

**NUTRIENT CRITERIA FOR FLORIDA LAKES:
A COMPARISON OF APPROACHES**

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INTRODUCTION

The eutrophication of surface waters by excess nutrients is a growing problem worldwide. It remains the largest single cause of water quality degradation in U.S. lakes and estuaries, in spite of extensive and substantial improvements in water quality due to the Clean Water Act (U.S. EPA, 1996; Vitousek *et al.*, 1997; Carpenter *et al.*, 1998). While nutrients are essential to life and ecosystem functions, excessive nutrients can cause nuisance algal and plant growth, oxygen depletion, loss of water clarity, loss of desirable species, loss of biodiversity, flavor effects on drinking water, increased probability of human and animal pathogens, and other water quality impairments.

In recognition of the continuing water quality degradation ascribed to nutrient enrichment, the U.S. Environmental Protection Agency (U.S. EPA) is developing regional nutrient criteria guidelines. The EPA recognizes that a single set of national nutrient criteria is not realistic, but that nutrient criteria should be developed on a regional or watershed basis (U.S. EPA, 1998). The EPA has identified five components for nutrient criteria development in lakes: reference sites, predictive models, historical data, paleolimnology, and regional expert panels (Gibson *et al.*, 2000). The EPA recommends a minimum of two components to develop criteria (an expert panel and one other).

The principal objective of this project was to begin the technical process of developing effective nutrient criteria for Florida lakes. The specific objectives were to test several different methods proposed in EPA nutrient criteria guidance documents (Gibson *et al.*, 2000), to make preliminary nutrient criteria recommendations for natural lakes in Florida, and to develop some practical linkages between biological criteria and nutrient criteria.

NUTRIENT CRITERIA AND BIOLOGICAL ASSESSMENT

The Florida Department of Environmental Protection (Florida DEP) has developed a lake bioassessment protocol to add to the monitoring program's assessment "toolbox" of physical, chemical, and biological techniques. The protocol followed the recommendations of the EPA's guidance document for nutrient criteria in lakes and reservoirs (Gibson *et al.*, 2000). Florida DEP sampled more than 200 lakes between 1993 and 1997, including more than 100 relatively unimpacted reference lakes, and the remainder subject to human impacts (agricultural runoff, urban runoff, and sediment contamination) ranging from moderate to severe. A geographic regionalization based on topography, water chemistry, lake origin, lake hydrology, and soils identified forty-seven lake regions in Florida (Griffith *et al.*, 1997).

A variety of exploratory data analyses suggested that the strongest organizing forces on the biota of the relatively undisturbed lakes were water color and pH (Gerritsen *et al.*, 2000). On the basis of these results, the sampled lake regions were aggregated into five lake biological classes, such that the lakes within each class have similar biological assemblages. The lake classes were divided based on water color (greater than or less than 20 platinum cobalt units [PCUs]), pH (greater than or less than pH 6.5), and

ecoregion for acid clear lakes only (Omernik, 1987; Region 65 in northwest Florida and Region 75 in peninsular Florida).

A previous comparison of reference and impacted lakes showed that nutrient loading was the dominant, but not exclusive, stressor in Florida lakes (Gerritsen *et al.*, 2000; Gerritsen *et al.*, 2002a). Traditional trophic state response measures (Secchi transparency, chlorophyll) were responsive indicators of nutrient enrichment in colored and alkaline lakes. The development of nutrient criteria for lakes is aided by a characterization of the biological potential of lakes in the absence of anthropogenic stress, given that unstressed lakes also vary widely in trophic state. The biological potential is characterized by biocriteria, and hence the process and the data can also be applied to developing nutrient criteria.

In essence, nutrient criteria can be developed from the perspective of protecting or managing towards “minimally impacted” background concentrations, or for managing towards those concentrations most protective of natural biological integrity. Both perspectives can lead to different nutrient criteria endpoints if lakes can sustain a certain increase in nutrient concentration without a change in biological condition.

TECHNICAL APPROACH

We used a number of different approaches to define nutrient criteria for Florida lakes that encompass both perspectives — identifying least-impacted background concentrations and identifying nutrient concentrations protective of biological integrity. The first three approaches discussed here refer to methods used to identify least-impacted background nutrient concentrations, while the last three refer to approaches designed to identify concentrations protective of biological condition.

The identification and sampling of biological reference lakes allowed an extension of the concept and the data to nutrient criteria development (Gibson *et al.*, 2000). As a result, our first approach was to look at statistical distributions of direct nutrient enrichment indicators (total phosphorus [TP] and total nitrogen [TN] concentration), as well as indirect nutrient indicators (chlorophyll concentration and Secchi depth values). We analyzed these values in reference lakes in each of the five lake classes described above as a preliminary approach for defining reference nutrient criteria (Appendix 1). We assumed that these reference lakes represented the minimally impacted condition within each lake class and, therefore, could be used to define the expected nutrient conditions.

In the second approach, we used paleolimnological estimates of historical lake nutrient concentrations. Paleolimnological analyses were carried out on several lakes throughout the state in a separate project (Whitmore and Brenner, 2002; Whitmore and Riedinger, 2002). Diatoms have different taxa-specific nutrient requirements, with certain taxa typical of high-nutrient environments and others typical of low-nutrient environments; therefore, the composition of diatoms changes along nutrient gradients. In addition, diatoms have species-specific siliceous frustules that resist decomposition and are preserved in the sediments of lakes through time. Cores of the lake bottom contain a

history of the lake in sedimentary layers. The different layers are dated and the diatoms from each stratum are examined. The different taxa present are used to infer past climatic and chemical environments. The idea underlying this approach is that nutrient concentrations from before the industrial revolution might constitute appropriate reference conditions. These reference conditions then represent minimally-stressed conditions as recommended by EPA (Gibson *et al.*, 2000). Criteria in turn are based on reference conditions, but criteria are not required to be equivalent to reference conditions (Gibson *et al.*, 2000). Two different models (TROPH1 and WACALIB) were used to estimate historical TP concentrations (Appendix 2, Whitmore and Brenner, 2002). We used the data from Whitmore and Brenner report to estimate average historical TP concentrations for each lake type.

In the third approach, we attempted to use the morphoedaphic index (MEI, the ratio of alkalinity or conductivity to lake depth) to estimate background phosphorus concentrations (Ryder *et al.*, 1974; Vighi and Chiaudani, 1985; Gibson *et al.*, 2000). Dissolved solids and lake depth have been shown to be significant and successful predictors of fish production in lakes, especially combined in the MEI (Ryder *et al.*, 1974). Since secondary production is often limited by primary production and, therefore, ultimately by nutrient supply, the MEI was adapted to predict phosphorus concentrations for lakes based strictly on alkalinity or conductivity and depth (Vighi and Chiaudani, 1985). Theoretically, the relationships should predict the background loading of phosphorus to lakes in the absence of cultural nutrient enrichment and could provide a measure of the concentration of phosphorus to which lakes could be lowered to prevent excess plant growth (Vighi and Chiaudani, 1985). We calculated this metric for reference lakes in the Florida DEP database using conductivity or alkalinity. Since we did not have data on average lake depth, we used area as a surrogate.

In the fourth approach, we derived relationships between the trophic lake condition index (tLCI) (Gerritsen *et al.*, 2000) and nutrient concentrations for each lake class. The tLCI combines chlorophyll and Secchi depth data into a simple measure of biological condition, and was plotted against nutrient concentrations for lakes in each region. For this analysis, we looked at all the lakes in the Florida DEP database as well as the database used for the lake classification work in Florida (Appendix 1, Griffith *et al.*, 1997). As a result, our analysis includes both reference and nonreference lakes for which we had nutrient, chlorophyll, and Secchi data as well as pH and color data. Loess regression (based on a nearest neighbor smoothing function) was used to describe the relationship between nutrient concentration and tLCI (SPSS Inc., 2001). We then identified where along that relationship the 25th percentile of reference lake tLCI values fell in terms of nutrient concentration. In this approach, instead of using a statistical distribution of nutrient concentrations from reference sites per se, we used the biological condition of reference lakes to infer nutrient concentrations consistent with that condition.

In the fifth approach, we attempted to model chlorophyll and Secchi depth in each lake class using multiple linear regression and a number of chemical constituents. We used TP, TN, alkalinity, pH, lake area, and color data from reference and nonreference lakes to

predict chlorophyll and Secchi depth in each lake class. We then used reference lake concentrations of the predictor variables to predict reference criteria for chlorophyll and Secchi depth.

In the last approach, we used contour plots of TP, TN, and chlorophyll from all sites in each lake class to identify nutrient limitation and predict chlorophyll concentrations in reference lakes. The stoichiometric requirement of algae is approximately a molar ratio of nitrogen to phosphorus of 16:1. By plotting this line on the contour plots along with the point of average reference lake nutrient concentrations, we were able to estimate the average nutrient limitation for reference lakes in each lake class. In addition, we were able to estimate an expected range of chlorophyll concentrations for those reference lakes.

Chemical data were transformed as necessary to meet assumptions of normal distribution and constant variance for statistical analyses.

RESULTS AND DISCUSSION

Approach 1: Reference lake distributions

In the first analysis we looked at statistical distributions of a priori designated reference lakes in each lake class. Reference criteria were defined by Florida DEP biologists and were used to designate a set of reference lakes for each lake class in the lake survey database (Gerritsen *et al.*, 2000; Gerritsen *et al.*, 2002b). We looked at mean, standard deviation, 25th, and 75th percentile values for lake TP, TN, chlorophyll, Secchi depth, and tLCI values in these lake classes (Table 1, Figure 1). The 75th percentile of reference waterbody concentration is recommended in setting criteria because this level is most protective of the diversity of natural trophic lake types within a region (Gibson *et al.*, 2000).

Based on the 75th percentile, the recommended TP criteria would be 10 $\mu\text{g/L}$ for acid and alkaline clear lakes and 42 and 73 $\mu\text{g/L}$ for acid colored and alkaline colored lakes, respectively (Table 1). It should be mentioned that 10 $\mu\text{g/L}$ appeared to be the detection limit for much of the lake water analysis for this database. Therefore, had lower detection limits been available, the 75th percentile may have been substantially lower than the 10 $\mu\text{g/L}$ reached as a result of this analysis. For TN, the 75th percentile concentrations were 330 $\mu\text{g/L}$ in acid clear lakes in Region 65, 470 $\mu\text{g/L}$ in acid clear Region 75 lakes, 910 $\mu\text{g/L}$ in acid colored lakes, 750 $\mu\text{g/L}$ in alkaline clear lakes, and 1,110 $\mu\text{g/L}$ in alkaline colored lakes. For chlorophyll concentrations, the 75th percentiles were 8 $\mu\text{g/L}$ in acid clear Region 65 lakes, 6 $\mu\text{g/L}$ in acid clear Region 75 lakes, 12 $\mu\text{g/L}$ in acid colored lakes, 8 $\mu\text{g/L}$ in alkaline clear lakes, and 13 $\mu\text{g/L}$ in alkaline colored lakes. Finally, for Secchi depth, the 25th percentile was used, since Secchi depth is assumed to increase with water quality. These values were 3.3 m in acid clear Region 65 lakes, 1.5 m in acid clear Region 75 lakes, 0.7 m in acid colored lakes, 1.8 m in alkaline clear lakes, and 0.9 m in alkaline colored lakes.

Table 1. Total phosphorus (TP) and total nitrogen (TN) concentrations ($\mu\text{g/L}$), chlorophyll (Chl, $\mu\text{g/L}$), Secchi depth (m), and trophic lake condition index (tLCI) values from reference lakes in each of the Florida lake types. Values shown are mean (± 1 standard deviation) and the 25th and 75th percentiles, respectively, in parentheses.

Lake Class	Measure				
	TP	TN	Chl	Secchi	tLCI
Acid Clear					
Region 65	11 \pm 4 (10,10)	231 \pm 137 (110,330)	5.1 \pm 6.8 (1.0,8.0)	4.2 \pm 1.4 (3.3,5.0)	89 \pm 11 (83,100)
Region 75	12 \pm 4 (10,10)	336 \pm 221 (110,470)	3.0 \pm 2.8 (1.0,5.6)	3.2 \pm 2.1 (1.5,4.1)	87 \pm 11 (76,99)
Acid colored	44 \pm 67 (10,42)	834 \pm 489 (530,910)	9.0 \pm 10.9 (2.1,11.6)	1.2 \pm 0.7 (0.7,1.5)	70 \pm 12 (62,79)
Alkaline Clear	12 \pm 7 (10,10)	670 \pm 232 (540,750)	4.4 \pm 3.5 (1.0,7.5)	2.7 \pm 1.1 (1.8,3.5)	84 \pm 9 (74,92)
Alkaline colored	42 \pm 38 (10,73)	893 \pm 390 (650,1110)	9.9 \pm 10.6 (2.3,12.5)	1.4 \pm 0.7 (0.9,1.8)	71 \pm 14 (60,83)

These concentrations and depths were based on the statistical distribution among reference lakes in each region. Since they are percentile values, they will be affected by sample size, and differences in sample size will affect how representative these values were of the true distribution within each lake class. Assuming that adequate and representative samples were taken in each lake class, these values would not be expected to change substantially.

In general, values were lower for clear lakes than for colored lakes and lower for acid lakes than alkaline lakes. This may be due to a number of factors. Greater light limitation in colored lakes may reduce primary production and, therefore, nutrient uptake, resulting in greater ambient nutrient concentrations. The organic acids responsible for lake color may also bring a significant amount of chemically bound nutrients into colored lakes. These nutrients can subsequently be released through a number of potential chemical reactions and become available (Bushaw *et al.*, 1996).

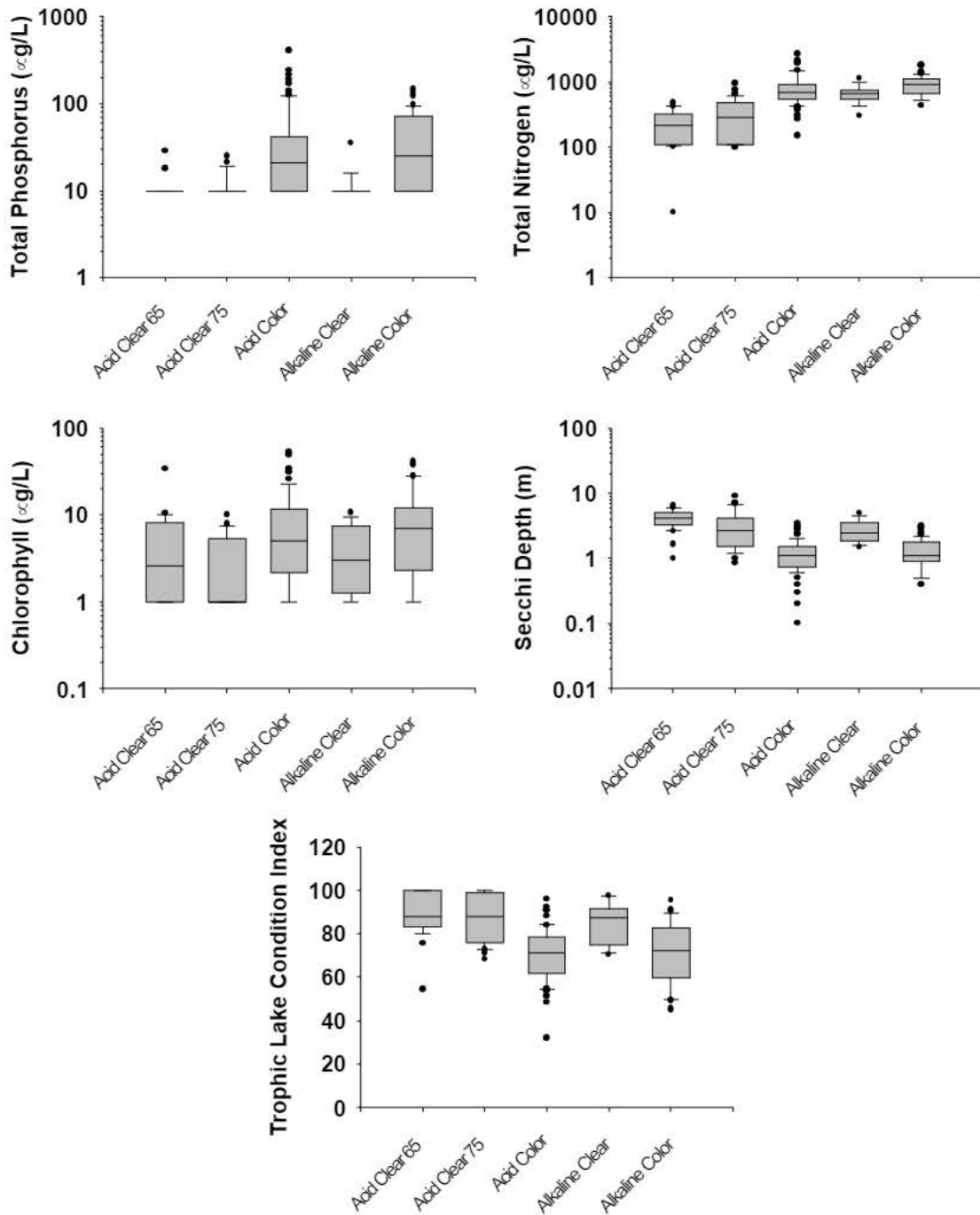


Figure 1. Box and whisker plots of nutrient concentrations, chlorophyll, Secchi depth, and trophic lake condition index for reference lakes in each lake class.

Approach 2: Paleolimnological analysis

In a separate project (Whitmore and Brenner, 2002; Appendix 2), benthic cores were taken from several Florida lakes by paleolimnological analyses, to estimate historical phosphorus concentration. Many of the same lakes were sampled as part of the Florida DEP lake sampling and Florida lake classification studies (Griffith *et al.*, 1997). Two different models TROPH1 and WACALIB for recreating past chemistry had been used (explained in Whitmore and Brenner, 2002). Using the model prediction from Whitmore and Brennan, we calculated historical median and mean lake TP concentrations for each of the lake classes (Table 2). The models gave historical phosphorus concentrations around 4 $\mu\text{g/L}$ for acid clear Region 65 lakes with the TROPH1 model, but there were insufficient data to calculate historical concentrations with the second model.

Table 2. Predicted historical total phosphorus concentration ($\mu\text{g/L}$) for lakes of Florida based on paleolimnological data in the five different lake classes (Whitmore and Brenner, 2002). The first value is median lake total phosphorus concentration, and the value in parentheses is the average.

Lake Class	<i>Predicted Total Phosphorus Concentration</i>			
	<u>TROPH1</u>	N	<u>WACALIB</u>	N
Acid Clear				
Region 65	6 (5)	7	---	0
Region 75	67 (67)	2	45 (45)	2
Acid colored	17 (20)	7	41 (41)	2
Alkaline Clear	22 (25)	10	33 (31)	8
Alkaline colored	32 (44)	34	47 (44)	33

Acid clear lakes in Region 75 had an estimated phosphorus concentration of 67 $\mu\text{g/L}$ using the TROPH1 model and 45 $\mu\text{g/L}$ using the WACALIB model (Table 2). These values were significantly higher than current reference lake concentrations, but note that the sample size (N=2) was insufficient to have any confidence in these estimates. Acid clear lakes are difficult to sample for paleolimnological analysis because of low productivity and poorer preservation (Whitmore, personal communication). More acid clear lake samples would improve confidence in estimates for this lake type and perhaps explain the very high estimates for P using this approach. Acid colored lakes had a mean estimated historical phosphorus concentration of 17 $\mu\text{g/L}$ using TROPH1, but there were insufficient data to estimate a mean concentration using WACALIB. There were more data available for alkaline lakes, and the mean estimated historical phosphorus concentration for alkaline clear lakes was 31 $\mu\text{g/L}$ using the TROPH1 model and 33 $\mu\text{g/L}$

using the WACALIB model. For alkaline colored lakes, the mean estimated historical concentrations were 32 $\mu\text{g/L}$ using the TROPH1 model and 47 $\mu\text{g/L}$ using the WACALIB model.

Interestingly, the concentration estimates for alkaline colored lakes were much lower than the 75th percentile value estimated from modern reference lake chemistry (Table 1). In addition, there was sufficient replication to be relatively more confident in the estimate derived. These results suggest that the modern reference lake dataset may include lakes affected, to a degree, by human disturbance, albeit less than culturally eutrophic lakes. Even so, the inclusion of lakes with chemistry altered by human activity in the reference database may have contributed to the higher 75th percentile value observed using the first approach.

The paleolimnological data, while a smaller sample than the reference lake database, certainly suggest that historical nutrient concentrations in alkaline colored lakes were lower than the current reference 75th percentiles indicate. This analysis also suggests that more paleolimnological analyses might improve the determination of background nutrient criteria, if undisturbed, pre-settlement conditions are targeted. More analyses might also help explain the discrepancies between the values derived with this approach and the reference lake approach, given that sample sizes for most lake types were too small. In addition, we are unaware of the criteria used to select lakes for the paleolimnological analyses, and they may have been different for those used in the general lake survey study. Any future paleolimnological sampling would have to be consistent with the design criteria used to identify representative lakes as part of the general Florida lake nutrient criteria program.

Approach 3: Morphoedaphic indexes

The third approach involved using the MEI to infer phosphorus concentration from established relationships between the ratio of lake depth to alkalinity or conductivity and lake phosphorus concentrations (Vighi and Chiaudani, 1985). These models have been used to predict phosphorus in the absence of human nutrient loading. We plotted total lake phosphorus against the MEI using alkalinity or conductivity for reference lakes in the Florida DEP database (Figure 2). There was no significant relationship between the variables, suggesting little or no ability to predict background phosphorus concentration using this method. This may have been due, in part, to the fact that we were forced to use lake area in place of lake depth due to a lack of available data. Had there been an established relationship between lake area and depth across the state, we might have estimated lake depth from area. However, there are a variety of lake types in Florida that vary considerably in their width-to-depth ratios, making any simple estimate of depth from area impossible.

