		225	
	09/29/93	3.0	18.8	6.5		225	
	09/29/93	4.0	19.0	6.2		229	
	09/29/93	5.0	19.0	6.1		229	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	09/29/93	6.0	19.0	6.1		229	
	09/29/93	7.0	19.0	6.1	7.90	229	
EAST FORK LAKE	L-2						
	06/02/93	0.5	20.5	11.4	8.05	125	1.00
	06/02/93	1.0	20.5	11.0	8.29	130	
	06/02/93	1.5	20.5	10.8	8.35	130	
	06/02/93	2.0	20.5	11.0	8.41	130	
	06/02/93	2.5	20.5	10.4	8.48	130	
	06/02/93	3.0	20.0	10.8	8.55	130	
	06/02/93	3.5	20.0	9.6	8.50	130	
	06/02/93	4.0	20.0	7.0	8.37	130	
	06/02/93	4.5	19.0	5.0	8.21	130	
	06/02/93	5.0	18.5	2.8	8.04	130	
	06/02/93	5.5	18.0	1.8	7.94	125	
	06/02/93	6.0	16.5	0.8	7.89	120	
	06/02/93	6.5	15.5	0.4	7.80	110	
	06/02/93	7.0	14.0	0.7	7.73	105	
	06/02/93	7.5	14.0	0.6	7.64	100	
	09/02/93	0.5	28.1	5.8	8.21	300	1.65
	09/02/93	1.0	28.1	5.7	8.25	300	
	09/02/93	2.0	28.1	5.8	8.26	300	
	09/02/93	3.0	28.1	5.6	8.29	300	
	09/02/93	4.0	27.6	2.2	7.91	300	
	09/02/93	5.0	26.0	1.0	7.74	295	
	09/02/93	6.0	24.6	0.25	7.66	290	
	09/02/93	7.0	23.0	0.2	7.60	285	
	09/02/93	7.5	21.0	0.2	7.55	280	
	09/29/93	0.5	19.0	6.3		250	1.14
	09/29/93	1.0	19.0	6.3		250	
	09/29/93	2.0	19.0	6.3		250	
	09/29/93	3.0	19.0	6.1		250	
	09/29/93	4.0	19.0	5.9		250	
	09/29/93	5.0	19.0	5.9		250	
	09/29/93	6.0	19.0	5.7		250	
	09/29/93	7.0	18.8	5.4		250	
EAST RESERVOIR	L-1						
	05/19/93	0.5	17.9	7.8	8.00	684	1.42
	05/19/93	1.0	18.0	8.0		600	
	05/19/93	1.5	18.0	8.1		600	
	05/19/93	2.0	18.0	8.0		600	
	05/19/93	2.5	18.0	8.0		600	
	05/19/93	3.0	18.0	8.1		600	
	05/19/93	3.5	18.0	8.1		600	
	05/19/93	4.0	17.9	7.9		606	
	05/19/93	4.5	14.9	2.2		588	
	05/19/93	5.0	14.9	1.3		576	
	05/19/93	5.5	13.5	0.0	8.00	564	
	08/17/93	0.5	26.5	11.0	8.40	682	0.84
	08/17/93	1.0	26.5	10.8		672	
	08/17/93	1.5	26.0	10.6		682	
	08/17/93	2.0	26.0	8.4		682	
	08/17/93	2.5	26.0	7.2		703	

Lake		Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
		08/17/93	3.0	26.0	6.0		682	
		08/17/93	3.5	25.0	1.0		682	
		08/17/93	4.0	24.5	0.9		682	
		08/17/93	4.5	24.0	0.0		682	
		08/17/93	5.0	23.0	0.0		682	
		08/17/93	5.5	22.0	0.0		714	
		09/09/93	0.5	24.0	6.5	7.90	630	0.92
		09/09/93	1.0	24.0	6.0		630	
		09/09/93	2.0	23.5	5.3		630	
		09/09/93	3.0	23.5	4.9		630	
		09/09/93	4.0	23.5	4.8		630	
		09/09/93	5.0	23.5	4.8		630	
		09/09/93	6.0	23.0	1.4		630	
		09/09/93	7.0	19.5	0.0		735	
		09/09/93	8.0	19.0	0.0	7.50	840	
ECHO LAKE	L-1							
		05/24/94	0.5	23.0	16.6		490	0.46
		05/24/94	1.0	22.5	14.0		500	
		05/24/94	1.25	21.8	12.2		505	
		05/24/94	1.5	21.0	9.3		495	
		05/24/94	1.75	19.5	5.2		510	
		05/24/94	2.0	19.0	2.3		495	
		08/08/94	0.5	23.5	7.0	7.95		
		08/08/94	0.75	23.5	8.2	8.14		
		08/08/94	1.0	23.5	6.0	7.84		
		08/08/94	1.25	23.5	7.5	8.86		
		08/08/94	1.5	23.5	6.8	7.99		
		08/08/94	1.75	23.5	6.5	8.82		
		08/08/94	2.0	23.5	6.8	7.84		
		09/12/94	0.25	22.5	7.8	8.08	425	0.46
		09/12/94	0.5	22.0	8.0	8.14	430	
		09/12/94	0.75	21.5	7.9	8.14	430	
		09/12/94	1.0	21.5	8.0	8.08	430	
		09/12/94	1.25	21.3	8.0	8.15	430	
		09/12/94	1.5	21.0	7.4	8.08	430	
		09/12/94	1.75	21.0	7.4	8.08	430	
EVANS LAKE	L-1							
		05/26/94	0.5	18.5	9.9	7.90	735	2.52
		05/26/94	1.0	18.5	9.5		735	
		05/26/94	2.0	18.5	9.5		735	
		05/26/94	3.0	18.5	9.5		735	
		05/26/94	4.0	18.0	9.5		735	
		05/26/94	5.0	13.0	8.8		682	
		05/26/94	6.0	12.5	6.5		682	
		05/26/94	7.0	12.0	5.0		682	
		05/26/94	8.0	12.0	2.8		682	
		05/26/94	8.5	12.0	2.8	7.60	656	
		07/21/94	0.5	28.5	9.6	8.30	945	2.17
		07/21/94	1.0	28.5	9.5		945	
		07/21/94	2.0	28.5	9.6		945	
		07/21/94	3.0	28.5	9.6		945	
		07/21/94	4.0	25.5	6.2		974	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	07/21/94	5.0	24.5	0.1		892	
	07/21/94	6.0	21.5	0.0		866	
	07/21/94	7.0	19.5	0.0		813	
	07/21/94	8.0	16.5	0.0	7.70	813	
	09/01/94	0.5	22.5	6.1	7.90	900	0.93
	09/01/94	1.0	23.0	6.1		850	
	09/01/94	2.0	22.7	6.1		850	
	09/01/94	3.0	22.7	6.1		850	
	09/01/94	4.0	22.7	5.8		850	
	09/01/94	5.0	22.5	1.4		850	
	09/01/94	6.0	21.7	0.0		850	
	09/01/94	7.0	20.7	0.0		830	
	09/01/94	8.0	19.0	0.0	7.50	820	
EVERGREEN LAKE	L-1						
	05/10/94	0.5	15.1	8.7	8.22	270	1.60
	05/10/94	1.0	14.9	8.0	8.25	270	
	05/10/94	2.0	13.8	7.3	8.01	260	
	05/10/94	3.0	11.7	2.2	7.52	250	
	05/10/94	3.5	10.9	0.2	7.21	250	
	07/26/94	0.5	25.3	7.8	8.45	345	0.80
	07/26/94	1.0	25.2	8.4	8.64	350	
	07/26/94	2.0	24.4	0.7	7.44	350	
	07/26/94	3.0	19.5	0.3	6.85	350	
	07/26/94	3.25	18.1	0.3	6.82	365	
	08/23/94	0.5	21.9	4.9	7.73	330	0.90
	08/23/94	1.0	21.8	5.1	7.74	330	
	08/23/94	2.0	21.4	1.2	7.36	330	
	08/23/94	3.0	19.6	0.0	6.88	370	
	08/23/94	3.5	17.7	0.0	6.80	400	
	08/23/94	4.0	15.9	0.0	6.66	500	
FORKED RUN LAKE	L-1						
	06/03/93	0.5	20.1	8.0	7.86	115	1.90
	06/03/93	1.0	20.0	8.0	7.83	115	
	06/03/93	2.0	19.2	8.7	7.80	111	
	06/03/93	3.0	13.9	10.9	7.86	90	
	06/03/93	4.0	9.3	7.1	7.88	78	
	06/03/93	5.0	6.9	5.6	7.95	71	
	06/03/93	6.0	6.1	6.1	7.98	70	
	06/03/93	7.0	5.4	6.2	8.00	69	
	06/03/93	8.0	5.0	3.3	8.00	70	
	06/03/93	8.5	5.0	0.8	7.12	74	
	06/03/93	9.0	5.0	0.5	7.57	79	
	08/16/93	0.5	26.3	7.7	7.10	155	2.54
	08/16/93	1.0	26.2	7.7	7.00	155	
	08/16/93	2.0	25.7	7.6	6.88	152	
	08/16/93	3.0	23.4	8.3	6.76	140	
	08/16/93	4.0	18.5	7.7	6.68	120	
	08/16/93	5.0	12.9	3.5	6.65	101	
	08/16/93	6.0	8.9	0.7	6.81	91	
	08/16/93	7.0	6.7	0.7	6.93	90	
	08/16/93	8.0	6.1	1.3	7.51	99	
	09/09/93	0.5	23.8	7.6	7.74	148	3.13

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	09/09/93	1.0	23.8	7.5	7.71	148	
	09/09/93	2.0	23.8	7.5	7.70	148	
	09/09/93	3.0	23.7	7.4	7.69	145	
	09/09/93	4.0	20.2	4.5	6.95	127	
	09/09/93	5.0	15.1	0.7	6.73	110	
	09/09/93	6.0	10.3	0.4	6.83	101	
	09/09/93	7.0	7.4	0.5	6.87	95	
	09/09/93	7.5	6.5	0.8	6.86	92	
GRAFTON UPGROUND RESERVOIR		L-1					
	06/07/93	0.5	22.0	9.3	8.10	612	0.85
	06/07/93	1.0	20.5	9.3		612	
	06/07/93	1.5	18.6	9.2		600	
	06/07/93	2.0	18.0	8.5		594	
	06/07/93	2.5	17.8	5.7	8.30	594	
	06/07/93	3.0	17.6	0.1		589	
GRAND RIVER WILDLIFE AREA LAKE		L-1					
	05/16/95	0.5	19.3	8.4		70	1.50
	05/16/95	1.0	18.5	8.3	7.10	70	
	05/16/95	1.5	17.6	7.8		68	
	05/16/95	2.0	17.0	7.0		68	
	05/16/95	2.5	15.0	4.2	6.70	66	
	05/16/95	3.0	13.5	2.0		66	
	07/31/95	0.1	28.4	4.0		72	0.65
	07/31/95	0.3	26.0	2.6	6.60	72	
	07/31/95	0.6	25.0	2.9		65	
	07/31/95	0.9	24.0	3.4		72	
	07/31/95	1.2	22.4	0.0		123	
	07/31/95	1.5	18.4	0.0		231	
	07/31/95	1.8	16.0	0.0		370	
	07/31/95	2.1	14.5	0.0	6.40	565	
	07/31/95	2.4	16.0	0.0		442	
	08/21/95	0.1	26.9	6.1		77	0.59
	08/21/95	0.3	26.9	6.1	6.90	77	
	08/21/95	0.6	26.4	6.1		77	
	08/21/95	0.9	25.3	4.4		75	
	08/21/95	1.2	24.5	1.2		75	
	08/21/95	1.5	22.4	0.0		128	
	08/21/95	1.8	19.5	0.0	6.50	276	
	08/21/95	2.1	18.2	0.0		389	
GUILFORD LAKE		L-1					
	05/16/94	0.5	15.0	11.8	8.20	215	0.68
	05/16/94	1.5	15.2	11.9		208	
	05/16/94	2.0	15.2	12.0		207	
	05/16/94	2.5	15.2	12.0		205	
	05/16/94	3.0	15.2	12.0		206	
	05/16/94	3.5	15.2	12.2		208	
	05/16/94	4.0	15.5	12.2		208	
	05/16/94	4.5	15.5	12.2		208	
	05/16/94	5.0	15.5	12.2		209	
	05/16/94	5.5	15.5	12.3		208	
	05/16/94	6.0	15.5	12.3		208	
	05/16/94	6.5	15.5	12.3	8.20	208	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	07/19/94	0.5	28.3	9.0	8.90	281	0.82
	07/19/94	1.0	27.6	9.2		274	
	07/19/94	2.0	27.7	8.4		276	
	07/19/94	3.0	26.3	0.6		281	
	07/19/94	4.0	24.0	0.0		274	
	07/19/94	5.0	19.2	0.0		267	
	07/19/94	6.0	16.0	0.0		274	
	07/19/94	7.0	14.5	0.0	7.40	286	
	08/30/94	0.5	25.0	8.5	8.30	260	0.57
	08/30/94	1.0	24.5	7.3		258	
	08/30/94	1.5	24.5	6.8		258	
	08/30/94	2.0	24.4	6.4		258	
	08/30/94	2.5	24.4	6.6		258	
	08/30/94	3.0	24.3	5.2		258	
	08/30/94	3.5	23.6	0.1		265	
	08/30/94	4.0	22.9	0.0		267	
	08/30/94	4.5	22.7	0.0		267	
	08/30/94	5.0	21.6	0.0		265	
	08/30/94	5.5	20.5	0.0		262	
	08/30/94	6.0	19.0	0.0		270	
	08/30/94	6.5	17.5	0.0		273	
	08/30/94	7.0	16.0	0.0	7.50	290	
HUFFMAN POND	L-1						
	05/25/94	0.25	20.5	14.2	9.20	495	0.30
	05/25/94	0.75	20.0	14.2	8.49	495	
	05/25/94	1.0	19.0	10.0	8.16	495	
	05/25/94	1.25	14.0	1.0	8.01	490	
	08/09/94	0.25	23.2	8.9	7.85	503	0.23
	08/09/94	0.5	22.8	8.6	7.75	500	
	08/09/94	0.75	23.3	10.4	7.91	500	
	08/09/94	1.0	23.3	7.7	7.74	503	
	08/09/94	1.25	22.8	6.1	7.60	503	
	09/13/94	0.25	23.0	17.4	8.85	450	0.46
	09/13/94	0.5	22.9	16.2	8.85	495	
	09/13/94	0.75	22.3	16.3	8.85	495	
	09/13/94	1.0	22.2	15.2	8.65	495	
LAKE LORETTA	L-1						
	05/16/95	0.5	19.2	9.7	7.61	64	1.00
	05/16/95	1.0	18.2	10.4	8.26	64	
	05/16/95	2.0	14.2	11.0	7.55	60	
	05/16/95	3.0	11.5	11.8	7.46	58	
	05/16/95	4.0	9.1	2.6	6.18	56	
	05/16/95	5.0	10.0	2.1	6.10	55	
	05/16/95	6.0	7.2	0.9	6.51	52	
	05/16/95	7.0	6.5	0.7	6.48	62	
	10/24/95	0.5	13.0	8.1	6.92	660	1.25
	10/24/95	1.0	13.0	7.9	7.08	660	
	10/24/95	1.5	13.0	7.9	7.14	660	
	10/24/95	2.0	13.0	8.1	7.16	660	
	10/24/95	2.5	13.0	8.2	7.16	660	
	10/24/95	3.0	13.0	8.3	7.13	660	
	10/24/95	3.5	12.2	6.7	6.80	680	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
LAKE ROMONA	L-1						
	05/16/95	0.5	15.0	10.4	6.96	40	0.70
	05/16/95	1.0	14.1	11.0	6.91	40	
	05/16/95	1.5	13.6	10.8	6.64	40	
	05/16/95	2.0	13.0	10.0	6.39	40	
	05/16/95	2.5	11.9	10.2	6.38	38	
	05/16/95	3.0	11.0	8.5	6.12	38	
	05/16/95	3.5	10.5	7.5	5.97	38	
	05/16/95	4.0	10.0	2.6	5.72	38	
	09/15/95	0.5	19.7	8.0	6.53	350	1.00
	09/15/95	1.0	19.0	8.1	6.81	350	
	09/15/95	1.5	20.0	7.9	6.73	406	
	09/15/95	2.0	19.5	6.2	6.59	400	
	09/15/95	2.5	19.6	5.3	6.44	400	
	09/15/95	3.0	19.5	4.3	6.32	420	
	09/15/95	3.5	19.3	3.8	6.18	450	
	09/15/95	4.0	17.0	0.6	6.45	800	
	10/24/95	0.5	11.8	8.0	8.42	410	1.50
	10/24/95	1.0	11.8	7.1	8.05	340	
	10/24/95	1.5	11.5	6.8	7.81	340	
	10/24/95	2.0	11.3	6.5	7.58	330	
	10/24/95	2.5	11.0	6.3	7.27	330	
	10/24/95	3.0	11.0	6.2	7.04	330	
	10/24/95	3.5	11.0	6.0	6.87	330	
LAKE RUPERT	L-1						
	05/10/95	0.5	14.7	13.0	7.30	130	1.34
	05/10/95	1.0	14.5	13.0	7.33	130	
	05/10/95	2.0	14.4	12.9	7.33	130	
	05/10/95	3.0	13.7	10.9	7.32	130	
	05/10/95	4.0	13.4	10.2	7.36	130	
	05/10/95	5.0	13.1	8.4	7.37	130	
	05/10/95	6.0	12.9	7.3	7.45	130	
	05/10/95	7.0	13.0	6.4	7.54	132	
	05/24/93	0.5	17.9	8.5	7.22	119	1.15
	05/24/93	1.0	17.8	8.4	7.17	119	
	05/24/93	2.0	17.4	7.8	7.12	119	
	05/24/93	3.0	16.8	6.6	7.06	115	
	05/24/93	4.0	15.3	4.0	7.05	110	
	08/22/95	0.5	29.1	9.0	8.76	179	0.83
	08/22/95	1.0	29.0	8.9	8.74	179	
	08/22/95	2.0	28.8	8.5	8.62	179	
	08/22/95	3.0	24.2	0.2	7.13	190	
	08/22/95	4.0	19.9	0.2	7.41	246	
	08/22/95	5.0	16.8	0.2	7.40	260	
	08/22/95	6.0	15.4	0.3	7.29	270	
	08/22/95	6.5	14.8	0.5	7.22	278	
	09/12/95	0.5	22.9	6.7	6.98	167	
	09/12/95	1.0	22.9	6.5	6.94	167	
	09/12/95	2.0	22.4	5.0	6.84	172	
	09/12/95	3.0	22.3	4.6	6.93	174	
	09/12/95	4.0	21.0	2.2	7.17	197	
	09/12/95	5.0	17.0	0.2	7.49	252	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	09/12/95	6.0	14.9	0.2	7.06	277	
	09/12/95	7.0	14.3	0.2	6.80	291	
LAKE SNOWDEN	L-1						
	05/08/95	0.5	15.7	8.3	8.16	148	1.65
	05/08/95	1.0	15.0	8.2	8.07	145	
	05/08/95	2.0	14.6	8.0	7.85	145	
	05/08/95	3.0	14.1	7.3	7.70	140	
	05/08/95	4.0	13.7	6.7	7.72	140	
	05/08/95	5.0	13.0	5.3	7.67	140	
	05/08/95	6.0	12.4	3.9	7.60	138	
	05/08/95	7.0	11.8	2.7	7.64	138	
	05/08/95	8.0	11.4	2.4	7.62	138	
	05/08/95	9.0	11.0	1.7	7.64	135	
	05/08/95	10.0	10.9	1.4	7.60	138	
	05/08/95	11.0	10.7	1.3	7.60	138	
	05/08/95	11.5	10.5	0.9	7.60	138	
	08/21/95	0.5	29.7	8.0	8.53	211	1.94
	08/21/95	1.0	29.6	8.1	8.53	211	
	08/21/95	2.0	29.5	7.9	8.48	211	
	08/21/95	3.0	27.6	5.7	7.37	209	
	08/21/95	4.0	25.4	1.8	6.99	206	
	08/21/95	5.0	20.8	0.1	6.94	230	
	08/21/95	6.0	16.6	0.1	7.20	267	
	08/21/95	7.0	13.5	0.1	7.11	272	
	08/21/95	8.0	12.4	0.1	7.02	276	
	08/21/95	9.0	12.1	0.2	6.98	278	
	08/21/95	10.0	11.9	0.2	6.94	280	
	08/21/95	10.5	11.7	0.2	6.95	280	
	09/11/95	0.5	23.5	7.1	7.25	193	1.50
	09/11/95	1.0	23.5	7.1	7.22	193	
	09/11/95	2.0	23.5	6.9	7.21	193	
	09/11/95	3.0	23.4	6.9	7.20	192	
	09/11/95	4.0	23.4	7.0	7.16	193	
	09/11/95	5.0	21.6	0.3	6.75	200	
	09/11/95	6.0	15.6	0.2	7.01	250	
	09/11/95	7.0	13.5	0.2	6.85	251	
	09/11/95	8.0	12.3	0.2	6.67	252	
	09/11/95	9.0	11.9	0.2	6.60	253	
	09/11/95	10.0	11.6	0.2	6.56	255	
	09/11/95	10.5	11.6	0.2	6.56	255	
LAMPSON RESERVOIR	L-1						
	05/22/95	0.1	20.0	8.6		123	0.99
	05/22/95	0.3	19.9	8.5	7.10	124	
	05/22/95	0.6	19.8	8.7		123	
	05/22/95	0.9	19.5	8.8		123	
	05/22/95	1.2	19.5	8.8		123	
	05/22/95	1.5	19.4	8.7		122	
	05/22/95	1.8	19.2	8.6		122	
	05/22/95	2.1	19.0	8.5		120	
	05/22/95	2.4	15.4	1.0	7.30	113	
	05/22/95	2.7	15.5	1.8		113	
	08/01/95	0.1	29.5	12.0		178	0.64

Lake		Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
		08/01/95	0.3	29.5	12.2		173	
		08/01/95	0.6	29.1	12.6		173	
		08/01/95	0.9	28.5	12.0		165	
		08/01/95	1.2	28.0	11.0		165	
		08/01/95	1.5	26.0	3.8		163	
		08/01/95	1.8	25.0	0.5		160	
		08/01/95	2.1	24.5	0.5	9.40	155	
		08/01/95	2.4	24.0	0.5		153	
		08/24/95	0.1	26.4	10.2		159	0.41
		08/24/95	0.3	26.4	10.2	10.00	158	
		08/24/95	0.6	26.4	10.5		158	
		08/24/95	0.9	26.4	10.6		158	
		08/24/95	1.2	26.4	10.8		157	
		08/24/95	1.5	26.4	10.6		157	
		08/24/95	1.8	26.3	10.7		155	
		08/24/95	2.1	26.0	9.6	10.10	151	
		08/24/95	2.4	24.2	0.4		175	
LONG LAKE	L-1							
		06/02/93	0.5	18.8	10.5	8.40	770	0.87
		06/02/93	1.0	18.1	10.7		770	
		06/02/93	2.0	18.1	9.9		720	
		06/02/93	3.0	17.9	8.6		720	
		06/02/93	4.0	17.1	7.0		720	
		06/02/93	5.0	14.8	1.5		690	
		06/02/93	6.0	12.0	0.0		690	
		06/02/93	7.0	8.0	0.0		708	
		08/26/93	0.5	26.0	11.9	8.70	620	0.85
		08/26/93	1.0	25.7	11.3		620	
		08/26/93	2.0	25.7	10.0		620	
		08/26/93	3.0	24.3	4.2		640	
		08/26/93	4.0	24.0	0.6		640	
		08/26/93	5.0	22.9	0.0		640	
		08/26/93	6.0	18.0	0.0		640	
		08/26/93	7.0	12.9	0.0		680	
		08/26/93	8.0	10.2	0.0		700	
		08/26/93	9.0	8.2	0.0		700	
		08/26/93	10.0	8.0	0.0		700	
		08/26/93	11.0	7.3	0.0		710	
		08/26/93	12.0	7.0	0.0		730	
		08/26/93	13.0	7.0	0.0		780	
		08/26/93	14.0	7.0	0.0		790	
		08/26/93	15.0	7.0	0.0		790	
		08/26/93	16.0	7.0	0.0	7.90	790	
		09/08/93	0.5	23.0	9.6	8.20	600	0.79
		09/08/93	1.0	22.9	9.4		600	
		09/08/93	2.0	22.5	7.5		598	
		09/08/93	3.0	22.3	7.5		600	
		09/08/93	4.0	22.2	6.9		600	
		09/08/93	5.0	21.0	0.0		625	
		09/08/93	6.0	14.0	0.0		650	
		09/08/93	7.0	10.0	0.0		690	
		09/08/93	8.0	8.9	0.0		700	

Lake		Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
		09/08/93	9.0	8.0	0.0		625	
		09/08/93	10.0	7.5	0.0		700	
		09/08/93	11.0	7.3	0.0		700	
		09/08/93	12.0	7.3	0.0	7.40	700	
LONG LAKE	L-2							
		06/02/93	0.5	18.2	10.4	8.40	720	0.92
		06/02/93	1.0	18.2	10.4		732	
		06/02/93	1.5	18.0	10.2		720	
		06/02/93	2.0	18.0	9.9		720	
		06/02/93	2.5	18.0	9.9		720	
		06/02/93	3.0	17.9	10.1		720	
		06/02/93	3.5	17.8	9.1		720	
		06/02/93	4.0	17.5	8.0		720	
		06/02/93	4.5	16.5	4.4		590	
		06/02/93	5.0	14.9	1.3	7.70	690	
		08/26/93	0.5	26.0	10.1	8.70	651	0.77
		08/26/93	1.0	25.8	10.1		651	
		08/26/93	1.5	25.5	9.5		651	
		08/26/93	2.0	25.5	9.2		651	
		08/26/93	2.5	25.5	6.5		651	
		08/26/93	3.0	25.5	0.8	8.40	630	
		09/08/93	0.5	23.0	9.5	8.30	630	0.69
		09/08/93	1.0	22.5	9.0		630	
		09/08/93	1.5	22.5	8.4		630	
		09/08/93	2.0	22.5	7.9		630	
		09/08/93	2.5	22.5	8.1		628	
		09/08/93	3.0	22.1	8.0		628	
		09/08/93	3.5	22.0	3.8		630	
		09/08/93	4.0	22.0	3.3		628	
		09/08/93	4.5	22.0	1.2	8.00	630	
MAPLE GROVE LAKE	L-1							
		05/11/94	0.5	13.9	9.2	8.29	405	0.45
		05/11/94	1.0	13.2	9.2	8.30	409	
		07/28/94	0.5	22.5	6.2	8.01	500	0.85
		07/28/94	1.0	22.4	5.9	7.99	500	
		07/28/94	1.5	22.4	3.4	7.80	510	
		09/07/94	0.5	18.2	6.4	8.07	440	0.75
		09/07/94	1.0	18.0	5.6	7.96	440	
		09/07/94	1.5	18.0	4.5	7.78	438	
		09/07/94	1.9	18.0	4.6	7.55	445	
MAYSVILLE REG. WATER DIST. LAKE	L-1							
		04/28/94	0.5	18.3	13.2	8.36	370	4.09
		04/28/94	1.0	18.3	13.4	8.29	370	
		04/28/94	2.0	17.0	14.6	8.18	360	
		04/28/94	3.0	15.2	14.8	8.01	348	
		04/28/94	4.0	13.5	13.8	7.80	340	
		04/28/94	5.0	11.5	11.2	7.56	338	
		04/28/94	6.0	9.8	9.5	7.46	340	
		04/28/94	7.0	8.5	5.4	7.46	340	
		04/28/94	8.5	7.5	1.6	7.68	390	
		08/09/94	0.5	25.6	8.5	8.66	390	2.42
		08/09/94	1.0	25.6	8.5	8.66	390	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	08/09/94	2.0	25.5	8.5	8.62	394	
	08/09/94	3.0	25.5	8.5	8.58	395	
	08/09/94	4.0	24.8	7.2	8.19	400	
	08/09/94	5.0	22.8	8.2	7.81	485	
	08/09/94	6.0	18.3	6.5	7.77	470	
	08/09/94	7.0	14.8	3.0	7.80	468	
	08/09/94	8.0	12.6	0.4	7.69	480	
	08/30/94	0.5	25.3	8.3	8.67	400	4.97
	08/30/94	1.0	25.3	8.8	8.64	400	
	08/30/94	2.0	25.3	8.8	8.60	400	
	08/30/94	3.0	25.3	8.8	8.46	400	
	08/30/94	4.0	24.8	6.6	7.84	400	
	08/30/94	5.0	23.2	6.6	7.74	500	
	08/30/94	6.0	18.8	4.0	7.25	500	
	08/30/94	7.5	14.4	0.3	7.17	520	
MEANDER CREEK RESERVOIR	L-1						
	05/25/94	0.5	17.8	10.2	7.00	310	1.14
	05/25/94	1.0	17.8	10.0		303	
	05/25/94	2.0	17.8	9.7		303	
	05/25/94	3.0	17.8	9.7		299	
	05/25/94	4.0	14.9	10.3		284	
	05/25/94	5.0	12.8	7.7		274	
	05/25/94	6.0	12.4	7.7		271	
	05/25/94	6.5	12.2	6.7	7.10	271	
	07/20/94	0.5	29.5	9.0	8.40		1.29
	07/20/94	1.0	29.5	9.5			
	07/20/94	2.0	28.5	8.7			
	07/20/94	3.0	27.0	6.2			
	07/20/94	4.0	26.0	1.7			
	07/20/94	5.0	21.0	0.2			
	07/20/94	6.0	17.5	0.2			
	07/20/94	7.0	15.0	0.2			
	07/20/94	7.5	14.5	0.2			
	08/23/94	0.5	24.4	7.6	7.50	350	1.23
	08/23/94	1.0	23.7	7.8		348	
	08/23/94	2.0	23.5	7.8		342	
	08/23/94	3.0	23.5	7.5		340	
	08/23/94	4.0	23.4	7.4		340	
	08/23/94	5.0	23.0	7.0		342	
	08/23/94	6.0	22.0	1.4		342	
	08/23/94	7.0	18.5	0.0		320	
	08/23/94	8.0	14.5	0.0		285	
MICHAEL J. KIRWIN RESERVOIR	L-1						
	05/17/94	0.5	12.5	8.2	7.00	252	0.80
	05/17/94	1.0	12.7	8.2		252	
	05/17/94	2.0	12.7	8.2		252	
	05/17/94	3.0	12.7	8.2		252	
	05/17/94	4.0	12.7	8.2		252	
	05/17/94	5.0	12.7	8.2		252	
	05/17/94	6.0	12.7	8.0		252	
	05/17/94	7.0	12.7	5.0	7.20	252	
	07/18/94	0.5	27.0	7.8	7.10	357	0.68