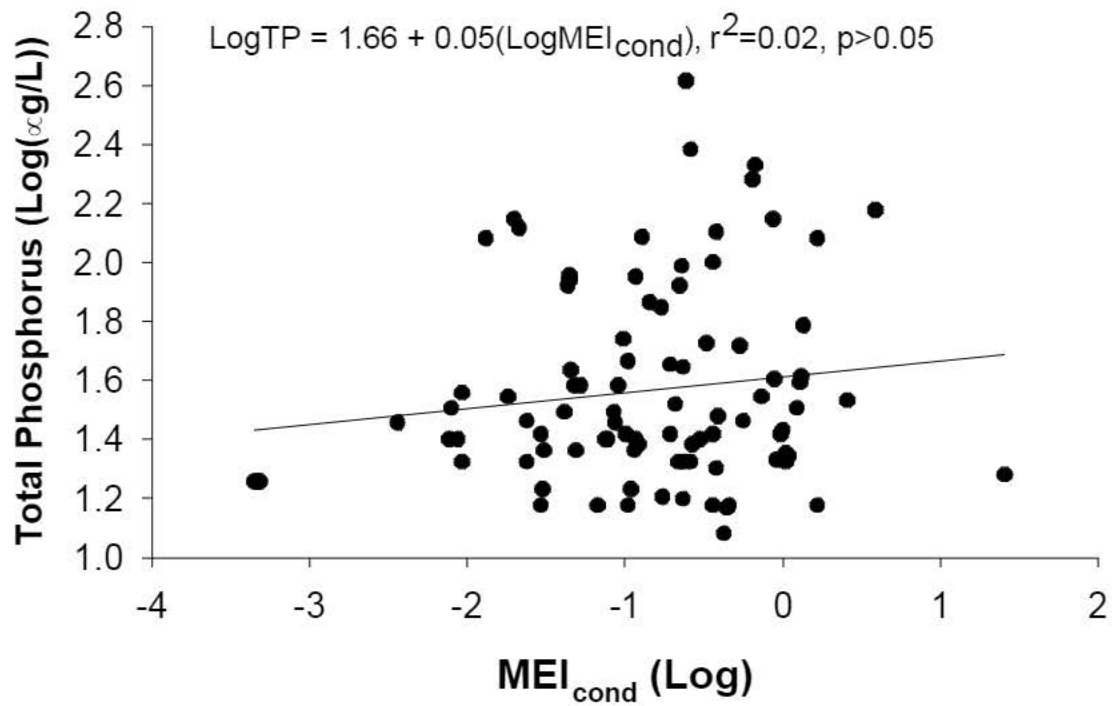
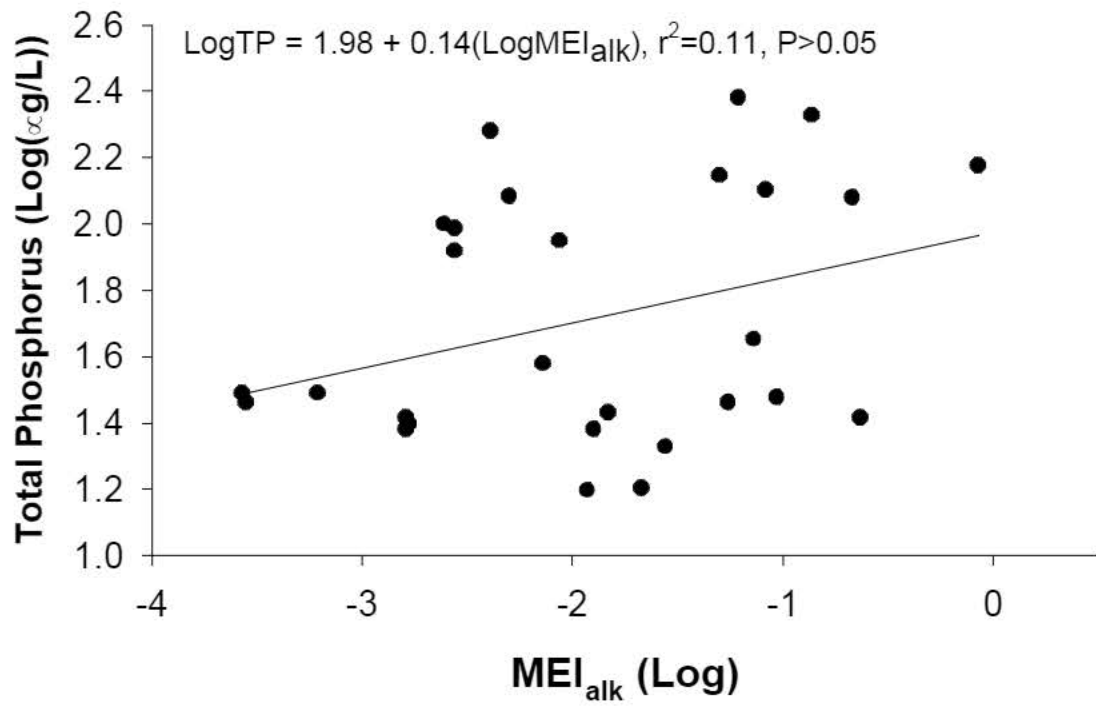


Figure 2. Regression plots of the morphoedaphic index based on alkalinity and conductivity against total phosphorus concentrations for all reference lakes.

This same fact likely makes the use of area a poor surrogate and contributed to the lack of a relationship between the MEI and lake phosphorus. Further reasons may include the heterogeneous sources of alkalinity and conductivity within Florida. Geology, soil types, organic matter, and many other factors influence the alkalinity and conductivity of waters independently of phosphorus supply. Also, the original study included no sub-tropical or tropical lakes in the regression model, and while the approach makes sense theoretically, it may not be applicable to all lake types.

The MEI has also been unsuccessful in the prediction of fish production, its original intent, in Florida lakes (J. Chick, personal communication) and in northern lakes (Downing *et al.*, 1990). Depth data would help calculate the MEI more accurately, but the trends shown, lack of information on sub-tropical application of the approach, and unsuccessful application in other studies leads us to conclude that the MEI is not an appropriate approach for developing nutrient criteria in Florida lakes.

Approach 4: Loess regression of tLCI vs. nutrient concentration

In our fourth approach, we regressed TP and TN against tLCI (a combination of log Secchi depth and log chlorophyll *a* ; Gerritsen *et al.* 2000) for all the lake data available in each lake class (reference and non-reference lakes) using Loess regression (Figures 3-7). This plot allowed an estimate of nutrient concentrations consistent with the 25th percentile value for the reference lake condition index. In this way, we derived nutrient concentrations based on the biological condition of reference lakes. Table 3 lists the nutrient concentrations derived from this method. TP concentrations derived using this method were 21, 23 and 17 $\mu\text{g/L}$ for acid clear Region 65, acid clear Region 75 lakes, and alkaline clear lakes, respectively (Table 3). Comparable TN values for these same lakes were 473, 776, and 692 $\mu\text{g/L}$, respectively. Colored lakes gave TP values of 43 and 40 $\mu\text{g/L}$ for acid colored and alkaline colored lakes. Respective TN values were 1,202 and 1,148 $\mu\text{g/L}$.

The values observed were higher than those derived directly from the statistical distribution of the reference lake chemistry data, except for TP concentrations in alkaline colored lakes, which were lower (40 versus 73 $\mu\text{g/L}$). This is likely due to variable biotic responses to nutrients. Community responses vary for a number of reasons (light, grazing by zooplankton, etc.) and may not necessarily be exactly consistent with chemistry.

Acid Clear Lakes - Region 65

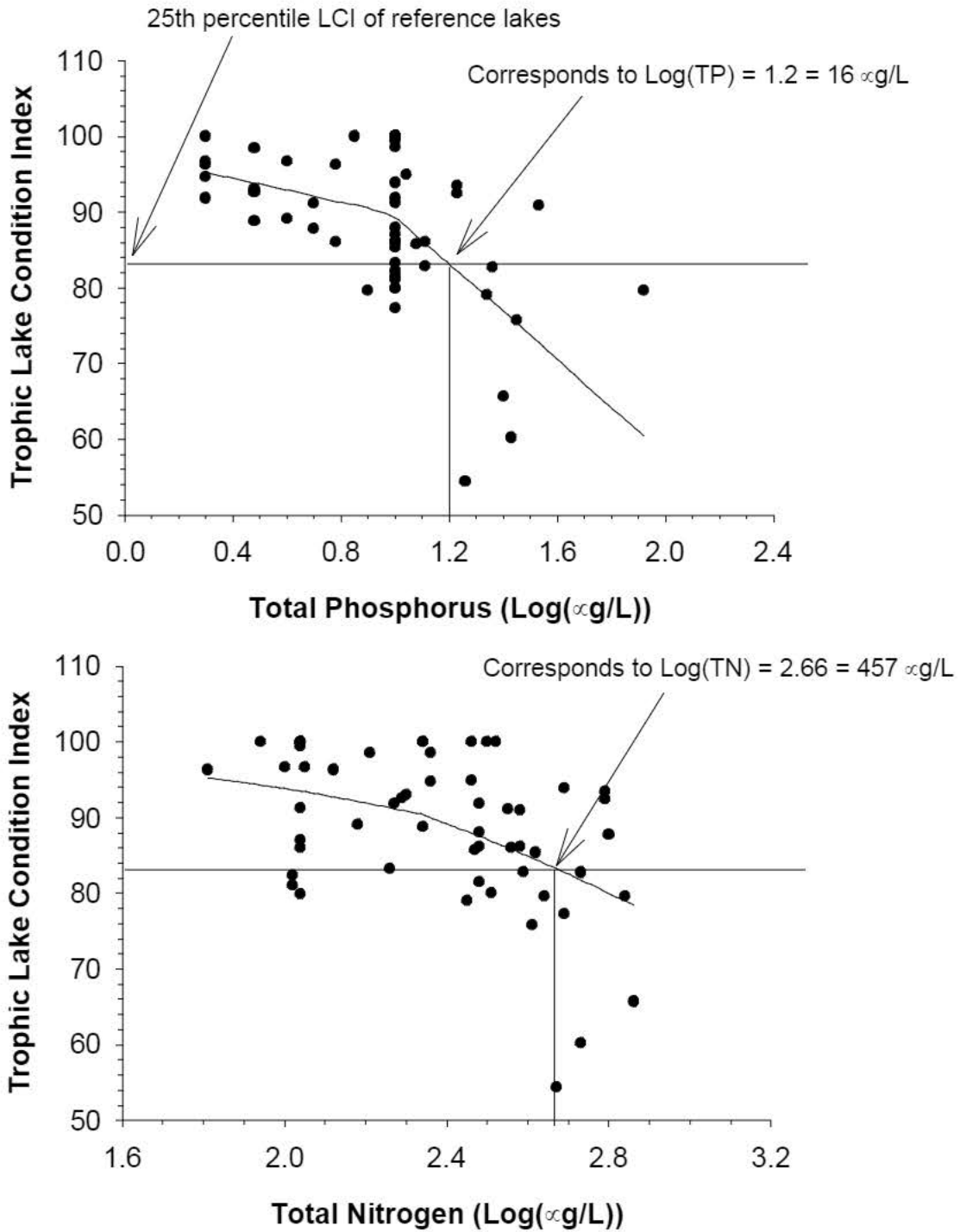


Figure 3. Loess regression plots of total phosphorus and nitrogen against the trophic lake condition index (tLCI) in acid clear lakes in Region 65. The lines indicate the nutrient concentrations consistent with the 25th percentile of reference lake tLCI.

Acid Clear Lakes - Region 75

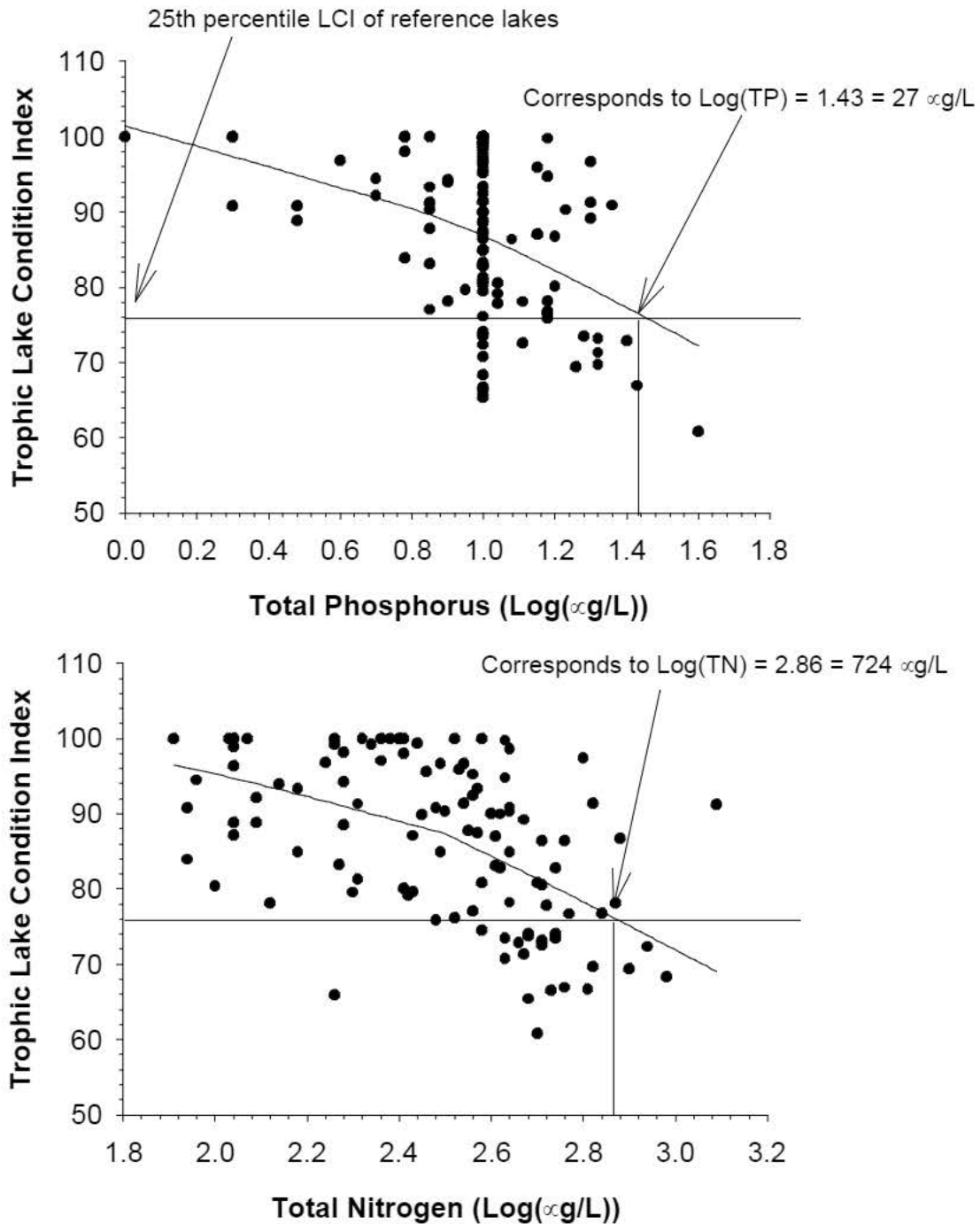


Figure 4. Loess regression plots of total phosphorus and nitrogen against the trophic lake condition index (tLCI) in acid clear lakes in Region 75. The lines indicate the nutrient concentrations consistent with the 25th percentile of reference lake tLCI.

Acid Color Lakes

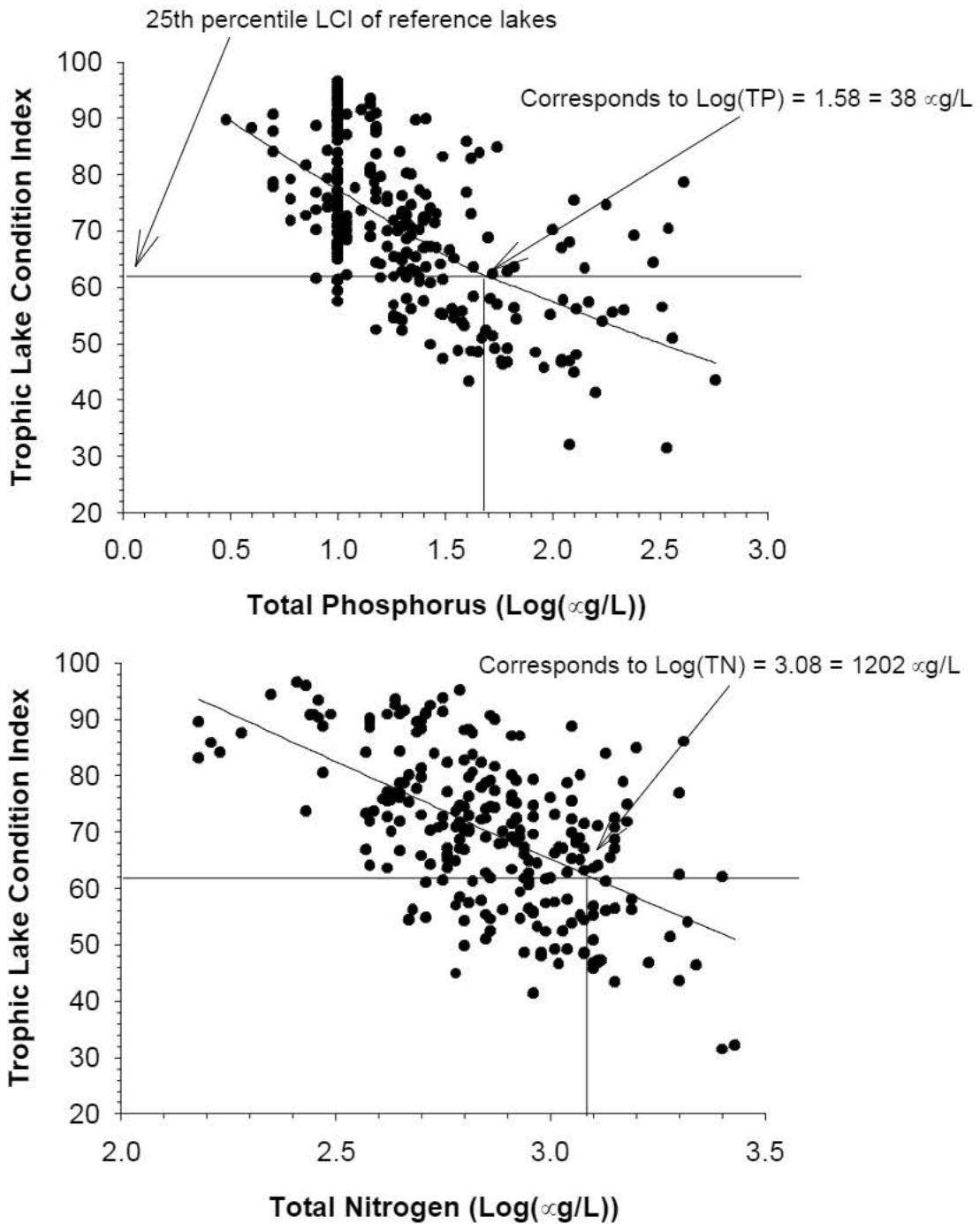


Figure 5. Loess regression plots of total phosphorus and nitrogen against the trophic lake condition index (tLCI) in acid colored lakes. The lines indicate the nutrient concentrations consistent with the 25th percentile of reference lake tLCI.

Alkaline Clear Lakes

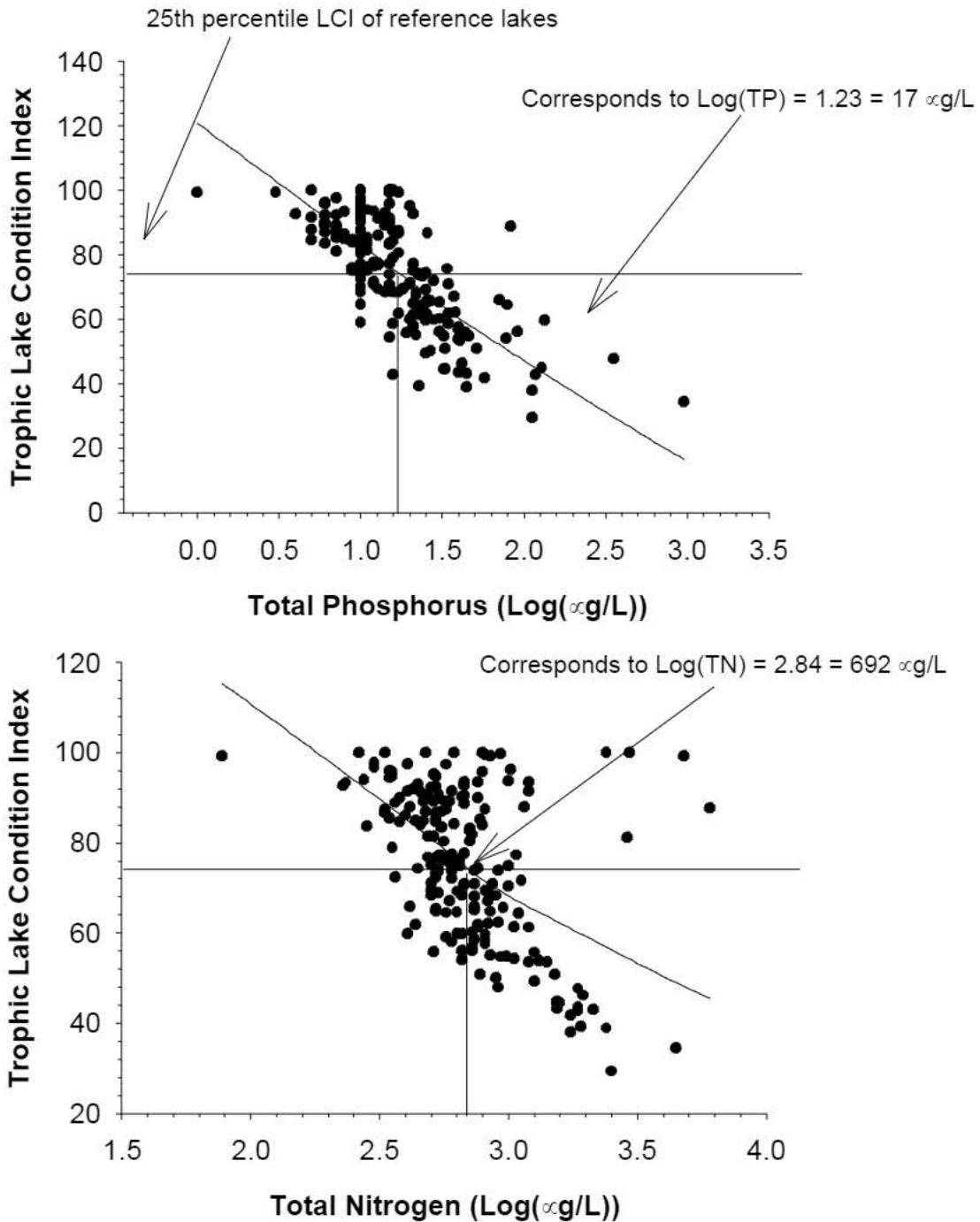


Figure 6. Loess regression plots of total phosphorus and nitrogen against the trophic lake condition index (tLCI) in alkaline clear lakes. The lines indicate the nutrient concentrations consistent with the 25th percentile of reference lake tLCI.