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	07/18/94	1.0	26.7	8.2		362	
	07/18/94	2.0	26.5	8.2		358	
	07/18/94	3.0	26.4	7.8		363	
	07/18/94	4.0	26.4	7.8		357	
	07/18/94	5.0	23.5	3.7		346	
	07/18/94	6.0	21.0	1.9		336	
	07/18/94	7.0	20.0	0.7	6.80	325	
	08/24/94	0.5	23.7	9.3	7.20	336	1.79
	08/24/94	1.0	23.7	9.3		336	
	08/24/94	2.0	23.5	9.1		336	
	08/24/94	3.0	23.5	8.8		336	
	08/24/94	4.0	23.4	8.2		338	
	08/24/94	5.0	23.0	6.1		338	
	08/24/94	6.0	22.5	3.6		338	
	08/24/94	7.0	21.5	1.2		330	
	08/24/94	8.0	19.6	0.0		325	
	08/24/94	9.0	15.6	0.0		294	
	08/24/94	10.0	14.7	0.0		285	
	08/24/94	11.0	13.7	0.0		281	
	08/24/94	12.0	13.2	0.0		280	
	08/24/94	13.0	12.5	0.0		280	
	08/24/94	14.0	12.5	0.0	7.10	280	
MT. GILEAD LAKE	L-1						
	05/03/94	0.5	12.4	11.7	8.74	352	0.60
	05/03/94	1.0	12.4	11.8	8.79	361	
	05/03/94	1.5	12.1	10.7	8.76	360	
	05/03/94	2.0	12.1	11.0	8.71	362	
	05/03/94	2.5	11.9	10.0	8.61	359	
	05/03/94	3.0	11.3	8.2	8.23	360	
	05/11/94	0.5	22.1	8.6	8.15	252	0.70
	05/11/94	1.0	22.1	8.6	8.13	251	
	05/11/94	2.0	20.3	7.0	7.73	248	
	05/11/94	3.0	17.2	2.3	7.27	242	
	05/11/94	4.0	16.2	0.3	7.07	253	
	05/11/94	4.5	16.0	0.2	6.74	271	
	07/28/94	0.5	24.9	6.5	8.52	400	0.70
	07/28/94	1.0	25.0	6.0	8.43	400	
	07/28/94	1.5	24.9	6.1	8.44	400	
	07/28/94	2.0	24.9	6.1	8.44	400	
	07/28/94	2.5	24.9	4.8	8.22	400	
	09/07/94	0.5	21.4	7.0	8.57	415	0.60
	09/07/94	1.0	21.1	7.0	8.54	417	
	09/07/94	1.5	20.9	5.7	8.32	410	
	09/07/94	2.0	20.4	5.2	8.30	410	
	09/07/94	2.5	20.2	4.4	8.15	410	
	09/07/94	3.0	20.2	3.5	7.81	410	
NEW CONCORD RESERVOIR	L-1						
	04/26/94	0.5	18.3	15.0	7.99	238	3.60
	04/26/94	1.0	17.0	10.8	7.86	232	
	04/26/94	2.0	15.7	10.6	7.75	245	
	04/26/94	3.0	12.4	12.5	7.74	220	
	04/26/94	4.0	11.0	12.0	7.65	205	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	04/26/94	5.0	9.2	7.2	7.48	210	
	04/26/94	6.0	8.6	5.4	7.64	224	
	04/26/94	7.0	8.1	2.8	7.60	218	
	04/26/94	8.0	7.7	3.0	7.32	225	
	08/09/94	0.5	23.6	10.0	9.32	240	2.48
	08/09/94	1.0	25.4	10.0	9.29	240	
	08/09/94	2.0	24.8	9.9	9.30	238	
	08/09/94	3.0	24.6	8.4	8.91	240	
	08/09/94	4.0	22.4	5.6	7.80	248	
	08/09/94	5.0	22.1	0.4	7.49	260	
	08/09/94	6.0	17.1	0.0	7.38	250	
	08/09/94	7.0	13.5	0.0	7.36	230	
	08/09/94	8.0	11.4	0.0	7.25	230	
	08/09/94	8.25	10.8	0.0	7.22	230	
	08/30/94	0.5	25.3	10.7	9.25	215	1.30
	08/30/94	1.0	25.2	10.2	9.16	210	
	08/30/94	2.0	25.0	9.9	9.03	215	
	08/30/94	3.0	24.0	2.6	7.61	230	
	08/30/94	4.0	23.6	0.2	7.53	230	
	08/30/94	5.0	22.8	0.2	7.46	228	
NEW LEXINGTON RESERVOIR #1	L-1						
	05/09/95	0.5	15.5	10.0	8.02	215	1.39
	05/09/95	1.0	15.5	10.0	7.88	210	
	05/09/95	2.0	14.3	10.0	7.63	210	
	05/09/95	3.0	13.1	8.8	7.53	200	
	05/09/95	4.0	12.3	7.0	7.47	195	
	05/09/95	5.0	10.8	5.3	7.42	190	
	05/09/95	6.0	9.9	5.4	7.44	185	
	05/09/95	7.0	8.7	4.4	7.44	180	
	05/09/95	8.0	8.2	2.2	7.47	180	
	05/09/95	9.0	8.1	0.6	7.62	185	
	08/21/95	0.5	30.2	7.6	7.88	258	2.80
	08/21/95	1.0	30.1	7.5	7.87	258	
	08/21/95	2.0	29.7	7.5	7.77	258	
	08/21/95	3.0	27.9	7.2	7.35	255	
	08/21/95	4.0	25.6	2.0	6.79	258	
	08/21/95	5.0	21.5	0.1	6.81	295	
	08/21/95	6.0	17.8	0.2	6.70	309	
	08/21/95	7.0	15.3	0.3	6.78	326	
	08/21/95	8.0	13.5	0.3	6.89	339	
	08/21/95	9.0	11.7	0.3	6.91	360	
	09/11/95	0.5	24.3	7.2	7.10	239	1.59
	09/11/95	1.0	23.7	7.2	7.10	239	
	09/11/95	2.0	22.7	7.4	7.06	241	
	09/11/95	3.0	22.3	6.1	6.87	241	
	09/11/95	4.0	22.2	5.8	6.82	242	
	09/11/95	5.0	21.9	5.8	6.75	241	
	09/11/95	6.0	19.8	0.2	6.37	272	
	09/11/95	7.0	15.0	0.2	6.41	288	
	09/11/95	8.0	11.5	0.3	6.63	319	
	09/11/95	9.0	9.7	0.3	6.61	351	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
NIMISILA RESERVOIR	L-2						
	05/25/93	0.5	16.2	7.9	7.90	504	0.71
	05/25/93	1.0	16.2	7.7		504	
	05/25/93	1.5	16.6	7.6		504	
	05/25/93	2.0	16.6	7.8		504	
	05/25/93	2.5	16.6	7.7		504	
	05/25/93	3.0	16.2	7.7		504	
	05/25/93	3.5	16.2	7.7		504	
	05/25/93	4.0	17.0	7.7		504	
	05/25/93	4.5	16.2	7.7		504	
	05/25/93	5.0	16.2	7.0	8.10	504	
	08/17/93	0.5	26.5	9.8	8.50	477	1.15
	08/17/93	1.0	26.5	9.8		477	
	08/17/93	1.5	26.0	10.0		483	
	08/17/93	2.0	26.0	9.2		488	
	08/17/93	2.5	25.0	8.1		488	
	08/17/93	3.0	24.0	4.5		488	
	08/17/93	3.5	23.5	0.0		488	
	08/17/93	4.0	22.5	0.0		493	
	08/17/93	4.5	20.0	0.0		504	
	08/17/93	5.0	18.0	0.0		498	
	08/17/93	5.5	18.0	0.0	7.30	674	
	09/08/93	0.5	23.5	7.8	8.20		1.06
	09/08/93	1.0	23.5	7.9			
	09/08/93	2.0	23.3	7.6			
	09/08/93	3.0	23.0	6.0			
	09/08/93	4.0	22.8	5.0			
	09/08/93	5.0	22.5	4.4			
	09/08/93	6.0	21.1	0.0			
	09/08/93	7.0	21.0	0.0	7.80		
NORTH BALTIMORE RESERVOIR	L-1						
	05/09/94	0.5	14.0	9.8	8.30	490	1.00
	05/09/94	1.0	13.8	9.4	8.40	490	
	05/09/94	2.0	13.4	9.2	3.36	480	
	05/09/94	3.0	12.9	8.4	8.25	480	
	05/09/94	4.0	12.8	7.4	8.12	480	
	05/09/94	4.5	12.7	6.9	7.99	480	
	05/09/94	5.0	12.6	6.4	8.02	480	
	07/25/94	0.5	25.8	8.2	8.64	550	0.70
	07/25/94	1.0	25.6	8.2	8.74	550	
	07/25/94	2.0	25.5	8.0	8.72	550	
	07/25/94	3.0	25.4	6.8	8.55	550	
	07/25/94	4.0	23.7	1.0	7.75	600	
	07/25/94	4.75	22.1	0.2	7.51	600	
	07/25/94	5.0	20.9	0.2	7.54	600	
	08/22/94	0.5	22.7	6.4	8.31	500	0.80
	08/22/94	1.0	22.7	6.6	8.33	500	
	08/22/94	2.0	22.6	5.3	8.14	500	
	08/22/94	3.0	22.6	5.0	8.07	500	
	08/22/94	4.0	22.6	5.0	8.07	500	
	08/22/94	4.75	22.2	2.5	7.53	500	
	08/22/94	5.0	21.8	1.2	7.37	500	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
NORTH RESERVOIR	L-1						
	06/02/93	0.5	20.0	8.0	8.00	600	0.81
	06/02/93	1.0	19.5	7.6		600	
	06/02/93	1.5	18.9	7.1		600	
	06/02/93	2.0	18.4	5.7	7.90	600	
	08/26/93	0.5	26.9	11.4	8.70	551	0.38
	08/26/93	1.0	26.0	6.6		551	
	08/26/93	1.5	26.0	6.6		551	
	08/26/93	2.0	26.0	6.1		577	
	08/26/93	2.5	26.0	5.8		603	
	08/26/93	3.0	25.8	2.0	8.2	624	
O'SHAUGHNESSY RESERVOIR	L-1						
	05/15/95	0.5	17.2	7.4	8.12	410	0.25
	05/15/95	1.0	16.8	7.2	8.46	410	
	05/15/95	2.0	16.2	7.1	8.39	408	
	05/15/95	3.0	16.0	7.1	8.34	408	
	05/15/95	4.0	16.1	7.1	8.43	410	
	05/15/95	5.0	16.0	7.2	8.37	410	
	05/15/95	6.0	15.9	7.0	8.37	410	
	05/15/95	7.0	15.0	6.5	8.19	389	
	05/15/95	8.0	14.1	6.0	8.22	410	
	05/15/95	9.0	13.1	5.2	8.27	440	
	05/15/95	10.0	11.8	6.0	8.57	490	
	05/15/95	11.0	11.3	5.6	8.59	600	
	05/15/95	12.0	11.3	5.3	8.53	600	
	05/15/95	13.0	11.2	4.8	8.51	600	
	05/15/95	14.0	11.2	4.0	8.41	600	
	05/15/95	15.0	11.1	2.5	8.33	600	
	05/15/95	16.0	11.0	1.9	8.26	600	
	05/15/95	17.0	11.0	2.1	8.33	600	
	05/15/95	18.0	11.0	2.1	8.37	600	
	05/15/95	19.0	10.9	2.1	8.35	600	
	05/15/95	20.0	10.9	2.1	8.30	600	
	05/15/95	21.0	10.9	2.3	8.38	600	
	09/14/95	0.5	23.5	3.5	7.58	450	0.60
	09/14/95	1.0	22.9	3.3	7.62	470	
	09/14/95	1.5	22.8	3.2	7.57	470	
	09/14/95	2.0	22.5	3.9	7.58	450	
	09/14/95	2.5	22.3	2.8	7.64	410	
	09/14/95	3.0	22.3	2.4	7.57	490	
	09/14/95	4.0	22.1	2.2	7.55	500	
	09/14/95	5.0	22.0	2.0	7.56	500	
	09/14/95	6.0	22.1	1.2	7.53	450	
	09/14/95	7.0	22.1	1.3	7.52	480	
	09/14/95	8.0	22.0	1.4	7.54	500	
	09/14/95	9.0	22.5	1.4	7.56	500	
	09/14/95	10.0	21.9	0.7	7.53	500	
	09/14/95	11.0	21.5	0.3	7.33	500	
	09/14/95	12.0	21.5	0.3	7.26	450	
	09/14/95	13.0	21.2	0.2	7.24	430	
	09/14/95	14.0	21.2	0.2	7.25	500	
	09/14/95	15.0	20.8	0.2	7.15	450	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	09/14/95	16.0	20.5	0.1	7.05	400	
	10/25/95	0.5	13.1	5.4	7.75	155	0.40
	10/25/95	1.0	13.1	5.3	7.76	250	
	10/25/95	2.0	13.1	5.1	7.66	255	
	10/25/95	3.0	13.1	5.1	7.77	255	
	10/25/95	4.0	13.1	5.0	7.80	260	
	10/25/95	5.0	13.1	5.0	7.80	261	
	10/25/95	6.0	13.0	5.0	7.85	261	
	10/25/95	7.0	13.0	5.0	7.76	267	
	10/25/95	8.0	13.0	5.0	7.76	270	
	10/25/95	9.0	13.0	5.0	7.70	270	
	10/25/95	10.0	13.0	5.0	7.67	230	
	10/25/95	11.0	13.0	5.0	7.72	272	
	10/25/95	12.0	13.0	5.0	7.70	300	
	10/25/95	13.0	13.0	5.0	7.80	395	
	10/25/95	14.0	13.0	4.7	7.60	450	
	10/25/95	15.0	13.0	4.3	7.64	430	
	10/25/95	16.0	13.0	3.8	7.62	400	
OAK THORPE RESERVOIR	L-1						
	06/08/93	0.5	22.0	13.8	9.17	328	0.91
	06/08/93	1.0	21.2	13.8	9.09	320	
	06/08/93	2.0	18.3	7.1	8.15	314	
	06/08/93	3.0	17.1	1.4	7.45	319	
	06/08/93	4.0	14.9	0.5	7.24	319	
	06/08/93	4.5	13.6	0.25	7.15	310	
	08/24/93	0.5	27.9	13.7	9.07	365	0.48
	08/24/93	1.0	27.4	11.3	8.79	365	
	08/24/93	2.0	26.5	5.6	7.92	380	
	08/24/93	3.0	24.5	0.6	7.62	388	
	08/24/93	4.0	23.4	0.6	7.29	410	
	08/24/93	5.0	21.0	0.6	7.16	450	
	09/22/93	0.5	21.8	9.8	8.38	350	0.37
	09/22/93	1.0	21.9	8.8	8.38	350	
	09/22/93	1.5	21.6	9.0	8.34	350	
	09/22/93	2.0	21.2	8.2	8.16	345	
	09/22/93	2.5	20.9	6.5	7.90	345	
	09/22/93	3.0	20.8	4.5	7.65	345	
	09/22/93	3.5	20.8	4.0	7.59	345	
	09/22/93	4.0	20.6	3.1	7.52	350	
	09/22/93	4.5	20.6	2.1	7.42	350	
	09/22/93	5.0	20.5	1.8	7.42	350	
OPOSSUM CREEK POND #1	L-1						
	05/23/95	0.5	22.0	8.6	8.30	380	0.76
	05/23/95	1.0	22.0	8.6	8.05	420	
	05/23/95	1.25	21.5	8.6	8.04	420	
	05/23/95	1.5	21.0	8.6	8.04	420	
	05/23/95	1.75	21.0	8.6	8.04	420	
	05/23/95	2.0	21.0	8.4	8.08	412	
	05/23/95	2.25	20.0	8.2	8.00	420	
	05/23/95	2.5	20.0	8.0	7.99	418	
	05/23/95	2.75	19.0	7.5	7.96	410	
	05/23/95	3.0	18.5	7.5	7.95	410	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	05/23/95	3.25	17.5	6.5	7.88	405	
	05/23/95	3.5	17.0	6.0	7.85	405	
	05/23/95	3.75	16.5	5.6	7.83	400	
	05/23/95	4.0	16.0	4.4	7.81	400	
	05/23/95	4.25	16.0	4.0	7.76	400	
	08/17/95	0.5	31.2	8.2	8.44	500	0.71
	08/17/95	1.0	30.0	10.2	8.58	480	
	08/17/95	1.5	31.2	8.5	8.56	492	
	08/17/95	2.0	30.1	9.8	8.62	480	
	08/17/95	2.5	28.8	8.1	8.45	485	
	08/17/95	3.0	27.9	4.5	8.18	482	
	08/17/95	3.5	27.9	4.1	8.06	480	
	09/27/95	0.5	18.3	7.2	7.45	372	0.91
	09/27/95	1.0	18.3	6.9	7.47	375	
	09/27/95	1.5	18.2	7.0	7.56	375	
	09/27/95	2.0	18.2	6.9	7.58	375	
	09/27/95	2.5	18.2	6.7	7.62	375	
	09/27/95	3.0	18.3	6.7	7.66	377	
	09/27/95	3.5	18.1	6.7	7.70	377	
OPOSSUM CREEK RESERVE LAKE	L-1						
	05/23/95	0.5	23.5	9.0	8.45	260	2.44
	05/23/95	1.0	23.0	9.4	8.56	260	
	05/23/95	1.25	23.0	9.4	8.56	260	
	05/23/95	1.5	23.0	9.4	8.56	260	
	05/23/95	1.75	23.0	9.4	8.55	260	
	05/23/95	2.0	22.5	9.4	8.54	260	
	05/23/95	2.25	22.5	9.4	8.53	260	
	05/23/95	2.5	20.0	8.0	8.32	250	
	08/17/95	0.5	32.7	9.8	9.12	240	2.34
	08/17/95	1.0	32.1	9.8	9.15	235	
	08/17/95	1.5	32.2	9.7	9.12	240	
	08/17/95	2.0	32.3	9.9	9.17	235	
	08/17/95	2.5	31.7	5.8	8.72	255	
	08/17/95	3.0	31.4	6.0	8.69	255	
	08/17/95	3.5	31.7	5.5	8.66	255	
	08/17/95	4.0	31.6	5.2	8.64	255	
	08/17/95	4.5	31.2	5.4	8.57	255	
	08/17/95	5.0	31.8	5.8	8.62	255	
	08/17/95	5.5	31.6	6.0	8.66	255	
	09/27/95	0.5	18.2	10.0	8.76	170	2.59
	09/27/95	1.0	18.2	10.0	8.78	172	
	09/27/95	1.5	18.3	10.0	8.83	172	
	09/27/95	2.0	18.3	9.6	8.86	172	
	09/27/95	2.5	18.7	9.4	8.93	175	
PLEASANT HILL LAKE	L-1						
	05/27/93	0.5	18.2	14.5	8.64	305	0.80
	05/27/93	1.0	17.4	14.2	8.72	300	
	05/27/93	2.0	17.1	11.6	8.48	305	
	05/27/93	3.0	16.9	10.8	8.40	305	
	05/27/93	4.0	16.8	10.7	8.38	300	
	05/27/93	5.0	16.3	9.3	8.18	300	
	05/27/93	6.0	16.2	8.1	8.00	300	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	05/27/93	7.0	15.8	6.8	7.88	300	
	05/27/93	8.0	14.3	3.7	7.58	280	
	05/27/93	9.0	13.3	0.4	7.34	265	
	05/27/93	10.0	12.0	0.2	7.32	250	
	05/27/93	11.0	11.2	0.1	7.30	245	
	08/23/93	0.5	25.6	6.4	8.32	370	0.70
	08/23/93	1.0	25.2	4.8	8.11	365	
	08/23/93	2.0	25.1	4.4	8.02	365	
	08/23/93	3.0	25.0	3.7	7.91	365	
	08/23/93	4.0	24.5	0.2	7.64	370	
	08/23/93	5.0	24.0	0.2	7.61	370	
	08/23/93	6.0	23.6	0.2	7.58	370	
	08/23/93	7.0	22.8	0.2	7.58	370	
	08/23/93	8.0	22.7	0.2	7.62	370	
	08/23/93	9.0	17.9	0.2	7.44	360	
	08/23/93	10.0	16.6	0.2	7.33	360	
	08/23/93	11.0	16.3	0.2	7.28	360	
	09/16/93	0.5	21.0	6.1	8.06	330	0.75
	09/16/93	1.0	21.0	6.5	8.10	340	
	09/16/93	2.0	21.0	6.0	8.03	340	
	09/16/93	3.0	21.0	5.8	7.99	340	
	09/16/93	4.0	20.9	5.2	7.90	340	
	09/16/93	5.0	20.9	4.8	7.85	340	
	09/16/93	6.0	20.9	4.6	7.86	335	
	09/16/93	7.0	20.9	4.8	7.87	335	
PLEASANT HILL LAKE	L-2						
	05/27/93	0.5	17.3	12.0	8.59	310	0.80
	05/27/93	1.0	16.7	12.2	8.46	310	
	05/27/93	1.5	16.4	11.4	8.35	310	
	05/27/93	2.0	16.1	10.1	8.21	310	
	05/27/93	2.5	16.0	9.6	8.12	310	
	05/27/93	3.0	15.6	9.1	7.99	320	
	08/23/93	0.5	25.3	8.1	8.74	370	0.55
	08/23/93	1.0	25.2	7.1	8.63	370	
	08/23/93	1.5	24.9	6.8	8.60	365	
	08/23/93	2.0	24.6	7.2	8.65	365	
	08/23/93	2.5	24.3	6.9	8.57	365	
	08/23/93	3.0	23.8	5.0	8.10	380	
	09/16/93	0.5	21.2	8.1	8.49	340	0.60
	09/16/93	1.0	21.0	7.4	8.35	340	
	09/16/93	1.5	20.5	6.1	8.12	340	
	09/16/93	2.0	20.3	5.9	8.09	340	
	09/16/93	2.5	20.2	6.2	8.12	345	
	09/16/93	3.0	20.2	6.3	8.16	335	
	09/16/93	3.5	20.0	6.7	8.18	330	
RACCOON CREEK RESERVOIR	L-1						
	05/30/95	0.5	18.4	8.5	8.68	290	1.70
	05/30/95	1.0	18.3	8.4	8.66	285	
	05/30/95	2.0	18.2	8.2	8.64	280	
	05/30/95	3.0	17.9	8.1	8.62	280	
	05/30/95	4.0	17.7	8.1	8.61	280	
	05/30/95	5.0	18.2	8.0	8.60	280	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	08/02/95	0.5	28.6	8.7	8.71	330	4.00
	08/02/95	1.0	28.5	8.8	8.76	330	
	08/02/95	2.0	28.3	8.8	8.78	330	
	08/02/95	3.0	28.2	8.8	8.79	330	
	08/02/95	4.0	27.7	9.8	8.82	325	
	08/02/95	4.5	26.0	8.2	8.51	330	
	08/02/95	5.0	24.3	4.9	7.93	335	
	08/17/95	0.5	29.2	9.0	8.91	310	2.60
	08/17/95	1.0	29.3	9.0	8.91	310	
	08/17/95	2.0	29.3	9.1	8.92	310	
	08/17/95	3.0	27.3	14.1	9.05	300	
	08/17/95	4.0	25.9	7.2	8.64	310	
	08/17/95	5.0	25.2	0.4	7.63	320	
	08/17/95	5.5	24.4	0.3	7.46	320	
	08/17/95	6.0	23.8	0.3	7.41	330	
RICHWOOD PARK LAKE	L-1						
	05/15/95	0.5	18.1	8.6	8.77	410	0.60
	05/15/95	1.0	18.1	8.6	8.81	415	
	05/15/95	1.5	18.1	8.6	8.81	410	
	05/15/95	2.0	18.0	8.5	8.75	412	
	05/15/95	2.5	17.2	7.0	8.53	410	
	09/14/95	0.5	22.1	6.5	8.43	400	0.35
	09/14/95	1.0	22.8	8.7	8.71	410	
	09/14/95	1.5	22.1	8.0	8.68	400	
	09/14/95	2.0	21.5	7.2	8.44	350	
	10/23/95	0.5	12.0	8.9	8.51	290	0.50
	10/23/95	1.0	12.0	8.6	8.53	290	
	10/23/95	1.5	12.0	8.6	8.51	290	
	10/23/95	2.0	12.0	8.5	8.52	290	
	10/23/95	2.5	11.9	8.6	8.52	290	
RIO GRANDE RESERVOIR	L-1						
	05/10/95	0.5	18.9	10.4	8.11	98	1.72
	05/10/95	1.0	18.3	10.4	8.00	96	
	05/10/95	2.0	15.5	10.8	7.88	90	
	05/10/95	3.0	13.0	9.3	7.75	80	
	05/10/95	4.0	10.1	8.0	7.77	75	
	05/10/95	5.0	8.6	5.2	7.76	74	
	05/10/95	6.0	8.0	2.4	7.73	70	
	05/10/95	7.0	7.6	0.4	7.87	75	
	08/22/95	0.5	29.5	7.5	7.98	134	3.84
	08/22/95	1.0	29.3	6.8	7.75	134	
	08/22/95	2.0	29.0	6.8	7.77	135	
	08/22/95	3.0	27.2	0.9	6.66	136	
	08/22/95	4.0	20.7	0.2	6.60	148	
	08/22/95	5.0	14.1	0.2	6.70	164	
	08/22/95	6.0	10.3	0.3	6.70	191	
	08/22/95	6.5	10.3	0.3	6.70	192	
	09/12/95	0.5	24.4	7.3	7.17	126	3.07
	09/12/95	1.0	24.4	7.3	7.16	126	
	09/12/95	2.0	24.3	6.9	7.09	125	
	09/12/95	3.0	24.0	6.6	7.00	125	
	09/12/95	4.0	23.1	3.8	6.89	127	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	09/12/95	5.0	14.8	0.2	6.69	155	
	09/12/95	6.0	10.3	0.3	6.78	175	
	09/12/95	7.0	8.5	0.3	6.83	256	
ROAMING ROCK LAKE	L-1						
	05/23/95	0.5	18.3	8.6		185	1.56
	05/23/95	1.0	18.3	8.5	7.40	184	
	05/23/95	2.0	18.2	8.5		184	
	05/23/95	3.0	17.8	8.0		183	
	05/23/95	4.0	16.9	7.4		182	
	05/23/95	5.0	15.3	5.5		180	
	05/23/95	6.0	13.9	5.0		168	
	05/23/95	7.0	12.3	4.9		162	
	05/23/95	8.0	10.3	3.3		152	
	05/23/95	9.0	9.5	2.4	7.10	151	
	05/23/95	10.0	8.8	1.0		150	
	08/01/95	0.5	27.9	7.7		235	1.40
	08/01/95	1.0	27.9	7.6	7.80	235	
	08/01/95	2.0	27.9	7.6		235	
	08/01/95	3.0	27.4	6.5		236	
	08/01/95	4.0	22.6	0.6		216	
	08/01/95	5.0	19.2	0.0		206	
	08/01/95	6.0	14.9	0.0		181	
	08/01/95	7.0	13.4	0.0		178	
	08/01/95	8.0	11.9	0.0		176	
	08/01/95	9.0	10.6	0.0		176	
	08/01/95	10.0	10.3	0.0	7.10	176	
	08/01/95	11.0	10.3	0.0		176	
	08/24/95	0.5	26.6	6.8		225	1.43
	08/24/95	1.0	26.6	6.8	7.70	225	
	08/24/95	2.0	26.6	6.8		225	
	08/24/95	3.0	23.4	0.1		211	
	08/24/95	4.0	17.4	0.0		198	
	08/24/95	5.0	12.6	0.0		181	
	08/24/95	6.0	11.6	0.0		190	
	08/24/95	7.0	11.6	0.0	7.00	185	
	08/24/95	8.0	11.6	0.0		191	
ROCK MILL LAKE	L-1						
	06/09/93	0.5	23.1	13.2	8.61	410	1.22
	06/09/93	1.0	21.2	13.0	8.35	418	
	06/09/93	2.0	17.0	7.2	7.78	400	
	06/09/93	3.0	14.8	2.1	7.44	389	
	06/09/93	4.0	12.0	0.5	7.28	350	
	08/26/93	0.5	28.1	7.6	8.05	428	0.96
	08/26/93	1.0	27.2	5.6	7.74	428	
	08/26/93	2.0	25.5	1.9	7.35	430	
	08/26/93	3.0	24.1	1.7	7.24	445	
	08/26/93	4.0	24.9	1.3	7.28	460	
	09/21/93	0.5	21.4	7.8	7.88	385	1.15
	09/21/93	1.0	21.3	7.8	7.90	385	
	09/21/93	1.5	21.1	6.6	7.75	380	
	09/21/93	2.0	20.8	5.7	7.62	380	
	09/21/93	2.5	20.2	3.1	7.41	380	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	09/21/93	3.0	20.0	2.5	7.38	380	
	09/21/93	3.5	19.6	1.9	7.38	385	
SALT FORK RESERVOIR	L-1						
	04/25/94	0.5	13.2	9.8	7.62	170	1.31
	04/25/94	1.0	12.9	9.8	7.59	170	
	04/25/94	2.0	12.6	9.5	7.62	170	
	04/25/94	3.0	12.4	9.4	7.48	170	
	04/25/94	4.0	12.3	9.3	7.58	170	
	04/25/94	5.0	12.1	9.1	7.63	175	
	04/25/94	6.0	11.1	8.1	7.62	180	
	04/25/94	7.0	10.9	7.9	7.77	180	
	04/25/94	8.0	10.4	7.0	7.72	178	
	04/25/94	9.0	10.2	6.6	7.72	178	
	04/25/94	10.0	10.2	6.6	7.70	175	
	08/08/94	0.5	26.3	8.4	8.25	248	1.12
	08/08/94	1.0	25.2	8.7	8.04	242	
	08/08/94	2.0	24.7	7.8	7.80	240	
	08/08/94	3.0	24.5	6.8	7.65	240	
	08/08/94	4.0	24.2	5.2	7.50	240	
	08/08/94	5.0	23.3	2.2	7.34	235	
	08/08/94	6.0	19.5	0.4	7.32	230	
	08/08/94	7.0	16.9	0.4	7.33	215	
	08/08/94	8.0	15.6	0.0	7.34	211	
	08/08/94	9.0	15.2	0.0	7.29	210	
	08/08/94	10.0	15.1	0.0	7.39	210	
	08/08/94	11.0	14.9	0.0	7.54	200	
	08/29/94	0.5	25.6	7.8	7.79	254	1.26
	08/29/94	1.0	25.2	7.5	7.72	250	
	08/29/94	2.0	24.9	6.7	7.69	250	
	08/29/94	3.0	24.8	6.4	7.67	250	
	08/29/94	4.0	24.6	6.3	7.65	250	
	08/29/94	5.0	24.5	5.7	7.68	248	
	08/29/94	6.0	22.0	0.4	7.38	255	
	08/29/94	7.0	18.4	0.4	6.93	240	
	08/29/94	8.0	16.0	0.4	6.99	128	
	08/29/94	9.0	15.6	0.4	7.03	225	
	08/29/94	10.0	15.4	0.3	7.10	215	
SALT FORK RESERVOIR	L-2						
	04/25/94	0.5	16.4	11.0	8.03	255	0.80
	04/25/94	1.0	16.2	11.0	7.80	255	
	04/25/94	2.0	15.3	9.8	7.54	250	
	08/08/94	0.5	25.4	5.8	7.72	360	1.34
	08/08/94	1.0	24.9	5.4	7.70	352	
	08/08/94	2.0	24.4	4.1	7.59	354	
	08/08/94	2.5	24.3	3.0	7.55	355	
	08/29/94	0.5	27.0	10.0	8.65	370	0.57
	08/29/94	1.0	26.8	10.0	8.59	370	
	08/29/94	1.5	25.7	9.9	8.38	370	
SEBALD POND #1	L-1						
	05/23/95	0.5	21.5	9.2	7.91	265	0.30
	05/23/95	1.0	20.0	4.8	7.89	250	
	05/23/95	1.5	19.0	2.3	7.50	250	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	05/23/95	2.0	17.0	0.2	7.44	245	
	05/23/95	2.25	19.5	4.4	7.33	250	
	05/23/95	2.75	17.8	1.2	7.46	245	
	08/15/95	0.5	31.0	13.0	9.52	260	0.38
	08/15/95	1.0	30.0	9.5	9.03	260	
	08/15/95	1.5	29.0	3.4	8.33	270	
	08/15/95	2.0	26.5	1.4	7.83	270	
	09/26/95	0.5	18.4	5.8	7.53	315	0.17
	09/26/95	1.0	15.2	3.3	7.45	295	
SHELBY RESERVOIR #1	L-1						
	05/25/93	0.5	16.1	8.8	8.40	405	2.60
	05/25/93	1.0	16.1	8.8	8.41	405	
	05/25/93	2.0	16.1	8.7	8.40	405	
	05/25/93	3.0	16.1	8.8	8.41	405	
	05/25/93	3.5	15.5	7.2	7.99	405	
	05/25/93	4.0	12.6	0.5	7.73	400	
	08/26/93	0.5	26.6	13.0	8.97	450	1.05
	08/26/93	1.0	26.4	13.0	8.98	440	
	08/26/93	1.5	26.4	12.8	8.97	440	
	08/26/93	2.0	26.3	12.6	8.94	440	
	08/26/93	2.5	25.6	13.2	8.88	440	
	08/26/93	3.0	24.9	8.6	8.41	460	
	08/26/93	3.5	24.1	1.2	7.72	480	
	08/26/93	4.0	22.6	0.2	7.47	500	
	09/13/93	0.5	20.6	9.2	8.57	415	0.60
	09/13/93	1.0	20.6	9.3	8.67	415	
	09/13/93	1.5	20.6	9.3	8.69	415	
	09/13/93	2.0	20.6	9.2	8.68	415	
	09/13/93	2.5	20.6	9.2	8.68	415	
	09/13/93	3.0	20.5	9.1	8.68	415	
	09/13/93	3.5	20.5	9.1	8.69	415	
	09/13/93	4.0	20.5	9.1	8.68	415	
SHELBY RESERVOIR #2	L-1						
	05/25/93	0.5	15.5	9.5	8.54	440	3.40
	05/25/93	1.0	15.5	9.4	8.55	440	
	05/25/93	2.0	15.5	9.4	8.57	440	
	05/25/93	3.0	15.5	9.4	8.57	440	
	05/25/93	4.0	15.5	9.4	8.57	440	
	05/25/93	5.0	15.5	9.4	8.56	440	
	05/25/93	6.0	12.4	9.1	8.32	410	
	05/25/93	7.0	10.1	5.3	7.98	390	
	08/26/93	0.5	26.4	10.2	8.79	485	2.80
	08/26/93	1.0	26.2	9.8	8.79	490	
	08/26/93	1.5	26.1	9.8	8.77	490	
	08/26/93	2.0	26.0	9.8	8.73	500	
	08/26/93	2.5	25.9	9.8	8.70	500	
	08/26/93	3.0	25.8	10.0	8.69	500	
	08/26/93	3.5	25.7	9.9	8.74	500	
	08/26/93	4.0	25.3	9.8	8.62	500	
	09/13/93	0.5	21.5	8.4	8.54	430	1.40
	09/13/93	1.0	20.2	8.4	8.32	430	
	09/13/93	1.5	20.2	8.4	8.38	430	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	09/13/93	2.0	20.1	8.4	8.41	430	
	09/13/93	2.5	20.1	8.4	8.45	430	
	09/13/93	3.0	20.1	8.4	8.48	430	
	09/13/93	3.5	20.1	8.5	8.51	430	
STAGE'S POND	L-1						
	06/16/93	0.5	25.9	6.5	8.02	375	
	06/16/93	1.0	23.5	4.9	7.84	377	
	06/16/93	1.5	23.5	3.4	7.68	380	
	06/16/93	2.0	23.0	0.5	7.46	380	
	08/24/93	0.5	26.6	8.0	8.47	330	0.35
	08/24/93	1.0	26.9	8.6	8.27	330	
	08/24/93	2.0	26.5	0.4	7.38	340	
	09/21/93	0.5	21.6	8.2	7.99	300	0.32
	09/21/93	1.0	21.6	8.3	8.01	300	
	09/21/93	1.5	21.6	8.0	8.40	300	
SUNNY LAKE	L-1						
	05/15/95	0.3	17.4	8.0		474	0.40
	05/15/95	0.6	17.4	8.0	7.80	468	
	05/15/95	0.9	17.4	8.0		468	
	05/15/95	1.2	17.4	8.0		468	
	05/15/95	1.5	17.4	8.0		463	
	05/15/95	1.8	17.4	8.0		463	
	05/15/95	2.1	17.3	8.0		463	
	05/15/95	2.4	17.3	8.0		463	
	05/15/95	2.7	17.3	7.9		463	
	05/15/95	3.0	17.2	7.9		463	
	05/15/95	3.3	16.9	7.4	7.90	463	
	05/15/95	3.7	16.7	7.1		463	
	07/31/95	0.1	28.0	7.3		482	0.39
	07/31/95	0.3	28.0	6.7	7.80	482	
	07/31/95	0.6	27.4	5.2		482	
	07/31/95	0.9	27.4	4.4		482	
	07/31/95	1.2	27.4	3.3		482	
	07/31/95	1.5	27.0	1.3		482	
	07/31/95	1.8	26.4	0.0		482	
	07/31/95	2.1	26.4	0.0	7.60	482	
	07/31/95	2.4	26.0	0.0		482	
	08/21/95	0.1	27.5	8.2		432	0.39
	08/21/95	0.3	27.5	8.1	8.40	432	
	08/21/95	0.6	27.3	7.0		432	
	08/21/95	0.9	27.2	4.5		432	
	08/21/95	1.2	26.9	4.4		432	
	08/21/95	1.5	26.6	1.4		432	
	08/21/95	1.8	26.4	1.0		427	
	08/21/95	2.1	26.2	0.2	7.60	427	
	08/21/95	2.4	24.9	0.0		423	
TAPPAN LAKE	L-1						
	06/01/93	0.5	19.3		8.35	395	1.11
	06/01/93	1.0	19.1		8.17	391	
	06/01/93	2.0	18.3		8.16	381	
	06/01/93	3.0	17.3		7.91	375	
	06/01/93	4.0	16.5		7.57	370	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	06/01/93	5.0	16.0		7.41	362	
	06/01/93	6.0	15.3		7.32	359	
	06/01/93	7.0	14.9		8.00	349	
	08/17/93	0.5	27.1	10.6	8.54	650	0.92
	08/17/93	1.0	26.4	10.4	8.45	650	
	08/17/93	2.0	25.8	10.3	8.31	650	
	08/17/93	3.0	24.3	3.1	7.45	650	
	08/17/93	4.0	23.6	0.8	7.36	650	
	08/17/93	5.0	22.9	0.8	7.32	610	
	08/17/93	6.0	20.6	0.7	7.31	610	
	08/17/93	7.0	17.2	0.8	7.31	590	
	08/17/93	7.5	16.7	1.2	7.63	580	
	08/17/93	8.0	15.1	0.9	7.39	550	
	09/07/93	0.5	25.1	9.2	8.49	600	0.88
	09/07/93	1.0	24.7	8.5	8.43	600	
	09/07/93	2.0	24.4	6.6	8.12	600	
	09/07/93	3.0	24.3	5.7	8.01	600	
	09/07/93	4.0	24.2	5.1	7.54	600	
	09/07/93	5.0	24.0	3.6	7.44	610	
	09/07/93	6.0	21.4	0.1	7.42	610	
	09/07/93	7.0	18.5	0.1	7.45	610	
	09/07/93	7.25	19.0	0.2	7.48	610	
TAPPAN LAKE	L-2						
	06/01/93	0.5	19.8		8.42	421	0.90
	06/01/93	1.0	19.7		8.34	421	
	06/01/93	2.0	19.6		8.31	420	
	06/01/93	3.0	19.4		8.25	412	
	06/01/93	4.0	19.4		7.92	410	
	08/17/93	0.5	27.4	9.9	8.63	700	0.57
	08/17/93	1.0	27.0	10.4	8.55	699	
	08/17/93	2.0	26.4	9.8	8.20	699	
	08/17/93	3.0	25.7	6.0	7.97	699	
	08/17/93	4.0	24.5	0.4	7.63	700	
	08/17/93	4.25	24.5	0.4	7.74	700	
	08/17/93	5.0	23.3	0.6	7.96	690	
	09/07/93	0.5	25.6	10.0	8.64	610	0.78
	09/07/93	1.0	25.0	9.7	8.58	610	
	09/07/93	2.0	24.4	6.8	8.43	610	
	09/07/93	3.0	24.3	6.2	8.43	600	
	09/07/93	4.0	24.4	6.5	8.46	600	
	09/07/93	4.25	24.4	6.7	8.48	600	
VAN BUREN LAKE	L-1						
	05/09/94	0.5	15.1	15.2	8.56	500	0.20
	05/09/94	1.0	15.1	14.8	8.54	500	
	07/25/94	0.5	23.4	3.7	7.27	500	0.10
	07/25/94	1.0	23.4	3.7	7.53	500	
	08/22/94	0.5	20.4	5.4	7.98	420	0.20
	08/22/94	1.0	20.1	4.7	7.83	420	
WEST RESERVOIR	L-1						
	05/19/93	0.5	18.1	6.4	7.80	612	1.01
	05/19/93	1.0	18.4	6.2		624	
	05/19/93	1.5	18.4	6.3		612	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	05/19/93	2.0	18.4	6.4		612	
	05/19/93	2.5	18.4	6.4		618	
	05/19/93	3.0	18.5	6.4		612	
	05/19/93	3.5	18.4	5.9		612	
	05/19/93	4.0	18.4	6.4		612	
	05/19/93	4.5	18.4	6.4		612	
	05/19/93	5.0	18.3	6.2		612	
	08/17/93	0.5	27.0	11.4	8.50	651	0.65
	08/17/93	1.0	27.0	11.0		651	
	08/17/93	1.5	27.0	11.0		651	
	08/17/93	2.0	27.0	10.0		651	
	08/17/93	2.5	26.0	4.9		651	
	08/17/93	3.0	26.0	2.2		651	
	08/17/93	3.5	25.0	0.0		682	
	08/17/93	4.0	24.0	0.0	7.70	682	
	09/09/93	0.5	23.5	8.0	8.00	630	0.66
	09/09/93	1.0	23.5	7.8		630	
	09/09/93	2.0	23.5	7.0		630	
	09/09/93	3.0	23.0	6.6		630	
	09/09/93	4.0	23.0	6.4		630	
	09/09/93	4.5	23.0	0.0		630	
WHITE SULPHUR LAKE	L-1						
	06/15/93	0.5	27.0	8.4	8.39	460	2.40
	06/15/93	1.0	27.0	8.6	8.41	462	
	06/15/93	2.0	26.2	8.2	8.47	455	
	06/15/93	3.0	22.2	8.0	8.46	430	
	06/15/93	4.0	19.0	6.6	8.21	412	
	06/15/93	5.0	16.2	3.7	7.61	400	
	06/15/93	6.0	13.0	2.4	7.46	390	
	06/15/93	7.0	10.5	5.9	7.33	380	
	06/15/93	8.0	10.0	4.2	7.31	365	
	06/15/93	9.0	9.0	4.9	7.29	353	
	06/15/93	10.0	8.2	5.8	7.31	340	
	06/15/93	11.0	7.8	6.5	7.35	330	
	06/15/93	12.0	7.8	6.4	7.35	330	
	06/15/93	13.0	7.5	5.6	7.33	335	
	06/15/93	14.0	7.0	2.5	7.20	350	
	06/15/93	15.0	7.0	1.0	7.08	370	
	08/25/93	0.5	29.4	9.3	9.16	420	1.68
	08/25/93	1.0	28.7	7.3	9.10	420	
	08/25/93	2.0	26.4	6.7	8.81	415	
	08/25/93	3.0	26.2	6.4	8.74	415	
	08/25/93	4.0	24.1	2.5	7.91	430	
	08/25/93	5.0	18.7	0.5	7.62	445	
	08/25/93	6.0	14.9	0.7	7.61	430	
	08/25/93	7.0	12.0	0.7	7.57	420	
	08/25/93	8.0	10.6	1.5	7.71	400	
	08/25/93	9.0	11.9	1.1	7.42	395	
	08/25/93	10.0	9.7	1.7	7.48	375	
	08/25/93	11.0	8.6	1.4	7.36	362	
	08/25/93	12.0	8.2	1.2	7.28	360	
	08/25/93	13.0	8.1	0.4	7.20	365	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	08/25/93	14.0	8.9	0.4	7.29	380	
	08/25/93	15.0	10.7	0.55	7.37	397	
	09/21/93	0.5	21.2	8.0	8.47	400	3.10
	09/21/93	1.0	21.2	7.9	8.50	400	
	09/21/93	2.0	21.2	7.9	8.50	400	
	09/21/93	3.0	21.3	8.0	8.50	400	
	09/21/93	4.0	21.3	8.0	8.49	400	
	09/21/93	5.0	21.0	7.5	8.37	405	
	09/21/93	6.0	17.0	1.8	7.23	400	
	09/21/93	7.0	13.8	0.6	7.20	440	
	09/21/93	8.0	10.8	0.6	7.25	405	
	09/21/93	9.0	9.4	0.6	7.27	380	
	09/21/93	10.0	8.1	0.6	7.31	365	
	09/21/93	11.0	7.4	1.4	7.34	355	
	09/21/93	12.0	7.4	0.6	7.32	360	
	09/21/93	13.0	7.1	0.5	7.31	360	
	09/21/93	14.0	7.1	0.5	7.30	355	
	09/21/93	14.5	7.1	0.5	7.30	355	
WILMINGTON RESERVOIR #1	L-1						
	06/07/93	0.5	18.5	8.8	7.67	435	2.13
	06/07/93	1.0	18.5	8.6	7.69	440	
	06/07/93	1.5	18.5	8.6	7.70	440	
	06/07/93	2.0	18.0	9.3	7.77	435	
	06/07/93	2.5	17.8	9.4	7.81	430	
	06/07/93	3.0	17.5	9.3	7.82	430	
	06/07/93	3.5	17.5	9.0	7.82	430	
	06/07/93	4.0	17.0	8.4	7.81	430	
	06/07/93	4.5	17.0	8.0	7.79	428	
	06/07/93	5.0	16.8	6.5	7.68	425	
	06/07/93	5.5	15.0	0.4	7.32	415	
	08/31/93	0.5	27.8	7.5	7.73	420	2.74
	08/31/93	1.0	27.8	7.6	8.02	420	
	08/31/93	1.5	27.8	7.6	8.17	420	
	08/31/93	2.0	27.8	7.5	8.22	420	
	08/31/93	2.5	27.8	7.5	8.27	420	
	08/31/93	3.0	27.2	7.1	8.25	420	
	08/31/93	3.5	27.0	6.7	8.10	425	
	08/31/93	4.0	25.8	4.5	7.89	428	
	08/31/93	4.5	25.0	0.9	7.72	430	
WILMINGTON RESERVOIR #2	L-1						
	06/07/93	0.5	19.0	9.9	7.52	415	1.68
	06/07/93	1.0	18.5	10.7	7.54	420	
	06/07/93	1.5	18.5	10.8	7.52	420	
	06/07/93	2.0	18.2	10.8	7.53	418	
	06/07/93	2.5	18.2	11.0	7.55	418	
	06/07/93	3.0	18.0	10.8	7.58	415	
	06/07/93	3.5	17.8	10.7	7.57	415	
	06/07/93	4.0	17.8	10.5	7.53	415	
	06/07/93	4.5	17.8	10.4	7.52	415	
	06/07/93	5.0	17.8	10.5	7.54	410	
	06/07/93	5.5	17.5	10.1	7.52	410	
	06/07/93	6.0	17.2	9.4	7.47	410	

Lake	Date	Depth (m)	Temperature (C)	D.O. (mg/l)	pH	Conductivity (umhos/cm)	Secchi Depth (m)
	06/07/93	6.5	15.0	3.0	7.22	418	
	06/07/93	7.0	14.5	1.2	7.17	415	
	08/31/93	0.5	28.0	10.2	7.69	420	2.74
	08/31/93	1.0	28.0	9.5	7.98	420	
	08/31/93	1.5	27.8	9.5	8.12	420	
	08/31/93	2.0	28.0	9.0	8.18	420	
	08/31/93	2.5	28.0	9.0	8.30	420	
	08/31/93	3.0	27.5	9.0	8.40	412	
	08/31/93	3.5	27.5	8.9	8.41	412	
	08/31/93	4.0	28.0	9.0	8.41	412	
	08/31/93	4.5	28.0	9.0	8.43	412	
	08/31/93	5.0	26.5	4.8	7.28	440	
	08/31/93	5.5	25.5	0.5	7.17	450	
	09/28/93	0.5	17.5	7.6		335	1.52
	09/28/93	1.0	15.5	7.8		350	
	09/28/93	1.5	17.5	8.2		355	
	09/28/93	2.0	17.5	8.2		355	
	09/28/93	2.5	17.5	8.2		355	
	09/28/93	3.0	17.5	8.0		355	
	09/28/93	3.5	17.5	8.0		355	
	09/28/93	4.0	17.5	8.0		355	
	09/28/93	4.5	17.5	8.1		355	
	09/28/93	5.0	17.5	8.1		355	
	09/28/93	5.5	17.5	8.1		355	

APPENDIX TABLE I-3

Results of water column chemical/physical sampling
(nutrients and miscellaneous parameters)
in Ohio public lakes, ponds, and reservoirs,
1993, 1994, and 1995

Appendix Table I-3. Results of water column chemical/physical sampling (nutrients and miscellaneous parameter) for Ohio public lakes, 1993, 1994, and 1995.

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
ACTON LAKE L1										
	05/31/95	8.0	148	3.2	86	0.79	0.89	1.4	4.98	0.49
	05/31/95	0.5	154	4.5	11	< 0.05	0.07	0.8	6.89	0.05
	08/14/95	0.5	100	3.9	247	< 0.05	0.14	1.5	2.14	0.11
	08/14/95	8.0	235	15	9	4.68	0.02	5.8	< 0.10	0.74
	09/28/95	0.5	138	3.1	7	0.05	0.70	0.7	0.61	<0.05
	09/28/95	8.5	236	34	44	7.49	0.02	8.7	< 0.10	1.08
ALDRICH POND L1										
	05/11/94	0.5	141	1.0	6	< 0.05	< 0.02	0.6	< 0.10	0.26
	05/11/94	1.5	147	1.8	24	< 0.05	< 0.02	0.6	< 0.10	.023
	07/27/94	0.5	84	< 1	<5	< 0.05	< 0.02	.4	< 0.10	.011
	07/27/94	1.25	84	< 1.0	6	< 0.05	< 0.02	0.4	< 0.10	.013
	07/27/94	0.5	86	< 1.0	<5	< 0.05	< 0.02	.4	< 0.10	.019
	08/24/94	1.5	100	1.0	8	< 0.05	< 0.02	0.4	< 0.10	.013
	08/24/94	0.5	98	1.1	7	< 0.05	< 0.02	.3	< 0.10	.023
AMANN RESERVOIR L1										
	05/03/94	0.5	158	4.7	28	< 0.05	0.04	0.9	0.48	0.06
	05/03/94	3.0	168	1.9	21	< 0.05	0.03	0.7	0.49	0.07
	05/11/94	0.5				0.00	0.00		0.00	
	07/28/94	2.5	172	2.3	64	0.71	0.06	1.4	0.12	0.08
	07/28/94	0.5	173	2.4	46	0.70	0.06	1.4	0.13	0.06
	09/07/94	0.5	182	4.8	36	< 0.05	< 0.02	0.8	< 0.10	0.09
	09/07/94	2.5	183	5.8	78	< 0.05	< 0.02	0.6	< 0.10	0.013
	09/13/94	0.5				0.00	0.00		0.00	

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
ATWOOD RESERVOIR L1										
	06/01/93	0.5	47	2.8	9	< 0.05	0.02	.3	0.10	.023
	06/01/93	7.25	44	1.1	7	0.29	0.03	.5	0.19	.023
	08/18/93	0.5	65	2.5	7	< 0.05	0.03	0.4	< 0.10	.036
	08/18/93	5.0	95	7.3	30	2.49	< 0.02	2.4	< 0.10	0.25
	08/19/93					0.00	0.00		0.00	
	09/07/93	0.5	53	2	<5	< 0.05	< 0.02	0.4	0.19	.026
	09/07/93	7.75	88	5	28	1.70	0.02	1.7	0.38	0.12
ATWOOD RESERVOIR L2										
	08/18/93	0.5	59	2.5	6	< 0.05	< 0.02	.4	< 0.10	.044
	08/18/93	5.0	68	2.2	20	< 0.05	< 0.02	.4	< 0.10	.06
	09/07/93	0.5	60	3	7	< 0.05	< 0.02	.4	0.36	.033
	09/07/93	4.25	60	1	6	< 0.05	< 0.02	.4	0.35	.024
BARNESVILLE RESERVOIR #3 L1										
	08/17/93	0.5	73	1.0	<5	< 0.05	< 0.02	<.2	< 0.10	.018
	08/17/93	13.85	84	2.7	<5	0.54	< 0.02	0.7	< 0.10	0.05
	09/08/93	0.5	68	1	<5	< 0.05	< 0.02	0.4	0.41	.025
	09/08/93	14	112	5	6	2.09	< 0.02	2.2	0.41	0.34
BELLEVUE RESERVOIR #5 L1										
	05/26/93	7.5	84	< 1.0	5	< 0.05	< 0.02	.4	1.83	.009
	05/26/93	0.5	89	< 1.0	<5	< 0.05	< 0.02	.3	1.86	.009
	08/25/93	0.5		1	<5	< 0.05	0.02	.4	0.90	.010
	08/25/93	6.0	<5	<2	10	0.21	0.03	.6	0.50	.018
	09/14/93	0.5	81	< 1	8	< 0.05	0.02	.5	0.63	.017
	09/14/93	5.5	78	< 1	9	< 0.05	0.02	.6	0.62	.014
BLUE LIMESTONE PARK QUARRY LAKE L1										
	05/04/94	2.0	230	1.5	5	< 0.05	< 0.02	0.4	< 0.10	<0.1
	05/04/94	0.5	239	1.3	9	< 0.05	0.02	0.6	0.25	0.044

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
	05/11/94	0.5				0.00	0.00		0.00	
	07/27/94	0.5	189	1.9	<5	< 0.05	< 0.02	0.5	< 0.10	0.028
	07/27/94	2.0	189	2.5	38	< 0.05	< 0.02	0.5	< 0.10	0.06
	09/07/94	0.5	188	4.2	8	< 0.05	< 0.02	0.7	< 0.10	0.07
	09/07/94	2.0	215	7.2	24	0.50	< 0.02	1.2	< 0.10	0.05
	09/13/94	1.5				0.00	0.00		0.00	
BOWLING GREEN UPGROUND RESERVOIR L1										
	05/10/94	0.5	180	1.0	<5	0.09	0.02	.8	4.55	.07
	05/10/94	7.25	177	1	36	0.15	0.06	.9	4.25	.11
	07/26/94	0.5	138	1.2	10	< 0.05	0.33	1.1	3.78	.05
	07/26/94	7.25	140	1.1	15	< 0.05	0.52	.8	3.87	.049
	08/23/94	0.5	143	1.1	12	0.05	0.08	.7	2.28	.05
	08/23/94	7.25	134	1.3	20	0.08	0.09	.7	2.11	.07
BUCYRUS RESERVOIR #1 L1										
	05/31/95	0.5	91	2.4	7	0.23	0.13	0.9	3.69	0.039
	05/31/95	4.0	136	3.4	21	1.73	0.08	2.4	8.05	0.05
	08/01/95	0.5	69	4.1	25	0.10	0.02	0.8	< 0.10	0.06
	08/01/95	4.0	233	9.1	34	5.51	0.02	6.3	< 0.10	0.52
	08/16/95	0.5	64	5.8	10	< 0.05	< 0.02	0.5	< 0.10	0.07
	08/16/95	4.0	234	10	43	7.70	0.02	7.4	< 0.10	0.61
BUCYRUS RESERVOIR #2 L1										
	05/31/95	3.5	110	4.9	26	2.01	0.19	2.9	4.62	0.049
	05/31/95	0.5	97	5.0	7	0.13	0.13	1.1	3.42	0.049
	08/01/95	0.5	81	8.9	41	0.08	< 0.02	0.9	< 0.11	0.06
	08/01/95	3.0	219	8.2	79	8.72	0.03	9.8	< 0.10	1.66
	08/16/95	0.5	98	8.4	17	< 0.05	< 0.02	0.9	< 0.10	0.12
	08/16/95	3.0	246	14	44	9.78	0.02	12.2	< 0.10	2.22

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
BUCYRUS RESERVOIR #4 L1										
	05/31/95	0.5	116	< 1	<5	< 0.05	0.02	0.3	1.36	0.07
	05/31/95	9.0	115	< 1	7	< 0.05	0.03	0.3	1.42	0.012
	08/01/95	0.5	107	< 2.0	5	0.06	< 0.02	0.4	1.07	0.06
	08/01/95	8.0	134	< 2.0	14	0.18	< 0.02	0.5	0.37	0.11
	08/16/95	0.5	101	< 2.0	<5	< 0.05	< 0.02	0.3	0.86	0.06
	08/16/95	11	153	2.0	6	0.74	< 0.02	1.0	< 0.10	0.06
C. J. BROWN LAKE L1										
	06/02/94	11.0	222	1.0	6	0.79	0.06	1.0	0.69	0.05
	06/02/94	0.5	206	1.5	6	< 0.05	0.03	.4	1.54	<.05
	08/10/94	1.5	168	2.4	6	0.06	< 0.02	.6	0.12	.040
	08/10/94	11.5	275	9.9	38	4.81	< 0.02	5.6	< 0.10	0.55
	09/14/94	11.0	176	< 1	<5	0.64	< 0.02	.9	< 0.10	.005
	09/14/94	0.5	177	1.2	<5	0.19	< 0.02	.6	< 0.10	0.033
C. J. BROWN LAKE L2										
	06/02/94	0.5	219	2.4	20	< 0.05	0.03	0.5	1.24	0.05
	06/02/94	3.0	208	2.6		0.12	0.04	0.9	1.15	0.12
	08/10/94	1.25	185	3.2	29	0.14	< 0.02	.6	0.49	.048
	08/10/94	1.5	176	5.3	32	< 0.05	< 0.02	.5	0.10	0.053
	09/14/94	1.0	216		54	0.05	< 0.00	.4	1.61	0.070
	09/14/94	0.25	198	1.6	16	0.07	< 0.02	.4	0.69	0.044
CAMBRIDGE RESERVOIR L1										
	04/26/94	8.0	114	1.1	5	0.32	< 0.02	0.6	< 0.10	0.25
	04/26/94	0.5				0.00	0.00		0.00	
	06/08/94	0.5				0.00	0.00		0.00	
	08/09/94	0.5	151	< 1.0	10	0.06	< 0.02	0.4	< 0.10	<0.05
	08/09/94	8.5	229	< 1	28	2.06	< 0.02	2.1	< 0.10	0.36
	08/29/94	0.5	143	4.2	11	< 0.05	< 0.02	0.4	< 0.10	0.044
	08/29/94	8.5	212			1.82	0.00	1.7	< 0.10	0.23

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
	09/01/94	0.5				0.00	0.00		0.00	
CEDARVILLE RESERVOIR L1										
	06/01/93	2.5	161	< 1.0	<5	< 0.05	0.04	.2	2.45	.013
	06/01/93	0.25	189	< 1.0	<5	< 0.05	0.04	.2	2.53	.013
	08/30/93	0.5	194	< 1		0.08	0.04	.4	0.24	.43
	08/30/93	2.5	197	2		0.11	0.02	.6	0.19	.05
	09/27/93	0.5	220	< 1	8	0.17	0.02	.7	0.31	.06
	09/27/93	2.5	206	< 1	8	0.19	0.02	.8	0.30	.06
CITY OF DAYTON LAKE #1 L1										
	05/25/94	0.5	212	6.7	11	< 0.05	0.03	.9	1.25	.06
	05/25/94	21	212	3.2	32	0.15	0.04	.5	1.25	.05
	08/09/94	0.5	200	9.1	13	< 0.05	0.12	1.0	0.76	.088
	08/09/94	4.5	219	2.9	14	< 0.05	0.10	.5	1.03	.056
	09/13/94	5.0	245	1.7	24	0.05	0.03	.3	2.21	.001
	09/13/94	0.5	233	8.5	6	< 0.05	0.02	.5	2.06	.001
CLEAR FORK RESERVOIR L1										
	06/01/93	0.5	96	1.2	5	0.08	0.02	.4	0.29	.015
	06/01/93	6.0	83	1.1	5	0.09	0.02	.4	0.31	.015
	08/24/93	0.5	102	2	5	< 0.05	< 0.02	<.2	< 0.10	.046
	08/24/93	6.0	130	5	26	1.68	0.03	1.6	< 0.10	.17
	09/15/93	1.5	100	1	12	0.08	< 0.02	.6	< 0.10	.037
	09/15/93	5.5	98	1	35	0.07	< 0.02	.6	< 0.10	.040
CLEAR FORK RESERVOIR L2										
	06/01/93	0.5	90	1.3	7	0.07	0.02	.3	0.27	.023
	06/01/93	3.0	90	1.3	8	0.05	0.02	.3	0.30	.019
	08/24/93	0.5	104	2	8	< 0.05	< 0.02	.3	< 0.10	.058
	08/24/93	3.0	100	2	20	< 0.05	0.02	<.2	< 0.10	.06
	09/15/93	0.5	99	1	28	< 0.05	< 0.02	.5	< 0.10	.046
	09/15/93	2.5	98	1	37	< 0.05	< 0.02	.7	< 0.10	.06

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
CRYSTAL LAKE L1										
	05/17/94	0.5	50	< 1.0	<5	< 0.05	< 0.02	0.6	< 0.10	0.011
	05/17/94	8.5	60	< 1	<5	0.31	< 0.02	0.8	< 0.10	0.030
	07/18/94	7.0	69	4.0	12	< 0.05	< 0.02	0.7	< 0.10	0.039
	07/18/94	0.5	53	< 1.0	7	0.08	< 0.02	1.5	< 0.10	0.011
	08/24/94	0.5	54	1.1	<5	< 0.05	< 0.02	0.4	< 0.10	0.011
	08/24/94	10.0	81	4.6	9	0.45	< 0.02	0.9	< 0.10	0.037
DEER CREEK RESERVOIR L1										
	05/18/94	0.5	46	2.1	12	< 0.05	0.02	0.7	0.42	0.031
	05/18/94	5.5	44	2.2	14	0.05	0.02	0.8	0.40	0.031
	07/14/94	16.5	83	4.5	17	1.16	< 0.02	1.6	< 0.10	0.054
	07/14/94	0.5	65	3.2	14	< 0.05	< 0.02	0.5	< 0.10	<0.05
	08/22/94	0.5	77	3.6	13	< 0.05	< 0.02	0.8	< 0.10	0.042
	08/22/94	5.5	96	2.8	40	0.92	0.02	1.8	< 0.10	0.09
DELCO WATER COMPANY LAKE L1										
	05/04/94	0.5	143	2.1	<5	< 0.05	0.03	0.6	0.76	0.06
	05/04/94	3.5	143	1.8	<5	< 0.05	0.03	0.7	0.75	0.035
	05/11/94	0.5				0.00	0.00		0.00	
	07/27/94	0.5	96	3.5	8	< 0.05	0.06	0.8	1.31	0.029
	07/27/94	4.0	97	2.7	11	0.15	0.06	0.8	1.17	0.041
	09/07/94	0.5	97	2.1	<5	< 0.05	0.04	.6	0.75	.06
	09/07/94	4.5	101	2.2	14	0.15	0.04	.7	0.65	.029
	09/13/94	0.5				0.00	0.00		0.00	
EAST FORK LAKE L1										
	06/02/93	0.5	107	3.6	6	< 0.05	0.03	.8	0.16	.045
	06/02/93	7.5	95	< 1	<5	< 0.05	0.02	.5	0.79	0.43
	09/02/93	0.5	93	1	<5	< 0.05	< 0.02	.5	< 0.10	.018
	09/02/93	7.5	117	1		0.14	< 0.02	.7	< 0.10	.026
	09/29/93	0.5	107	1.2	<5	0.07	< 0.02	.5	< 0.10	<.05

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
	09/29/93	7.0	102	1.2	5	0.10	0.03	.60	0.67	.08
EAST FORK LAKE L2										
	06/02/93	0.5	105	3.5	7	< 0.05	0.03	.8	< 0.10	.043
	06/02/93	7.5	94	< 1.0	53	< 0.05	0.03	.6	0.66	.22
	09/02/93	0.5	97	2		< 0.05	< 0.02	.7	< 0.10	.06
	09/02/93	7.5	116	6		0.49	< 0.02	1.1	< 0.10	.08
	09/29/93	0.5	107	1.3	<5	0.14	< 0.02	.8	< 0.10	<.05
	09/29/93	7.0	109	1.7	84	0.18	< 0.02	.6	< 0.10	.14
EAST RESERVOIR L1										
	05/19/93	0.5	133	2	<5	< 0.05	< 0.02	.5	< 0.10	.02
	05/19/93	5.5	137	2.2	<5	< 0.05	< 0.02	.4	< 0.10	.021
	08/17/93	0.5	120	4.4	6	< 0.05	< 0.02	.5	< 0.10	0.19
	08/17/93	5.5	141	2.8	8	0.15	< 0.02	0.7	< 0.10	0.10
	09/09/93	0.5	119	5	8	< 0.05	< 0.02	0.8	< 0.10	0.11
	09/09/93	8.0	142	2	11	1.18	< 0.02	2.0	< 0.10	0.36
ECHO LAKE L1										
	05/24/94	0.5	186	10.0	14	< 0.05	0.05	.7	0.79	0.045
	05/24/94	2.0	208	5.5	20	0.24	0.06	1.3	0.56	.08
	07/12/94	0.5				< 0.05	0.00	<.2	< 0.10	<.05
	08/08/94	0.5	164	6.3	29	< 0.05	< 0.02	.8	< 0.10	.14
	08/08/94	2.0	163	5.0	38	0.07	< 0.02	1.0	< 0.10	.07
	09/12/94	0.5	164	4.8	48	< 0.05	< 0.02	.7	< 0.10	.001
	09/12/94	0.25	163	6	32	< 0.05	< 0.02	.7	< 0.10	.011
	09/12/94	1.75				< 0.05	0.00	<.2	< 0.10	<.005
EVANS LAKE L1										
	05/26/94	0.5	100	1.0	<5	< 0.05	< 0.02	0.4	< 0.10	0.010
	05/26/94	8.5	105	1.0	5	< 0.05	< 0.02	0.4	< 0.10	0.015
	07/21/94	8.0	118	2.7	19	0.43	< 0.02	0.9	< 0.10	0.05
	07/21/94	0.5	92	2.2	<5	< 0.05	< 0.02	0.6	< 0.10	0.016

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
	09/01/94	0.5	93	3.6	9	< 0.05	< 0.02	0.5	< 0.10	0.02
	09/01/94	0.5				< 0.05	0.00	0.7	< 0.10	0.021
	09/01/94	8.5	150	2.9	34	1.35	< 0.02	1.6	< 0.10	0.017
EVERGREEN LAKE L1										
	05/10/94	0.5	105	2.3	<5	< 0.05	< 0.02	0.6	0.86	.018
	05/10/94	3.5	106	2.4	<5	0.37	0.03	1.2	0.21	0.08
	07/26/94	3.25	178	16	12	1.69	< 0.02	2.8	< 0.10	0.16
	07/26/94	0.5	119	5.5	8	< 0.05	< 0.02	1.0	< 0.10	.06
	08/23/94	3.5	192	18	31	2.39	0.02	3.82	< 10.00	.42
	08/23/94	0.5	128	3.4	<5	< 0.05	< 0.02	.8	< 0.10	.06
FORKED RUN LAKE L1										
	06/03/93	0.5	34	1.1	<5	< 0.05	< 0.02	<.2	0.00	.012
	06/03/93	9.0	32	1.2	5	0.26	0.02	.3	0.23	.018
	08/16/93	0.5	39	< 1	<5	< 0.05	< 0.02	<.2	< 0.10	.011
	08/16/93	8.0	53	2.3	8	0.50	< 0.02	.70	< 0.10	.05
	09/09/93	0.5	38	1.0	<5	< 0.05	< 0.02	.4	0.38	.017
	09/09/93	7.5	45	2.2	<5	0.07	< 0.02	.6	0.35	<.05
GRAND RIVER WILDLIFE AREA LAKE L1										
	05/16/95	0.5				0.00	0.00		0.00	
	05/16/95	3.0	11	2.8	<5	< 0.05	< 0.02	0.6	< 0.10	0.047
	07/31/95	0.5	23	6.4	8	< 0.05	< 0.02	1.0	< 0.10	0.06
	07/31/95	8.0	39	15	43	< 0.05	0.03	1.5	< 0.10	0.12
	08/21/95	0.5	27	12	10	< 0.05	< 0.02	0.8	< 0.10	0.08
	08/21/95	7.0	31	11	20	< 0.05	< 0.02	0.8	< 0.10	0.08
GUILFORD LAKE L1										
	05/16/94	0.5	47	8.2	22	< 0.05	0.23	1.9	0.58	0.07
	05/16/94	6.5	56	3.0	21	0.05	0.03	1.2	0.67	0.067
	07/19/94	0.5	59	4.1	10	0.06	< 0.02	0.7	< 0.10	0.042
	07/19/94	7.0	92	6.3	8	2.11	< 0.02	217	< 0.10	0.06