Alkaline Color Lakes

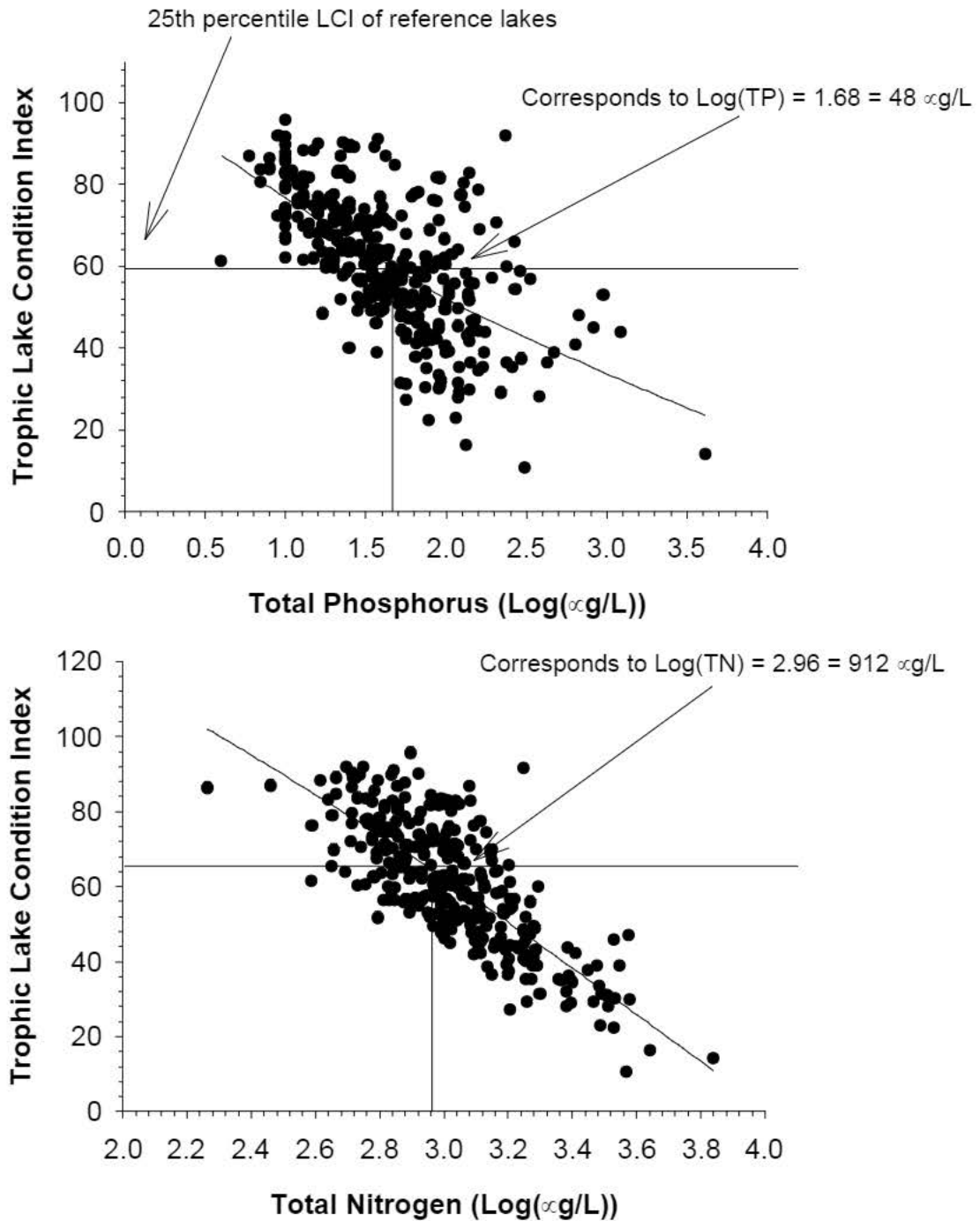


Figure 7. Loess regression plots of total phosphorus and nitrogen against the trophic lake condition index (tLCI) in alkaline colored lakes. The lines indicate the nutrient concentrations consistent with the 25th percentile of reference lake tLCI.

Table 3. Total phosphorus (TP) and total nitrogen (TN) concentrations ($\mu\text{g/L}$) corresponding to the intercept of the 25th percentile of tLCI values with Loess regression (see Figures 3-7).

Lake Class	Nutrient Concentration	
	TP	TN
Acid Clear		
Region 65	21	473
Region 75	23	776
Acid colored	43	1,202
Alkaline Clear	17	692
Alkaline colored	40	1,148

Approach 5: Multiple linear regression models of chlorophyll and Secchi depth

The last two approaches we used dealt with predicting chlorophyll concentrations and Secchi depth for reference lakes, since criteria development has also been suggested for these indirect measures of nutrient concentration. We first built multiple linear regression models to predict chlorophyll and Secchi depth in each lake class using all the available lake data from the Florida DEP and lake classification databases (Table 4). Variables were listed in the order in which they explain model variance. Both nitrogen and phosphorus appear in all the models for explaining chlorophyll and are then joined by one or more variables of pH, alkalinity, color, or conductivity.

The amount of variance explained by those models ranged from 34 percent (for acid colored lakes) to 76 percent (for acid clear Region 65 lakes). We combined all the model predictions and plotted them against observed values (Figure 8). These plots indicate that we built precise models that were able to predict 60% of the variance in lake chlorophyll concentrations. For explaining Secchi depth, TN and TP were again the most common predictors, along with lake conductivity. Alkalinity, pH, and color are also included in some of the models. The amount of variance explained ranged from 0.38 (in acid clear Region 65 lakes) to 0.69 (for alkaline clear lakes). We also plotted predicted versus observed Secchi depth, and these combined models predicted almost 75% of the total variance in observed Secchi depth (Figure 9).

Table 4. Multiple linear regression models to predict lake chlorophyll ($\mu\text{g/L}$) and Secchi depth (m) from lake chemistry, and predicted mean chlorophyll and mean Secchi depth for reference lakes.

<i>Lake Class</i>	<i>Regression Equation</i>	<i>Predicted Criteria</i>	<i>R²</i>
<i>Chlorophyll</i>		Chlorophyll [Log($\mu\text{g/L}$)] predicted (quartile range)	
Acid Clear			
Region 65	$-3.03 + 0.73(\text{LogTN}) + 0.24(\text{pH}) - 0.24(\text{LogAlk}) + 0.36(\text{LogTP})$	0.12 (0-0.90)	0.76
Region 75	$-2.18 + 0.24(\text{pH}) + 0.37(\text{LogTP}) - 0.28(\text{LogAlk}) + 0.35(\text{LogTN})$	0.22 (0-0.75)	0.43
Acid colored	$-1.13 + 0.56(\text{LogTP}) - 0.18(\text{LogAlk}) - 0.46(\text{LogColor}) + 0.70(\text{LogTN})$	0.72 (0.32-1.06)	0.34
Alkaline Clear	$-2.84 + 0.94(\text{LogTP}) + 0.37(\text{LogTN}) + 0.14(\text{pH}) + 0.41(\text{LogColor})$	0.59 (0-0.88)	0.70
Alkaline colored	$-2.71 + 1.24(\text{LogTN}) - 0.47(\text{LogColor}) + 0.37(\text{LogTP}) + 0.12(\text{pH}) - 0.24(\text{LogCond})$	0.96 (0.36-1.10)	0.67
<i>Secchi Depth</i>		Secchi [Log(m)] predicted (quartile range)	
Acid Clear			
Region 65	$1.56 - 0.44(\text{LogTN})$	0.57 (0.52-0.70)	0.38
Region 75	$1.73 - 0.43(\text{LogCond}) - 0.33(\text{LogTP}) + 0.19(\text{LogAlk}) - 0.23(\text{LogColor})$	0.38 (0.18-0.61)	0.51
Acid colored	$1.16 - 0.45(\text{LogColor}) - 0.21(\text{LogTP}) + 0.04(\text{LogAlk})$	0.04 (-0.15-0.18)	0.68
Alkaline Clear	$2.31 - 0.52(\text{LogTP}) - 0.34(\text{LogTN}) - 0.14(\text{LogCond}) - 0.14(\text{LogColor})$	0.37 (0.26-0.54)	0.69
Alkaline colored	$2.88 - 0.51(\text{LogTN}) - 0.14(\text{LogCond}) - 0.13(\text{LogTP}) - 0.09(\text{pH}) + 0.10(\text{LogAlk})$	0.00 (-0.05-0.26)	0.67

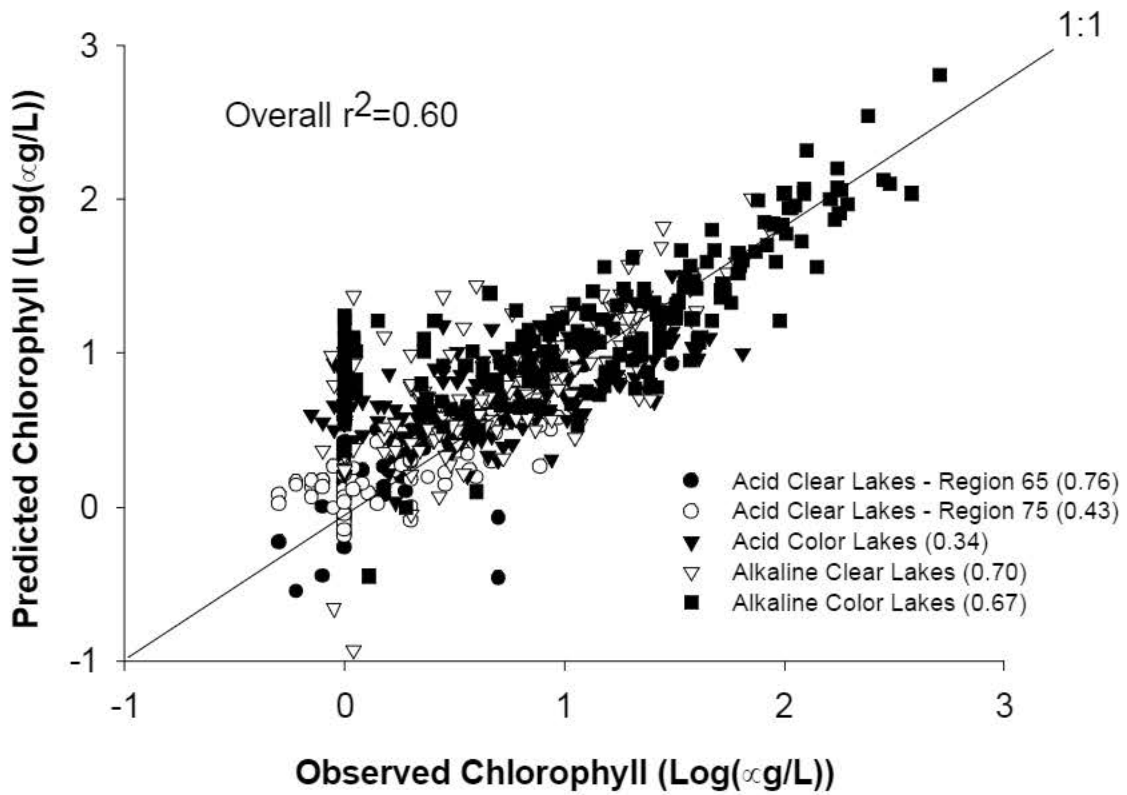


Figure 8. Chlorophyll concentrations predicted for each lake using multiple regression models built from the entire lake dataset plotted against observed chlorophyll. (Equation in Table 4). Numbers in parentheses are r^2 values for each regression. refers to all classes combined.

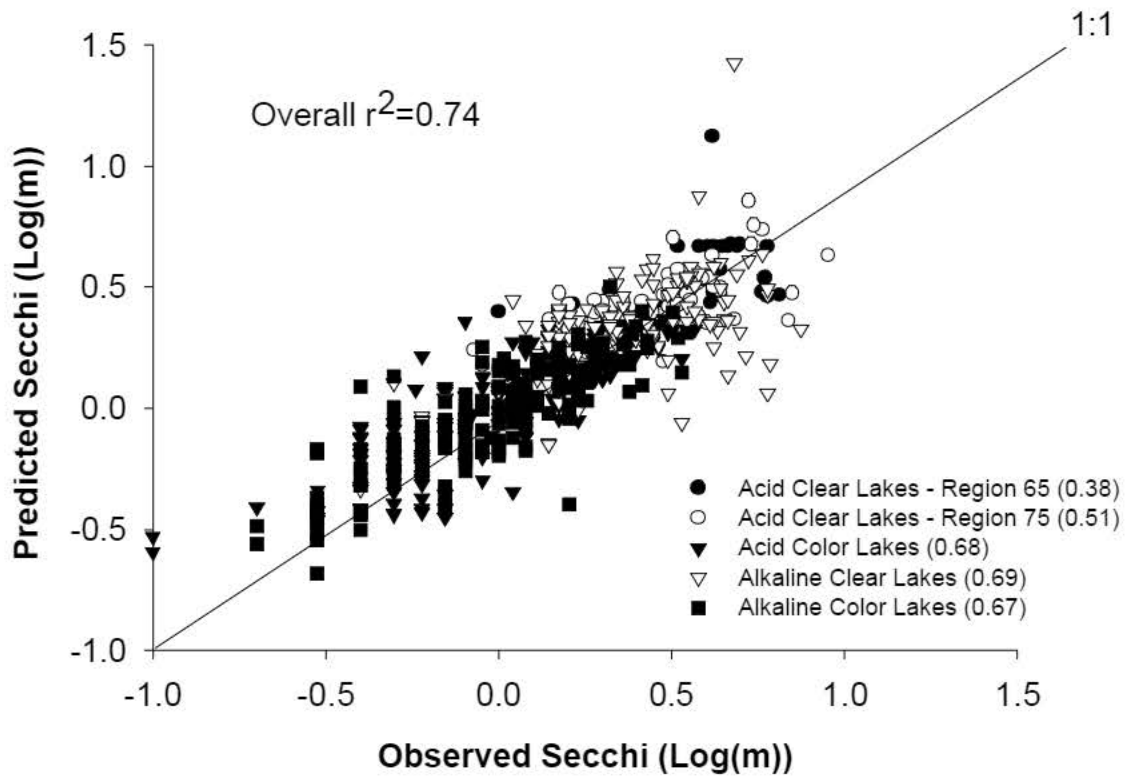


Figure 9. Secchi depth predicted for each lake using multiple regression models built from the entire lake dataset plotted against observed Secchi depth. (Equation in Table 4). Numbers in parentheses are r^2 values for each regression.

After the models were built, we used mean reference lake values for the different chemical predictors in each lake class to predict the chlorophyll and Secchi depths associated with those concentrations. The predicted values all fall within the ranges observed for reference lakes in each lake class (Table 4). These models should be validated with future reference lake data, but the modeling approach holds promise as a potential tool for predicting chlorophyll reference targets and certainly supports the reference targets derived directly from the statistical distribution of chlorophyll and Secchi depth in reference lakes (Approach 1).

Approach 6: Contour plotting of nutrients and chlorophyll

The last analysis we performed was to create contour plots of TP (x-axis), TN (y-axis), and chlorophyll (contours). These plots (e.g., Figure 10) can be used to infer nutrient limitation and to predict visually the reference chlorophyll concentration based on the mean or 75th percentile of reference lake TP and TN concentrations. The 16:1 molar TN:TP line is shown on the plot, and sites located above the line would be considered N-limited, while those below would be considered P-limited. We also plotted the 75th percentile of TN and TP concentrations for reference lakes in the acid clear Region 65 lake class. The observed median chlorophyll concentration in acid clear Region 65 reference lakes was 2.6 $\mu\text{g/L}$ (from Table 5), which is similar to the chlorophyll concentration predicted from the contour plot (2.4 – 3.2). In general, the predicted ranges of reference lake chlorophyll concentrations bracketed the observed median or mean chlorophyll concentrations observed in the different lake classes.

Not surprisingly, all the reference lakes in the different lake classes had molar N:P ratios far above 16, indicating that phosphorus limitation dominated the lake chemistry in Florida lakes (Table 5). Only acid colored lakes contained a reference site with a ratio less than 16, but the mean for this region was 85. Nutrient ratios are informative, but they assume that lakes are nutrient supply limited (meaning that the rate of uptake exceeds the supply rate). If lake biota are not nutrient supply limited and/or are limited by some other factor (e.g. light), then the nutrient ratio is less informative. In general, though, the data suggest that nitrogen reduction will result in little noticeable change in chlorophyll, as lakes are, in general, P-limited. One direct consequence of this is that nitrogen criteria may be more difficult to derive based on a relationship to chlorophyll or Secchi depth.

It is difficult to know if nitrogen concentrations in lakes are elevated above historically protective concentrations, since the molar ratio data suggest that any change in nitrogen is not likely to have resulted in changes in lake plant growth without concomitant changes in phosphorus. However, nitrogen is commonly observed to limit plant growth in marine environments, especially near-shore marine environments (Howarth 1988, NRC 1994), and so setting lake nitrogen criteria too high may have consequences for downstream ecosystems. These consequences need to be considered when establishing lake nitrogen criteria so that outflows will be protective of marine receiving waters.

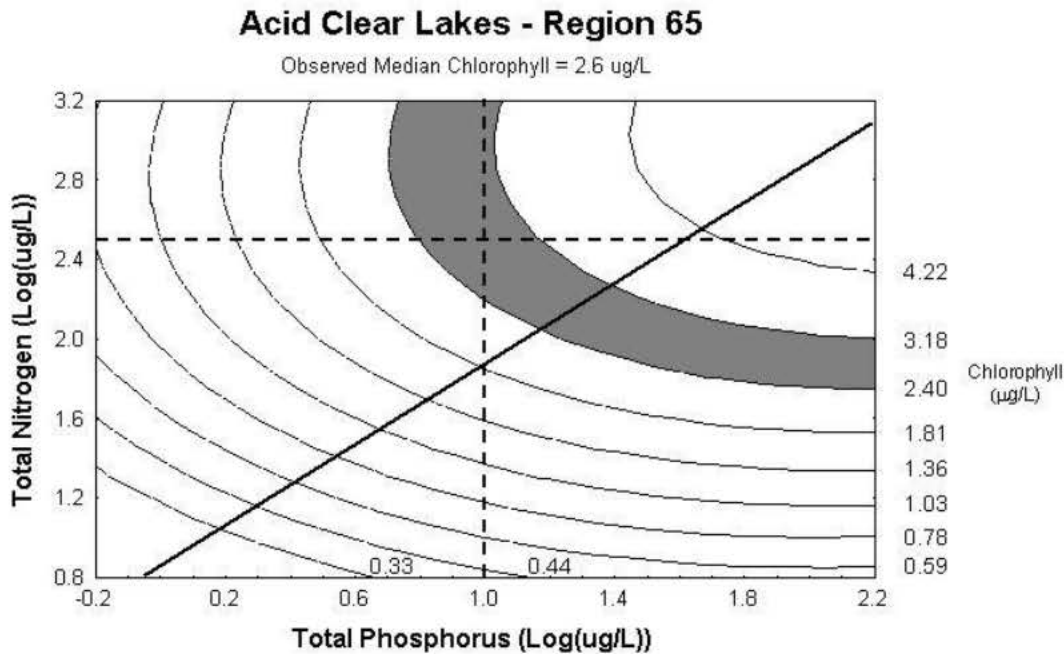


Figure 10. An example of a contour plot of phosphorus, nitrogen, and chlorophyll built from all the data on acid clear lakes in Region 65. The diagonal line indicates the 16:1 ratio of molar N:P considered necessary for algal growth. Sites above the line are considered P-limited, and sites below the line N-limited. The hatched lines indicate the mean phosphorus and nitrogen concentrations for reference lakes in this class. The predicted chlorophyll from these concentrations is between 2.4 and 3.2 $\mu\text{g/L}$ (shaded band), consistent with the median observed reference lake chlorophyll (2.6 $\mu\text{g/L}$).

CONCLUSIONS

We considered approaches designed to identify least-impacted background lake nutrient concentrations and approaches designed to identify nutrient concentrations consistent with management goals for biological condition. As mentioned above, the two general approaches lead to different nutrient criteria endpoints (Tables 6 and 7). Several methods were considered while deriving potential criteria. It is unlikely that any panacea exists for establishing targets, and, in fact, a combination of methods in concert with the best professional judgment of a technical advisory committee is the recommended strategy (Gibson *et al.*, 2000). We consider each of the target variables below, list the approaches we weighted most heavily, and suggest potential criteria.

Table 5. Predicted chlorophyll concentrations ($\mu\text{g/L}$) for reference lakes within each lake class derived from three-dimensional surface plots of total nitrogen ($\mu\text{g/L}$), total phosphorus ($\mu\text{g/L}$), and chlorophyll (see Figure 11).

<i>Lake Class</i>	<i>75th Percentile Reference Nutrient Concentration</i>		<i>Chlorophyll Concentrations</i>		<i>Reference Molar N:P</i>
	TP	TN	Predicted range	Observed mean (median)	mean (range)
Acid Clear					
Region 65	10	330	2.4-3.2	5.1 (2.6)	49 (23-108)
Region 75	10	470	2.1-2.8	3.0 (1.0)	65 (22-210)
Acid colored	42	910	8.7-12.8	9.0 (5.0)	85 (6-288)
Alkaline Clear	10	750	4.2-7.5	4.4 (3.0)	138 (43-252)
Alkaline colored	73	1110	9.2-18.0	9.9 (6.9)	92 (16-392)

Table 6. A summary of phosphorus/nitrogen concentrations ($\mu\text{g/L}$) suggested as potential criteria for five different lake classes in Florida. MEI, multiple regression and contour plots did not predict nutrient concentrations (not shown).

Lake Class	<i>Methodological Approach</i>		
	<u>75th Percentile of Reference Distribution</u>	<u>Loess Regression tLCI vs. Nutrients</u>	<u>Paleolimnology (TROPH1 model)</u>
Acid Clear			
Region 65	10/330	21/473	4*/NA
Region 75	10/470	23/776	67*/NA
Acid colored	42/910	43/1202	17*/NA
Alkaline Clear	10/750	17/692	25/NA
Alkaline colored	73/1110	40/1148	32/NA

* N<6, NA = Not applicable

Table 7. A summary of chlorophyll concentrations ($\mu\text{g/L}$)/Secchi depths (m) suggested as potential criteria for five different lake classes in Florida. Loess regression, paleolimnology and MEI did not predict chlorophyll.

Lake Class	<i>Methodological Approach</i>			
	<u>Percentile of Reference Distribution</u>	<u>MEI</u>	<u>Multiple Linear Regression Models</u>	<u>Contour Plot Interpolation</u>
Acid Clear				
Region 65	8/3.3	NA/NA	1/3.7	2-.3/NA
Region 75	6/1.5	NA/NA	2/2.4	2-3/NA
Acid colored	12/0.7	NA/NA	5/1.1	9-13/NA
Alkaline Clear	8/1.8	NA/NA	4/2.3	4-8/NA
Alkaline colored	13/0.9	NA/NA	9/1.0	9-18/NA

NA = Not applicable

Phosphorus recommendations

We looked at several methods for deriving TP criteria, all of which resulted in slightly different values. Each method has benefits and drawbacks. We weighted the current reference lake distributions most heavily, considering that these are direct measures of the evaluated best attainable condition of lakes within each lake class. We next weighted the paleolimnological data, since it provides some insight into the historical nutrient concentrations of the different lake environments and, theoretically, should provide insight into the lake potential. Lastly, we used the Loess regression results, using the biological condition of reference lakes to infer nutrient levels. However, there is greater uncertainty, since many factors affect the biological response of algae beyond nutrients (e.g., light, grazing), and there is the potential to infer higher concentrations than are necessarily protective.

With this weighting scheme in mind, we arrived at the following provisional TP criteria for the different lake classes:

Acid Clear Region 65 Lakes	10 $\mu\text{g/L}$
Acid Clear Region 75 Lakes	10 $\mu\text{g/L}$
Acid colored Lakes	40 $\mu\text{g/L}$
Alkaline Clear Lakes	10 $\mu\text{g/L}$
Alkaline colored Lakes	40 $\mu\text{g/L}$

We believe that 10 $\mu\text{g/L}$ was the apparent detection limit for TP in some of the laboratory analyses used, since it appears so frequently in the distributions (see Figures 3-7). Lower detection analysis is available for TP. In any case, we recommend the adoption of the most sensitive detection methods for TP, especially in clear lake chemical analysis, as it is likely that lower concentrations would be recommended from reference lake distributions if the actual TP concentrations were substantially lower than the apparent detection limit.

Reference lake 75th percentile distributions and Loess results were similar for acid colored lakes; however, the paleolimnological analyses suggest lower historical concentrations (Table 6). The sample size was small for the paleolimnological data; therefore, a higher concentration was recommended. For alkaline colored lakes, we recommend a lower concentration than suggested by the 75th percentile reference distribution (73 $\mu\text{g/L}$, Table 1). First, the sample size was quite large for this lake class (fifty-one lakes) and the mean of reference lakes was 42 $\mu\text{g/L}$ (Table 1). Second, the Loess regression data indicated a lower TP concentration associated with the 25th percentile of reference lake tLCI for this lake class (40 μg); thus the protection of biological condition would suggest a lower concentration. Third, the paleolimnological data (which had the largest sample size [N=34] for this lake class) indicated an even lower concentration (32 $\mu\text{g/L}$, Table 3). Lastly, we looked at contrast plots of the trophic state index (TSI, Carlson, 1977, 1991) derived from TP, chlorophyll, and Secchi depth to investigate whether nutrient concentrations in the reference lakes might be higher due to other sources of limitation for algae (Figure 11). These plots compare the difference in

TSI calculated from chlorophyll and Secchi depth or TP, which ought to be equivalent, if algae are strictly responding to nutrients. Departures from zero along the y-axis suggest P-limitation or P-storage (below zero) or non-P-limitation (above zero)(Carlson, 1991).