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
	08/30/94	7.0	116	7.5	18	5.58	< 0.02	6.8	< 0.10	0.34
	08/30/94	0.5	68	5.6	9	< 0.10	0.00	<0.02	0.00	0.06
HUFFMAN POND (MIAMI CONS. DIST. LAKE) L1										
	05/25/94	0.25	260	5.6	26	0.34	0.07	1.2	2.18	.15
	05/25/94	1.25	274	4.2	59	0.36	0.07	1.2	2.33	.18
	08/09/94	1.25	239	3.5	85	0.20	0.04	.9	1.22	.21
	08/09/94	0.25	223	5.5	83	0.12	0.04	.8	1.55	.08
	09/13/94	0.25	201	21	38	< 0.05	0.04	.3	1.39	.008
	09/13/94	1.0	210	7.7	40	< 0.05	0.04	<.2	1.89	.007
LAKE LORETTA L1										
	05/16/95	0.5	19	2.2	3	< 0.05	< 0.02	0.2	< 0.10	<0.010
	05/16/95	7.0	36	3.7	7	0.83	< 0.02	1.0	< 0.10	0.044
	10/24/95	3.5	31	3.6	13	< 0.05	< 0.02	0.8	< 0.10	0.10
	10/24/95	0.5	32	3.6	5	< 0.05	< 0.02	0.5	< 0.10	0.06
LAKE ROMONA L1										
	05/16/95	0.5	5	1.9	10	< 0.05	< 0.02	0.2	< 0.10	0.018
	05/16/95	4.0	8	1.2	7	< 0.05	< 0.02	0.2	< 0.10	0.019
	09/15/95	0.5	17	2.4	<5	< 0.05	< 0.02	0.2	< 0.10	<0.05
	09/15/95	4.0	36	5.4	55	0.58	0.03	0.8	< 0.10	<0.05
	10/24/95	3.5	17	< 2.0	<5	0.06	< 0.02	0.4	< 0.10	0.06
	10/24/95	0.5	17	< 2.0	<5	< 0.05	< 0.02	<0.20	< 0.10	0.08
LAKE RUPERT L1										
	05/10/95	7.0	21	< 1	7	0.20	< 0.02	0.4	< 0.10	0.029
	05/10/95	0.5	17	< 1	<5	0.09	< 0.02	0.2	< 0.10	0.016
	08/22/95	6.5	99	10	18	< 2.13	< 0.02	2.4	< 0.10	0.06
	08/22/95	0.5	27	2.1	12	0.11	< 0.02	0.4	< 0.10	0.06
	09/12/95	0.5	33	< 2.0	12	0.11	< 0.02	0.5	< 0.10	0.09
	09/12/95	7.0	131	16	<5	3.73	< 0.02	4.4	< 0.10	0.11

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
LAKE SNOWDEN (MARGARET CR. C.D. LAKE #2) L1										
	05/08/95	0.5	48	1.4	<5	< 0.05	< 0.02	0.4	< 0.10	0.021
	05/08/95	11.5	56	1.5	<5	0.39	< 0.02		< 0.10	0.037
	08/21/95	10.5	88	6.8	<5	1.44	< 0.02	2.0	< 0.10	0.40
	08/21/95	0.5	54	< 2.0	<5	< 0.05	< 0.02	0.4	< 0.10	0.05
	09/11/95	10.5	92	< 2.0	<5	1.89	0.02	2.1	< 0.10	0.17
	09/11/95	0.5	55	< 2.0	<5	< 0.05	0.02	0.3	< 0.10	0.07
LAMPSON RESERVOIR L1										
	05/22/95	0.16	23	2.1	6	< 0.05	< 0.02	0.5	0.25	0.18
	05/22/95	3.0	23	1.3	7	< 0.05	< 0.02	0.5	0.24	0.09
	08/01/95	2.6	29	3.3	24	< 0.05	< 0.02	0.7	< 0.10	0.07
	08/01/95	0.16	30	3.7	16	0.00	< 0.02		0.00	
	08/24/95	0.16	34	6.1	12	< 0.05	< 0.02	1.2	< 0.10	0.05
	08/24/95	2.6	32	5.3	12	< 0.05	< 0.02	1.2	< 0.10	0.05
LONG LAKE L1										
	06/02/93	7.0	171	2.7	<5	0.23	0.04	.7	0.11	.037
	06/02/93	0.5	167	4.3	6	< 0.05	0.03	.7	0.18	.042
	08/26/93	0.5	134	6	12	< 0.05	< 0.02	.6	< 0.10	.06
	08/26/93	16	229	8	10	3.73	< 0.02	3.7	< 0.10	.52
	09/08/93	0.5	117	6	9	< 0.05	< 0.02	.8	< 0.10	.06
	09/08/93	12	240	9	<5	5.16	0.02	5.9	< 0.10	.84
LONG LAKE L2										
	06/02/93	0.5	165	4.4	7	< 0.05	0.03	.7	0.15	.046
	06/02/93	5.0	164	3.6	10	< 0.05	0.03	.5	0.22	.042
	08/26/93	0.5	132	4	8	< 0.05	< 0.02	.7	< 0.10	.06
	08/26/93	3.0	142	4	10	< 0.05	< 0.02	.6	< 0.10	.06
	09/08/93	0.5	128	5	8	< 0.05	< 0.02	.8	< 0.10	.08
	09/08/93	4.5	130	4	8	< 0.05	< 0.02	.8	< 0.10	.06

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
MAPLE GROVE LAKE L1										
	05/11/94	0.5	217	1.4	30	0.10	< 0.02	0.6	0.51	0.21
	05/11/94	1.0	208	1.5	36	0.12	< 0.02	0.6	0.50	0.08
	07/28/94	0.5	220	2.5	40	0.20	0.04	0.6	0.32	0.06
	07/28/94	1.5	198	3.3	9	0.06	0.03	0.6	0.24	0.038
	09/07/94	0.5	184	5	18	< 0.05	< 0.02	0.4	< 0.10	0.06
	09/07/94	1.9	190	2	96	0.05	0.02	0.4	< 0.10	0.08
	09/13/94	0.5				0.00	0.00		0.00	
MAYSVILLE REG. WATER DIST. LAKE L1										
	04/28/94	0.5	156	3.2	6	0.67	< 0.02	1.0	< 0.10	<0.05
	04/28/94	8.5	111	< 1.0	<5	< 0.05	< 0.02	0.3	< 0.10	<0.05
	06/08/94	0.5				0.00	0.00		0.00	
	08/09/94	0.5	78	< 1.0	<5	< 0.05	< 0.02	0.4	< 0.10	<0.05
	08/09/94	8.0	204	22	42	0.07	< 0.02	2.1	< 0.10	0.11
	08/30/94	7.5	187	1.2	<5	< 0.05	< 0.02	0.5	< 0.10	0.051
	08/30/94	0.5	78	< 1	<5	< 0.05	< 0.02	0.3	< 0.10	0.029
	09/01/94	0.5				0.00	0.00		0.00	
MEANDER CREEK RESERVOIR L1										
	05/25/94	0.5	47	1.7	5	< 0.05	< 0.02	0.5	0.42	0.018
	05/25/94	6.5	49	1.3	10	0.07	< 0.02	0.6	0.48	0.018
	07/20/94	0.5	56	1.5	<5	< 0.05	< 0.02	0.5	< 0.10	0.025
	07/20/94	7.5	58	1.1	8	0.26	< 0.02	0.7	< 0.10	0.017
	08/23/94	0.5	62	1.0	6	0.57	0.02	1.0	< 0.10	0.015
	08/23/94	8.0				< 0.05	0.00	0.6	< 0.10	0.027
MICHAEL J. KIRWIN RESV. (WEST BR. RESV.) L1										
	05/17/94	0.5	55	1.0	5	< 0.05	< 0.02	0.4	0.47	0.17
	05/17/94	7.0	53	1	8	< 0.05	< 0.02	0.4	0.49	0.028
	07/18/94	0.5	63	< .1	7	< 0.05	< 0.02	0.3	0.25	0.012
	07/18/94	7.0	65	< 1	13	0.06	< 0.02	0.3	0.34	0.011

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
	08/24/94	14	84	1.6	42	0.39	0.02	0.5	< 0.10	0.019
	08/24/94	0.5	68	1.2	<5	< 0.05	0.02	0.3	< 0.10	0.010
MT. GILEAD LAKE L1										
	05/03/94	0.5	209	4.5	14	< 0.05	0.03	0.7	0.48	0.036
	05/03/94	3.0	207	3.3	32	< 0.05	0.03	0.7	0.58	0.06
	05/11/94	0.5				0.00	0.00		0.00	
	05/11/94	4.5				0.00	0.00		0.00	
	07/28/94	0.5	162		15	0.10	0.04	0.8	0.23	0.042
	07/28/94	2.5	162	3.6	24	0.18	5.00	0.8	0.20	0.05
	09/07/94	0.5	164	4.6	16	< 0.05	< 0.02	0.6	< 0.10	0.06
	09/07/94	3.0	167	2.1	54	< 0.05	< 0.02	0.6	< 0.10	0.09
	09/13/94	0.5				0.00	0.00		0.00	
NEW CONCORD RESERVOIR L1										
	04/26/94	8.0	101	1.2	8	0.62	< 0.05	0.9	< 0.10	0.034
	04/26/94	0.5	83	< 1	<5	< 0.05	< 0.02	0.5	0.35	0.16
	06/08/94	0.5				0.00	0.00		0.00	
	08/09/94	8.25	125	5.3	5	1.06	< 0.02	1.6	< 0.10	0.07
	08/09/94	0.5	50	1.4	5	< 0.05	< 0.02	0.5	< 0.10	<0.05
	08/30/94	15	69	2.1	<5	0.11	< 0.02	0.6	< 0.10	0.045
	08/30/94	0.5	50	3.3	8	< 0.05	< 0.02	0.5	< 0.10	0.027
	09/01/94	0.5				0.00	0.00		0.00	
NEW LEXINGTON RESERVOIR #1 (New) L1										
	05/09/95	0.5	30	1.9	<5	< 0.05	< 0.02	0.2	< 0.10	0.020
	05/09/95	9.0	43	1.1	<5	0.30	< 0.02	0.5	< 0.10	0.021
	08/21/95	0.5	37	< 2.0	<5	< 0.05	< 0.02	0.4	< 0.10	0.06
	08/21/95	9.0	88	4.3	6	1.74	< 0.02	2.2	< 0.10	0.12
	09/11/95	0.5	40	< 2.0	<5	< 0.05	0.02	0.2	< 0.10	0.09
	09/11/95	9.0	106	6.2	6	2.75	0.02	2.8	< 0.10	0.25

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
NIMISILA RESERVOIR L1										
	08/17/93	0.5	92	2.8	<5	< 0.05	< 0.02	.3	< 0.10	.14
	08/17/93	5.5	137	7.5	14	0.94	< 0.02	1.4	< 0.10	.22
	09/08/93	0.5	102	3	<5	< 0.05	< 0.02	.6	< 0.10	.031
	09/08/93	7.0	104	3	6	< 0.05	< 0.02	.6	< 0.10	.037
NORTH BALTIMORE RESERVOIR L1										
	05/09/94	4.5	134	2.3	7	0.14	0.03	1.0	2.75	0.038
	05/09/94	0.5	130	2.7	8	0.05	0.05	1.1	2.87	0.032
	07/25/94	5.0	132	3.1	9	0.82	0.03	1.4	2.27	.032
	07/25/94	0.5	78	4.6	9	< 0.05	0.05	.7	3.77	.025
	08/22/94	0.5	97	3.6	10	0.15	0.05	1.0	2.38	.028
	08/22/94	5.0	115	3.4	18	0.76	0.05	1.5	1.68	.031
NORTH RESERVOIR L1										
	06/02/93	0.5	120	2.4	8	< 0.05	< 0.02	.5	< 0.10	.041
	06/02/93	2.0	125	2.2	9	< 0.05	0.02	.6	< 0.10	.040
	08/26/93	0.5	102	11	48	< 0.05	0.02	.7	< 0.10	.07
	08/26/93	3.0	135	7	176	< 0.05	0.04	.5	< 0.10	.07
O'SHAUGHNESSY RESERVOIR L1										
	05/15/95	21	211	2.3		0.52	0.12	1.1	2.73	0.06
	05/15/95	0.5	136	2.9	21	0.09	0.08	1.0	4.26	0.10
	09/14/95	16	168	6.6	25	1.62	0.03	2.1	< 0.10	0.62
	09/14/95	0.5	165	< 2.0	6	0.34	0.04	0.9	0.16	0.09
	10/25/95	1.5	142	< 2.0	8	< 0.05	0.16	0.9	3.45	0.20
	10/25/95	15	163	2.3	36	0.16	0.28	1.0	2.97	0.27
OAK THORPE RESERVOIR L1										
	06/08/93	0.5	107	5.6	10	< 0.05	0.09	.7	1.38	.07
	06/08/93	4.5	166	5.4	11	0.71	< 0.02	1	< 0.10	.08
	08/24/93	0.5	125	8	19	< 0.05	< 0.02	.5	< 0.10	.09

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
	08/24/93	5.0	233	10	41	3.21	0.02	3.5	< 0.10	.17
	08/27/93	0.5				0.00	0.00		0.00	
	09/22/93	0.5	129	8	19	< 0.05	< 0.02	.8	< 0.10	.09
	09/22/93	5.5				0.34	0.00	.8	< 0.10	.09
OPOSSUM CREEK LAKE #1 L1										
	05/23/95	0.5	164	1.5	<5	< 0.05	< 0.02	<0.2	< 0.10	0.76
	05/23/95	4.25	164	1.5	10	< 0.05	< 0.02	0.5	< 0.10	0.08
	08/17/95	0.5	132	3.0	5	< 0.05	< 0.02	0.6	< 0.10	0.05
	08/17/95	3.5	144	3.4	14	< 0.05	< 0.02	0.7	< 0.10	0.08
	09/27/95	0.5	131	< 2	6	0.00	< 0.02		0.00	
	09/27/95	3.5	131	< 2.0	15	0.10	< 0.02	0.6	< 0.10	<0.05
OPOSSUM CREEK LAKE #2 L1										
	05/23/95	0.5	129	< 1.0	<5	< 0.05	< 0.02	0.5	< 0.10	0.017
	05/23/95	2.5	131	< 1.0	8	< 0.05	< 0.02	0.6	< 0.10	0.05
	08/17/95	0.5	93	< 2.0	<5	< 0.05	< 0.02	0.5	< 0.10	<0.05
	08/17/95	5.4	102	2.4	12	< 0.05	< 0.02	0.5	< 0.10	0.06
	09/27/95	0.5	89	< 2.0	10	< 0.05	< 0.02	0.5	< 0.10	<0.05
	09/27/95	2.5	89	< 2.0	15	< 0.05	< 0.02	0.5	< 0.10	<0.05
PLEASANT HILL LAKE L1										
	05/27/93	0.5	116	5.2	13	< 0.05	< 0.02	.7	0.50	.06
	05/27/93	11	114	1.3	12	0.58	0.04	1.0	0.54	.05
	08/23/93	0.5	138	6	10	< 0.05	< 0.02	.4	< 0.10	.23
	08/23/93	11	186	12	14	3.62	< 0.02	3.9	< 0.10	.52
	09/16/93	0.5	131	6	12	0.18	< 0.02	.9	< 0.10	.06
	09/16/93	7.0	137	3	12	0.19	< 0.02	.8	< 0.10	0.08
PLEASANT HILL LAKE L2										
	05/27/93	0.5	141	3.6	9	< 0.05	< 0.02	.5	0.57	.044
	05/27/93	3.0	138	2.1	15	< 0.05	0.02	.5	0.64	.06
	08/23/93	0.5	137	7	13	< 0.05	< 0.02	.4	< 0.10	.07

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
	08/23/93	3.0	141	3.2	15	< 0.05	< 0.02	.4	< 0.10	.06
	09/16/93	0.5	138	7	18	< 0.05	< 0.02	1.0	< 0.10	.10
	09/16/93	3.5	139	2	22	0.09	< 0.02	1.0	< 0.10	.07
RACCOON CREEK RESERVOIR L1										
	05/30/95	0.5	102	< 1.0	<5	< 0.05	< 0.02	0.4	0.14	0.07
	05/30/95	5.0	103	< 1.0	<5	0.07	< 0.02	0.4	0.18	<0.001
	08/02/95	0.5	92	< 2.0	<5	< 0.05	< 0.02	0.5	< 0.10	0.07
	08/02/95	4.5	104	< 2	<5	< 0.05	< 0.02	0.5	< 0.10	0.06
	08/17/95	0.5	86	< 2.0	<5	< 0.05	< 0.02	0.5	< 0.10	0.06
	08/17/95	5.5	108	4.8	10	0.18	< 0.02	0.8	< 0.10	0.09
RICHWOOD PARK LAKE L1										
	05/15/95	0.5	180	2.9	12	< 0.05	< 0.02	0.6	< 0.10	0.036
	05/15/95	2.5	181	3.1	305	< 0.05	< 0.02	0.7	< 0.10	0.050
	09/14/95	0.5	153	4.9	11	< 0.05	0.02	1.0	< 0.10	0.06
	09/14/95	2.0	152	4.4	24	< 0.05	0.02	1.0	< 0.10	0.05
	10/23/95	0.5	159	5.0	12	< 0.05	< 0.02	0.9	0.23	0.08
	10/23/95	2.5	158	4.9	16	< 0.05	< 0.02	0.6	< 0.10	0.05
RIO GRANDE RESERVOIR L1										
	05/10/95	0.5	31	1.6	<5	< 0.05	< 0.02	0.2	< 0.10	0.021
	05/10/95	7.0	36	< 1	6	0.39	< 0.02	0.6	< 0.10	0.026
	08/22/95	0.5	36	< 2.0	<5	< 0.05	< 0.02	<0.2	< 0.10	0.05
	08/22/95	6.5	54	4.4	8	< 0.05	< 0.02	0.4	< 0.10	0.06
	09/12/95	7.0	83	4.9	9	0.36	< 0.02	0.9	< 0.10	0.08
	09/12/95	0.5	39	< 2.0	<5	< 0.05	< 0.02	0.2	< 0.10	0.08
ROAMING ROCK LAKE L1										
	05/23/95	0.5	53	1.4	<5	< 0.05	< 0.02	1.0	0.12	0.034
	05/23/95	10	51	< 1.0	<5	0.37	< 0.02	0.9	0.14	0.12
	08/01/95	0.5	65	2.1	18	< 0.05	< 0.02	0.9	< 0.10	0.11
	08/01/95	11	70	2.1	11	1.00	< 0.02	1.6	< 0.10	0.41

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
	08/24/95	0.5	65	2.2	<5	< 0.05	< 0.02	0.6	< 0.10	0.05
	08/24/95	8.0	79	4.0	<5	1.18	< 0.02	1.80	< 0.10	0.32
ROCK MILL LAKE L1										
	06/09/93	0.5				0.00	0.00		0.00	
	06/09/93	4.0				0.00	0.00		0.00	
	08/26/93	4.0		5	18	1.79	< 0.02	1.80	< 0.10	.91
	08/26/93	0.5				0.00	0.00		0.00	
	09/21/93	0.5	190	4	<5	< 0.05	< 0.02	.6	0.21	.07
	09/21/93	3.5	208	1	24	0.21	< 0.02	.5	0.37	.08
SALT FORK RESERVOIR L1										
	04/25/94	0.5	43	1.6	5	< 0.05	< 0.02	0.3	0.40	0.015
	04/25/94	10	41	1.2	12	0.08	< 0.02	0.4	0.32	0.05
	04/25/94	10				0.00	0.00		0.00	
	08/08/94	0.5	84	5.9	29	< 0.05	< 0.02	0.4	< 0.10	<0.05
	08/08/94	10	53	2.4	5	1.22	< 0.02	1.5	< 0.10	0.06
	08/29/94	0.5	55	1.8	<5	< 0.05	< 0.02	0.4	< 0.10	0.027
	08/29/94	10	96	1.9	18	1.40	< 0.02	1.8	< 0.10	0.013
SALT FORK RESERVOIR L2										
	04/25/94	2.0	54	2.4	22	< 0.05	< 0.02	0.5	0.12	0.039
	04/27/94	1.5	58	2.3	6	< 0.05	< 0.02	0.4	< 0.10	0.05
	06/08/94	1.5				0.00	0.00		0.00	
	08/08/94	0.5	75	< 1	<5	0.18	< 0.02	0.6	< 0.10	<0.05
	08/08/94	2.5	79	< 1	12	0.31	< 0.02	0.6	< 0.10	<0.05
	08/29/94	2.5	76	3.2	15	< 0.05	< 0.02	0.4	< 0.10	0.030
	08/29/94	0.5	75	3.5	16	< 0.05	< 0.02	0.4	< 0.10	0.036
	09/01/94	0.5				0.00	0.00		0.00	
SEBALD POND #1 L1										
	05/23/95	0.5	114	6.1	13	< 0.05	< 0.02	1.1	< 0.10	0.14
	05/23/95	2.0	116	2.7	13	0.38	0.04	1.4	< 0.05	0.13

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
	08/15/95	0.5	89	13	18	< 0.05	< 0.02	2.1	< 0.10	0.09
	08/15/95	2.0	98	2.9	68	0.85	0.02	2.1	< 0.10	0.12
	09/26/95	0.5	114	6.1	45	0.57	0.05	3.9	< 0.10	0.18
	09/26/95	1.0	117	4.9	129	3.06	0.06	4.0	< 0.10	0.21
SHELBY RESERVOIR #1 L1										
	05/25/93	0.5	128	1	<5	< 0.05	< 0.02	.3	1.01	.017
	05/25/93	3.5	148	1.2	5	0.18	0.02	.5	0.82	.020
	08/26/93	0.5	102	2	10	< 0.05	0.03	.5	0.63	.024
	08/26/93	4.0	148	3	9	0.61	0.06	1.3	0.35	.08
	09/13/93	0.5	113	4	6	< 0.05	0.02	1.1	1.03	.036
	09/13/93	4.0	107	5	5	< 0.05	0.02	0.8	0.36	.041
SHELBY RESERVOIR #2 L1										
	05/25/93	7.0	162	< 1.0	<5	< 0.05	< 0.02	.3	1.73	.010
	05/25/93	0.5	136	< 1	<5	< 0.05	< 0.02	.3	1.72	.008
	08/26/93	0.5	116	< 1	<5	< 0.05	0.02	.3	1.15	.010
	08/26/93	4.0	120	1	5	< 0.05	0.02	.3	1.03	.09
	09/13/93	0.5	114	1	<5	< 0.05	0.02	.5	0.78	.014
	09/13/93	3.5	118	1	6	< 0.05	0.02	.6	0.78	.015
STAGES POND L1										
	06/16/93	0.5				0.00	0.00		0.00	
	06/16/93	2.0				0.00	0.00		0.00	
	08/24/93	0.5	158	6.3	22	0.57	< 0.02	1.9	< 0.10	0.26
	08/24/93	2.0	141	28	37	< 0.05	< 0.02	1.8	< 0.10	0.16
	09/21/93	0.5				< 0.05	0.00	1.5	< 0.10	0.12
	09/21/93	1.5	142	10	41	< 0.05	< 0.02	1.4	< 0.10	0.12
SUNNY LAKE (HARMON'S POND) L1										
	05/15/95	3	97	4.9	25	< 0.05	< 0.02	0.6	< 0.10	0.061
	05/15/95	0.33	96	4.0	23	< 0.05	< 0.02	0.6	< 0.10	0.05
	07/31/95	2.5	95	3.5	20	< 0.05	< 0.02	0.8	< 0.10	0.07

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
	07/31/95	0.5	94	5.9	20	< 0.05	< 0.02	0.8	< 0.10	0.07
	08/21/95	0.33	91	4.6	26	< 0.05	< 0.02	0.7	< 0.10	0.09
	08/21/95	2.5	95	3.2	20	0.06	< 0.02	0.8	< 0.10	0.11
TAPPAN LAKE L1										
	06/01/93	0.5	81	1.7	<5	< 0.05	< 0.02	<.2	< 0.10	.023
	06/01/93	7.0	93	2.5	5	< 0.05	< 0.02	.2	< 0.10	.037
	08/17/93	0.5	69	3.9	7	< 0.05	< 0.02	.3	< 0.10	.039
	08/17/93	8.0	146	7.8	6	1.59	< 0.02	1.5	< 0.10	.34
	08/19/93	0.5				0.00	0.00		0.00	
	09/07/93	0.5	62	4	7	< 0.05	< 0.02	.5	0.36	.030
	09/07/93	7.25	132	4	6	1.33	< 0.02	1.6	0.32	.25
TAPPAN LAKE L2										
	06/01/93	0.5	96	2.3	9	< 0.05	< 0.02	.2	< 0.10	.031
	06/01/93	4.0	96	1.7	8	< 0.05	< 0.02	.3	< 0.10	.029
	08/17/93	0.5	62	4.2	8	< 0.05	< 0.02	.3	< 0.10	.07
	08/17/93	5.0	78	3.0	140	< 0.05	< 0.02	.5	< 0.10	.08
	08/19/93	0.5				0.00	0.00		0.00	
	09/07/93	0.5	64	4	7	< 0.05	< 0.02	.6	0.34	.045
	09/07/93	4.25	68	3	14	< 0.05	< 0.02	.6	0.42	.044
VAN BUREN LAKE L1										
	05/09/94	0.5	142	11	78	< 0.05	0.03	1.3	1.15	0.34
	05/09/94	1.0	143	11	103	< 0.05	0.03	2.0	1.14	0.18
	07/25/94	0.5	113	9.0	71	0.22	0.18	1.1	1.32	.09
	07/25/94	1.0	113	9	104	0.26	0.19	1	1.88	.1
	08/22/94	0.5	107	4.1	68	< 0.05	0.15	.8	5.83	.075
	08/22/94	1.0	114	4.1	75	< 0.05	0.14	.9	5.63	.087
WEST RESERVOIR L1										
	05/19/93	5.0	152	2.5	8	< 0.05	< 0.02	.6	< 0.10	.040
	05/19/93	1.5	149	2.4	7	< 0.05	< 0.02	.4	< 0.10	.037

Lake	Date	Depth (m)	Alkalinity (CaCO3)	BOD (mg/l)	Residue Nfilt. (mg/l)	NH3+NH4- (mg/l)	Nitrite (mg/l)	TKN (mg/l)	NO2+NO3 (mg/l)	Phos-Tot (mg/l)
	08/17/93	0.5	136	6.1	12	< 0.05	< 0.02	0.7	< 0.10	0.10
	08/17/93	4.0	152	5.1	12	0.08	< 0.02	0.8	< 0.10	0.28
	09/09/93	0.5	136	6	10	< 0.05	< 0.02	1.0	< 0.10	0.13
	09/09/93	4.5	134	4	10	< 0.05	< 0.02	1.0	< 0.10	0.11
WHITE SULPHUR LAKE L1										
	06/15/93	0.5				0.00	0.00		0.00	
	06/15/93	15				0.00	0.00		0.00	
	08/25/93	0.5	87	2	<5	< 0.05	0.04	0.6	0.66	.013
	08/25/93	15.0	223	15	<5	2.28	< 0.02	2.6	< 0.10	0.28
	09/21/93	0.5	110	< 1	<5	< 0.05	0.03	0.5	0.52	0.05
	09/21/93	14.5	233	5	5	3.13	< 0.02	3.0	< 0.10	0.47
WILMINGTON RESERVOIR #1 L1										
	06/07/93	0.5	199	2.8	<5	< 0.05	0.04	.4	3.37	.018
	06/07/93	5.5	206	3.6	19	0.30	0.05	.6	1.61	.059
	08/31/93	0.5	125	< 1	<5	< 0.05	0.06	.4	2.20	.011
	08/31/93	4.5	153	2	6	0.21	0.06	.9	0.92	.06
	09/28/93	4.5	170	2	22	< 0.05	< 0.02	0.4	0.22	0.06
WILMINGTON RESERVOIR #2 L1										
	06/07/93	0.5	179	2.2	8	< 0.05	0.02	.3	2.15	.017
	06/07/93	7.0	213	3.7	194	0.42	0.06	.8	0.60	.032
	08/31/93	0.5	136	1	<5	< 0.05	0.04	.4	0.94	.012
	08/31/93	5.5	152	3	8	0.54	0.08	1.2	0.12	.07
	09/28/93	0.5	138	1.3	5	0.08	0.02	.5	0.47	<.05
	09/28/93	5.5	154	1.2	6	0.10	0.02	.6	0.55	<.05

APPENDIX TABLE I-4

Results of water column chemical/physical sampling
(metals and miscellaneous parameters)
in Ohio public lakes, ponds, and reservoirs,
1993, 1994, and 1995

Appendix Table I-4. Results of water column chemical/physical sampling (heavy metals and miscellaneous parameter) for Ohio public lakes, 1993, 1994, and 1995.

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
ACTON LAKE L1												
	05/31/95	0.5	240	60	22	26	<2	< 0.20	<30	<10		4
	05/31/95	8.0	222	56	20	15	3	< 0.20	<30	<10		5
	08/14/95	0.5	150	22	23	29	<2	< 0.20	<30	<10		<2
	08/14/95	8.0	240	60	22	12	15	< 0.20	<30	<10	4190	<2
	09/28/95	0.5	214	41	27	31	<2	< 0.20	<30	<10	282	<2
	09/28/95	8.5	253	60	25	23	18	< 0.20	<30	<10	5470	<2
ALDRICH POND L1												
	05/11/94	0.5	206	43	24	40	<2	< 0.20	<30	<2	303	<2
	05/11/94	1.5	209	44	24	39	<2	< 0.20	<30	<2	304	<2
	07/27/94	0.5	146	24	21	25	4	< 0.20	<30	<2	308	<2
	07/27/94	0.5	142	24	20	24	3	< 0.20	<30	<2	300	<2
	07/27/94	1.25	151	26	21	26	3	< 0.20	<30	<2	621	<2
	08/24/94	0.5	174	30	24	23	4	< 0.20	<30	<2	588	<2
	08/24/94	1.5	174	30	24	17	4	< 0.20	<30	<2	692	<2
AMANN RESERVOIR L1												
	05/03/94	0.5	236	63	19	79	<2	0.40	<30	<10		3
	05/03/94	3.0	231	61	19	78	2	< 0.20	<30	<10		7
	05/11/94	0.5						0.00				
	07/28/94	0.5	234	64	18	56	8	< 0.20	<30	<10		4
	07/28/94	2.5	239	66	18	55	5	< 0.20	<30	<10		4
	09/07/94	0.5	249	65	21	63	4	< 0.20	<30	<10		4
	09/07/94	2.5	255	66	22	62	4	< 0.20	<30	<10		4
	09/13/94	0.5						0.00				
ATWOOD RESERVOIR L1												
	06/01/93	0.5	73	21	5	41	<2	< 0.20	<30	<2	252	<2
	06/01/93	7.25	77	21	6	31	<2	< 0.20	<30	<2	163	<2
	08/18/93	0.5	89	24	7	31	<2	< 0.20	<30	<2	197	<2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
	08/18/93	5.0	86	23	7	10	15	< 0.20	<30	<2	5490	<2
	08/19/93							0.00				
	09/07/93	0.5	91	25	7	32	2	< 0.20	<30	<2	264	<2
	09/07/93	7.75	96	27	7	15	14	< 0.20	<30	<2	5220	<2
ATWOOD RESERVOIR L2												
	08/18/93	0.5	89	24	7	35	<2	< 0.20	<30	<2	191	<2
	08/18/93	5.0	86	23	7	33	<2	< 0.20	<30	<2	791	<2
	09/07/93	0.5	91	25	7	29	2	< 0.20	<30	<2	474	<2
	09/07/93	4.25	91	25	7	30	2	< 0.20	<30	<2	239	<2
BARNESVILLE RESERVOIR #3 L1												
	08/17/93	0.5	93	29	5		<2	< 0.20	<30	<2	98	<2
	08/17/93	13.85	96	30	5		3	< 0.20	<30	<2	517	<2
	09/08/93	0.5	98	31	5	28	<2	< 0.20	<30	<2	205	3
	09/08/93	14	98	31	5	19	9	< 0.20	<30	<2	2410	<2
BELLEVUE RESERVOIR #5 L1												
	05/26/93	0.5	168	44	14	75	<2	< 0.20	<30	<2	61	<2
	05/26/93	7.5	174	45	15	79	<2	< 0.20	<30	<2	212	<2
	08/25/93	0.5	164	41	15	76	<2	< 0.20	<30	<2	<50	<2
	08/25/93	6.0	175	47	14	73	<2	< 0.20	<30	<2	135	<2
	09/14/93	0.5	167	42	15	73	2	0.30	<30	<2	446	4
	09/14/93	5.5	164	41	15	72	<2	< 0.20	<30	<2	508	<2
BLUE LIMESTONE PARK QUARRY LAKE L1												
	05/04/94	0.5	298	70	30	81	2	< 0.20	<30	<10		3
	05/04/94	2.0	312	74	31	84	2	< 0.20	<30	<10		<2
	05/11/94	0.5						0.00				
	07/27/94	0.5	270	52	34	72	4	< 0.20	<30	159		4
	07/27/94	2.0	282	57	34	72	4	< 0.20	<30	102		2
	09/07/94	0.5	287	54	37	70	4	< 0.20	<30	<10		<2
	09/07/94	2.0	305	61	37	70	4	< 0.20	<30	15		<2
	09/13/94	1.5						0.00				
BOWLING GREEN UPGROUND RESERVOIR L1												
	05/10/94	0.5	253	70	19	62	<2	< 0.20	<30	3	216	<2
	05/10/94	7.25	256	71	19	63	<2	< 0.20	<30	5	718	<2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
	07/26/94	0.5	256	63	24	69	<2	< 0.20	<30	4	857	<2
	07/26/94	7.25	256	63	24	70	<2	< 0.20	<30	5	941	<2
	08/23/94	0.5	242	59	23	79	2	< 0.20	<30	4	882	<2
	08/23/94	7.25	245	60	23	80	2	< 0.20	<30	4	1510	<2
BUCYRUS RESERVOIR #1 L1												
	05/31/95	0.5	165	48	11	34	<2	< 0.20	<30	6	907	<2
	05/31/95	4.0	231	71	13	32	<2	< 0.20	<30	<10	1140	<2
	08/01/95	0.5	119	31	10	39	4	< 0.20	<30	<10	386	<2
	08/01/95	4.0	229	72	12	11	18	< 0.20	<30	4	4900	<2
	08/16/95	0.5	118	29	11	39	4	< 0.20	<30	<10	527	<2
	08/16/95	4.0	252	76	15	12	14	< 0.20	<30	<10	7430	<2
BUCYRUS RESERVOIR #2 L1												
	05/31/95	0.5	169	48	12	47	<2	< 0.20	<30	2	557	<2
	05/31/95	3.5	177	51	12	48	<2	< 0.20	<30	2	1620	<2
	08/01/95	0.5	123	31	11	44	2	< 0.20	<30	4	372	<2
	08/01/95	3.0	207	63	12	20	5	< 0.20	<30	2	9500	<2
	08/16/95	0.5	144	38	12	40	4	< 0.20	<30	3	482	<2
	08/16/95	3.0	224	65	15	19	11	< 0.20	42	<10	9880	<2
BUCYRUS RESERVOIR #4 L1												
	05/31/95	0.5	229	57	21	76	<2	< 0.20	<30	<2	127	<2
	05/31/95	9.0	222	56	20	81	<2	< 0.20	<30	2	649	<2
	08/01/95	0.5	190	48	17	73	2	< 0.20	<30	<2	<50	<2
	08/01/95	8.0	210	56	17	69	2	< 0.20	<30	<10	60	<2
	08/16/95	0.5	205	49	20	76	<2	< 0.20	<30	<2	68	<2
	08/16/95	11	232	60	20	51	6	< 0.20	32	<10	289	<2
C. J. BROWN LAKE L1												
	06/02/94	0.5	281	58	33	53	<2	< 0.20	<30	<10		<2
	06/02/94	11.0	277	58	32	50	<2	< 0.20	<30	<2		<2
	08/10/94	1.5	247	41	35	53	<2	< 0.20	<30	<10	110	<2
	08/10/94	11.5	298	60	36	19	4	< 0.20	<30	<10	1840	<2
	09/14/94	0.5	261	45	36	50	2	< 0.20	<30	<10		<2
	09/14/94	11.0	458	44	36	55	3	< 0.20	<30	<10		<2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
C. J. BROWN LAKE L2												
	06/02/94	0.5	292	61	34	55	<2	< 0.20	<30	<10		<2
	06/02/94	3.0	291	62	33	54	<2	0.30	<30	<10		6
	08/10/94	1.25	273	50	36	50	<2	< 0.20	<30	<10	1200	<2
	08/10/94	1.5	254	44	35	49	2	< 0.20	<30	<10	670	<2
	09/14/94	0.25	287	54	37	58	<2	< 0.20	<30	<10		<2
	09/14/94	1.0	343	73	39	60	2	< 0.20	<30	<10		<2
CAMBRIDGE RESERVOIR L1												
	04/26/94	0.5	182	48	15		<2	< 0.20	<30	2	157	4
	04/26/94	8.0	186	48	16	113	<2	< 0.20	<30	3	238	5
	06/08/94	0.5						0.00				
	08/09/94	0.5	424	94	46	433	<2	< 0.20	<30	16	319	<2
	08/09/94	8.5	436	102	44	354	6	< 0.20	<30	12	856	<2
	08/29/94	0.5	325	74	34	304	<2	< 0.20	<30	10	214	<2
	08/29/94	8.5	391	89	41	360	4	< 0.20	<30	15	1230	<2
	09/01/94	0.5						0.00				
CEDARVILLE RESERVOIR L1												
	06/01/93	0.25	273	45	39	55	<2	< 0.20	<30	<10		<2
	06/01/93	2.5	258	44	36	56	<2	< 0.20	<30	<10		<2
	08/30/93	0.5	292	36	49		<2	< 0.20	<30	<10	65	<2
	08/30/93	2.5	294	37	49		<2	< 0.20	<30	<10	103	<2
	09/27/93	0.5	319	47	49	77	<2	< 0.20	<30	14	206	<2
	09/27/93	2.5	326	48	50	77	<2	< 0.20	<30	18	226	<2
CITY OF DAYTON LAKE #1 L1												
	05/25/94	0.5	285	63	31	69	<2	< 0.20	<30	<10		2
	05/25/94	21	316	72	33	68	<2	< 0.20	<30	<10		2
	08/09/94	0.5	284	56	35	60	<2	< 0.20	<30	<2	57	<2
	08/09/94	4.5	309	66	35	63	<2	< 0.20	<30	<10	227	<2
	09/13/94	0.5	328	72	36	74	<2	< 0.20	<30	<10	35	<2
	09/13/94	5.0	406	100	38	66	<2	< 0.20	<30	<10	1080	<2
CLEAR FORK RESERVOIR L1												
	06/01/93	0.5	122	34	9	26	2	< 0.20	<30	<2	264	<2
	06/01/93	6.0	126	34	10	26	<2	< 0.20	<30	<2	134	<2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
	08/24/93	0.5	119	33	9	27	4	< 0.20	<30	<2	135	<2
	08/24/93	6.0	127	36	9	18	26	< 0.20	<30	<2	3600	<2
	09/15/93	1.5	126	34	10	29	<2	< 0.20	<30	<2	481	<2
	09/15/93	5.5	133	35	11	27	4	< 0.20	<30	<2	666	<2
CLEAR FORK RESERVOIR L2												
	06/01/93	0.5	133	35	11	26	2	< 0.20	<30	<2	301	<2
	06/01/93	3.0	129	35	10	25	<2	< 0.20	<30	<2	471	<2
	08/24/93	0.5	119	33	9	27	<2	< 0.20	<30	<2	347	<2
	08/24/93	3.0	127	36	9	28	4	< 0.20	<30	<2	985	<2
	09/15/93	0.5	135	36	11	28	3	< 0.20	<30	<2	1210	2
	09/15/93	2.5	133	35	11	29	2	< 0.20	<30	<2	1220	2
CRYSTAL LAKE L1												
	05/17/94	0.5	71	20	5	16	<2	< 0.20	<30	<2	<50	<2
	05/17/94	8.5	92	27	6	16	4	< 0.20	<30	<2	691	<2
	07/18/94	0.5	73	21	5	17	2	< 0.20	<30	<2	<50	<2
	07/18/94	7.0	92	27	6	15	2	< 0.20	<30	<2	94	<2
	08/24/94	0.5	80	22	6	15	<2	< 0.20	<30	<2	56	<2
	08/24/94	10.0	101	<29	7	12	4	< 0.25	<30	<2	253	<2
DEER CREEK RESERVOIR L1												
	05/18/94	0.5	78	23	5	29	<2	< 0.20	<30	<2	541	<2
	05/18/94	5.5	78	23	5	26	<2	< 0.20	<30	<2	623	<2
	07/14/94	0.5	95	28	6	33	<2	< 0.20	<30	<2	566	<2
	07/14/94	16.5	95	28	6	24	9	< 0.20	<30	<2	538	<2
	08/22/94	0.5	124	35	9	38	<2	< 0.20	<30	<10	355	<2
	08/22/94	5.5	124	35	9	32	9	< 0.20	<30	<10	1830	<2
DELCO WATER COMPANY LAKE L1												
	05/04/94	0.5	211	55	18	75	<2	< 0.20	<30	<10		<2
	05/04/94	3.5	211	55	18	75	<2	< 0.20	<30	<10		<2
	05/11/94	0.5						0.00				
	07/27/94	0.5	176	41	18	62	2	< 0.20	<30	22		7
	07/27/94	4.0	176	41	18	67	2	< 0.20	<30	20		2
	09/07/94	0.5	176	41	18	64	<2	< 0.20	<30	<10		<2
	09/07/94	4.5	179	42	18	61	<2	< 0.20	<30	13		2
	09/13/94	0.5						0.00				

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
EAST FORK LAKE L1												
	06/02/93	0.5	122	34	9	27	<2	< 0.20	<30	<10		<2
	06/02/93	7.5	119	33	9		<2	< 0.40	<30	<10		<2
	09/02/93	0.5	124	33	10	29	<2	< 0.20	<30	<10		3
	09/02/93	7.5	146	42	10	28	<2	< 0.20	<30	<10		<2
	09/29/93	0.5	131	36	10	28	<2	< 0.20	<30	<10	<50	4
	09/29/93	7.0	134	37	10	25	<2	< 0.20	<30	<10	652	<2
EAST FORK LAKE L2												
	06/02/93	0.5	140	38	11	25	<2	< 0.20	<30	<10		<2
	06/02/93	7.5	136	38	10	30	2	< 0.20	<30	<10		5
	09/02/93	0.5	130	34	11	28	<2	< 0.20	<30	<10		<2
	09/02/93	7.5	136	38	10	29	2	< 0.20	<30	<10		<2
	09/29/93	0.5	131	36	10	28	<2	< 0.20	<30	<10	150	<2
	09/29/93	7.0	135	36	11	26	<2	< 0.20	<30	<10	1700	<2
EAST RESERVOIR L1												
	05/19/93	0.5	201	59	13	49	2	< 0.20	<30	<2	<50	<2
	05/19/93	5.5	201	59	13	48	3	< 0.20	<30	<2	<50	<2
	08/17/93	0.5	189	51	15		16	< 0.20	<30	<2	<50	<2
	08/17/93	5.5	194	53	15		26	< 0.20	<30	<2	106	<2
	09/09/93	0.5	184	49	15	42	20	< 0.20	<30	<2	<50	<2
	09/09/93	8.0	199	55	15	35	40	< 0.20	<30	<2	534	<2
ECHO LAKE L1												
	05/24/94	0.5	215	40	28	322	2	< 0.20	<30	<10	164	12
	05/24/94	2.0	240	50	28	34	2	< 0.20	<30	<10	497	4
	07/12/94	0.5	<10	<2	<1		<2	< 0.20	<30	<10	<50	<2
	08/08/94	0.5	224	47	26	26	3	< 0.20	<30	<10	1020	11
	08/08/94	2.0	220	47	25	27	2	< 0.20	<30	12	1490	4
	09/12/94	0.25	207	45	23	30	2	< 0.20	<30	<10	1010	3
	09/12/94	0.5	207	45	23	26	3	< 0.20	<30	15	1610	3
	09/12/94	1.75	<10	<2	<1		<2	< 0.20	<30	<10	<50	<2
EVANS LAKE L1												
	05/26/94	0.5	361	95	30	274	<2	< 0.20	<30	<2	<50	<2
	05/26/94	8.5	360	93	31	294	<2	< 0.20	<30	<2	182	<2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
	07/21/94	0.5	451	108	44	330	<2	0.50	<30	9	163	28
	07/21/94	8.0	408	104	36	303	5	< 0.20	<30	4	803	2
	09/01/94	0.5	408	99	34	333	4	< 0.20	<30	3	131	2
	09/01/94	0.5	403	97	39		2	< 0.20	<30	<2	207	<2
	09/01/94	8.5	429	106	40	286	10	< 0.20	<30	4	1240	<2
EVERGREEN LAKE L1												
	05/10/94	0.5	133	40	8	39	<2	< 0.20	<30	<2	138	<2
	05/10/94	3.5	130	39	8	25	3	< 0.20	<30	<2	1100	<2
	07/26/94	0.5	154	45	10	28	6	< 0.20	<30	<2	180	<2
	07/26/94	3.25	178	53	11	13	25	< 0.20	<30	<2	6020	<2
	08/23/94	0.5	151	44	10	19	6	< 0.20	<30	<2	219	<2
	08/23/94	3.5	185	56	11	18	34	< 0.20	<30	<2	15900	<2
FORKED RUN LAKE L1												
	06/03/93	0.5	46	12	4	39	<2	< 0.20	<30		<50	<2
	06/03/93	9.0	44	11	4	39	<2	< 0.20	<30	<10	429	<2
	08/16/93	0.5	49	13	4	25	<2	< 0.20	<30	<10	76	<2
	08/16/93	8.0	49	13	4	22	3	< 0.20	<30	<2	3540	<2
	09/09/93	0.5	51	14	4	30	<2	< 0.20	<30	<2	<50	<2
	09/09/93	7.5	42	12	3	20	2	< 0.20	<30	<2	1590	<2
GRAND RIVER WILDLIFE AREA LAKE L1												
	05/16/95	0.5						0.00				
	05/16/95	3.0	27	6	3	12	<2	< 0.20	<30	<10	1760	<2
	07/31/95	0.5	23	6	2	6	<2	< 0.20	<30	<2	2200	<2
	07/31/95	8.0	35	9	3	22	2	< 0.20	<30	<2	29600	<2
	08/21/95	0.5	27	6	3	5	<2	< 0.20	<30	2	3940	<2
	08/21/95	7.0	30	7	3	10	<2	< 0.20	<30	<2	9300	<2
GUILFORD LAKE L1												
	05/16/94	0.5	91	25	7	38	2	< 0.20	<30	4	103	<2
	05/16/94	6.5	96	27	7	34	3	< 0.20	<30	<2	216	<2
	07/19/94	0.5	94	26	7	34	3	< 0.20	<30	<2	65	2
	07/19/94	7.0	104	30	7	25	3	< 0.20	<30	<2	242	<2
	08/30/94	0.5	114	31	9	29	2	< 0.20	<30	<2	206	<2
	08/30/94	7.0	124	35	9	12	7	< 0.20	<30	<2	1620	<2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
HUFFMAN POND (MIAMI CONS. DIST. LAKE) L1												
	05/25/94	0.25	325	74	34	63	2	< 0.20	<30	<10		6
	05/25/94	1.25	340	80	34	62	<2	< 0.20	<30	<10		6
	08/09/94	0.25	317	66	37	57	<2	< 0.20	<30	<10	2840	3
	08/09/94	1.25	393	88	42	59	3	0.40	<30	<10	5090	13
	09/13/94	0.25	302	60	37	64	<2	< 0.20	<30	<10	726	2
	09/13/94	1.0	306	63	36	64	<2	< 0.20	<30	<10	823	<2
LAKE LORETTA L1												
	05/16/95	0.5	30	7	3	21	<2	< 0.20	<30	<10	466	<2
	05/16/95	7.0	32	8	3	7	3	< 0.20	<30	<10	5790	<2
	10/24/95	0.5	39	9	4	20	<2	< 0.20	<30	20	756	<2
	10/24/95	3.5	39	9	4	12	<2	< 0.20	<30	12	758	<2
LAKE ROMONA L1												
	05/16/95	0.5	16	3	2	21	<2	0.40	<30	<10	738	3
	05/16/95	4.0	18	4	2	12	<2	< 0.20	<30	<10	2375	<2
	09/15/95	0.5		4	2	<5	<2	< 0.20	<30	<10	717	<2
	09/15/95	4.0		8	3	15	<2	< 0.20	<30	<10	43000	<2
	10/24/95	0.5	18	4	2	17	<2	< 0.20	<30	<10	1650	<2
	10/24/95	3.5	18	4	2	17	<2	< 0.20	<30	<10	2510	<2
LAKE RUPERT L1												
	05/10/95	0.5	71	17	7	57	<2	< 0.20	<30	<10	298	<2
	05/10/95	7.0	67	17	6	53	<2	< 0.20	<30	<10	769	<2
	08/22/95	0.5	65	16	6	35		< 0.20	<30	<10	635	<2
	08/22/95	6.5	70	18	6	9		< 0.20	<30	<10	1390	<2
	09/12/95	0.5	61	16	5	31	<2	< 0.20	<30	2	411	<2
	09/12/95	7.0	79	20	7	<5	4	< 0.20	<30	<2	1500	<2
LAKE SNOWDEN (MARGARET CR. C.D. LAKE #2) L1												
	05/08/95	0.5	84	22	7	34	<2	0.90	<30	<10	193	<2
	05/08/95	11.5	84	22	7	41	<2	< 0.20	<30	<10	290	<2
	08/21/95	0.5	75	20	6	22	<2	< 0.20	<30	<10	88	<2
	08/21/95	10.5	86	23	7	19		< 0.20	<30	<10	740	<2
	09/11/95	0.5	75	20	6		<2	< 0.20	<30	2	65	<2
	09/11/95	10.5	89	24	7		2	< 0.20	<30	<2	742	<2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
LAMPSON RESERVOIR L1												
	05/22/95	0.16	47	14	3	15	<2	0.40	<30	6	607	<2
	05/22/95	3.0	47	14	3	20	<2	< 0.20	<30	<2	607	<2
	08/01/95	0.16	51	14	4	18	4	< 0.20	<30	3	383	<2
	08/01/95	2.6	51	14	4	30	4	0.20	<30	3	646	<2
	08/24/95	0.16	45	13	3		2	< 0.20	<30	<2	481	<2
	08/24/95	2.6	47	14	3		3	< 0.20	<30	<2	547	<2
LONG LAKE L1												
	06/02/93	0.5	256	73	18	65	4	< 0.20	<30	<2	<50	<2
	06/02/93	7.0	255	74	17	59	4	< 0.20	<30	<2	<50	<2
	08/26/93	0.5	196	52	16	55	9	0.30	<30	<2	94	<2
	08/26/93	16	270	80	17	42	18	< 0.20	<30	<2	735	<2
	09/08/93	0.5	192	52	15	52	10	< 0.20	<30	<2	98	<2
	09/08/93	12	266	80	16	35	14	< 0.20	<30	<2	361	<2
LONG LAKE L2												
	06/02/93	0.5	256	73	18	61	4	< 0.20	<30	<2	<50	<2
	06/02/93	5.0	264	76	18	62	3	< 0.20	<30	<2	196	<2
	08/26/93	0.5	201	54	16	54	9	< 0.20	<30	<2	104	<2
	08/26/93	3.0	201	54	16	53	9	< 0.20	<30	<2	100	<2
	09/08/93	0.5	196	52	16	52	8	< 0.20	<30	<2	130	<2
	09/08/93	4.5	192	52	15	47	8	< 0.20	<30	<2	161	<2
MAPLE GROVE LAKE L1												
	05/11/94	0.5	280	71	25	55	<2	< 0.20	<30	<10		<2
	05/11/94	1.0	276	71	24	55	<2	< 0.20	<30	<10		<2
	07/28/94	0.5	298	70	30	67	4	< 0.20	<30	2		2
	07/28/94	1.5		66	29	68	5	< 0.20	<30	<10		3
	09/07/94	0.5	293	63	33	76	3	< 0.20	<30	<10		3
	09/07/94	1.9	293	63	33	77	2	< 0.20	<30	<10		3
	09/13/94	0.5						0.00				
MAYSVILLE REG. WATER DIST. LAKE L1												
	04/28/94	0.5	235	61	20	70	<2	< 0.20	<30	<10	257	<2
	04/28/94	8.5	170	45	14	58		< 0.20	<30	<10	<50	<2
	06/08/94	0.5						0.00				