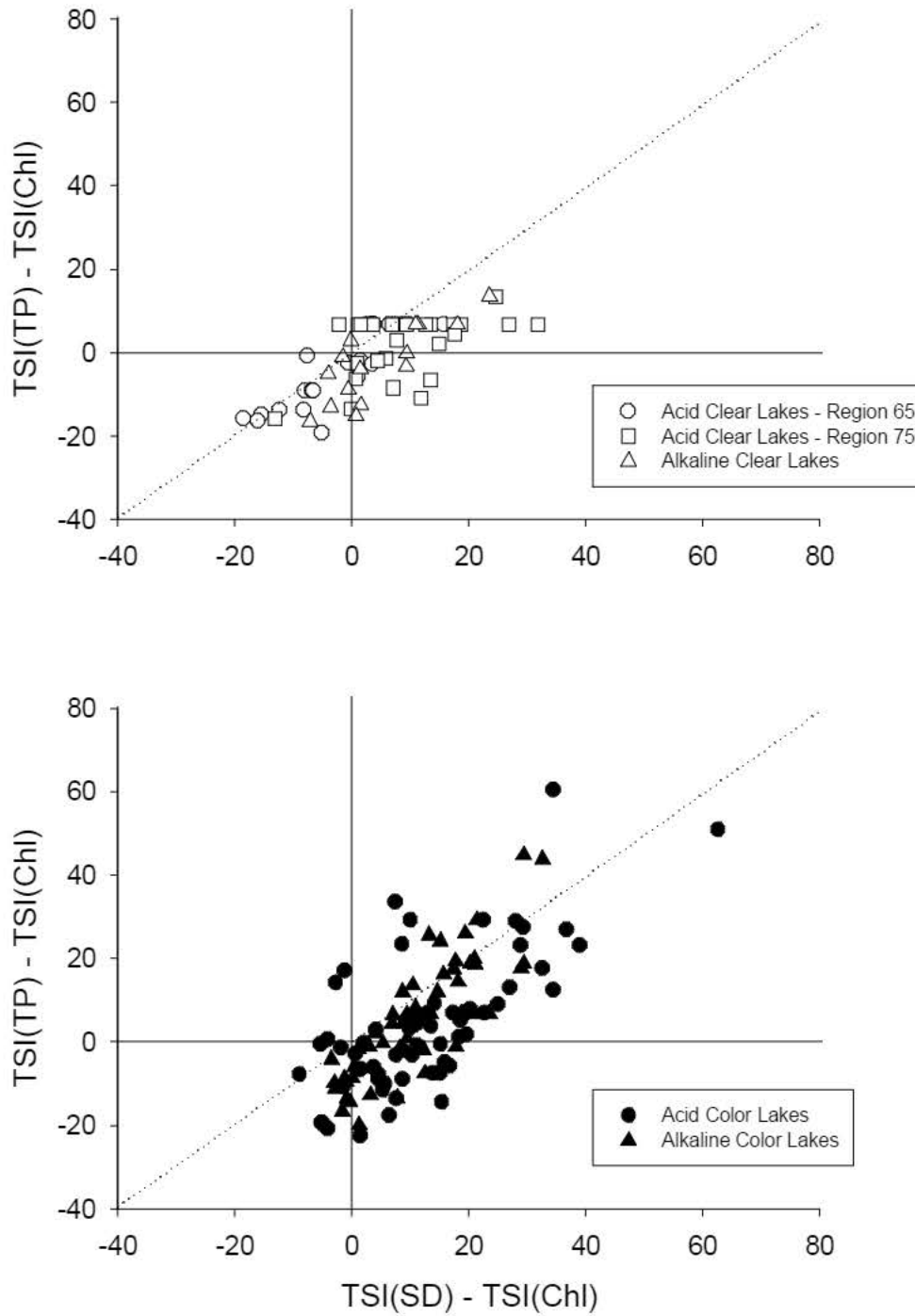


Figure 11. Trophic state index (TSI contrast plots for clear and colored lakes. The trophic state index using total phosphorus (TP), chlorophyll (Chl), and Secchi depth (SD) were contrasted to compare differences in predicted TSI.

Similarly, departures from zero along the x-axis indicate small-particle turbidity (e.g., clay, above zero) or large-particle turbidity (below zero) (Carlson, 1991). Most of the clear lakes are centered around zero relative to the colored lakes (Figure 11). The large departures above zero in colored lakes along the x-axis indicate chlorophyll-inferred trophic state values far below those predicted for Secchi depth, suggesting that turbidity or color may be limiting algal production. If this is true, then nutrient concentrations (including TP) would be higher in lakes where nutrients are limiting. Increases in light availability with reductions in turbidity or color (either episodically or seasonally) could have a very significant impact on algal growth if TP is kept at elevated levels. It is not uncommon for lakes in Florida to be limited by factors other than nutrients (Agusti *et al.*, 1990), albeit usually at higher nutrient concentrations. These limitations can obscure the relation between nutrients and algal production and could potentially lead to higher standards for those lakes. For these reasons, we recommended a more conservative (lower) TP concentration for alkaline colored lakes than that indicated by the reference distribution alone.

Nitrogen recommendations

We had only two approaches for estimating TN criteria, since the paleolimnological analyses did not include historical predictions for nitrogen. Again, we weighted the reference data distribution data more heavily than the Loess regression results. Using this approach, we arrived at the following TN criteria for the different lake classes:

Acid Clear Region 65 Lakes	350 $\mu\text{g/L}$
Acid Clear Region 75 Lakes	450 $\mu\text{g/L}$
Acid colored Lakes	1,000 $\mu\text{g/L}$
Alkaline Clear Lakes	700 $\mu\text{g/L}$
Alkaline colored Lakes	1,100 $\mu\text{g/L}$

Another possibility would be to use the average reference lake N:P molar ratios for each lake class (Table 5) and estimate the TN criteria concentration based on the TP concentrations suggested above. Using this approach, the TN concentrations would be 221; 294; 1,535; 623; and 1,662 $\mu\text{g/L}$ for acid clear Region 65, acid clear Region 75, acid colored, alkaline clear, and alkaline colored lakes respectively. These concentrations are lower for clear lakes and higher for the colored lakes, and this approach could also be considered.

One caveat for the nitrogen targets is that lakes appear to be and are likely P-limited. Therefore, it could theoretically be more difficult to set protective limits for N, since lakes could have elevated N concentrations without concomitant changes in trophic state. However, setting inland N criteria too high could result in coastal eutrophication, since near-shore ecosystems are frequently N-limited (Howarth, 1988). For this reason, coastal N concentrations and loads of N to near-shore waters from inland aquatic systems must be considered in guiding inland N criteria. In that case, the biological integrity of receiving waters would need to be used to guide the criteria for source waters.

Chlorophyll recommendations

There were fewer data to utilize in determining potential chlorophyll criteria. It is possible to infer historical chlorophyll concentrations from paleolimnological data, but these data were not available in the expanded historical lake analysis for Florida (Appendix 2, Whitmore and Brenner, 2002). Therefore, we relied on the reference distribution, multiple linear regression estimates, and contour plots to estimate chlorophyll criteria. In using the reference distribution (Table 1), we relied on mean values as well as the 75th percentile in determining criteria, since the range in values was quite large and the sample size variable. The following criteria are suggested:

Acid Clear Region 65 Lakes	4-5 $\mu\text{g/L}$
Acid Clear Region 75 Lakes	4-5 $\mu\text{g/L}$
Acid colored Lakes	10-12 $\mu\text{g/L}$
Alkaline Clear Lakes	4-5 $\mu\text{g/L}$
Alkaline colored Lakes	10-12 $\mu\text{g/L}$

Secchi depth recommendations

For Secchi depth criteria, we relied on reference site distributions and multiple linear regression models, the only two approaches available. Since Secchi depth is affected by both trophic and non-trophic factors (such as turbidity and color), it is a more difficult value to determine. We arrived at the following criteria for Secchi depth:

Acid Clear Region 65 Lakes	3.5 m
Acid Clear Region 75 Lakes	2.5 m
Acid colored Lakes	1.0 m
Alkaline Clear Lakes	2.5 m
Alkaline colored Lakes	1.0 m

Closing and suggestions

Obviously, in developing novel standards or criteria, the greatest effort should be directed towards gathering data, and this analysis would certainly benefit from such data. In the future, after additional data are collected, these and other analyses should be revisited to test the criteria proposed here. Resolving the temporal and spatial variability in lake nutrient concentrations within lake classes will likely improve the selection of appropriate values. This is true for both reference (least-impacted) lake sampling as well as paleolimnological analysis.

We have presented, throughout the text, two main perspectives that can be used, either alone or together, to guide nutrient criteria development. The first perspective derives criteria based on the least-impacted, background condition of lakes in the same class. The second derives criteria based on concentrations consistent with the desired biological condition. Lake ecosystems can sustain a degree of nutrient enrichment without abrupt changes in biological condition (e.g., Carpenter *et al.*, 1999). In this case, nutrient

concentrations in these lakes may be higher than those derived strictly on the distribution of nutrient concentrations.

The selection of a final approach is largely a policy decision. The benefit of using biological condition to guide nutrient concentrations is the direct link to the biological integrity of the waterbody. Drawbacks include the variability associated with the relationship between nutrient concentrations measured at one scale and biological responses at another, and the complexity of factors affecting biological condition. Likely, a combination of approaches such as we used here would be ideal, with additional considerations made for the status of downstream ecosystems, such as large rivers, marshes, and coastal estuaries, and the nutrient concentrations most protective of them.

A few suggestions emerged from our analysis. First, the continued sampling of reference lakes is recommended. As stated above, if the use of statistical distributions of reference lakes is a preferred approach, then more adequate sampling of the population of reference lakes in each lake class will increase the confidence in statistical estimates derived from the data. This sampling should be carried out in addition to the continued sampling of existing reference lakes through time to estimate the true variability of individual lake nutrient concentrations.

Second, more paleolimnological studies would improve the criteria estimates recommended here. The estimates of TP concentrations inferred from historical diatom community structure and the numbers of lakes sampled in each class varied widely (Whitmore and Brenner, 2002); however, this approach offers a more compelling and scientifically defensible estimate of pre-settlement lake condition than the current reference lake sampling. It is likely that reference lakes represent the “best-attainable” condition rather than the “least-disturbed” condition. Many modern landscapes disguise the condition of the land and nature of inputs into aquatic systems that have occurred through the recent past. Tight internal cycling of nutrients in lakes means that even historical inputs of nutrients can leave a legacy, a nutrient “footprint,” that can exist long past deforestation events or the abandonment of farms. Even though many modern landscapes appear forested, the effects of land use activities of the past, such as agriculture, can be perpetuated in the present (Bennett *et al.*, 1999). Paleoecological analyses offer the best hope for recreating pre-settlement nutrient and trophic environments, and we encourage their continued development and use.

Third, if approaches to derive nutrient criteria based on biological condition are desired, than biological measures other than just chlorophyll and Secchi depth would help. Chlorophyll concentrations often respond to nutrients only after significant changes in the phytoplankton community have occurred, a phenomenon known as ecological redundancy (Schindler, 1990). Whether it is the use of benthic invertebrate communities, zooplankton communities, or phytoplankton communities, other biological indicators would likely improve the capacity for detecting nutrient impacts on lake biological condition.

Lastly, the consideration of downstream ecosystems in setting N criteria cannot be overstated. Many near-shore environments are N-limited and inland systems P-limited. Setting N criteria based on inland reference lake concentrations, where systems are not N-limited and may contain higher background N concentrations without a trophic response, may result in excess N export. Taking an approach that considers the susceptibility of coastal ecosystems to N inputs may better guide concentrations that are allowed in lakes and rivers.

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APPENDIX 1: CHEMICAL, BIOLOGICAL, AND TROPHIC INDEX VALUES FOR EACH STUDY LAKE

Also shown are estimates of lake total phosphorus concentration based on paleolimnological data using the TROPH1 model and WACALIB models (Whitmore and Brenner, 2002). ChemType refers to the class of each lake (alk = alkaline lakes, acid = acid lakes, col = color lakes, clr or cl = clear lakes). Reference sites are indicated with an R under the Ref field. Chlorophyll, total phosphorus (TP), and total nitrogen (TN) are in $\mu\text{g/L}$, Secchi depth (SD) is in meters, conductivity (Cond) in $\mu\text{S/cm}$, and alkalinity (Alk) in mg/L . (TSI – trophic state index, MEI = morphoedaphic index, tLCI = trophic lake condition index)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
LINDSEY	DEP	acidcol	R	26	810	3.2	1.3	50	37	6.20		42.0	56.2	51.1		0.36	76.45		
FORTCOOP	DEP	alkclr	NR	10	1210	1.0	2.5	210	10	8.30		30.6	46.8	37.4		1.40	93.41		
REEDY	DEP	alkclr	NR	40	1310	17.4	0.6	250	8	7.75		58.6	67.4	57.3		0.07	53.85		
REEDY	DEP	alkclr	NR	41	1410	18.3	0.6	250	8	8.00		59.1	67.4	57.7			53.42		
CROOKED	DEP	alkclr	R	35	680	9.4	1.7	101	11	8.10		52.5	52.4	55.4		0.02	70.94		
CROOKED	DEP	alkclr	R	10	710	2.8	2.0	95	11	6.90		40.7	50.0	37.4		0.02	82.51		
CLEAR	DEP	alkclr	NR	23	920	16.4	1.2	210	20	8.40		58.0	57.4	49.4		1.33	62.37	13	15
IOLA	DEP	alkclr	R	10	580	1.0	3.5	150	9	7.20		30.6	41.9	37.4		1.40	97.33		
BELLOWS	DEP	alkcol	NR	100	3010	113.3	0.6	210	100	9.20		77.0	67.4	70.6		2.39	38.76		
ALICE	DEP	acidcl75	R	10	250	1.0	6.0	140	2	4.80		30.6	34.2	37.4		1.51	100.00		
CYPRESS	DEP	alkcol	NR	66	1910	47.5	0.4	170	64	8.50		68.5	73.2	64.6		0.04	41.04		
CYPRESS	DEP	alkcol	NR	67	1510	34.3	0.5	170	191	9.40		65.3	70.0	64.8		0.04	46.25		
GENTRY	DEP	alkcol	R	10	600	2.4	1.8	170	80	7.60		39.2	51.5	37.4		0.09	82.52		
GENTRY	DEP	alkcol	R	38	700	1.0	2.0	165	80	7.80		30.6	50.0	56.6		0.09	90.82		
TOHOPEKA	DEP	alkcol	NR	37	1005	40.8	0.6	165	116	8.15		67.0	68.6	56.0		0.01	45.97		
TOHOPEKA	DEP	alkcol	NR	69	1558	52.1	0.5	159	73	7.70	28.0	69.4	70.0	65.1	0.00	0.01	42.89		
EAST TOH	DEP	alkcol	R	10	600	7.2	1.6	120	71	7.60		50.0	53.2	37.4			72.32		
EAST TOH	DEP	alkcol	R	31	710	5.4	1.5	125	55	7.30		47.1	54.2	53.7			73.92		
EAST TOH	DEP	alkcol	R	25	670	5.0	1.6	125	65	7.20		46.3	53.2	50.6			75.36		
BLUE CYP	DEP	alkcol	R	83	1240	2.3	1.0	284	254	8.10		38.6	60.0	67.9		0.04	76.16		
BLUE CYP	DEP	alkcol	R	87	1040	3.5	1.3	290	254	7.40		43.0	56.2	68.5		0.04	75.66		
BLUE CYP	DEP	alkcol	R	90	1000	4.3	1.0	290	254	7.30		44.9	60.0	69.0		0.04	71.06		
HARNEY	DEP		NR	34	1310	14.1	0.8	1300	103			56.6	63.2	55.0		0.21	58.87		
HARNEY	DEP		NR	53	1240	5.6	0.8	900	103			47.5	63.2	61.4			66.31		
CARRIE	DEP	alkcol	NR	31	930	9.6	0.7	70	120	6.80		52.8	65.1	53.7		1.08	60.41		
HILL	DEP	acidcl75	R	10	310	1.0	1.2	60	13	5.20		30.6	57.4	37.4		0.86	84.87		
VIOLA	DEP	alkclr	R	10	1000	2.2	5.0	210	10	7.40		38.3	36.8	37.4			93.66		
HAMBURG	DEP	alkcol	NR	10	450	5.1	2.2	140	30	7.60		46.6	48.6	37.4		3.89	78.82		
WATERTOW	DEP	alkcol	NR	34	1510	40.1	0.7	135	50	7.70		66.8	65.1	55.0		2.93	48.91		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
ROWELL	DEP	alkclr	NR	10	530	4.7	1.2	418	15	7.00		45.8	57.4	37.4		1.15	72.43		
JUNIPER	DEP	acidcol	I	21	650	5.0	1.3	15	30	6.50		46.4	56.2	48.1		0.02	72.86		
CASSIDY	DEP	acidcl65	R	10	110	2.4	3.8	20	3	5.00		39.2	40.8	37.4		0.06	91.25		
COMPASS	DEP	acidcl65	R	10	110	1.0	4.9	20	6	5.70		30.6	37.1	37.4		0.03	100.00	6	
PATE PON	DEP	acidcol	R	10	310	1.0	2.0	25	30	4.70		30.6	50.0	37.4		0.00	90.82		
LOWERY	DEP	acidcl75	R	10	110	1.6	2.0	53	10	6.18	0.5	35.1	50.0	37.4	0.00	0.04	87.09		
FRANCIS	DEP	alkcol	NR	62	950	19.8	0.6	190	200	8.63	72.0	59.9	67.4	63.7	3.43	9.05	52.78		
MYSTIC	DEP	alkcol	R	120	1210	22.8	0.5	78	51	6.60	10.0	61.3	70.0	73.2	0.21	1.66	49.55		
ALLIGATO	DEP	alkcol	NR	104	1577	83.5	0.5	87	65	8.40	28.3	74.0	70.0	71.2	0.08	0.26	39.10		
JEFFERY	DEP	alkcol	R	10	620	7.8	1.1	52	64	6.53	2.0	50.8	58.6	37.4	0.02	0.46	67.30		
ERIE	DEP	acidcl65	R	10	490	1.0	2.6	27	20	5.03	25.0	30.6	46.2	37.4	0.93	1.01	93.87		
MUNSON	DEP	acidcol	NR	160	910	46.0	0.4	70	80	5.97	13.0	68.1	73.2	77.3	0.05	0.27	41.30		
SOUTH	DEP	alkcol	NR	30	1610	15.3	0.7	600	60	10.30	62.0	57.4	65.1	53.2	0.06	0.54	56.67		
ASHBY	DEP	alkcol	R	89	1130	6.9	0.6	120	146	7.23	9.0	49.6	67.4	68.9	0.01	0.12	61.25		
ARBUCKLE	DEP	alkcol	R	38	930	37.5	0.7	182	112	7.41	28.0	66.2	65.1	56.6	0.01	0.05	49.44		
LIVINGST	DEP	alkcol	NR	270	1640	6.0	0.3	225	240	6.59	0.5	48.2	77.3	84.9	0.00	0.19	54.34		
CLINCH	DEP	alkcol	R	10	520	6.3	2.7	165	24	6.62	0.5	48.6	45.7	37.4	0.00	0.14	79.55		
CRESCENT	DEP	acidcol	I	10	660	3.6	2.0	82	40	4.01	13.0	43.1	50.0	37.4	0.15	0.96	80.61		
FORTY AC	DEP	acidcol	R	140	2010	31.1		35	500	5.73	2.0	64.3		75.4	0.05	0.88			
KARICK	DEP	alkcol	NR	120	1310	90.7	0.9	68	60	7.81	17.0	74.8	61.5	73.2	0.24	0.98	45.28		
OWENS Po	DEP	acidcol	R	10	270	1.0	3.1	27	30	4.64	14.0	30.6	43.7	37.4	0.17	0.32	95.92		
SEVENTEE	DEP	acidcl65	R	10	110	1.0	6.0	33	5	4.83	10.0	30.6	34.2	37.4	0.04	0.14	100.00		
CRYSTAL	DEP	acidcl65	R	10	110	1.0		28	2	6.37	0.5	30.6		37.4	0.00	0.17			
OYSTER P	DEP	alkcol	NR	53	1010	1.0	0.4	3092	400	6.78	17.0	30.6	73.2	61.4	0.77	140.53	72.09		
CAMPBELL	DEP	acidcol	R	10	450	4.5	2.0	103	40	4.72	17.0	45.3	50.0	37.4	0.19	1.14	78.74		
BRADFORD	DEP	acidcol	R	45	870	25.6	0.5	38	121	3.94	14.0	62.4	70.0	59.0	0.07	0.20	48.59		
JOHNSON	DEP	acidcl75	R	10	660	1.0	2.1	50	15	4.61		30.6	49.3	37.4		0.10	91.39		
BIVENSAR	DEP	alkcol	NR	120	2410	90.0	0.2	165	120	9.10	50.0	74.7	83.2	73.2	0.26	0.87	27.83		
WAUBERG	DEP	alkcol	NR	94	2410	97.0	0.3	120	80	8.31	26.0	75.5	77.3	69.7	0.10	0.49	31.94	68	
STELLA	DEP	alkclr	NR	10	610	3.0		190	12	7.30	5.0	41.4		37.4	0.02	0.62			
BROWARD	DEP	alkclr	R	10	300	1.0	3.6	115	4	6.70	33.0	30.6	41.5	37.4	0.07	0.24	97.66		
HAINES	DEP	alkcol	NR	160	2510	107.6	0.4	300	100	9.52	76.0	76.5	73.2	77.3	0.11	0.42	34.46	33	42
LOWERY	DEP	alkcol	R	10	1410	10.8	1.7	198	44	6.84	6.0	53.9	52.4	37.4			69.79		
GIBSON	DEP	acidcol	R	240	710	7.1	1.2	125	69	6.12	29.0	49.8	57.4	83.2	0.06	0.26	69.11		
HOLLINGS	DEP	alkcol	NR	120	3110	105.0	0.3	160	120	8.73	23.0	76.3	77.3	73.2	0.06	0.45	31.31		
BIG GANT	DEP	alkcol	NR	57	1110	12.6	1.6	367	70	7.34	135.0	55.4	53.2	62.5	1.45	3.94	67.86		
SPARKMAN	DEP	alkcol	R	150	1810	26.7	0.4	102	500	6.60	22.0	62.8	73.2	76.4	0.85	3.92	45.68		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
MOON	DEP	acidcol	NR	10	920	8.4	1.4	118	30	6.20	13.0	51.5	55.2	37.4	0.13	1.20	69.53		
MUD	DEP	acidcol	NR	130	950	27.6	0.5	78	200	6.18	0.5	63.1	70.0	74.3	0.00	0.33	48.00		
NONA	DEP	acidcl75	R	10	440	3.7	3.0	86	15	5.98	10.0	43.5	44.2	37.4	0.02	0.14	84.93		
ORIENTA	DEP	alkcol	NR	39	1010	33.3	0.6	190	50	8.87	14.0	65.0	67.4	57.0	0.11	1.47	48.61		
SEMINARY	DEP	alkclr	R	10	420	3.0	3.3	180	4	6.55	2.0	41.3	42.8	37.4	0.04	3.27	87.84		
HOWELL	DEP	alkcol	NR	45	950	25.6	1.1	200	50	8.99	25.0	62.4	58.6	59.0	0.06	0.49	57.80		
MAITLAND	DEP	alkcol	R	29	1010	23.0	0.9	253	30	8.67	25.0	61.4	61.5	52.7	0.06	0.56	56.31		
CASSIDY	DEP	acidcl65	R	10	110	5.0	4.5	29	10	5.13		46.4	38.5	37.4		0.09	87.06		
GAP	DEP	acidcl65	R	0	10	5.0	4.2	25	15	5.20	0.5	46.4	39.5		0.00	0.05	86.40	2	
PATE PON	DEP	acidcol	R	18	464	33.8	1.0	25	40	4.20		65.1	60.0	45.8		0.00	54.44		
PATE PON	DEP	acidcl65	R	18	464	33.8	1.0	24	10	4.30		65.1	60.0	45.8		0.00	54.44		
PATE PON	DEP	acidcol	R	18	464	33.8	1.0	23	35	4.30		65.1	60.0	45.8		0.00	54.44		
MORRIS	DEP	acidcol	R	10	420	5.0	1.9	104	60	4.95		46.4	50.9	37.4			77.12		
HIAWATHA	DEP	acidcol	R	27	620	11.4	1.4	135	26	6.14	2.0	54.5	55.2	51.7	0.01	0.99	67.09		
A.J.HENR	DEP		NR	77	1810	80.0	0.4	110		9.89	25.0	73.6	73.2	66.8			36.84		
MORRIS	DEP	acidcol	R	19	369	5.0	3.4		30	4.07	0.5	46.4	42.4	46.9			84.05		
GAP	DEP	acidcl65	R	10	378	5.0	4.1		11	4.31	20.0	46.4	39.7	37.4	0.04		86.23	2	
PATE PON	DEP	acidcol	R	10	410		1.3		40	3.75	20.0		56.8	37.4	0.00				
PATE PON	DEP	acidcl65	R	10	390		1.7		10	3.75	0.5		52.8	37.4	0.00				
PATE PON	DEP	acidcol	R	10	390	5.0	1.4		35	3.75	20.0	46.4	55.2	37.4	0.00		73.72		
CASSIDY	DEP	acidcl65	R	10	110	5.0	4.0		16	4.33	20.0	46.4	39.9	37.4	0.06		86.04		
LOYAL	DEP	alkcol	R	21	437	1.0	1.0	67	30	7.40	2.0	30.6	59.5	48.3	0.03	0.91	83.13		
MARGARET	DEP	acidcol	R	15	460	1.0	0.7	170	65	4.00		30.6	65.1	42.9		0.45	78.60		
GEORGES	DEP	acidcol	R	31	150	1.0	1.0	69	30	5.00	0.5	30.6	59.5	53.7	0.00	0.08	83.13		
SWIFT CR	DEP	acidcol	R	10	867	3.8		52	283	4.53		43.6		37.4		0.09			
WATERS	DEP	acidcol	R	33	727	1.0		45	120	5.73		30.6		54.4					
PALESTIN	DEP	acidcol	R	10	527	1.0		40	93	5.03		30.6		37.4		0.04		17	
OCTAHATC	DEP	acidcol	R	410	1087	1.0	0.7	48	180	5.33		30.6	65.1	90.9		0.25	78.60		
DISSTON	DEP	acidcol	R	10	850	8.8	0.6	192	240	6.10	3.0	51.9	67.4	37.4			59.34		
DISSTON	DEP	acidcol	R	26	880	3.3	0.6	190	240	5.90	3.0	42.3	67.4	51.1	0.00	0.10	67.18		
DISSTON	DEP	acidcol	R	24	870	6.5	0.6	228	240	6.10	3.0	49.0	67.4	50.0	0.00	0.12	61.73		
DISSTON	DEP	acidcol	R	23	900	5.8	0.6	208	383	6.10	4.0	47.8	67.4	49.4			62.74		
ALTHO	DEP	acidcol	R	10	617	3.3	1.1	90	80	5.40	3.3	42.3	58.2	37.4	0.01	0.17	74.63		
CROSBY	DEP	acidcol	R	121	768	7.2	1.1	69	240	5.68	2.7	50.0	58.6	73.3	0.00	0.13	67.96	17	
HAMPTON	DEP	acidcol	R	10	580	2.1	1.6	100	40	6.25	2.0	38.0	53.2	37.4	0.00	0.12	82.22		
ANNIE	DEP	acidcl75	R	10	273	1.0	4.2	45	15	4.70	17.0	30.6	39.4	37.4	0.20	0.53	99.36		
CHARLOTT	DEP	acidcol	R	127	463	4.2	1.4	77	40	4.60	17.0	44.8	54.8	74.0	0.08	0.38	75.33		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
CLAY	DEP	acidcl75	R	10	483	7.8	1.9	168	10	5.87	7.8	50.8	50.8	37.4	0.02	0.46	73.67		
DINNER	DEP	alkclr	R	10	730	4.9	2.7	203	5	7.23	34.3	46.1	45.5	37.4	0.09	0.53	81.75		
HUNTLEY	DEP	acidcl75	R	16	758	1.0	1.4	160	20	5.25	8.0	30.6	55.2	43.9	0.01	0.24	86.67		
LTL JACK	DEP	alkcol	NR	49	1097	36.9	1.0	147	30	9.10	13.0	66.0	60.7	60.3			53.13		
LOTELA	DEP	alkclr	R	16	570	1.0	1.5	139	5	6.78	17.0	30.6	54.2	44.1	0.02	0.17	87.47		
VIOLA	DEP	alkclr	R	10	1137	2.0	2.5	220	8	8.13	33.0	37.4	46.8	37.4			87.82		
WOLF	DEP	acidcol	R	213	1343	1.0	0.1	82	560	4.87	17.0	30.6	93.2	81.5	0.14	0.67	55.95		
ANNIE	DEP	acidcl75	R	10	240	1.0	7.1	41	5	4.80	0.5	30.6	31.8	37.4	0.01	0.48	100.00		
CHARLOTT	DEP	acidcol	R	100	430	10.4	1.7	74	50	4.40	0.5	53.6	52.4	70.6	0.00	0.36	70.10		
CLAY	DEP	alkclr	R	10	540	7.5	2.5	183	20	7.30	3.0	50.4	46.8	37.4	0.01	0.50	77.22		
DINNER	DEP	alkclr	R	10	540	7.2	1.8	201	10	7.60		50.0	51.5	37.4		0.53	73.70		
HUNTLEY	DEP	acidcl75	R	21	470	6.8	1.4	150	15	5.60		49.4	55.2	48.1		0.22	71.26		
LTL JACK	DEP	alkcol	NR	53	1510	57.8	0.6	134	70	6.90	17.0	70.4	67.4	61.4			44.17		
LOTELA	DEP	acidcl75	R	10	360	1.0	2.3	131	5	6.30	4.0	30.6	48.0	37.4	0.00	0.16	92.44		
VIOLA	DEP	alkclr	R	10	670	3.3	4.5	227	10	7.80	37.0	42.3	38.3	37.4			90.40		
WOLF	DEP	acidcol	R	190	910	7.8	0.4	78	240	5.10	0.5	50.7	73.2	79.8	0.00	0.64	55.58		
KINGSLEY	DEP	alkclr	NR	10	347	1.0	2.7	78	5	7.33	6.8	30.6	45.7	37.4	0.00	0.05	94.31		
MARION	DEP		NR	140	1510	52.6	0.6	180		6.73	31.0	69.5	67.4	75.4	0.01	0.03	44.93		
SELLERS	DEP	acidcl75	R	10	110		3.8	72	5	3.80	0.5		40.8	37.4					
SELLERS	DEP	acidcl75	R	10	110	1.0	6.9	75	5	4.10	0.5	30.6	32.2	37.4			100.00		
SELLERS	DEP	acidcl75	R	10	290	1.0	3.0	63	5	4.77	0.5	30.6	44.2	37.4			95.54		
SELLERS	DEP	acidcl75	R	10	110	1.0	3.2	74	5	4.53	0.5	30.6	43.2	37.4			96.29		
SELLERS	DEP	acidcl	R		0		4.1	74	5	3.80			39.7						
SELLERS	DEP	acidcl	R		0		2.7	73	3	3.80			45.7						
SELLERS	DEP	acidcl	R		0		2.4	73	3	3.80			47.4						
SELLERS	DEP	acidcl	R		0				3	4.60									
SELLERS	DEP	acidcl75	R	10	110		5.1	79	3	4.13			36.5	37.4		0.08			
MINNEOLA	DEP	alkcol	R		0		2.2	124	30	6.92			48.6						
MINNEOLA	DEP	alkcol	R		0		2.3	124	30	6.86			48.0						
MINNEOLA	DEP	alkcol	R		0		2.2	124	30	6.83			48.6						
LIVINGST	DEP	alkcol	NR	240	1970	4.6	0.4	251	240	6.92	15.0	45.6	73.2	83.2	0.01	0.21	59.81		
MATTIE	DEP	alkcol	R	97	1210	9.4	0.5	245	120	7.41	3.0	52.6	70.0	70.1	0.00	0.23	56.65		
MATTIE	DEP	alkcol	R	83	1110	8.6	0.6	244	120	7.41	3.0	51.7	67.4	67.9	0.00	0.23	59.55		
MATTIE	DEP	alkcol	R	74	930	8.7	0.5	244	120	7.41	3.0	51.8	70.0	66.2			57.32		
MATTIE	DEP	alkcol	R	80	1110	6.4	0.5	244	120	7.41	4.0	48.8	70.0	67.3			59.73		
ALICE	DEP	acidcl75	R	10	192	1.3	1.9	147	5	4.32	0.5	33.0	50.5	37.4	0.01	1.58	88.44		
TOOKE	DEP	acidcl75	R	10	502	1.0	0.8	107	13	6.23	0.8	30.6	62.4	37.4	0.00	0.45	80.84		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
GRASSY	DEP	alkcol	R	10	520	2.3	2.4	145	30	7.30	15.0	38.9	47.2	37.4	0.03	0.28	86.34		
LETTA	DEP	acidcl75	R	10	330	4.7	1.6	143	10	5.90	4.0	45.7	52.9	37.4	0.01	0.30	76.08		
LITTLE R	DEP	acidcol	R	43	570	8.4	0.8	83	80	5.85	4.0	51.5	62.5	58.4			63.57		
BONNET	DEP	acidcol	NR	59	2190	41.9	0.6	225	50	6.45	42.0	67.2	68.0	62.9	0.16	0.87	46.29		
FRANCIS	DEP	acidcl75	R	21	517	7.7	1.8	143	5	5.60		50.6	51.5	48.1		0.27	73.17	67	45
MINNEOLA	DEP	alkcol	R	10	660	7.9	2.0	121	30	6.98	10.0	50.9	50.0	37.4			74.22		
ALCYON	DEP	acidcl65	R	10	420	3.5	3.0	27	5	5.20	0.5	43.0	44.2	37.4	0.04	2.08	85.39		
CONWAY	DEP	alkclr	NR	10	630	15.6	1.4	214	20	8.67	25.0	57.6	55.2	37.4	0.02	0.20	64.55		
MANGO	DEP	alkcol	NR	99	1910	34.0	0.7	156	120	8.94		65.2	66.2	70.4		5.20	49.39		
MIDDLE	DEP	alkcol	NR	93	1610	52.7		137	110	7.14		69.5		69.5		0.64			
HARTRIDG	DEP	acidcol	R	52	1910	49.5	1.0	234	70	6.30		68.9	60.0	61.1		0.54	51.38		
LIZZIE	DEP	acidcol	R	22	820	6.8	3.0	105	58	6.42		49.4	44.2	48.7		1.11	80.08		
BONNET	DEP	alkcol	R	41	1360	38.2	0.7	107	106	7.41		66.3	65.1	57.7		1.32	49.30		
KING	DEP	alkcol	R	23	1310	12.5	1.1	128	76	6.59		55.4	58.6	49.0		1.05	63.54		
GENEVA	DEP	alkcol	R	46	1860	28.5	1.0		198	7.62		63.5	60.0	59.2			55.81		
CHAUTAUQ	DEP	alkcol	R	10	610	3.6	3.1	176	50	7.21		43.3	43.7	37.4			85.53		
BONNY	DEP	alkcol	NR	75	1810	61.2	0.5	113	64	6.92		71.0	70.0	66.3		0.32	41.60	32	43
GARFIELD	DEP	alkcol	R	73	1050	41.1	0.5	94	120	6.79		67.0	70.0	66.0		0.14	44.80		
MARIANNA	DEP	alkclr	NR	58	1750	60.9	0.5	213	16	7.36		70.9	70.0	62.6			41.63		
CONINE	DEP	acidcol	NR	57	1700	52.0	0.7	204	47	6.50		69.4	65.1	62.5		0.86	46.83	26	42
LITTLE R	DEP	acidcol	R	21	580	11.6	1.3	80	30	6.20		54.6	56.2	48.1		0.24	66.11		
LETTA	DEP	acidcl75	R	25	460	5.6	1.4	143	15	6.00		47.5	55.2	50.6		0.30	72.83		
TRAFFORD	DEP	acidcol	NR	360	1250	31.4	0.7	179	100	6.40		64.4	65.1	89.0		0.12	50.87		
KINGS	DEP	acidcl65	I	10	490	5.4	2.0	22	10	5.27	0.5	47.1	50.0	37.4			77.33		
MULEHEAD	DEP	acidcl65	R	10	330	1.0	6.0	29	10	4.78	0.5	30.6	34.2	37.4			100.00		
DUNFORD	DEP	acidcl65	R	10	290	1.0	5.9	24	10	4.46	0.5	30.6	34.4	37.4	0.00	0.12	100.00		
PORTER	DEP	acidcl65	R	10	220	1.0	5.9	25	5	4.38	0.5	30.6	34.4	37.4	0.00	0.03	100.00		
MAJOR	DEP	acidcl65	R	10	110	1.0	4.2	28	5	4.36	0.5	30.6	39.3	37.4	0.01	0.28	99.45		
DOUBLE P	DEP	acidcl65	R	10	300	2.7	3.1	33	10	5.29	0.5	40.2	43.7	37.4	0.02	1.18	88.02		
BLUE PON	DEP	acidcl65	R	10	230	1.0	3.9	26	10	5.04	0.5	30.6	40.4	37.4			98.59		
BLUE	DEP	acidcol	R	21	870	11.8	1.3	37	30	6.39	0.5	54.8	56.2	48.1			65.98		
LITTLE S	DEP	acidcol	NR	10	1025	10.4	1.2	69	100	4.96	0.5	53.6	57.2	37.4	0.00	0.06	66.19		
OCEAN PO	DEP	acidcol	R	29	630	4.3	0.7	43	50	4.88	0.5	44.9	65.1	52.7	0.00	0.02	66.91		
OCEAN PO	DEP	acidcol	R	21	620	3.5	0.9	43	45	5.13		43.0	61.5	48.1		0.02	71.38		
OCEAN PO	DEP	acidcol	R	10	700	3.6	1.0	43	40	4.95		43.3	60.0	37.4			72.36		
OCEAN PO	DEP	acidcol	R	10	690	4.3	1.1	43	40	4.95		44.9	58.6	37.4			72.17		
LOW	DEP	acidcol	R	170	2110	30.8	0.9	52	140	5.90	0.5	64.2	61.5	78.2			53.97		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
GORE	DEP	acidcol	R	26	1410	2.1	0.7	83	150	6.34	20.0	38.1	65.1	51.1	0.24	0.98	72.48		
MAGNOLIA	DEP	acidcl75	R	10	110	2.4	3.1	30	15	5.08	0.5	39.2	43.7	37.4	0.00	0.15	88.84		
SHEELAR	DEP	acidcl75	R	10	250	1.0	9.0	18	5	4.78	0.5	30.6	28.3	37.4	0.03	1.00	100.00		
GENTRY	DEP	acidcol	R	25	1110	4.8	1.2	134	80	6.02	3.0	45.9	57.4	50.6	0.00	0.08	72.31		
GENTRY	DEP	acidcol	R	25	1510	5.1	1.2	138	80	5.87	3.0	46.6	57.4	50.6	0.00	0.08	71.75		
SELLERS	DEP	acidcl75	R	10	110	1.0	4.0	78	5	4.31	0.5	30.6	40.0	37.4			98.89		
DALHOUSI	DEP	alkclr	R	10	750	10.7	2.5	169	15	6.95	9.0	53.9	46.8	37.4	0.04	0.70	74.35		
LITTLE W	DEP	alkclr	R	10	1000	9.3	1.6	147	20	7.00	3.0	52.5	53.2	37.4	0.01	0.46	70.25		
MINNEOLA	DEP	alkcol	R	10	660	7.9	2.0	121	30	6.98	10.0	50.9	50.0	37.4	0.01	0.06	74.22		
MINNEOLA	DEP	alkcol	R	10	1210	8.6	1.8	122	30	7.08	8.0	51.8	51.5	37.4	0.00	0.06	72.25		
BUTLER	DEP	alkclr	NR	10	930	1.0	4.3	229	10	7.87	27.0	30.6	39.0	37.4	0.02	0.14	99.73		
MARY JAN	DEP	acidcol	NR	10	1360	3.9	0.4	71	300	4.98	0.5	43.9	73.2	37.4	0.00	0.06	61.16		
HART	DEP	acidcol	R	38	1130	17.5	0.6	75	300	5.36	0.5	58.7	67.4	56.6			53.77		
HART	DEP	acidcol	R	31	1260	14.8	0.6	78	300	5.39	0.5	57.0	67.4	53.7	0.00	0.04	55.13		
CONWAY	DEP	alkclr	NR	10	520	6.7	2.2	216	15	8.50	24.0	49.3	48.6	37.4	0.02	0.20	76.59		
BLUE CYP	DEP	alkcol	R	140	1040	1.0	1.0	131	500	6.87		30.6	60.0	75.4		0.02	82.75		
BLUE CYP	DEP	alkcol	R	130	1060	1.0	0.8	140	500	6.60		30.6	63.2	74.3		0.02	80.15		
TARPON	DEP	alkcol	NR	57	1610	17.2	0.1	739	76	8.00		58.5	100.5	62.5		0.29	27.12		
TARPON	DEP	alkcol	NR	54	1510	14.9	0.8	737	78	7.60		57.1	63.2	61.7		0.29	58.45		
TARPON	DEP	alkcol	NR	74	1610	13.5	0.5	739	60	8.00		56.1	70.0	66.2		0.29	53.77		
TARPON	DEP	alkcol	NR	53	1060	26.1	0.5	766	134	6.53		62.6	70.0	61.4		0.30	48.45		
POSTON P	DEP		R	10	890	3.0	2.3	40		7.60		41.3	48.0	37.4			83.64		
OICHEESE	DEP	acidcol	R	21	1000	17.7	1.2	21	27	5.35		58.8	57.4	48.1		0.01	61.75		
ADAMS	DEP	alkcol	R	32	1200	12.5	0.4	67	499	6.60		55.4	73.2	54.1		1.23	51.78		
LOGAN	DEP		R	10	1300	10.3	1.6			6.84		53.4	53.2	37.4			69.50		
MICCOSUK	DEP	acidcol	R	29	1200	5.6	1.3	23	70	5.75		47.5	56.8	52.5		0.00	71.46		
PICKETT	DEP		R	35	1100	13.0	0.4	63		6.50		55.8	73.2	55.4		0.74	51.46		
DORR	DEP	acidcol	R	43	610	12.4	0.7	71	80	5.40		55.3	65.1	58.4		0.05	58.35		
EATON	DEP	acidcol	R	53	2000	2.2	0.3	102	613	6.30		38.3	77.3	61.4		0.33	62.40		
ELLEN	DEP	acidcol	R	10	1300	4.3	1.0	40	95	5.30		44.9	60.0	37.4		0.27	71.06		
FORT ATK	DEP		R	34	1400	8.1	0.5	59		4.50		51.1	70.0	55.0		2.57	57.88		
GRASSHOP	DEP	acidcl75	R	10	950	6.0	1.0	74	1	4.50		48.2	60.0	37.4			68.35		
OTTER	DEP	acidcol	R	40	2000	1.0	0.6	119	222	4.61		30.6	67.4	57.3		0.89	76.80		
SILVER	DEP	acidcl65	R	10	300	2.6	4.2	20	18	5.18		39.9	39.3	37.4		1.54	91.86		
TOWNSEND	DEP	acidcol	NR	36	1200	25.5	0.5	46	206	5.50		62.4	70.0	55.8		0.42	48.63		
WILDCAT	DEP	acidcl75	R	10	550	3.9	1.2	62	18	4.80		43.8	57.4	37.4		0.27	74.03		
HALFMOON	DEP	acidcol	NR	30	1300	15.0	1.3	65	40	6.45		57.1	56.2	53.2		0.19	64.04		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
LOU	DEP	acidcol	NR	22	1200	15.0	1.2	77	60	5.00		57.1	57.4	48.7		0.72	63.11		
ANDREWS	DEP	acidcol	R	10	600	16.6	1.5	55	85	5.19		58.1	54.2	37.4		1.25	64.89		
DELANCY	DEP	acidcol	R	10	840	6.4	1.5	50	24	5.30		48.8	54.2	37.4		0.13	72.51		
TURKEY P	DEP	acidcl65	R	10	110	1.0	4.6	28	5	4.25	0.5	30.6	38.0	37.4	0.03	1.72	100.00		
Red Beac	DEP	acidcol	R	21	1170	1.0	0.8	77	80	5.70		30.6	63.2	48.1		0.23	80.15		
Apthorpe	DEP	alkcol	R	10	1770	1.0	2.1	169	40	6.80		30.6	49.3	37.4		0.77	91.39		
Glenada	DEP	alkcol	NR	240	1420	118.9	0.5	209	100	9.50		77.5	70.0	83.2		1.18	36.25		
Lelia	DEP	alkcol	R	21	1210	2.6	1.9	174	40	7.40		39.9	50.8	48.1		1.05	82.63		
Little	DEP	acidcol	R	10	640	1.0	1.6	36	60	4.20		30.6	53.2	37.4		4.50	88.22		
Submarin	DEP	acidcol	NR	10	380	1.0	1.8	38	50	4.20		30.6	51.5	37.4		1.73	89.59		
Red Beac	DEP	acidcol	R	10	560	12.2	0.9	79	80	6.50		55.1	61.5	37.4		0.24	61.44		
Kerr	DEP	acidcl75	NR	10	280	1.8	2.7	180	15	5.69		36.1	45.7	37.4		0.06	89.81		
Open	DEP	acidcl65	R	10	105	9.0	5.0	82	5	4.32		52.2	36.8	37.4		0.51	82.33		
Defuniak	DEP	acidcl65	NR	10	325	12.0	4.4	78	10	5.42		55.0	38.7	37.4			80.01		
Rattlesn	DEP	acidcl65	R	10	105	10.5	4.7	80	5	4.33		53.7	37.7	37.4		0.80	81.09		
DUNFORD	DEP	acidcl65	R	10	300	10.0	5.8	79	5	4.28		53.2	34.7	37.4		0.38	81.48		
ALICE	DEP	acidcl75	R	10	100	10.0	4.0	131	4	4.51		53.2	40.0	37.4		1.41	80.37		
Big Blue	DEP	acidcl65	R	10	183	8.0	4.4	54	10	4.53		51.0	38.7	37.4			83.27		
Hurrican	DEP	alkcol	I	60	995	32.1	1.5	148	30	7.15		64.6	54.2	63.2			59.58		
CHERRY	DEP	alkcol	R	24	870	6.6	1.1	108	80	6.89	5.0	49.2	58.6	50.0	0.01	0.27	68.65		
CRESCENT	DEP	alkclr	I	10	660	2.7	3.8	116	20	6.79	3.0	40.5	40.8	37.4	0.02	0.81	90.21		
MAJOR	DEP	acidcl65	R	10	110	8.0	3.3	83	15	4.37		51.0	42.8	37.4		0.83	79.92		
Apthorpe	DEP	alkcol	R	10	787	15.2	1.1	171	40	6.80		57.3	58.6	37.4		0.78	61.95		
Cherry	DEP	acidcl65	R	29	410	10.0	2.7	42	5	5.92		53.2	45.7	52.5		0.09	75.79		
Lelia	DEP	alkcol	R	10	600	4.3	1.2	169	40	8.20		44.9	57.4	37.4		1.02	73.18		
Glenada	DEP	alkcol	NR	57	980	47.0	0.7	186	100	8.70		68.4	65.1	62.5		1.05	47.63		
STELLA	DEP	alkclr	NR	10	600	1.0	2.1	208	12	6.60	16.0	30.6	49.3	37.4	0.05	0.68	91.39		
Court Ma	DEP	acidcl65	R	10	318	1.0	6.5	84	10	4.92		30.6	33.0	37.4		0.31	100.00		
JACKSON	DEP	alkclr	NR	10	355	1.0	2.8	101	10	7.55		30.6	45.2	37.4		0.48	94.73		
Keystone	DEP	acidcol	R	10	530	1.0	2.3	89	30	6.14		30.6	48.0	37.4		0.21	92.44		
NEWNANS	DEP	alkcol	NR	78	3400	178.2	0.2	80	250	9.33		81.4	83.2	67.0		0.01	22.33		
TALQUIN	DEP	alkcol	I	80	540	14.3	0.9	90	120	6.60		56.7	61.5	67.3		0.01	60.12		
TALQUIN	DEP	alkcol	I	74	610	20.6	1.4	100	60	6.90		60.3	55.2	66.2		0.01	62.34		
TALQUIN	DEP	alkcol	I	46	670	22.6	1.2	92	50	7.90		61.2	57.4	59.4		0.01	59.80		
Piney Z	DEP	acidcol	NR	51	1100	25.0	1.1	33	40	6.47		62.2	58.6	60.8		0.17	57.97		
Henry	DEP	alkcol	NR	160	760	1.0	0.7	126	167	7.23		30.6	65.1	77.3			78.60		
TOOKE	DEP	alkclr	R	10	430	1.0	2.2	72	8	7.50		30.6	48.6	37.4		0.31	91.93		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Panasofk	DEP	alkcol	R	10	690	1.0	1.8	180	27	8.50		30.6	51.5	37.4		0.04	89.59		
Panasofk	DEP	alkcol	R	23	940	1.0	1.0	220	27	8.20		30.6	60.0	49.4		0.05	82.75		
TSALA AP	DEP	alkcol	R	10	790	1.0	3.0	118	127	6.70		30.6	44.2	37.4		0.01	95.54		
TSALA AP	DEP	alkcol	R	10	760	1.0	1.5	123	127	7.00		30.6	54.2	37.4		0.01	87.47		
TSALA AP	DEP	alkcol	R	25	910	2.3	1.6	150	127	6.90		38.6	53.2	50.6		0.01	81.70		
TSALA AP	DEP	alkcol	R	25	1000	7.9	1.3	167	127	7.00		50.9	56.2	50.6		0.01	69.17		
TSALA AP	DEP	alkcol	R	32	870	7.0	1.1	153	127	7.00		49.6	58.6	54.1		0.01	68.27		
TSALA AP	DEP	alkcol	R	36	930	15.4	1.1	177	127	7.10		57.4	58.6	55.8		0.01	61.87		
FRANCIS	DEP	alkcol	NR	310	3700	283.1	0.1	151	200	9.10		86.0	93.2	86.9		7.19	10.54		
County C	DEP	alkcol	NR	4100	6900	513.2	0.2	1473	120	9.68		91.8	83.2	124.1			14.02		
Buffum	DEP	acidcol	R	46	540	1.0	1.1	160	21	5.70		30.6	58.6	59.4		0.10	83.86		
Buffum	DEP	acidcol	R	55	600	18.1	0.8	150	21	6.30		59.0	63.2	61.9		0.10	56.88		
MUNSON	DEP	acidcol	NR	570	2000	35.0	0.4	88	80	6.39		65.5	73.2	95.7		0.35	43.49		
LAFAYETT	DEP	acidcol	R	120	2700	53.3	0.2	32	120	5.50		69.6	83.2	73.2		0.01	32.04		
Iammonia	DEP	acidcol	R	42	630	1.0	1.0	62	100	5.50		30.6	60.0	58.0			82.75		
Iammonia	DEP	acidcol	R	10	450	1.0	2.0	27	40	5.70		30.6	50.0	37.4			90.82		
Iammonia	DEP	acidcol	NR	120	1300	27.3		76	50	5.80		63.0		73.2			46.83		
Juliana	DEP	alkcol	R	44	850	9.0	0.9	218	40	8.20		52.1	61.5	58.7		0.24	63.87		
MATTIE	DEP	alkcol	R	70	1000	28.0	0.6	181	120	7.41		63.3	67.4	65.4		0.17	50.00		
CLINCH	DEP	alkcol	R	23	520	1.0	1.9	140	24	7.10		30.6	50.8	49.4		0.12	90.22		
CLINCH	DEP	alkcol	R	25	550	1.0	1.8	141	24	7.10		30.6	51.5	50.6		0.12	89.59		
THONOTOS	DEP	alkcol	NR	260	1800	97.1	0.4	472	82	9.50		75.5	73.2	84.3		0.58	35.29	45	51
McBride	DEP	acidcol	R	33	450	13.3	1.5	33	50	6.42		56.0	54.2	54.6		0.21	66.64		
MICCOSUK	DEP	acidcol	R	10	650	20.0	0.9	29	100	5.50		60.0	61.5	37.4		0.00	57.43		
MICCOSUK	DEP	acidcol	R	10	570	8.0	1.1	30	40	6.20		51.0	58.6	37.4		0.00	67.14		
Little	DEP	acidcol	R	10	415	1.0	2.0	39	60	4.40		30.6	50.0	37.4		4.88	90.82		
Submarin	DEP	acidcol	NR	10	225	1.0	2.7	42	50	4.30		30.6	45.7	37.4		1.91	94.31		
Hammond	DEP	acidcol	R	10	690	3.7	2.4	150	30	6.37		43.5	47.4	37.4		1.70	82.33		
Dixie	DEP	acidcol	R	19	774	5.6	1.1	130	80	5.48		47.5	58.6	46.6		26.00	70.02		
HOWELL	DEP	alkcol	NR	41	675	26.7	1.0	160	50	7.90	40.0	62.8	60.0	57.7	0.10	0.39	56.33		
MAITLAND	DEP	alkcol	R	30	650	27.1	1.0	176	30	8.25	42.0	63.0	60.0	53.2	0.09	0.39	56.23		
SEMINARY	DEP	acidcl75	R	13	470	6.0			15	6.30		48.2		41.1					
ORIENTA	DEP	alkcol	NR	61	1000	60.0			50	8.87		70.8		63.4					
Rexford	DEP	acidcl75	NR	11	510	5.5	2.7	104	20	6.22		47.4	45.7	38.7		2.03	80.56		
WILSON	DEP	alkcol	NR	13	850	5.1	2.4	103	40	6.97		46.6	47.4	41.1		1.72	79.81		
Gifford	DEP	acidcol	NR	18	795	16.2		113	70	6.22		57.9		45.8		1.88			
TROUT	DEP	alkcol	NR	140	1000	20.8	0.8	120	150	6.52		60.4	63.2	75.4		9.97	55.76		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
ALLIGAT1	DEP	acidcol	NR	22	640	4.6	1.0	103	60	6.47	2.0	45.5	60.0	48.7	0.00	0.03	70.56		
CENTER	DEP	acidcol	NR	110	1250	8.6	0.2	93	300	5.14	0.5	51.7	83.2	71.9	0.00	0.23	46.76		
ASHBY	DEP	alkcol	NR	98	760	5.5	0.8	99	150	6.91	14.0	47.2	63.2	70.3	0.01	0.10	66.52		
Dias	DEP	alkcol	NR	37	785	23.9	0.7	107	80	6.63		61.7	65.1	56.2		0.15	53.07		
EMMA	DEP	alkcol	NR	10	680	7.7	1.0	108	60	6.52	6.0	50.7	60.0	37.4	0.03	0.62	66.30		
SELLERS	DEP	acidcl75	R	10	110	1.0	4.8	73	5	4.09	0.5	30.6	37.4	37.4			100.00		
SOUTH	DEP	alkcol	NR	63	1830	39.2	0.6	493	60	7.86	104.0	66.6	67.4	63.9	0.09	0.45	47.30		
Little O	DEP	acidcol	NR	55	1600	1.0	1.2	59	100	6.25		30.6	57.4	61.9		0.07	84.87		
TAMPA BA	DEP		NR	150	5100	204.1	0.3	3814		8.51		82.8	77.3	76.4			25.96		
BEAR	DEP	alkcol	I	43	604	14.3	1.1	53	40	7.42		56.7	58.6	58.4		0.49	62.45		
CRESCENT	DEP	acidcol	I	10	290	1.0	1.9	62	40	6.33	14.0	30.6	50.8	37.4	0.16	0.73	90.22		
Sand Ham	DEP	acidcl65	NR	17	614	1.0	2.3	31	15	5.90		30.6	48.0	45.0		0.58	92.44		
JUNIPER	DEP	acidcol	I	14	435	1.0	2.3	20	30	5.90		30.6	48.0	42.2		0.03	92.44		
BRICK	DEP	acidcol	NR	10	1110		0.4	124	300	4.17	2.0		73.2	37.4	0.00	0.20			
Dixie	DEP	acidcol	R	10	720	5.6	1.6	126	75	6.11		47.5	53.2	37.4		25.27	74.38		
Hammond	DEP	acidcol	R	15	654	3.7	2.7	146	30	6.22		43.5	45.7	43.2		1.66	83.70		
Webb	DEP	alkclr	NR	10	764	1.0	2.5	127	10	8.10		30.6	46.8	37.4			93.41		
Webb	DEP	alkclr	NR	10	804	1.0	1.5	99	10	7.80		30.6	54.2	37.4			87.47		
JOSEPHIN	DEP	alkcol	NR	53	767	6.9	0.4	107	80	6.85		49.5	73.2	61.4		0.09	56.53		
JOSEPHIN	DEP	acidcol	NR	92	1259	31.6	0.5	92	80	6.05		64.5	71.5	69.3		0.07	45.69		
FISH	DEP	alkcol	NR	44	1100		0.8	123	60	6.90			63.2	58.7		0.56			
Kilamey	DEP	alkcol	NR	59	1000	51.7	1.0	172	40	8.11		69.3	60.0	62.9		0.72	51.02		
Jumper	DEP	alkcol	NR	22	1600	9.8	1.1	107	75	6.93		53.0	58.6	48.7		0.35	65.49		
Denton	DEP	alkclr	NR	10	2420	1.0	5.2	256	5	8.30		30.6	36.2	37.4		3.88	100.00		
Denton	DEP	alkclr	NR	10	2930	1.0	6.1	263	5	7.60		30.6	33.9	37.4		3.98	100.00		
Rachard	DEP	alkclr	NR	34	590	4.0	1.4	199	15	9.10		44.1	55.2	55.0			75.60		
Rachard	DEP	alkclr	NR	10	574	22.0	1.1	189	5	8.90		60.9	58.6	37.4			59.00		
BEAR	DEP	alkcol		43	604	14.3	1.1	53	40	7.42		56.7	58.6	58.4		0.49	62.45		
SANDHAMMOCKPOND	DEP	acidcl65		17	614	0.9	2.3	31	15	5.90		29.3	48.0	45.0		0.58	93.47		
JUNIPER	DEP	acidcol		14	435	0.9	2.3	20	30	5.90		29.3	48.0	42.2		0.03	93.47		
ROUSSEAU	DEP			80	880	1.0		210	70			30.6		67.3					
ROUSSEAU	DEP	alkcol		88	970	1.0	0.9	200	70	7.10		30.6	61.5	68.7			81.52		
DEER	DEP			43	1304	13.7	0.8	155	50			56.3	63.2	58.4		2.38	59.11		
LOWERY	DEP	alkcol		22	1204	1.0	1.4	150	50	6.60		30.6	55.2	48.7			86.67		
MARTHA	DEP			15	425	1.0	4.7	239	5			30.6	37.7	43.2		2.81	100.00		
SWIM	DEP	alkclr		15	164	1.0		50	5	6.60		30.6		43.2					
AVALON	DEP	alkclr		15	556		1.5	444	15	8.10			54.2	43.2					