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
	08/09/94	0.5	157	35	17	59	<2	< 0.20	<30	<10	74	3
	08/09/94	8.0	298	78	25	74	<2	< 0.20	<30	<10	80	<2
	08/30/94	0.5	146	32	16	67	<2	< 0.20	<30	<10	<50	<2
	08/30/94	7.5	256	68	21	74	2	< 0.20	<30	<10	<50	<2
	09/01/94	0.5						0.00				
MEANDER CREEK RESERVOIR L1												
	05/25/94	0.5	91	25	7	50	<2	< 0.20	<30	2	121	<2
	05/25/94	6.5	87	25	6	46	2	< 0.20	<30	<2	142	<2
	07/20/94	0.5	110	31	8	53	<2	< 0.20	<30	2	<50	<2
	07/20/94	7.5	110	31	8	45	<2	< 0.20	<30	3	493	<2
	08/23/94	0.5	126	34	10	68	<2	0.20	<30	<2	200	<2
	08/23/94	8.0						0.00				
MICHAEL J. KIRWIN RESV. (WEST BR. RESV.) L1												
	05/17/94	0.5	94	26	7	34	<2	< 0.20	<30	<2	677	<2
	05/17/94	7.0	94	26	7	34	<2	< 0.20	<30	<2	737	<2
	07/18/94	0.5	105	29	8	40	<2	< 0.20	<30	<2	439	<2
	07/18/94	7.0	108	30	8	40	<2	< 0.20	<30	<2	465	<2
	08/24/94	0.5	124	33	10	46	<2	< 0.20	<30	<2	171	<2
	08/24/94	14	117	32	9	33	8	< 0.20	<30	<2	3640	<2
MT. GILEAD LAKE L1												
	05/03/94	0.5	260	66	23	57	<2	< 0.20	<30	<10		<2
	05/03/94	3.0	255	64	23	77	<2	< 0.20	<30	<10		<2
	05/11/94	0.5						0.00				
	05/11/94	4.5						0.00				
	07/28/94	0.5	210	53	19	42	5	< 0.20	<30	<10		2
	07/28/94	2.5	215	53	20	42	5	< 0.20	<30	<10		<2
	09/07/94	0.5	244	53	27	60	6	< 0.20	<30	<10		2
	09/07/94	3.0	244	53	27	60	4	< 0.20	<30	<10		2
	09/13/94	0.5						0.00				
NEW CONCORD RESERVOIR L1												
	04/26/94	0.5	108	35	5	30	<2	< 0.20	<30	<2	133	<2
	04/26/94	8.0	127	41	6	30	3	< 0.20	<30	<2	1640	3
	06/08/94	0.5						0.00				
	08/09/94	0.5	94	26	7	30	2	< 0.20	<30	<10	114	2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
	08/09/94	8.25	150	47	8	20	4	< 0.20	<30	<10	1940	<2
	08/30/94	0.5	82	23	6	32	2	< 0.20	<30	<10	122	<2
	08/30/94	15	100	30	6	28	<2	< 0.20	<30	<10	217	<2
	09/01/94	0.5						0.00				
NEW LEXINGTON RESERVOIR #1 (New) L1												
	05/09/95	0.5	110	26	11	63	<2	< 0.20	<30	<10	364	<2
	05/09/95	9.0	108	25	11	64	<2	< 0.20	<30	<10	443	<2
	08/21/95	0.5	83	20	8	43		< 0.20	<30	<10	112	<2
	08/21/95	9.0	104	25	10	28		< 0.20	<30	<10	4490	<2
	09/11/95	0.5	85	21	8	57	<2	0.20	<30	<2	277	<2
	09/11/95	9.0	104	25	10		8	< 0.20	<30	<2	6650	<2
NIMISILA RESERVOIR L1												
	08/17/93	0.5	153	38	14		3	< 0.20	<30	3	<50	<2
	08/17/93	5.5	180	49	14		7	< 0.20	<30	<2	1790	<2
	09/08/93	0.5	160	41	14	47	<2	< 0.20	<30	5	79	<2
	09/08/93	7.0	160	41	14	47	2	< 0.20	<30	<2	188	<2
NORTH BALTIMORE RESERVOIR L1												
	05/09/94	0.5	268	66	25	117	<2	< 0.20	<30	42	70	<2
	05/09/94	4.5	257	55	23	121	<2	< 0.20	<30	36	157	<2
	07/25/94	0.5	196	44	21	94	<2	< 0.20	<30	<10	242	<2
	07/25/94	5.0	240	60	22	92	<2	< 0.20	<30	<10	252	<2
	08/22/94	0.5	234	54	24	96	<2	< 0.20	<30	2	196	<2
	08/22/94	5.0	241	57	24	100	<2	< 0.20	<30	4	669	<2
NORTH RESERVOIR L1												
	06/02/93	0.5	180	49	14	40	12	< 0.20	<30	<2	107	<2
	06/02/93	2.0	185	51	14	43	12	< 0.20	<30	3	138	<2
	08/26/93	0.5	173	38	19	29	38	< 0.20	<30	<2	1200	<2
	08/26/93	3.0	185	51	14	30	35	< 0.20	<30	<10	2990	<2
O'SHAUGHNESSY RESERVOIR L1												
	05/15/95	0.5	244	63	21	71	<2	< 0.20	<30	<10	3070	2
	05/15/95	21	379	99	32		<2	< 0.20	<30	<10	1340	<2
	09/14/95	0.5	248	63	22	64	2	< 0.20	<30	<10	695	3
	09/14/95	16	226	59	19	52	13	< 0.20	<30	<10	5560	2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
	10/25/95	1.5	244	63	21	82	<2	< 0.20	<30	11	1010	2
	10/25/95	15	272	<71	23	99	<2	< 0.20	<30	15	2660	2
OAK THORPE RESERVOIR L1												
	06/08/93	0.5	164	36	18	36	<2	< 0.20	<30	<10	202	<2
	06/08/93	4.5	182	50	14	26	<2	< 0.20	<30	<10	369	<2
	08/24/93	0.5	163	34	19	37	4	< 0.20	<30	<2	432	<2
	08/24/93	5.0	201	49	19	9	29	< 0.20	<30	<2	4720	<2
	08/27/93	0.5						0.00				
	09/22/93	0.5	176	39	19	33	3	< 0.20	<30	<10	494	2
	09/22/93	5.5	185	41	20		6	< 0.20	<30	<10	2670	<2
OPOSSUM CREEK LAKE #1 L1												
	05/23/95	0.5	221	49	24	37	<2	< 0.20	<30	<10		<2
	05/23/95	4.25	333	79	33	34	<2	0.20	<30	15		<2
	08/17/95	0.5	189	36	24		3	< 0.20		<10		<2
	08/17/95	3.5	192	39	23	17	6	< 0.20		<10		<2
	09/27/95	0.5	180	34	23	40	5	< 0.20	<30	<10	160	<2
	09/27/95	3.5	180	34	23	26	4	< 0.20	<30	<10	291	<2
OPOSSUM CREEK LAKE #2 L1												
	05/23/95	0.5	165	38	17	25	<2	< 0.20	<30	<10		<2
	05/23/95	2.5	167	39	17	18	<2	< 0.20	<30	<10		<2
	08/17/95	0.5	113	20	16	8	3	< 0.20		<10		<2
	08/17/95	5.4	127	23	17	5	3	< 0.20		<10		<2
	09/27/95	0.5	113	19	16	12	3	< 0.20	<30	<10	87	<2
	09/27/95	2.5	116	20	16	13	3	< 0.20	<30	<10	515	<2
PLEASANT HILL LAKE L1												
	05/27/93	0.5	174	45	15	39	<2	< 0.20	<30	<2	<50	<2
	05/27/93	11	149	40	12	21	<2	< 0.20	<30	<2	451	<2
	08/23/93	0.5	152	36	15	30	5	< 0.20	<30	<2	203	<2
	08/23/93	11	182	48	15	8	20	< 0.20	<30	<2	2520	<2
	09/16/93	0.5	171	42	16	26	4	< 0.20	<30	<2	242	<2
	09/16/93	7.0	171	42	16	26	3	< 0.20	<30	<2	338	<2
PLEASANT HILL LAKE L2												
	05/27/93	0.5	181	46	16	49	3	< 0.20	<30	<2	163	<2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
	05/27/93	3.0	183	47	16	36	<2	< 0.20	<30	<2	515	<2
	08/23/93	0.5	161	38	16	25	5	< 0.20	<30	<2	348	4
	08/23/93	3.0	166	40	16	30	4	< 0.20	<30	<2	780	2
	09/16/93	0.5	171	42	16	26	4	< 0.20	<30	<2	557	<2
	09/16/93	3.5	180	44	17	27	2	< 0.20	<30	<2	2080	<2
RACCOON CREEK RESERVOIR L1												
	05/30/95	0.5	164	46	12	33	2	< 0.20	<30	63	69	<2
	05/30/95	5.0	164	46	12	40	<2	< 0.20	<30	63	90	<2
	08/02/95	0.5	143	39	11	56	2	< 0.20	<30	92	<50	<2
	08/02/95	4.5	145	40	11	35	3	< 0.20	<30	12	<50	<2
	08/17/95	0.5	144	38	12	28	<2	< 0.20	<30	29	61	<2
	08/17/95	5.5	162	45	12	25	3	< 0.20	<30	21	244	<2
RICHWOOD PARK LAKE L1												
	05/15/95	0.5	267	59	29	69	<2	< 0.20	<30	<10	387	2
	05/15/95	2.5	269	60	62	66	<2	< 0.20	<10	763	3	29
	09/14/95	0.5	214	38	29	36	<2	< 0.20	<30	<10	338	7
	09/14/95	2.0	215	40	28	35	2	< 0.20	<30	<10	762	2
	10/23/95	0.5	214	41	27	44	2	< 0.20	<30	158	463	8
	10/23/95	2.5	214	41	27	42	2	< 0.20	<30	47	447	3
RIO GRANDE RESERVOIR L1												
	05/10/95	0.5	49	13	4	24	<2	< 0.20	<30	<10	471	<2
	05/10/95	7.0	49	13	4	20	<2	< 0.20	<30	<10	1410	<2
	08/22/95	0.5	45	13	3	13		< 0.20	<30	<10	112	<2
	08/22/95	6.5	56	16	4	<5		< 0.20	<30	<10	1360	<2
	09/12/95	0.5	47	14	3	12	<2	< 0.20	<30	<2	1833	<2
	09/12/95	7.0	59	17	4	<5	<2	< 0.20	<30	4	4950	<2
ROAMING ROCK LAKE L1												
	05/23/95	0.5	82	23	6	42	<2	0.60	<30	8	585	<2
	05/23/95	10	80	22	6	18	3	< 0.20	<30	2	1590	<2
	08/01/95	0.5	78	23	5	23	5	< 0.20	<30	4	81	<2
	08/01/95	11	75	22	5	24	10	< 0.20	<30	2	3000	<2
	08/24/95	0.5	82	23	6	24	3	< 0.20	<30	<2	77	<2
	08/24/95	8.0	82	23	6		10	< 0.20	<30	<2	3660	<2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
ROCK MILL LAKE L1												
	06/09/93	0.5						0.00				
	06/09/93	4.0						0.00				
	08/26/93	0.5						0.00				
	08/26/93	4.0	230	56	22	16	27	< 0.20	<30	<2	1000	2
	09/21/93	0.5	205	46	22	24	3	< 0.20	<30	<10	187	<2
	09/21/93	3.5	220	50	23	23	4	< 0.20	<30	<10	1280	<2
SALT FORK RESERVOIR L1												
	04/25/94	0.5	82	23	6	47	5	< 0.20	<30	<10	232	3
	04/25/94	10	87	25	6	55	3	< 0.20	<30	<2	565	4
	04/25/94	10						0.00				
	08/08/94	0.5	108	30	8	37	7	< 0.20	<30	<10	3450	<2
	08/08/94	10	112	30	9	52	<2	< 0.20	<30	<10	89	<2
	08/29/94	0.5	105	29	8	53	<2	< 0.20	<30	<10	101	<2
	08/29/94	10	105	29	8	29	7	< 0.20	<30	<10	2700	<2
SALT FORK RESERVOIR L2												
	04/25/94	2.0	124	35	9	76	<2	0.30	<30	<2	958	5
	04/27/94	1.5	124	35	9	73	<2	< 0.20	<30	<2	281	5
	06/08/94	1.5						0.00				
	08/08/94	0.5	173	46	14	85	<2	< 0.20	<30	<10	365	2
	08/08/94	2.5	175	47	14	87	<2	< 0.20	<30	<10	979	3
	08/29/94	0.5	152	41	12		<2	< 0.20	<30	<10	518	<2
	08/29/94	2.5	143	39	11	79	<2	< 0.20	<30	<10	544	<2
	09/01/94	0.5						0.00				
SEBALD POND #1 L1												
	05/23/95	0.5	157	43	12	36	11	< 0.20	<30	<10		3
	05/23/95	2.0	157	43	12	20	16	< 0.20	<30	<10		<2
	08/15/95	0.5	124	33	10	35	17	< 0.20	<30	<10		<2
	08/15/95	2.0	121	32	10	29	16	< 0.20	<30	<10		<2
	09/26/95	0.5	173	46	14	53	37	< 0.20	<30	10	5070	4
	09/26/95	1.0	175	47	14	57	34	< 0.20	<30	<10	3150	5
SHELBY RESERVOIR #1 L1												
	05/25/93	0.5	216	55	19	67	<2	< 0.20	<30	4	182	<2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
	05/25/93	3.5	224	60	18	67	<2	0.20	<30	3	284	<2
	08/26/93	0.5	185	38	22	75	2	< 0.20	<30	<2	35	<2
	08/26/93	4.0	219	53	21	70	3	< 0.20	<30	<2	195	2
	09/13/93	0.5	190	40	22	77	3	< 0.20	<30	31	151	3
	09/13/93	4.0	186	40	21	74	3	< 0.20	<30	40	162	<2
SHELBY RESERVOIR #2 L1												
	05/25/93	0.5	243	66	19	75	<2	< 0.20	<30	5	61	<2
	05/25/93	7.0	241	65	19	75	<2	0.30	<30	5	69	<2
	08/26/93	0.5	201	49	19	80	<2	< 0.20	<30	3	<50	<2
	08/26/93	4.0	210	51	20	81	<2	< 0.20	<30	4	95	<2
	09/13/93	0.5	210	51	20	81	<2	< 0.20	<30	25	163	<2
	09/13/93	3.5	207	50	20	81	2	< 0.20	<30	25	195	<2
STAGES POND L1												
	06/16/93	0.5						0.00				
	06/16/93	2.0						0.00				
	08/24/93	0.5	162	35	18	<5	12	< 0.20	<30	<2	3040	<2
	08/24/93	2.0	157	33	18	<5	8	< 0.20	<30	<2	680	<2
	09/21/93	0.5	168	36	19		8	< 0.20	<30	<10	1220	<2
	09/21/93	1.5	173	38	19	8	9	< 0.20	<30	<10	1400	<2
SUNNY LAKE (HARMON'S POND) L1												
	05/15/95	0.33	152	46	9	46	<2	< 0.20	<30	<10	1510	<2
	05/15/95	3	152	46	9	44	<2	< 0.20	<30	<10	1560	<2
	07/31/95	0.5	143	44	8	28	6	< 0.20	<30	3	1200	4
	07/31/95	2.5	143	44	8	25	6	< 0.20	<30	3	1300	<2
	08/21/95	0.33	125	37	8	20	4	< 0.20	<30	<10	1300	<2
	08/21/95	2.5	125	37	8	20	5	< 0.20	<30	3	1300	<2
TAPPAN LAKE L1												
	06/01/93	0.5	323	85	27	220	<2	< 0.20	<30	<2	105	<2
	06/01/93	7.0	343	88	30	282	<2	< 0.20	<30	<2	168	<2
	08/17/93	0.5	332	77	34		<2	< 0.20	<30	<2	<50	<2
	08/17/93	8.0	358	89	33		4	< 0.20	<30	<2	508	2
	08/19/93	0.5						0.00				
	09/07/93	0.5	335	78	34	282	<2	< 0.20	<30	<2	85	<2
	09/07/93	7.25	361	90	33	236	4	< 0.20	<30	<2	588	<2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
TAPPAN LAKE L2												
	06/01/93	0.5	368	93	33	240	<2	< 0.20	<30	<2	446	<2
	06/01/93	4.0	353	92	30	210	<2	< 0.20	<30	<2	361	<2
	08/17/93	0.5	341	77	36		<2	< 0.20	<30	<2	129	<2
	08/17/93	5.0	353	82	36		3	< 0.20	<30	<2	539	<2
	08/19/93	0.5						0.00				
	09/07/93	0.5	348	80	36	310	<2	< 0.20	<30	<2	132	<2
	09/07/93	4.25	346	79	36	240	<2	< 0.20	<30	<2	460	<2
VAN BUREN LAKE L1												
	05/09/94	0.5	265	68	23	117	<2	< 0.20	<30	4	1790	3
	05/09/94	1.0	265	68	23	111	<2	< 0.20	<30	3	1840	2
	07/25/94	0.5	214	51	21	78	2	< 0.20	<30	4	3370	5
	07/25/94	1.0	215	53	20	77	2	< 0.20	<30	5	4220	4
	08/22/94	0.5	221	62	16	64	<2	< 0.20	<30	4	3410	3
	08/22/94	1.0	216	60	16	59	<2	< 0.20	<30	4	4300	3
WEST RESERVOIR L1												
	05/19/93	1.5	203	60	13	46	6	< 0.20	<30	6	114	<2
	05/19/93	5.0	203	60	13	46	6	< 0.20	<30	<2	103	<2
	08/17/93	0.5	185	51	14		22	< 0.20	<30	<2	<50	<2
	08/17/93	4.0	192	54	14		40	< 0.20	<30	<2	106	<2
	09/09/93	0.5	187	52	14	34	21	< 0.20	<30	<2	102	<2
	09/09/93	4.5	183	50	14	34	18	< 0.20	<30	<2	98	<2
WHITE SULPHUR LAKE L1												
	06/15/93	0.5						0.00				
	06/15/93	15						0.00				
	08/25/93	0.5	195	42	22	101	<2	< 0.20	<30	<2	<50	<2
	08/25/93	15.0	307	72	31	101	4	< 0.20	<30	<2	<50	<2
	09/21/93	0.5	210	46	23	100	<2	< 0.20	<30	<10	<50	<2
	09/21/93	14.5				89		0.00				
WILMINGTON RESERVOIR #1 L1												
	06/07/93	0.5	259	56	29	52	<2	< 0.20	<30	<10		<2
	06/07/93	5.5	273	60	30	37	<2	< 0.20	<30	21		2
	08/31/93	0.5	202	33	29	38	<2	< 0.20	<30	16		<2

Lake	Date	Depth (m)	Hardness (CaCo3)	Calcium (mg/l)	Magnesium (ug/l)	Sulfate (mg/l)	Arsenic (ug/l)	Cadmium (mg/l)	Chromium (ug/l)	Copper (mg/l)	Iron (ug/l)	Lead (ug/l)
	08/31/93	4.5	205	36	28	32	<2	< 0.20	<30	20		<2
	09/28/93	4.5	206	51	19	38	<2	< 0.20	<30	<10	1580	<2
WILMINGTON RESERVOIR #2 L1												
	06/07/93	0.5	243	51	28	46	<2	< 0.20	<30	<10		<2
	06/07/93	7.0	269	60	29	48	<2	< 0.20	<30	12		2
	08/31/93	0.5	198	33	28	38	<2	< 0.20	<30	<10		<2
	08/31/93	5.5	215	40	28	34	2	< 0.20	<30	<10		<2
	09/28/93	0.5	223	38	31	37	<2	< 0.20	<30	<10	68	<2
	09/28/93	5.5	218	38	30	39	<4	< 0.20	<30	<10	90	<2

Appendix Table I-4 Continued

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
ACTON LAKE L1												
	05/31/95	0.5	23		232	<10						
	05/31/95	8.0	257		192	30						
	08/14/95	0.5	10		206	31					10	
	08/14/95	8.0	2310		268	71						
	09/28/95	0.5	63		248	13						
	09/28/95	8.5	6130		293	15						
ALDRICH POND L1												
	05/11/94	0.5			651	<10						
	05/11/94	1.5	50		632	<10						
	07/27/94	0.5			445	<10						
	07/27/94	0.5			442	<10						
	07/27/94	1.25			455	<10						
	08/24/94	0.5			508	<10						
	08/24/94	1.5			496	<10						
AMANN RESERVOIR L1												
	05/03/94	0.5	199		305	<10						
	05/03/94	3.0	241		299	<10						
	05/11/94	0.5									250	
	07/28/94	0.5	605		253	<10					10	
	07/28/94	2.5	617		249	<10						
	09/07/94	0.5	293		296	10				<.2		
	09/07/94	2.5	414		298	20						
	09/13/94	0.5									30	
ATWOOD RESERVOIR L1												
	06/01/93	0.5	97		83	19			<200			
	06/01/93	7.25	645		76	<10			<200			
	08/18/93	0.5	55		92	<10			<200			
	08/18/93	5.0	4030		104	<10			545			

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	08/19/93										10	
	09/07/93	0.5	168		110	<10			<200		10	
	09/07/93	7.75	5450		123	13			920			
ATWOOD RESERVOIR L2												
	08/18/93	0.5	64		94	<10			<200			
	08/18/93	5.0	354		96	<10			410			
	09/07/93	0.5	248		114	14			<200		20	
	09/07/93	4.25	204		110	<10			<200			
BARNESVILLE RESERVOIR #3 L1												
	08/17/93	0.5	17		131	<10			<200			
	08/17/93	13.85	4530		137	<10			<200			
	09/08/93	0.5	27		145	<10			<200		10	
	09/08/93	14	11900		160	<10			<200			
BELLEVUE RESERVOIR #5 L1												
	05/26/93	0.5	<10		129	<10						
	05/26/93	7.5	<10		131	<10						
	08/25/93	0.5	<10		137	<10						
	08/25/93	6.0	283		150	<10						
	09/14/93	0.5	12		148	<10						
	09/14/93	5.5	11		150	<10						
BLUE LIMESTONE PARK QUARRY LAKE L1												
	05/04/94	0.5	27		1390	<10						
	05/04/94	2.0	28		1410	<10						
	05/11/94	0.5									10	
	07/27/94	0.5	109		1410	<10					10	
	07/27/94	2.0	144		1450	<10						
	09/07/94	0.5	78		1400	<10						
	09/07/94	2.0	388		1520	<10						
	09/13/94	1.5									30	
BOWLING GREEN UPGROUND RESERVOIR L1												
	05/10/94	0.5			691	<10						
	05/10/94	7.25	135		678	<10						