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
AVALON	DEP	alkclr		15	765	0.9	1.7	424	20	7.60		29.3	52.4	43.2			89.95		
JOSEPHINE	DEP	alkcol			767	6.9	0.4	107	80	6.85		49.5	73.2			0.09	56.58		
JOSEPHINE	DEP	alkcol	29	626	12.8	0.4	120	80	6.90			55.6	73.2	52.7		0.10	51.61		
JOSEPHINE	DEP	acidcol	61	1107	17.3	0.4	84	80	6.10			58.5	73.2	63.4		0.07	49.18		
JOSEPHINE	DEP	acidcol	110	1311	30.7	0.5	99	160	6.00			64.2	70.0	71.9		0.08	47.15		
SANDHAMMOCKPOND	DEP	acidcol		180	689	1.0		33	40	5.60		30.6		79.0		0.62			
JUNIPER	DEP	acidcol		80	600	1.1		23	30	5.50		31.7		67.3		0.03			
HUNTLEY	DEP	alkcol		42	720	1.1	1.5	126	30	7.00		31.5	54.2	58.0		0.19	86.70		
BEAR	DEP	acidcol		820	960	1.1		56	30	6.00		31.7		100.9		0.51			
DINNER	DEP	alkclr		12	670	1.1	2.7	163	10	7.50		31.5	45.7	40.0		0.43	93.54		
CRESCENT	DEP	acidcl65		7	670	1.1		68	15	6.20		31.7		32.2		0.80			
KATHRYN	DEP	alkcol		20	794		0.6	174	40	8.42			67.4	47.3		2.29			
IVANHOE	DEP	alkcol		43	804		1.0	167	40	7.79			60.0	58.4		1.34			
ALLIGATOR	DEP	alkcol		26	677		1.0	100	75	7.08			60.0	51.1		0.03			
TROUT	DEP	acidcol		44	908		0.6	73	150	5.62			67.4	58.7		0.27			
LIZZIE	DEP	acidcol		32	872		0.8	85	100	5.63			63.2	54.1		0.11			
UNDERHILL	DEP	alkcol		48	974		0.6	135	60	7.20			67.4	60.0		0.92			
SAWGRASS	DEP	alkcol		200	1529		1.0	324	150	6.82			60.0	80.6		0.80		30	43
FAIRVIEW	DEP	alkcol		28	723		1.1	152	40	7.65			58.6	52.2		0.38			
MINNEHAHA	DEP	alkcol		21	585		0.8	154	30	7.64			63.2	48.1					
GIBSON	DEP	alkclr		4	454		4.4	266	15	6.90			38.7	24.1		3.50			
SOUTHTWIN	DEP	alkclr		7	564		6.0	250	10	7.81			34.2	32.2		3.09			
UMATILLA	DEP	alkcol		28	804		1.1	179	30	6.63			58.6	52.2		1.11			
MARTIN	DEP			29	334	9.4	1.0	168	30			52.6	60.0	52.7			64.73		
MARTIN	DEP			17	864	1.0	1.0	378	20			30.6	60.0	45.0			82.75		
STONE	DEP			46	614	22.4	1.0	49	30			61.1	60.0	59.4			57.75		
KELLAIR	DEP			270	794	22.3	1.0	284	100			61.1	60.0	84.9			57.78		
COTTON	DEP			32	520	2.1	1.0	175	60			38.1	60.0	54.1		13.46	76.63		
LOWERDEERPOINT	DEP			18	444	1.0	1.0	90	30			30.6	60.0	45.8		0.02	82.75		
UPPERDEERPOINT	DEP			15	184	1.0	1.0	89	20			30.6	60.0	43.2		0.02	82.75		
GEORGES	DEP	acidcol		40	164	1.0	1.3	26	30	4.30		30.6	56.2	57.3		0.03	85.80		
JOHNSON	DEP	acidcol		15	192	1.0	1.5	17	40	4.10		30.6	54.2	43.2		0.04	87.47		
PERSIMMON	DEP	alkcol		37	3400	47.0	0.6	305	40	7.40		68.4	67.4	56.2			45.84		
CLAY	DEP	acidcl75		15	530	1.1		132	10	6.50		31.5		43.2		0.36			
SUNSHINE	DEP	alkclr		45	504	1.1		326	20	7.70		31.5		59.0					
CRYSTAL	DEP	alkclr		17	844	1.1	6.0	3198	10	8.00		31.5	34.2	45.0			99.23		
PARKER	DEP	alkcol		240	3004	196.0		127	150	8.40		82.4		83.2		0.06		32	48

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAIk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
SHIPP	DEP	alkcol		50	1604	50.9		165	75	7.70		69.2		60.6		0.58		57	74
MIRROR	DEP	alkcol		32	1004	22.6		148	75	6.80		61.2		54.1		1.20			
MAY	DEP	alkcol		76	1804	54.3		163	100	7.10		69.8		66.6		3.70		35	48
LENA	DEP	alkcol		61	1604	63.9		195	75	9.17		71.4		63.4		0.94			
EFFIE	DEP	alkcol		220	2504	140.0	0.3	420	150	6.97		79.1	77.3	81.9		4.12	28.99		
BUCK	DEP	alkcol		150	1404	94.5		120	200	6.56		75.2		76.4		3.24			
PARKER	DEP	alkcol		190	2640	74.8		129	200	7.23		72.9		79.8		0.06		32	48
COWPEN	DEP	acidcl75		41	134	1.0		58	5	4.60		30.6		57.7		0.10			
RODMAN	DEP	alkcol		63	724	1.0		415	150	7.10		30.6		63.9		0.03			
RODMAN	DEP	alkcol		65	837	1.1	0.7	448	150	7.50		31.7	65.1	64.3		0.03	77.69		
BROOKLYN	DEP	acidcol		15	284	1.0	2.0	15	30	5.26		30.6	50.0	43.2		0.02	90.82		
KINGSLEY	DEP	alkclr		16	264	1.0	6.0	49	10	6.60		30.6	34.2	44.1			100.00		
DEATON	DEP	alkcol		25	1804	35.7	0.3	170	60	8.42		65.7	77.3	50.6		0.22	39.98		
CRYSTAL	DEP	alkclr		15	794	1.0	4.6	3465	5	8.00		30.6	38.0	43.2			100.00		
CLAY	DEP	alkclr		20	514	1.0	2.9	138	15	7.00		30.6	44.7	47.3		0.38	95.14		
DINNER	DEP	alkclr		15	1204	1.0	2.1	174	10	7.20		30.6	49.3	43.2		0.46	91.39		
HUNTLEY	DEP	alkclr		26	524	1.0	1.4	133	20	6.70		30.6	55.2	51.1		0.20	86.67		
PERSIMMON	DEP	alkcol		37	3540	62.7	0.4	312	100	6.90		71.2	73.2	56.2			38.80		
SUNSHINE	DEP	alkcol		29	734	6.6	0.8	346	30	7.90		49.1	63.2	52.7			64.98		
SEBRING	DEP	alkcol		68	581	1.1	0.7	88	140	7.10		31.5	65.1	65.0			77.83		
VIOLA	DEP	alkclr		15	820	1.0	4.2	210	10	7.60		30.6	39.3	43.2			99.45		
SEBRING	DEP	acidcol		27	632	35.9	0.7	82	100	6.40		65.7	65.1	51.7			49.80		
WEIR	DEP	alkcol		41	884	8.7	1.7	169	80	7.32		51.8	52.4	57.7		0.03	71.56	18	18
MOON	DEP	acidcol		15	634	1.1	1.7	94	50	6.10		31.7	52.4	43.2		0.95	88.01		
BIRD	DEP	acidcol		26	734	1.1	2.0	130	40	5.80		31.7	50.0	51.1		0.87	89.91		
ANN	DEP	acidcol		23	574	12.8	1.3	104	40	5.60		55.6	56.2	49.4			65.30		
FORTCOOPER	DEP	alkcol		16	834	1.1	2.0	267	75	7.00		31.7	50.0	44.1		1.78	89.91		
NEFF	DEP	acidcol		84	1208	26.3	0.5	55	150	5.60		62.7	70.0	68.0		0.24	48.39		
STEMPER	DEP	alkcol		23	1004	1.1	1.1	117	75	7.20		31.7	58.6	49.4		0.93	82.95		
MONKEYBUSINESS	DEP	acidcol		67	1205	29.5	0.9	12	75	6.13		63.8	61.5	64.8			54.30		
HALL	DEP	acidcl65		34	384	2.9	4.2	9	15	5.40		41.0	39.3	55.0		0.05	90.92	8	
TALLAVANA	DEP	alkcol		150	756	29.5	1.0	129	75	7.90		63.8	60.0	76.4			55.53		
WEIR	DEP	alkcol		20	854	8.3	1.7	171	80	7.82		51.3	52.4	47.3		0.03	71.93	18	18
WEIR	DEP	alkcol		29	854	8.8	1.7	170	80	7.57		52.0	52.4	52.7		0.03	71.42	18	18
COTTON	DEP	alkcol		55	490	1.0		29	100	6.98		30.6		61.9		2.23			
STONE	DEP	alkcol		15	397	10.8		46	30	6.75		53.9		43.2					
UPPERDEERPOINT	DEP	alkcol		15	294	1.0			75	6.70		30.6		43.2					