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	07/26/94	0.5			895	<10						
	07/26/94	7.25			897	<10						
	08/23/94	0.5			1010	<10						
	08/23/94	7.25			1030	10						
BUCYRUS RESERVOIR #1 L1												
	05/31/95	0.5	88		169	<10				0.2		
	05/31/95	4.0	700		176	<10				0.3		
	08/01/95	0.5	28		130	<10						
	08/01/95	4.0	4000		180	<10						
	08/16/95	0.5	17		153	<10						
	08/16/95	4.0	3470		231	10						
BUCYRUS RESERVOIR #2 L1												
	05/31/95	0.5	42		499	<10				.4		
	05/31/95	3.5	286		449	10				<.2		
	08/01/95	0.5	20		471	<10						
	08/01/95	3.0	2200		541	10						
	08/16/95	0.5	22		556	<10						
	08/16/95	3.0	2540		694	10						
BUCYRUS RESERVOIR #4 L1												
	05/31/95	0.5	<10		816	17				.2		
	05/31/95	9.0	23		801	<10				<.02		
	08/01/95	0.5	<10		668	<10						
	08/01/95	8.0			686	<10						
	08/16/95	0.5	<10		805	<10						
	08/16/95	11			830	<10						
C. J. BROWN LAKE L1												
	06/02/94	0.5	25		501	32						
	06/02/94	11.0	543		472	40						
	08/10/94	1.5	50		438	<10					10	
	08/10/94	11.5	1980		531	<10						
	09/14/94	0.5	29		464	<10						
	09/14/94	11.0	291		455	12						

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
C. J. BROWN LAKE L2												
	06/02/94	0.5	56		502	24					10	
	06/02/94	3.0	105		500	43						
	08/10/94	1.25	77		468	<10						
	08/10/94	1.5	62		445	<10						
	09/14/94	0.25	44		476	<10						
	09/14/94	1.0	91		528	15						
CAMBRIDGE RESERVOIR L1												
	04/26/94	0.5	57		296	<10						
	04/26/94	8.0	1040		324	<10						
	06/08/94	0.5									20	50
	08/09/94	0.5	83		864	<10					250	
	08/09/94	8.5	10300		872	<10					160	
	08/29/94	0.5	73		644	<10						
	08/29/94	8.5	8050			<10						
	09/01/94	0.5									10	40
CEDARVILLE RESERVOIR L1												
	06/01/93	0.25	<10		584	<10						
	06/01/93	2.5	<10		556	30						
	08/30/93	0.5	13	<40		14		42			10	
	08/30/93	2.5	33	<40		14		39				
	09/27/93	0.5	<10		498	17		51	<200			
	09/27/93	2.5	<10		510	31		60	238			
CITY OF DAYTON LAKE #1 L1												
	05/25/94	0.5	19		524	<10						
	05/25/94	21	49		577	<10						
	08/09/94	0.5	10		502	<10					10	
	08/09/94	4.5	37		523	<10						
	09/13/94	0.5	10		491	<10						
	09/13/94	5.0	59		537	<10				<.2		
CLEAR FORK RESERVOIR L1												
	06/01/93	0.5	65		122	<10						

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	06/01/93	6.0	87		240	<10						
	08/24/93	0.5	122		301	<10						
	08/24/93	6.0	3240		321	<10						
	09/15/93	1.5	114		312	<10						
	09/15/93	5.5	128		317	<10						
CLEAR FORK RESERVOIR L2												
	06/01/93	0.5	30		261	<10						
	06/01/93	3.0	28		252	<10						
	08/24/93	0.5	103		306	<10						
	08/24/93	3.0	178		315	<10						
	09/15/93	0.5	132		319	<10						
	09/15/93	2.5	133		322	<10						
CRYSTAL LAKE L1												
	05/17/94	0.5	69		42	<10						
	05/17/94	8.5	2070		56	<10						
	07/18/94	0.5	34		67	<10						
	07/18/94	7.0	4190		84	<10						
	08/24/94	0.5	47		68	<10		30				
	08/24/94	10.0	9000		87	<10		125				
DEER CREEK RESERVOIR L1												
	05/18/94	0.5	263		43	<10						
	05/18/94	5.5	262		31	<10						
	07/14/94	0.5	82		56	<10						
	07/14/94	16.5	5040	<40	77	<10						
	08/22/94	0.5	176		83	21				<.2		
	08/22/94	5.5	4870		89	15				<.2		
DELCO WATER COMPANY LAKE L1												
	05/04/94	0.5	<10		949	<10						
	05/04/94	3.5	<10		960	<10						
	05/11/94	0.5									10	
	07/27/94	0.5	<10		831	16					10	
	07/27/94	4.0	25		840	<10						
	09/07/94	0.5	11			<10				<.2		

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	09/07/94	4.5	59		789	17						
	09/13/94	0.5									10	
EAST FORK LAKE L1												
	06/02/93	0.5	16		88	<10					10	
	06/02/93	7.5	13		79	<10						
	09/02/93	0.5	<10		114	226					10	
	09/02/93	7.5			122	68						
	09/29/93	0.5	56		103	<10		25	<200		10	
	09/29/93	7.0	206		104	<10		36	477			
EAST FORK LAKE L2												
	06/02/93	0.5	27		104	<10					10	
	06/02/93	7.5	491		103	25						
	09/02/93	0.5	23		119	<10					10	
	09/02/93	7.5	937		127	<10						
	09/29/93	0.5	87		107	11		28	<200		10	
	09/29/93	7.0	169		107	<10		41	1710			
EAST RESERVOIR L1												
	05/19/93	0.5	41		121	<10						
	05/19/93	5.5	42		119	<10						
	08/17/93	0.5	27		114	<10						
	08/17/93	5.5	725		128	<10						
	09/09/93	0.5	182		138	<10						
	09/09/93	8.0	2660		146	<10						
ECHO LAKE L1												
	05/24/94	0.5	83		401	56					10	
	05/24/94	2.0	402		490	56						
	07/12/94	0.5	10		<30	<10						
	08/08/94	0.5	135		438	14					85	
	08/08/94	2.0	142		430	14						
	09/12/94	0.25	124		413	34						
	09/12/94	0.5	150		409	23						
	09/12/94	1.75	<10		<30	<10						

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
EVANS LAKE L1												
	05/26/94	0.5	282		526	<10						
	05/26/94	8.5	862		534	<10						
	07/21/94	0.5	18		624	<10						
	07/21/94	8.0	2980		600	117						
	09/01/94	0.5	152		566	11						
	09/01/94	0.5	186		553	40						
	09/01/94	8.5	6570		591	22				<.2		
EVERGREEN LAKE L1												
	05/10/94	0.5			129	<10						
	05/10/94	3.5	1110		122	<10						
	07/26/94	0.5			165	<10						
	07/26/94	3.25			206	<10						
	08/23/94	0.5			173	<10						
	08/23/94	3.5			245	<10						
FORKED RUN LAKE L1												
	06/03/93	0.5	17		93	<10			<200			
	06/03/93	9.0	2070		85	<10			357			
	08/16/93	0.5	13		121	<10			<200			
	08/16/93	8.0	5250		118	<10			242			
	09/09/93	0.5	<10		126	<10			292		10	
	09/09/93	7.5	4830		111	<10			243			
GRAND RIVER WILDLIFE AREA LAKE L1												
	05/16/95	0.5										
	05/16/95	3.0	1070	<40	36	14				<0.2		
	07/31/95	0.5	2100	<40	<30	<10						
	07/31/95	8.0	5650	<40	46	<10						
	08/21/95	0.5	2880		34	<10						
	08/21/95	7.0	3880		45	44						
GUILFORD LAKE L1												
	05/16/94	0.5	47		50	<10						
	05/16/94	6.5	78		52	<10						

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	07/19/94	0.5	46		79	<10						
	07/19/94	7.0	1110		81	<10						
	08/30/94	0.5	122		86	17						
	08/30/94	7.0	2730		93	31				<.2		
HUFFMAN POND (MIAMI CONS. DIST. LAKE) L1												
	05/25/94	0.25	85		611	22					10	
	05/25/94	1.25	89		614	<10						
	08/09/94	0.25	151		585	<10					10	
	08/09/94	1.25	222		601	23						
	09/13/94	0.25	73		449	<10						
	09/13/94	1.0	62		457	<10				<.2		
LAKE LORETTA L1												
	05/16/95	0.5	51		31	<10				.2		
	05/16/95	7.0	1730		34	<10				<.2		
	10/24/95	0.5	749		34	18						
	10/24/95	3.5	729		37	18						
LAKE ROMONA L1												
	05/16/95	0.5	146		31	11				.2		
	05/16/95	4.0	420		46	14				<.2		
	09/15/95	0.5	110		37	<10						
	09/15/95	4.0	3500		65	<10						
	10/24/95	0.5	334		34	11					60	
	10/24/95	3.5	403		30	13						
LAKE RUPERT L1												
	05/10/95	0.5	408		96	14				<.2		
	05/10/95	7.0	<.2		83	11						
	08/22/95	0.5	7840		69	<10						
	08/22/95	6.5	17800		82	<10						
	09/12/95	0.5	914		65	<10						
	09/12/95	7.0	26000		90	<10						
LAKE SNOWDEN (MARGARET CR. C.D. LAKE #2) L1												
	05/08/95	0.5	104		102	<10				<.2		

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	05/08/95	11.5	4270		100	<10				<.2		
	08/21/95	0.5	40		90	<10						
	08/21/95	10.5	8370			<10						
	09/11/95	0.5	183		95	<10						
	09/11/95	10.5	8440		110	<10						
LAMPSON RESERVOIR L1												
	05/22/95	0.16	38		61	15				<0.2		
	05/22/95	3.0	38		61	15						
	08/01/95	0.16	31	<40	56	<10						
	08/01/95	2.6	76	<40		<10						
	08/24/95	0.16	71		59	25						
	08/24/95	2.6	77		80	24						
LONG LAKE L1												
	06/02/93	0.5	74		131	<10						
	06/02/93	7.0	420		137	<10						
	08/26/93	0.5	44		144	<10						
	08/26/93	16	4850		197	<10						
	09/08/93	0.5	120		146	<10						
	09/08/93	12	5480		200	10						
LONG LAKE L2												
	06/02/93	0.5	66		133	<10						
	06/02/93	5.0	131		136	<10						
	08/26/93	0.5	66		130	<10						
	08/26/93	3.0	58		138	21						
	09/08/93	0.5	107		141	14						
	09/08/93	4.5	116		139	<10						
MAPLE GROVE LAKE L1												
	05/11/94	0.5	182		498	<10					622	
	05/11/94	1.0	190		494	<10						
	07/28/94	0.5	303		376	15					10	
	07/28/94	1.5	117									
	09/07/94	0.5	141		473	<10						
	09/07/94	1.9	244		467	19						

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	09/13/94	0.5									10	
MAYSVILLE REG. WATER DIST. LAKE L1												
	04/28/94	0.5	2980		315	<10						
	04/28/94	8.5	<10		207	<10			<200			
	06/08/94	0.5									15	185
	08/09/94	0.5	16		227	<10						
	08/09/94	8.0	8240		437	<10						
	08/30/94	0.5	15		201	<10						
	08/30/94	7.5	1340		352	<10						
	09/01/94	0.5									10	10
MEANDER CREEK RESERVOIR L1												
	05/25/94	0.5	50		75	<10						
	05/25/94	6.5	111		76	17						
	07/20/94	0.5	32		101	<10						
	07/20/94	7.5	1720		101	<10						
	08/23/94	0.5	80	<40		14		17		<.2		
	08/23/94	8.0										
MICHAEL J. KIRWIN RESV. (WEST BR. RESV.) L1												
	05/17/94	0.5	18		47	<10						
	05/17/94	7.0	24		49	<10						
	07/18/94	0.5	20		82	<10						
	07/18/94	7.0	42		81	<10						
	08/24/94	0.5	23		82	<10		22				
	08/24/94	14	2220		83	<10		35				
MT. GILEAD LAKE L1												
	05/03/94	0.5	71		520	<10						
	05/03/94	3.0	133		519	<10						
	05/11/94	0.5									20	
	05/11/94	4.5										
	07/28/94	0.5	115		452	<10					10	
	07/28/94	2.5	230		489	<10						
	09/07/94	0.5	145		634	12				<.2		
	09/07/94	3.0	236		618	15						

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	09/13/94	0.5									10	
NEW CONCORD RESERVOIR L1												
	04/26/94	0.5	18		96	<10						
	04/26/94	8.0	1400		124	<10						
	06/08/94	0.5									10	10
	08/09/94	0.5	22		108	<10						
	08/09/94	8.25	3850		145	<10						
	08/30/94	0.5	37			<10						
	08/30/94	15	706		101	<10						
	09/01/94	0.5									20	10
NEW LEXINGTON RESERVOIR #1 (New) L1												
	05/09/95	0.5	86		126	<10				<.2		
	05/09/95	9.0	2850		132	14				<.2		
	08/21/95	0.5	28		89	<10						
	08/21/95	9.0	3920		123	<10						
	09/11/95	0.5	293		94	<10						
	09/11/95	9.0	4190		125	<10						
NIMISILA RESERVOIR L1												
	08/17/93	0.5	22		88	<10						
	08/17/93	5.5	1650		102	<10						
	09/08/93	0.5	91		104	19						
	09/08/93	7.0	245		105	10						
NORTH BALTIMORE RESERVOIR L1												
	05/09/94	0.5			1680	<10						
	05/09/94	4.5	52		1710	15						
	07/25/94	0.5			1120	<10						
	07/25/94	5.0			139	<10						
	08/22/94	0.5			1190	<10						
	08/22/94	5.0			1240	71						
NORTH RESERVOIR L1												
	06/02/93	0.5	120		87	<10						
	06/02/93	2.0	118		87	<10						

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	08/26/93	0.5	<10		114	<10						
	08/26/93	3.0	201		116	13						
O'SHAUGHNESSY RESERVOIR L1												
	05/15/95	0.5	41		1528	23				<.2		
	05/15/95	21	221		2750	13				<.2		
	09/14/95	0.5	116		1880	25						
	09/14/95	16	861		1480	22						
	10/25/95	1.5	56		2120	19						
	10/25/95	15	190		2450	26						
OAK THORPE RESERVOIR L1												
	06/08/93	0.5	66		279	<10					10	
	06/08/93	4.5	1760		274	<10						
	08/24/93	0.5	56		357	<10						
	08/24/93	5.0	4060		475	<10						
	08/27/93	0.5										
	09/22/93	0.5	192		365	<10						
	09/22/93	5.5	998		373	<10						
OPOSSUM CREEK LAKE #1 L1												
	05/23/95	0.5	<10		105	<10						
	05/23/95	4.25	855		122	48						
	08/17/95	0.5	21		90	50					10	
	08/17/95	3.5	169		84	25						
	09/27/95	0.5	31		77	<10						
	09/27/95	3.5	35		79	<10						
OPOSSUM CREEK LAKE #2 L1												
	05/23/95	0.5	8		68	<10						
	05/23/95	2.5	40		71	<10						
	08/17/95	0.5	25		50	<10					10	
	08/17/95	5.4	148		57	14						
	09/27/95	0.5	<10		41	<10						
	09/27/95	2.5	28		42	<10						

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
PLEASANT HILL LAKE L1												
	05/27/93	0.5	81		179	36						
	05/27/93	11	707		153	<10						
	08/23/93	0.5	128		205	<10						
	08/23/93	11	3040		237	10						
	09/16/93	0.5	170		208	<10						
	09/16/93	7.0	181		208	12						
PLEASANT HILL LAKE L2												
	05/27/93	0.5	68		174	<10						
	05/27/93	3.0	87		179	<10						
	08/23/93	0.5	87		203	<10						
	08/23/93	3.0	93		201	<10						
	09/16/93	0.5	105		211	13						
	09/16/93	3.5	163		208	15						
RACCOON CREEK RESERVOIR L1												
	05/30/95	0.5	20		144	<10				.2		
	05/30/95	5.0	30		146	<10				0.2		
	08/02/95	0.5	<10		121	<10						
	08/02/95	4.5	26		128	<10						
	08/17/95	0.5	<10		155	16						
	08/17/95	5.5	400		146	<10						
RICHWOOD PARK LAKE L1												
	05/15/95	0.5	43		224	12				.78		
	05/15/95	2.5	<.2		223	<10						
	09/14/95	0.5	37		201	<10			<200			
	09/14/95	2.0	50		209	<10						
	10/23/95	0.5	55		195	114						
	10/23/95	2.5	54		191	35						
RIO GRANDE RESERVOIR L1												
	05/10/95	0.5	36		62	15				<.2		
	05/10/95	7.0	1930		53	<10				<.2		
	08/22/95	0.5	25		53	<10						

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	08/22/95	6.5	10600			<10						
	09/12/95	0.5	119		53	<10						
	09/12/95	7.0	15300		69	11						
ROAMING ROCK LAKE L1												
	05/23/95	0.5	57			72				0.2		
	05/23/95	10	440		68	<10						
	08/01/95	0.5	20	<40	62	<10						
	08/01/95	11	924	<40	59	<10						
	08/24/95	0.5	31		74	10						
	08/24/95	8.0	1100		75	14						
ROCK MILL LAKE L1												
	06/09/93	0.5										
	06/09/93	4.0										
	08/26/93	0.5										
	08/26/93	4.0	7160		639	<10						
	09/21/93	0.5	93		607	<10						
	09/21/93	3.5	231		656	<10						
SALT FORK RESERVOIR L1												
	04/25/94	0.5	1.57		87	<10						
	04/25/94	10	1040		94	<10						
	04/25/94	10										
	08/08/94	0.5	7570		129	<10						
	08/08/94	10	116		124	<10						
	08/29/94	0.5	135		110	<10						
	08/29/94	10	9420		117	<107						
SALT FORK RESERVOIR L2												
	04/25/94	2.0	165		135							
	04/27/94	1.5	80		129	<10						
	06/08/94	1.5									500	280
	08/08/94	0.5	242		197	<10						
	08/08/94	2.5	609		201	<10						
	08/29/94	0.5	176		165	<10						
	08/29/94	2.5	182		154	<10						

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	09/01/94	0.5									30	30
SEBALD POND #1 L1												
	05/23/95	0.5	125		108	<10						
	05/23/95	2.0	365		114	44						
	08/15/95	0.5	315		102	32					10	
	08/15/95	2.0	83		98	20						
	09/26/95	0.5	433		163	31						
	09/26/95	1.0	956			29						
SHELBY RESERVOIR #1 L1												
	05/25/93	0.5	38		406	<10						
	05/25/93	3.5	220		428	<10						
	08/26/93	0.5	<10		632	<10						
	08/26/93	4.0	48		676	<10						
	09/13/93	0.5	104		631	<10						
	09/13/93	4.0	107		628	<10						
SHELBY RESERVOIR #2 L1												
	05/25/93	0.5	<10		497	<10						
	05/25/93	7.0	<10		490	<10						
	08/26/93	0.5	<10		532	<10						
	08/26/93	4.0	17		523	<10						
	09/13/93	0.5	14		532	<10						
	09/13/93	3.5	14		527	<10						
STAGES POND L1												
	06/16/93	0.5										
	06/16/93	2.0										
	08/24/93	0.5	726		198	<10					20	
	08/24/93	2.0	127		189	<10						
	09/21/93	0.5	244		196	<10						
	09/21/93	1.5	252		189	11						
SUNNY LAKE (HARMON'S POND) L1												
	05/15/95	0.33	63		129	15				<.2		
	05/15/95	3	65		130	17				<.2		

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	07/31/95	0.5	108		95	10						
	07/31/95	2.5	136	<40	96	11						
	08/21/95	0.33	79		116	22						
	08/21/95	2.5	174		114	10						
TAPPAN LAKE L1												
	06/01/93	0.5	53		534	<10			<200			
	06/01/93	7.0	521		550	<10			<200			
	08/17/93	0.5	<10		457	<10			<200			
	08/17/93	8.0	1870		468	<10			<200			
	08/19/93	0.5									10	
	09/07/93	0.5	84		501	<10			<200		10	
	09/07/93	7.25	2450		515	<10			<200			
TAPPAN LAKE L2												
	06/01/93	0.5	157		486	<10			<200			
	06/01/93	4.0	136		471	<10			<200			
	08/17/93	0.5	47		489	<10			<200			
	08/17/93	5.0	254		499	<10			327			
	08/19/93	0.5									50	
	09/07/93	0.5	58		527	<10			<200		10	
	09/07/93	4.25	90		512	<10			296			
VAN BUREN LAKE L1												
	05/09/94	0.5			793	<10						
	05/09/94	1.0	119		821	<10						
	07/25/94	0.5			560	<10						
	07/25/94	1.0			555	<10						
	08/22/94	0.5			526	110						
	08/22/94	1.0			491	22						
WEST RESERVOIR L1												
	05/19/93	1.5	203		115	<10						
	05/19/93	5.0	189		116	<10						
	08/17/93	0.5	69		122	<10						
	08/17/93	4.0	1050		125	<10						
	09/09/93	0.5	206		132	<10						

Lake	Date	Depth (m)	Manganese (ug/l)	Nickel (ug/l)	Strontium (ug/l)	Zinc (mg/l)	Selenium (ug/l)	Barium (ug/l)	Aluminum (ug/l)	Mercury (ug/l)	F. Coliform (#/100ml)	F. Strept (#/100ml)
	09/09/93	4.5	187		130	<10						
WHITE SULPHUR LAKE L1												
	06/15/93	0.5										
	06/15/93	15										
	08/25/93	0.5	<10		931	<10					10	
	08/25/93	15.0	1010		1520	<10						
	09/21/93	0.5	<10		1020	<10						
	09/21/93	14.5										
WILMINGTON RESERVOIR #1 L1												
	06/07/93	0.5	16		433	<10					10	
	06/07/93	5.5	408		457	<10						
	08/31/93	0.5	<10		454	<10					10	
	08/31/93	4.5	101		447	<10						
	09/28/93	4.5	234		537	11		80	1190			
WILMINGTON RESERVOIR #2 L1												
	06/07/93	0.5	<10		413	17					10	
	06/07/93	7.0	403		462	34						
	08/31/93	0.5	<10		456	<10					10	
	08/31/93	5.5	229		490	<10						
	09/28/93	0.5	<10		440	17		57	<200			
	09/28/93	5.5	<10		439	<10		55	<200			

Appendix J.
Consumption Advisories

Sportfish Consumption Advisory Information

Fish consumption advisories are issued to notify the public of contaminated fisheries and present information to assist the public in making good choices regarding consumption of fish. Fish consumption advisories identify the water body impacted, the extent of the advisory (*e.g.*, an upstream and downstream river mile and/or an associated geographic feature identified), the species involved, the chemical(s) of concern, and the reasons for the advisory. Primary contact advisories (wading, swimming, etc.) which are generally issued as a result of contaminated sediments may result in recommended restriction of wading and swimming.

Advisories are issued by the ODH. Advisory information is disseminated by ODH or a local health department via media announcements (news releases to wire services, newspapers, television, and radio). The advisory area may be posted with signs at public access points. In addition, ODNR distributes sportfish advisory information in a publication to anyone purchasing an Ohio fishing license.

Fish consumption advisories that have been issued can be rescinded if new data indicate that fish tissue contaminant concentrations are below health protection values for two consecutive sampling events. To date, no advisories issued in Ohio have been rescinded, although some advisories are always under investigation for possible repeal.

Current Sportfish Advisories in Ohio

Because of low levels of mercury contamination in nearly all samples collected, there is a STATEWIDE advisory for women of childbearing age and children age 6 and younger of no more than ONE MEAL PER WEEK OF ANY SPECIES FROM ANY WATERBODY

Composition

Currently, there are 37 sportfish advisories issued for Ohio waters (Table 2-1). Sportfish advisories have been issued for 31 river/stream reaches (including the Ohio River), 5 lakes (including Lake Erie), and one recreational pond. There are 12 sportfish advisories recommending no consumption of fish that are caught. The remaining advisories recommend limiting the consumption of specific fish species or specific sizes of species (including Lake Erie and the Ohio River) based on the level of contaminants as summarized below. *Group 1* recommendations present no restrictions upon eating fish. *Group 2* advisories urge eating only 1 meal per week, or 52 meals per year of listed fish. *Group 3* advisories urge eating 1 meal per month, or 12 meals per year of listed fish. *Group 4* advisories urge eating only 1 meal every 2 months for listed fish, or 6 meals per year. *Group 5* advisories urge that listed fish **not** be eaten at all (**Do Not Eat**).

Table J-1. Fish and primary contact advisories issued by ODH and local health departments for Lake Erie and Ohio lakes and ponds (■ = yes).

Waterbody	Location	Advisory		Fish Species	Group	Pollutant
		Fish	Contact			
Lake Erie	All waters			Yellow perch	1	None
		■		Walleye Freshwater drum Chinook salmon <19"	2	PCBs
		■		White perch Steelhead Coho salmon Chinook salmon ≥19" Smallmouth bass White Bass Carp < 20"	3	
		■		**Lake trout** **Channel catfish** **Carp > 20"**	4	
	Maumee Bay	■		**Carp, all sizes**	4	PCBs
		■		***Channel catfish***	***5***	
Mogodore Reservoir	All Waters	■		Largemouth Bass	***3***	Mercury
Eastwood Lake	All waters	■		Common Carp	***3***	PCBs
Lake Nesmith	All waters	■		Carp	***5***	PCBs
				Catfish		
Summit Lake	All waters	■		Carp	***5***	PCBs
				Catfish		

PCBs = Polychlorinated Biphenyls

Appendix K — REFERENCES

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