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
LOWERDEERPOINT	DEP	alkcol		15	315	1.0		9	75	6.84		30.6		43.2		0.00			
LUCAS	DEP	acidcl65		15	184	1.1		24	5	4.53		31.7		43.2		0.05			
MOSSYPOND	DEP	acidcl65		22	244	2.9		21	10	4.42		41.0		48.7		0.20			
HICKS	DEP	acidcl65		15	244	1.1		24	10	4.84		31.7		43.2		0.05			
KELLAIR	DEP	alkcol		240	625	1.1		194	75	7.37		31.5		83.2					
VIOLA	DEP	alkclr		15	550	5.6	3.5	199	5	8.10		47.5	41.9	43.2			83.48		
MARTIN	DEP	alkcol		27	630	21.0		264	75	7.75		60.5		51.7					
MARTIN	DEP	alkcol		28	460	1.0		97	100	7.00		30.6		52.2					
EAGLE	DEP	alkcol		19	694	16.7	1.3	300	30	7.54		58.2	56.2	46.6		0.46	63.16		
WINTERSET	DEP	alkcol		37	1104	32.0	4.0	315	40	8.04		64.6	40.0	56.2		0.57	71.01		
WALES	DEP	alkclr		21	504	6.1	1.8	150	15	7.37		48.4	51.5	48.1		0.46	75.01		
MARIAM	DEP	alkcol			0	14.5	0.2		150	6.69		56.8	83.2				42.51		
HOWARD	DEP	alkcol		28	1004	32.1	0.8	225	50	8.63		64.6	63.2	52.2		0.36	52.25	30	47
SALT	DEP			85	2905	35.1	0.6	11500	75			65.5	67.4	68.2		31.42	48.19		
LOUGHMAN	DEP			100	2604	117.0	0.4	11500	75			77.3	73.2	70.6		20.65	33.79		
STARKE	DEP			36	1005	32.5	0.5	260	60			64.8	70.0	55.8		1.28	46.68		
JACKSON	DEP	acidcol		27	704	7.5	1.9	27	30	6.30		50.3	50.8	51.7		0.01	74.04		
JACKSON	DEP	alkcol		36	836	11.9	0.5	41	50	6.60		54.9	70.0	55.8		0.01	54.76		
HAMMOCK	DEP	acidcl65		15	234	2.1		25	10	4.64		38.1		43.2		0.28			
FULLER	DEP	acidcol		27	709	6.4		206	150	4.94		48.8		51.7		4.90			
CARRIE	DEP	alkcol		61	782	1.0	0.6	88	200	7.10		30.6	67.4	63.4		1.35	76.80		
CARRIE	DEP	acidcol		39	923	34.2	0.9	83	150	6.50		65.3	61.5	57.0		1.28	53.12		
MARION	DEP	alkcol		160	1608	44.9	0.5	104	80	7.39		67.9	70.0	77.3		0.02	44.08		
MARION	DEP	alkcol		140	1805	61.2	0.5	100	80	7.46		71.0	70.0	75.4		0.02	41.60		
JOHNS	DEP	alkcol		76	1319	12.8	1.0	190	80	7.18		55.6	60.0	66.6		0.08	62.25		
JOHNS	DEP	alkcol		38	1205	13.6	1.0	188	80	7.03		56.2	60.0	56.6		0.08	61.75		
BRANTLEY	DEP	alkcol		23	574	2.8	2.1	114	80	7.14		40.6	49.3	49.4		0.42	83.22		
CAMPCREEK	DEP	alkcol			0	1.0			30	7.03		30.6							
ZAPPA	DEP			150	1407	1.1	0.7	224		7.60		31.5	65.1	76.4			77.83		
ADELAIDE	DEP	acidcol		23	494	1.0	1.8	90	50	6.00		30.6	51.5	49.4			89.59		
ADELAIDE	DEP	acidcol		24	735	5.4	2.0	77	40	6.30		47.1	50.0	50.0			77.25		
LITTLEBONNET	DEP	alkcol		22	1205	28.2	0.7	202	50	6.90		63.4	65.1	48.7			51.74		
ZAPPA	DEP	alkcol		99	1156	8.0	0.7	160	200	6.60		51.0	65.1	70.4			61.87		
TROUT	DEP	acidcl75		15	428	1.0	2.8	124	20	6.50		30.6	45.2	43.2			94.73		
VERONA	DEP	alkclr		21	670	1.5	3.1	120	20	7.70		34.6	43.7	48.1			92.66		
TULANE	DEP	alkclr		15	610	1.0	7.5	127	10	7.40		30.6	31.0	43.2			100.00		
LITTLEBONNET	DEP	alkcol		29	1660	18.8	0.8	208	40	7.50		59.4	63.2	52.7			56.56		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
MOSSYPOND	DEP	acidcl65		15	324	1.0		24	20	4.55		30.6		43.2		0.23			
JACKSON	DEP	alkcol		27	464	1.0	1.7	115	30	6.90		30.6	52.4	51.7		0.03	88.93		
JACKSON	DEP	alkcol		36	524	1.0	1.7	115	30	7.10		30.6	52.4	55.8		0.03	88.93		
SOUTHTWIN	DEP			15	654			259		7.71				43.2		3.20			
DEER	DEP	acidcol		60	464	1.0		205	80	6.40		30.6		63.2		5.13			
POWELL	DEP	alkclr		15	344	1.0	3.1	31400	15	7.54		30.6	43.7	43.2		47.79	95.92		
JACKSON	DEP	alkcol		25	530	1.0	1.7	113	50	6.80		30.6	52.4	50.6		0.03	88.93		
TROUT	DEP	acidcl75		21	664	10.0	1.6	120	20	6.10		53.2	53.2	48.1			69.70		
HOWELL	DEP			63	1305			200		8.70				63.9		0.49			
PORTER	DEP	alkclr		30	513			176	15	6.52				53.2		5.50			
GIBSON	DEP	alkclr		15	494		4.2	263	5	7.53			39.3	43.2		3.46			
JACKSON	DEP	alkcol		15	414	1.0	1.6	101	30	7.20		30.6	53.2	43.2		0.03	88.22		
VERONA	DEP	alkclr		15	334	1.0	4.6	150	20	6.70		30.6	38.0	43.2			100.00		
TULANE	DEP	acidcl75		15	427	1.0	4.3	120	15	6.40		30.6	39.0	43.2			99.73		
ORIENTA	DEP	alkcol		52	1906			264	50	7.31				61.1		2.05			
BRANTLEY	DEP	alkclr		15	564			138	15	6.51				43.2		0.51			
DIAS	DEP	alkcol		48	1104				60	6.61				60.0					
GENTRY	DEP			15	564			189		6.96				43.2		0.11			
GENTRY	DEP			17	644			197		6.75				45.0		0.11			
SELLERS	DEP	acidcl75		15	80			71	5	3.94				43.2		0.07			
WILDCAT	DEP	acidcl75		15	314			56	15	4.43				43.2					
MINNEOLA	DEP	acidcol		38	664			98	40	5.58				56.6		0.05			
MINNEOLA	DEP	acidcol			0				40	5.69									
SMITHPOND	DEP	acidcl65		83	694	1.7	1.1	29	20	5.32		35.8	58.6	67.9			79.59		
LONGPOND	DEP	acidcl65		23	534	1.0	1.0	23	20	6.31		30.6	60.0	49.4		1.77	82.75		
ALLIGATOR	DEP	alkcol		14	654	1.0	0.9	251	200	6.72		30.6	61.5	42.2		10.46	81.52		
LITTLEREDFISH	DEP	alkcol		14	635	4.1	0.9	229	100	6.72		44.4	61.5	42.2			70.13		
JACKSON	DEP	acidcl75		17	434	1.0	1.9	103	15	6.30		30.6	50.8	45.0		0.03	90.22		
JACKSON	DEP	acidcl75		23	438	1.0	2.0	105	20	6.40		30.6	50.0	49.4		0.03	90.82		
Bear	Regions	alkclr		91	657	27.5	1.0	50	15	7.90	20.0	63.1	60.0	69.2	0.18	0.46	56.10		
Hurrican	Regions	alkclr		79	570	21.1	1.7	51	14	8.20	21.0	60.5	52.4	67.2			64.40		
Karick	Regions	alkclr		70	417	14.8	1.5	33	15	7.00	9.6	57.0	54.2	65.4	0.14	0.47	65.80		
Stone	Regions	alkclr		135	637	28.4	1.4	42	19	7.40	13.0	63.4	55.2	74.9			59.75		
Back	Regions	alkclr		16	497	10.8	1.5	36	12	6.70	6.1	53.9	54.2	44.1			68.33		
Blue	Regions	alkclr		20	503	9.2	1.7	29	12	7.10	5.4	52.4	52.4	47.3	0.18	0.97	71.03		
Cassidy	Regions	acidcl65		4	100	1.5	4.5	20	3	5.20	0.0	34.6	38.3	24.1		0.06	96.74		
Charles1	Canfield	acidcol		14	473	2.5	1.5	11	45	5.00	1.9	39.6	54.2	42.2			80.10		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Compass	Regions	acidcl65		3	200	2.0	3.9	18	6	6.30	0.7	37.4	40.4	20.0	0.00	0.03	93.02	6	
DeFuniak	Regions	acidcl65		6	303	3.7	3.3	20	5	6.40	1.7	43.4	42.8	30.0			86.13		
Haven	LW(6/96)			15	435	11.8	1.5					54.8	54.2	43.2			67.62		
Jackson(Canfield	acidcl65		13	359	2.8	2.7	19	10	6.40	4.1	40.7	45.7	41.1	0.02	0.09	86.03		
Juniper	Regions	acidcol		16	500	4.6	2.2	17	33	5.80	0.6	45.6	48.6	44.1	0.00	0.03	79.65		
Kings	Regions	acidcl65		11	433	5.1		16	9	6.20	1.4	46.6		38.7					
Merritts	Canfield	alkclr		19	1497	1.1		191	2	8.20	95.6	31.5		46.6	0.47	0.95			
Ocheesee	Regions	acidcol		10	440	6.9	2.3	18	27	5.50	0.8	49.5	48.0	37.4	0.00	0.01	76.91		
Pate	Regions	acidcol		8	270	4.5	1.3	20	37	4.70	0.0	45.4	56.2	34.1		0.00	73.71		
Seminole	Canfield	alkclr		44	514	10.5	0.5	66	20	6.80	20.1	53.7	70.0	58.7			55.77		
Spring	Summer '	acidcl65			510	12.1		15	10	6.20	1.4	55.1			0.01	0.09			
Stanley	Regions	acidcl65		8	440	4.9	2.3	28	18	6.40	2.7	46.2	48.0	34.1	0.03	0.28	79.66		
Sun	Canfield	acidcl65		14	420	2.0		15	10	5.30	1.8	37.4		42.2					
Victor	Canfield	acidcl65		12	294	2.9	2.7	25	15	6.40	6.1	41.0	45.7	40.0	0.04	0.18	85.75		
(NO NAME	EPA-ELS	alkclr		3			5.0	23	10	6.60	1.5		36.8	20.0					
BLACK	EPA-ELS	acidcl65		8			3.4	16	15	5.30	0.0		42.4	34.1		0.70			
Black Do	Regions	acidcol		5	170	3.0	2.4	13	23	5.30	0.0	41.4	47.4	27.4			84.10		
Boat	Regions	acidcl65		1	40	0.6		31	1	4.50	0.0	25.6		4.2		0.24			
Bream	Regions	acidcl65		2	87	0.8	5.6	12	3	5.30	0.0	28.4	35.2	14.1			100.00		
COMPASS	EPA-ELS	acidcl65		2			7.0	14	5	6.50	1.2		32.0	14.1	0.02	0.25		6	
Crystal	Regions	acidcl65		2	113	1.5	6.3	18	2	6.30	0.9	34.6	33.5	14.1	0.01	0.11	96.74		
Dunford	Canfield	acidcl65		7	220	0.8	5.0	15	6	5.00	1.0	28.4	36.8	32.2	0.00	0.07	100.00		
Gap	Regions	acidcl65		3	213	1.7		16	5	5.10	0.0	35.8		20.0		0.03		2	
Gin	Regions	acidcl65		3	217	2.3	3.0	12	9	5.40	0.0	38.8	44.2	20.0		0.28	88.84		
Hicks	Regions	acidcl65		2	230	1.5	3.7	18	4	5.10	0.0	34.6	41.1	14.1		0.04	94.72		
HOMESTEAD	EPA-ELS	acidcl65		1			5.5	14	5	4.90	0.0		35.4	4.2					
Lighter	Regions	acidcol		3	153	1.7	2.6	15	29	5.50	0.5	35.8	46.2	20.0	0.04	1.07	89.60		
Lucas	Regions	acidcl65		5	233	1.9		17	8	5.70	0.7	36.9		27.4	0.00	0.04			
McCormic	Regions	acidcl65		6	100	1.6		16	3	5.40	0.0	35.2		30.0		0.11			
McKenzie	Regions	acidcl65		2	187	1.9	3.4	19	9	4.70	0.0	36.9	42.4	14.1		0.18	91.83		
Merial	Canfield	acidcl65		6	64	0.5	3.2	19	0	4.70	0.4	23.8	43.2	30.0	0.00	0.08	96.29		
Mirrow	Regions	acidcl65		3	163	1.2	5.2	19	4	5.20	0.0	32.4	36.2	20.0		0.58	98.53		
OPEN	EPA-ELS	acidcl65		2			3.3	15	5	5.00	0.0		42.8	14.1		0.09			
Owens	Regions	acidcl65		4	150	1.8	2.6	20	7	4.90	0.0	36.4	46.2	24.1		0.24	89.14		
PAYNE	EPA-ELS	acidcl65		6			5.0	18	10	5.00	0.0		36.8	30.0					
Porter	Regions	acidcl65		3	193	1.8	3.5	16	4	5.00	0.0	36.4	41.9	20.0		0.02	92.60		
Round	Regions	alkclr		4	227	2.0	3.8	36	5	7.10	6.7	37.4	40.8	24.1	0.20	1.09	92.71		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Silver(S)	Regions	acidcl65		3	23	0.8		20	2	4.90	0.0	28.4		20.0					
SPARKLEB	EPA-ELS	acidcl65		1			0.9	11	5	5.70	0.0		61.5	4.2		0.48			
Stewart	Regions	alkclr		2	60	0.9		17	3	6.80	1.6	29.6		14.1	0.04	0.45			
Turkey P	Canfield	acidcl65		2	132	1.0	3.2	21	1	4.70	0.4	30.6	43.2	14.1	0.03	1.31	96.29		
White Do	Regions	alkclr		1	77	1.1	4.8	15	3	6.60	2.7	31.5	37.4	4.2			99.23		
(NO NAME	EPA-ELS	alkcol		202			0.7	198	150	8.50	29.0		65.1	80.7					
Anderson	Regions	acidcol		15	377	2.3	2.9	45	21	6.50	12.0	38.8	44.7	43.2	0.32	1.18	88.44		
Arrowhea	LW(6/96)			29	425	12.1	1.0					55.1	60.0	52.7			62.70		
Belmont	LW(6/96)			47	1130	22.9	0.9					61.3	61.5	59.7			56.34		
Blair	Regions	acidcl65		3	487	2.3		19	16	5.40	0.4	38.8		20.0	0.01	0.26			
Blairsto	LW(6/96)			71	1187	42.4	0.7					67.4	65.1	65.6			48.46		
Blue Her	LW 93	alkclr		26	610	11.6		57	15	7.40	20.0	54.6		51.1					
Bockus	LW(6/96)			16	399	4.3	1.8					44.9	51.5	44.1			77.86		
Carolyn	LW(6/96)			34	344	18.3	1.4					59.1	55.2	55.0			63.29		
Carr	Regions	acidcl65		25	717	12.2	1.3	27	20	6.50	6.7	55.1	56.2	50.6	0.01	0.04	65.69		
Cherry	Regions	acidcl65		27	543	21.5	1.2	40	6	6.10	0.7	60.7	57.4	51.7	0.00	0.08	60.20		
Cobb	Regions	acidcol		10	423	3.9	1.4	15	28	5.70	1.2	44.0	55.2	37.4	0.01	0.09	75.72		
Diane	LW 93	alkclr		7	277	2.0		31	6	6.90	4.9	37.4		32.2	0.08	0.48			
Elizabet	LW(6/96)			24	336	13.3	3.7					56.0	41.1	50.0			77.17		
Erie	LW(6/96)			6	424	2.3	2.3					38.8	48.0	30.0			85.75		
Hall	Summer '	alkclr		10	300	1.5	5.8	26	6	6.80	3.4	34.6	34.7	37.4	0.02	0.15	96.74	8	
Hay Pond	Regions	acidcl65		21	533	31.1		11	8	6.30	1.1	64.3		48.1	0.03	0.28			
Iamonia	Regions	acidcol		17	567	6.8		23	40	5.80	2.8	49.4		45.0	0.00	0.00			
Jackson	Regions	alkclr		24	527	8.8	2.0	45	13	6.90	13.3	51.9	50.0	50.0	0.00	0.01	73.33		
Maclay	Summer '	alkclr		10	353	1.7	5.3	27	6	6.70	3.5	35.8	36.0	37.4			95.73		
Mays Pon	Regions	alkcol		91	3323	124.1	0.3	88	157	9.90	27.3	77.9	77.3	69.2	0.38	1.22	29.96		
Miccosuk	Regions	acidcol		17	443	5.8	1.9	26	25	6.00	5.0	47.8	50.8	45.0	0.00	0.00	76.08		
Monkey B	LW 93	alkclr		42	630	30.3		54	17	7.20	16.0	64.1		58.0					
Mystic	Regions	alkcol		28	693	5.6	1.1	64	51	6.60	14.7	47.5	58.6	52.2	0.31	1.36	70.00		
Overstre	Summer '	acidcl65		11	287	1.4	3.6	19	8	5.90	1.6	33.9	41.5	38.7	0.01	0.15	94.95		
Petty Gu	LW(6/96)			33	547	22.4	1.0					61.1	60.0	54.6			57.74		
Rachel	Regions	acidcl65		4	227	1.6		16	6	6.00	1.5	35.2		24.1	0.02	0.16			
Razor	Regions	alkclr		26	780	3.5		152	11	8.00	69.0	42.9		51.1	0.78	1.71			
Rock Isl	Regions	acidcol		127	607	40.7	0.5	38	88	6.20	5.1	67.0	70.0	74.0	0.05	0.37	44.87		
Shelly P	LW(6/96)			96	1057	41.5	0.9					67.1	61.5	70.0			51.56		
Silver	Regions	acidcl65		13	387	4.6	2.9	23	18	6.20	2.8	45.6	44.7	41.1	0.07	0.58	82.87		
Simpson	Regions	alkcol		297	1593	170.6	0.7	133	77	9.10	31.0	81.0	65.1	86.3	2.58	11.08	37.26		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Sneads S	Regions	acidcol		31	620	15.5		24	40	6.00	5.1	57.5		53.7	0.06	0.30			
Sommerse	LW(6/96)			219	2008	216.3	0.5					83.3	70.0	81.9			31.44		
Tallavan	LW(6/96)			59	707	34.7	0.9					65.4	61.5	62.9			53.00		
Talquin	LW 93	alkcol		50	580	16.6		114	27	8.20	22.0	58.2		60.6					
Wooten	LW(6/96)			16	490	7.6	2.0					50.5	50.0	44.1			74.51		
Andrew	Regions	acidcl65		5	197	2.7		14	12	5.30	0.0	40.3		27.4		1.40			
Dog	Regions	acidcl65		5	217	2.5		16	4	5.00	0.0	39.6		27.4		1.23			
Dog Pond	Regions	acidcl65		5	300	2.1		24	9	4.60	0.0	37.9		27.4		1.00			
Loften	Canfield1	acidcl65		5	633	2.0	2.5	20	20	4.90	1.0	37.4	46.8	27.4			87.84	6	
Lost	Regions	acidcl65		11	257	3.9		17	11	5.60	0.2	44.0		38.7					
Moore	Canfield1	acidcl65		5	353	3.0	5.3	17	19	5.80	2.2	41.4	36.0	27.4	0.03	0.25	91.16		
Trout Po	LW(6/96)			7	307	3.6	2.5					43.2	46.8	32.2			83.11		
(NO NAME)	EPA-ELS	alkclr		12			2.5	153	15	8.40	74.0		46.8	40.0					
Alcyone	Regions	acidcl65		22	283	5.6	2.4	26	12	5.50	0.4	47.5	47.4	48.7	0.03	2.00	79.09		
Alligato	Regions	alkcol		136	1933	102.1	0.8	77	46	7.20	26.3	76.0	63.2	75.0	0.08	0.23	42.95		
Amber Ja	Regions	acidcol		11	910	3.2		22	33	4.60	0.0	42.0		38.7					
Blue	Regions	acidcol		178	903	0.9	0.5	52	333	5.80	4.0	29.6	70.0	78.9			74.68		
Burnetts	Regions	alkcol		334	1020	33.4	1.2	117	102	6.90	21.0	65.0	57.4	87.9	0.91	5.09	56.65		
Clear	LW(6/96)			97	865	12.1	1.4					55.1	55.2	70.1			66.61		
DeSoto	Regions	alkcol		116	3083	300.5	0.3	144	70	9.20	51.7	86.6	77.3	72.7	2.35	6.55	22.85		
Forest	LW(6/96)			118	567	6.3	1.9					48.7	50.8	72.9			75.42		
Frances	Regions	alkclr		111	1750	70.5	0.4	169	17	8.30	80.7	72.3	73.2	72.1	3.84	8.05	37.86		
Hammocks	LW(6/96)			170	1044	36.7	1.2					65.9	57.4	78.2			55.90		
HAVEN WI	EPA-ELS	acidcol		28			0.6	38	175	6.50	2.4		67.4	52.2					
Jeffery	Regions	acidcol		13	597	5.6	1.5	39	64	5.80	0.8	47.5	54.2	41.1	0.01	0.34	73.61		
Kingswoo	Summer	acidcol		20	655	5.5		71	45	6.50	6.8	47.3		47.3					
Louise	Canfield	acidcol		22	632	6.5	1.8	46	42	6.40	5.0	49.0	51.5	48.7	0.05	0.44	74.54		
Low	Regions	acidcol		296	937	4.7	0.6	52	242	5.80	2.4	45.8	67.4	86.2			64.36		
Mill Pon	Regions	alkclr		23	540	13.1	2.8	38	16	6.70	8.0	55.8	45.2	49.4	0.80	3.80	74.04		
Mills Cr	LW(6/96)			253	450									83.9					
Montgome	Regions	alkclr		38	840	23.4	1.5	131	19	7.60	43.0	61.5	54.2	56.6			62.11		
Moon	LW(6/96)			148	878	45.8	1.4					68.1	55.2	76.2			55.91		
Octahatc	Regions	acidcol		346	850	2.8	0.7	44	246	5.70	2.1	40.7	65.1	88.5	0.01	0.23	70.32		
Peacock	LW(6/96)			84	1286	39.3	1.3					66.6	56.2	68.0			56.28		
Prairie	Regions	alkcol		195	870	28.1	1.1	155	73	7.30	40.7	63.3	58.6	80.2	1.23	4.70	57.03		
Suwannee	Regions	acidcol		49	983	37.9	0.9	48	36	6.50	6.7	66.3	61.5	60.3			52.29		
Timber	LW(6/96)			64	827	6.0						48.2		64.1					

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Trout	Regions	acidcl65		34	340	5.7		36	15	5.70	0.1	47.7		55.0	0.00	0.82			
Watertow	Regions	alkcol		32	1073	36.0	0.8	136	29	8.70	42.0	65.8	63.2	54.1	0.91	2.96	51.33		
White	Regions	alkclr		15	357	4.6		46	20	6.60	7.1	45.6		43.2	0.17	1.10			
Adams	Regions	acidcol		18	1367	2.3	0.4	51	499	5.30	1.5	38.8	73.2	45.8	0.03	0.94	65.38		
Andrews	Regions	acidcol		15	527	11.4	1.1	30	85	5.40	0.5	54.5	58.6	43.2	0.01	0.68	64.29		
Booze	Regions	acidcol		31	1303	39.5	0.6	67	196	3.90	0.0	66.7	67.4	53.7		5.58	47.24		
Bradford	1-QAQC	acidcol		18	518	8.5	0.4	24	121	5.00	0.2	51.6	73.2	45.8	0.00	0.12	54.87		
Camp Cre	LW(6/96)			6	381	3.0	1.2					41.4	57.4	30.0			76.04		
Campbell	LW(6/96)			5	354	2.5	2.9					39.6	44.7	27.4			87.77		
Cascade	LW(6/96)			15	671	8.3	0.7					51.4	65.1	43.2			61.58		
Christma	Regions	acidcol		11	820	5.3	1.2	78	124	4.00	0.0	47.0	57.4	38.7			71.46		
Com Lan	Canfield	alkcol		13	574	2.8	1.3	199	82	7.00	26.6	40.7	56.2	41.1	0.59	4.42	77.52		
Dead	Canfield	acidcol		14	297	3.6	2.0	38	68	6.30	11.8	43.2	50.0	42.2			80.52		
Deer Poi	Canfield	alkcol		8	184	1.9	2.1	60	62	6.90	22.6	36.9	49.3	34.1	0.00	0.01	86.22		
Ellen	Regions	acidcol		6	450	3.9	1.0	30	95	5.10	0.0	44.0	60.0	30.0		0.20	71.80		
Found	Regions	acidcol		15	497	6.3		30	87	4.30	0.0	48.7		43.2					
Grassy	LW(6/96)			20	838	5.0	0.7					46.4	65.1	47.3			65.65		
Hiawatha	1-QAQC	acidcol		20	625	9.3	0.4	31	129	4.50	0.0	52.5	73.2	47.3			54.15		
Jones	Regions	acidcol		9	693	2.8		19	43	5.30	0.0	40.7		35.8					
Koon	Canfield	acidcol		5	687	3.0	1.4	29	63	5.20	2.6	41.4	55.2	27.4	0.26	2.90	77.83		
Middle	Regions	acidcol		41	1423	64.5	0.6	65	342	3.90	0.0	71.5	67.4	57.7		8.13	43.29		
Minnieha	1-QAQC	acidcol		15	720	11.5	0.4	30	126	4.60	0.0	54.6	73.2	43.2			52.44		
Munson	Regions	alkcol		109	693	20.2		119	28	10.30	34.0	60.1		71.8	0.13	0.47			
Otter	Canfield	acidcol		29	501	2.9	0.9	128	222	4.90	2.3	41.0	61.5	52.7	0.02	0.96	72.96		
Oyster	Canfield	alkcol		34	554	4.0	0.9	4338	208	6.60	18.8	44.2	61.5	55.0	0.85	197.18	70.37		
Peach Cr	LW(6/96)			6	440	0.9	1.0					29.6	60.0	30.0			82.75		
Powell	LW(6/96)			14	422	4.3	1.7					44.9	52.4	42.2			77.20		
Ten Mile	Regions	acidcol		6	807	6.2	1.9	23	48	5.60	0.5	48.5	50.8	30.0	0.13	5.75	75.55		
Townsend	Regions	acidcol		10	1070	4.2	0.7	34	206	5.30	0.4	44.7	65.1	37.4	0.00	0.31	67.06		
Waccasas	Regions	alkcol		42	987	11.6	0.5	50	64	6.60	6.9	54.6	70.0	58.0			54.97		
Waters	Regions	acidcol		340	2500	21.1	0.1	50	521	6.20	2.8	60.5	93.2	88.2			31.42		
Waters P	Regions	acidcol		16	983	10.0	0.8	36	248	5.20	0.0	53.2	63.2	44.1			61.63		
Western	Canfield	alkcol		6	289	1.3	1.7	5636	141	6.80	21.3	33.2	52.4	30.0	0.10	25.62	86.82		
Wimico	Canfield	alkcol		28	493	3.9	0.5	126	113	6.80	21.3	44.0	70.0	52.2	0.01	0.03	63.74		
Winquipi	Regions	acidcol		10	937	2.6		25	53	5.20	0.0	40.0		37.4					
Fisher	Regions	acidcol		13	1220	1.1		70	343	4.40	0.0	31.5		41.1					
Ocean Po	Regions	acidcol		16	383	7.4	0.8	40	120	4.70	0.0	50.2	63.2	44.1		0.02	64.06		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Palestin	Regions	acidcol		11	420	4.6	1.2	44	77	5.00	0.0	45.6	57.4	38.7		0.05	72.60	17	
Swift Cr	Regions	acidcol		61	1042	15.6	0.3	56	445	4.70	0.0	57.6	77.3	63.4		0.10	46.64		
Alto	Regions	acidcol		14	553	5.8	1.2	69	62	5.80	1.0	47.8	57.4	42.2			70.73	17	
Butler	Regions	acidcol		14	500	2.6	1.7	52	55	6.20	1.8	40.0	52.4	42.2	0.00	0.12	81.24		
Crosby	Regions	acidcol		11	637	11.1	1.8	64	43	5.40	0.3	54.2	51.5	38.7	0.00	0.12	70.23	17	
DeValeri	LW(6/96)			33	678	11.4	1.0					54.5	60.0	54.6			63.18		
Hampton	Regions	acidcol		10	557	7.6	1.5	66	72	5.40	0.2	50.5	54.2	37.4	0.00	0.08	71.16		
Little S	Regions	acidcol		8	530	6.2	1.2	69	33	5.00	0.0	48.5	57.4	34.1		0.06	70.20		
Melrose	1-QAQC	acidcl75		10	422	8.8	1.6	68	17	6.00	1.1	51.9	53.2	37.4			70.73		
Punchbow	LW(6/96)			14	607	6.5	1.1					49.0	58.6	42.2			68.80		
Rowell	Regions	alkcol		37	753	15.4	1.7	234	74	7.20	23.3	57.4	52.4	56.2	0.06	0.64	66.94		
Sampson	Regions	alkcol		13	657	3.0	1.8	149	79	7.10	11.3	41.4	51.5	41.1	0.01	0.07	80.76		
Santa Fe	Regions	acidcol		8	447	5.3	1.9	68	27	5.90	0.9	47.0	50.8	34.1	0.00	0.01	76.81		
(NO NAME	EPA-ELS	acidcol		12			0.7	39	65	5.70	0.1		65.1	40.0					
(NO NAME	EPA-ELS	alkclr		22			3.3	41	20	7.40	12.3		42.8	48.7					
(NO NAME	EPA-ELS	acidcl75		14			2.0	45	20	6.40	0.6		50.0	42.2					
(NO NAME	EPA-ELS	acidcl75		9			4.4	33	10	6.20	0.7		38.7	35.0					
(NO NAME	EPA-ELS	alkclr		13			1.9	34	10	7.00	3.8		50.8	41.1					
(NO NAME	EPA-ELS	acidcl75		3			2.7	50	10	4.70	0.0		45.7	20.0					
Barco	Canfield	acidcl75		2	82	1.0	5.4	43	2	4.50	0.1	30.6	35.7	14.1	0.00	1.39	100.00		
Bedford	Regions	acidcl75		40	497	17.7	1.1	44	17	5.90	0.4	58.8	58.6	57.3	0.00	0.22	60.75		
Blue	LW(6/96)			5	138	1.6	3.1					35.2	43.7	27.4			92.14		
BLUE PON	EPA-ELS	acidcol		8			2.5	43	25	4.40	0.0		46.8	34.1		0.21			
Boll Gre	1-QAQC	acidcl75		10	187	1.7	1.5	61	7	6.30	2.2	35.8	54.2	37.4	0.08	2.18	83.20		
Bolt	Regions	acidcl75		11	263	4.3	2.0	29	7	5.70	0.2	44.9	50.0	38.7			79.09		
Brim pon	Canfield	alkclr		9	624	8.0	2.2	95	10	7.80	29.1	51.0	48.6	35.8	3.64	11.88	75.20		
Brooklyn	LW(6/96)			9	194	4.2	2.1					44.7	49.3	35.8			79.84		
Brookly1	LW(6/96)			18	379	8.0	1.6					51.0	53.2	45.8			71.50		
Bull Pon	Canfield	acidcl75		11	522	3.0	1.4	57	9	5.30	0.7	41.4	55.2	38.7	0.03	2.04	77.83		
Chipco	LW(6/96)			8	243	4.8	3.5					46.0	41.9	34.1			84.72		
Church	LW(6/96)			5	154	4.8	4.3					46.0	39.0	27.4			87.11		
Cowpen	Regions	acidcl75		6	57	0.7		81	3	4.80	0.0	27.1		30.0		0.14			
Crystal	1-QAQC	alkclr		10	363	11.3	2.2	38	9	6.80	5.7	54.4	48.6	37.4	0.01	0.09	72.43		
Cue	Canfield	acidcl75		5	91	2.0	5.8	45	0	4.60	0.5	37.4	34.7	27.4	0.00	0.31	94.43		
Deep	Canfield	acidcl75		2	158	1.0		36	4	4.60	0.3	30.6		14.1	0.02	1.80			
Deer	LW(6/96)			6	105	4.4	7.5					45.1	31.0	30.0			88.08		
Deerback	1-QAQC	acidcl75		13	747	4.2	1.8	84	14	5.80	0.7	44.7	51.5	41.1	0.01	1.15	78.05		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
DJ	Regions	acidcl75		2	297	1.7		41	6	4.90	0.0	35.8		14.1					
East	LW(6/96)			24	790	5.7						47.7		50.0					
Fanny	1-QAQC	acidcl75		10	205	3.5	2.1	78	5	4.60	0.0	42.9	49.3	37.4		0.78	81.31		
Gator Bo	LW(6/96)			8	316	1.9	2.1					36.9	49.3	34.1			86.22		
Geneva	1-QAQC	acidcl75		10	380	2.5	1.6	83	5	5.80	0.4	39.6	53.2	37.4	0.00	0.05	80.85		
Georges	1-QAQC	acidcl75		15	133	3.2	1.5	57	7	4.60	0.0	42.0	54.2	43.2		0.07	78.11		
Gillis	1-QAQC	acidcl75		10	533	6.5	0.9	65	10	4.90	0.0	49.0	61.5	37.4		1.44	66.47		
Gold Hea	LW(6/96)			6	131	0.5						23.8		30.0					
Green Po	Regions	acidcl75		3	87	1.9	3.1	39	3	5.60	0.0	36.9	43.7	20.0		1.22	90.76		
Halfmoon	Regions	acidcl75		5	333	3.6		43	9	5.60	0.5	43.2		27.4	0.00	0.29			
Hardesty	1-QAQC	acidcol		10	505	6.0	0.8	57	22	6.40	4.1	48.2	63.2	37.4	0.09	1.30	65.74		
Hewitt	1-QAQC	acidcl75		10	153	1.8	1.8	51	7	5.30	0.0	36.4	51.5	37.4		0.53	84.86		
Higgenbo	1-QAQC	acidcl75		10	548	4.2	2.7	55	7	5.60	0.3	44.7	45.7	37.4	0.01	1.10	82.77		
Hutchins	Regions	acidcl75		9	267	4.9	2.3	64	4	5.70	0.3	46.2	48.0	35.8	0.00	0.50	79.66		
Ida	LW(6/96)			15	326	9.1	1.8					52.3	51.5	43.2			71.83		
Island	1-QAQC	acidcl75		15	300	5.5	1.8	65	9	6.10	1.1	47.3	51.5	43.2	0.01	0.48	75.88		
Johnson	LW(6/96)			8	237	3.4	1.7					42.6	52.4	34.1			79.08		
Keys pon	Canfield	acidcl75		2	208	1.0	5.3	43	2	5.40	1.7	30.6	36.0	14.1	0.13	3.31	100.00		
Kingsley	Canfield	alkclr		11	278	2.0	4.2	54	6	7.00	9.6	37.4	39.3	38.7	0.01	0.03	93.88		
Lily	1-QAQC	acidcl75		10	200	6.3	2.7	56	6	5.40	0.0	48.7	45.7	37.4		0.50	79.51		
Little34	LW(6/96)			14	526	14.8	1.8					57.0	51.5	42.2			67.92		
Little14	Canfield	alkcol		21	1161	13.0	1.4	83	29	6.80	31.8	55.8	55.2	48.1			66.04		
Little16	LW(6/96)			9	217	3.9	1.4					44.0	55.2	35.8			75.72		
Little K	LW(6/96)			13	395	4.4	2.5					45.1	46.8	41.1			81.50		
Long Pon	Regions	acidcl75		2	113	1.4		64	3	4.60	0.0	33.9		14.1		1.83			
Lowery	Regions	acidcl75		6	87	2.9	2.3	31	7	4.90	0.0	41.0	48.0	30.0		0.02	83.88		
Magnolia	Regions	acidcl75		3	123	2.9	3.5	32	12	4.80	0.0	41.0	41.9	20.0		0.16	88.77		
MAGNOLIA	EPA-ELS	acidcl75		4			4.4	26	10	5.10	0.0		38.7	24.1		0.13			
Mariner	LW(6/96)			2	120	3.3	4.6					42.3	38.0	14.1			90.40		
MARINER	EPA-ELS	acidcl75		5			3.8	38	10	4.90	0.0		40.8	27.4					
Mason	LW(6/96)			6	117	6.3	2.8					48.7	45.2	30.0			79.93		
Miles Ka	LW(6/96)			10	270	3.5	2.3					42.9	48.0	37.4			82.37		
Morris	Regions	acidcl75		7	150	1.8	3.7	41	10	6.10	1.5	36.4	41.1	32.2	0.02	0.61	93.25		
North Tw	1-QAQC	alkclr		17	437	24.3	1.5	43	9	6.80	4.9	61.9	54.2	45.0	0.18	1.59	61.81		
Opal	LW(6/96)			6	435	2.5	4.3					39.6	39.0	30.0			92.36		
Paradise	Regions	alkclr		7	350	3.2	2.8	99	6	8.00	33.0	42.0	45.2	32.2	0.72	2.15	85.38		
Pebble	LW(6/96)			13	219	4.6	1.8					45.6	51.5	41.1			77.32		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Pegram	1-QAQC	acidcl75		10	877	9.3	1.9	73	14	6.30	2.6	52.5	50.8	37.4	0.04	1.18	72.29		
Picnic	Canfield1	acidcl75		8	137	1.0	2.6	69	0	4.30	0.0	30.6	46.2	34.1		1.53	93.87		
Riley	1-QAQC	acidcol		15	418	3.2	1.2	77	38	4.90	0.0	42.0	57.4	43.2		1.71	75.52		
Rosa	1-QAQC	acidcl75		5	123	2.0	3.6	46	3	5.10	0.0	37.4	41.5	27.4		0.42	92.09		
Sheelar	LW(6/96)			4	81	1.8	7.6					36.4	30.8	24.1			95.27		
Silver	Regions	acidcl75		16	260	7.2	3.1	42	7	6.30	1.0	50.0	43.7	44.1			80.04		
Spring	LW(6/96)			15	244	5.4	1.7					47.1	52.4	43.2			75.36		
STEVENS	EPA-ELS	acidcl75		4			2.7	30	20	4.80	0.0		45.7	24.1					
Swan	1-QAQC	acidcl75		2	70	1.0		62	3	5.20	0.0	30.6		14.1					
White Sa	LW(6/96)			9	216	2.8	1.6					40.7	53.2	35.8			79.94		
Winnott	1-QAQC	acidcl75		10	418	2.5	1.9	52	12	6.20	1.9	39.6	50.8	37.4			82.85		
Bonable	Regions	acidcol		42	953	25.6	0.5	54	85	6.10	1.1	62.4	70.0	58.0	0.01	0.26	48.60		
Dinner	Regions	acidcol		34	840	23.5		49	23	4.80	0.0	61.6		55.0		7.00			
Section	Regions	acidcol		8	293	1.7	2.4	31	26	5.00	0.0	35.8	47.4	34.1		0.43	88.67		
Tiger	Regions	acidcol		31	660	12.4	0.9	49	35	5.90	0.6	55.3	61.5	53.7	0.01	0.64	61.27		
Watermel	Regions	acidcol		5	573	2.1		33	21	4.80	0.0	37.9		27.4		0.06			
Blue Cre	Regions	alkclr		18	497	11.1	1.7	290	18	7.10	141.7	54.2	52.4	45.8			69.57		
Cocker S	Regions	alkcol		24	537	1.4		468	39	11.70	233.7	33.9		50.0					
Governor	LW(6/96)			9	863	1.3	1.1					33.2	58.6	35.8			81.75		
HAMMOCK	EPA-ELS	alkcol		18			1.8	251	105	8.60	119.4		51.5	45.8	4.42	9.30			
Home Sp	LW(6/96)			35	295	0.7	2.4					27.1	47.4	55.4			92.94		
Long Pon	Regions	alkclr		12	480	2.0		198	14	7.90	91.0	37.4		40.0	0.39	0.85			
MATTHIS	EPA-ELS	alkclr		7			2.0	81	20	7.90	29.5		50.0	32.2	0.69	1.88			
Rousseau	Canfield	alkcol		48	462	2.3	2.1	209	70	7.30	92.2	38.8	49.3	60.0	0.03	0.06	84.69		
Wacissa	LW(6/96)			32	260	1.2	3.6					32.4	41.5	54.1			96.19		
BIRD PON	EPA-ELS	alkcol		11			1.2	313	30	8.50	166.0		57.4	38.7	16.60	31.30			
Lillian	LW(6/96)			137	2088	100.8	0.6					75.9	67.4	75.1			39.70		
(NO NAME)	EPA-ELS	acidcol		32			0.5	43	225	4.30	0.0		70.0	54.1					
Apopka	Canfield1	alkcol		140	3789	127.0	0.3	371	34	9.40	111.0	78.1	77.3	75.4			29.78		
Beauclai	1-QAQC	alkcol		152	3767	172.5	1.6	420	45	8.90	128.7	81.1	53.2	76.6	0.12	0.38	46.80	43	54
Bivans A	Canfield1	alkcol		384	3256	241.0	0.4	227	25	9.70	101.3	84.4	73.2	90.0	0.54	1.20	27.97		
Bryant	LW 93	alkclr		23	1577	39.6		100	17	7.70	23.0	66.7		49.4	0.03	0.13			
Carlton	Canfield1	alkcol		92	3228	173.0	0.4	384	37	8.90	104.7	81.2	73.2	69.4	0.27	1.01	30.64		
Chloe	Regions	alkcol		6	1290	2.3		87	45	6.80	15.0	38.8		30.0					
Church	Greis (1	acidcol		20	900	3.4	0.5	36	349	5.00	2.7	42.6	70.0	47.3	0.02	0.25	64.84		
Deaton	Regions	alkcol		20	1613	19.0	1.2	184	29	7.10	25.3	59.5	57.4	47.3	0.03	0.24	61.19		
Dora	Canfield	alkcol		90	3062	123.5	0.4	321	43	8.90	120.1	77.8	73.2	69.0	0.03	0.07	33.35	22	28

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Dora Eas	1-QAQC	alkcol		75	3433	183.3	0.4	416	36	8.70	126.2	81.7	73.2	66.4	0.03	0.09	30.17	22	28
Dora Wes	1-QAQC	alkcol		57	3233	163.3	0.4	404	33	8.70	125.0	80.6	73.2	62.5	0.03	0.09	31.10	22	28
Eustis	1-QAQC	alkclr		45	2400	86.7	0.5	324	20	8.80	106.3	74.4	70.0	59.0	0.01	0.04	38.79	37	30
George's	Regions	acidcol		320	1403	15.7	0.7	93	187	6.50	14.0	57.6	65.1	87.3	0.25	1.63	56.45		
Griffin	1-QAQC	alkcol		65	2817	99.5	0.5	339	21	8.60	107.8	75.7	70.0	64.3	0.01	0.02	37.68	43	46
Halfmoon	Greis (1	acidcol		10	820	1.6	2.0	53	80	6.40	7.4	35.2	50.0	37.4	0.02	0.16	87.04		
Harris	1-QAQC	alkclr		33	1533	55.2	0.6	284	13	8.80	108.2	69.9	67.4	54.6	0.01	0.02	44.55	66	40
Idlewild	1-QAQC	alkcol		17	1267	7.2	1.3	104	65	6.80	13.5	50.0	56.2	45.0	0.56	4.33	69.93		
Johnson1	LW(6/96)			188	1837	187.4	0.7					81.9	65.1	79.7			36.51		
Jumper	Greis (1	alkcol		140	1800	12.7	0.4	72	405	6.80	15.6	55.5	73.2	75.4	0.05	0.24	51.64		
Lake Cha	Greis (1	acidcol		50	1410	0.8	0.3	53	690	6.10	8.8	28.4	77.3	60.6	0.03	0.15	68.73		
Lake Eat	Greis (1	acidcol		50	1160	0.9	0.3	89	613	6.50	11.5	29.6	77.3	60.6	0.04	0.29	68.73		
Linda	LW(6/96)					2.0						37.4							
Little6	1-QAQC	alkclr		33	1517	38.3	0.8	274	17	8.50	101.5	66.4	63.2	54.6			50.83		
Little O	1-QAQC	alkcol		37	1072	29.0	0.9	63	91	6.60	3.4	63.6	61.5	56.2	0.00	0.08	54.44		
Lochloos	Regions	alkcol		51	1358	32.4	0.7	110	92	7.10	27.5	64.7	65.1	60.8	0.00	0.02	50.62		
Lorraine	LW(6/96)			50	2462	41.4	0.6					67.1	67.4	60.6			46.86		
Lou	Greis (1	acidcol		20	990	3.7	1.4	41	211	5.90	5.0	43.4	55.2	47.3	0.05	0.38	76.14		
McMeekin	Summer'	alkclr		21	597	8.3	2.7	77	19	6.60	2.8	51.4	45.7	48.1	0.03	0.75	77.29		
Miona	Canfield	alkclr		12	867	8.0	1.5	122	16	7.90	22.2	51.0	54.2	40.0	0.05	0.29	70.75		
Newnan	Canfield	alkcol		52	1228	38.0	0.6	59	93	6.80	14.4	66.3	67.4	61.1	0.00	0.01	47.55	56	61
Newnans	Regions	alkcol		133	4393	382.2	0.2	80	133	7.50	10.0	88.9	83.2	74.7	0.00	0.01	16.19		
North	1-QAQC	alkclr		22	642	8.0	1.3	70	19	6.60	4.4	51.0	56.2	48.7	0.02	0.39	69.08		
Okahumpk	Canfield	alkcol		21	1033	11.0	1.4	188	37	9.00	54.6	54.1	55.2	48.1	0.08	0.28	67.38		
Orange	Regions	alkcol		43	1150	26.3	1.1	96	51	7.00	23.3	62.7	58.6	58.4	0.00	0.01	57.56	71	48
Panasoff	LW 93	alkcol		14	597	2.8		243	27	8.40	76.0	40.7		42.2	0.02	0.05			
Pendarvi	Regions	acidcol		9	403	4.7	1.6	40	68	5.40	0.3	45.8	53.2	35.8			75.77		
Picciola	1-QAQC	alkcol		57	2583	75.2	0.6	340	22	8.80	109.0	73.0	67.4	62.5			42.06		
Redwater	Greis (1	alkcol		80	1400	1.0	0.3	61	700	6.60	12.8	30.6	77.3	67.3	0.07	0.34	68.73		
Redwater	1-QAQC	acidcol		27	897	17.8	1.1	64	64	6.50	4.5	58.8	58.6	51.7	0.02	0.26	60.70		
Silver	1-QAQC	alkclr		10	2583	6.0		590	10	8.10	113.5	48.2		37.4	0.29	1.52			
Star	1-QAQC	acidcol		25	373	10.5	1.3	48	25	5.70	0.5	53.7	56.2	50.6	0.00	0.21	66.89		
Trout	Regions	alkcol		137	1313	31.9	0.8	142	164	7.00	15.0	64.6	63.2	75.1	0.15	1.39	52.30		
Unity	1-QAQC	acidcol		35	858	24.2	0.8	83	123	6.00	2.3	61.9	63.2	55.4	0.02	0.80	54.53		
Wauberg	1-QAQC	alkcol		78	1717	81.7	0.7	84	27	8.20	16.7	73.8	65.1	67.0	0.07	0.34	43.19	71	80
Wells	Greis (1	acidcol		10	620	0.7	2.9	40	37	5.00	2.0	27.1	44.7	37.4			95.14		
Yale	Canfield	alkclr		14	655	9.8	1.4	264	7	8.30	116.4	53.0	55.2	42.2	0.03	0.07	68.31	44	35

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
(NO NAME	EPA-ELS	alkcol		29			2.7	252	35	8.50	114.5		45.7	52.7					
(NO NAME	EPA-ELS	acidcol		5			3.0	37	25	6.30	0.8		44.2	27.4					
(NO NAME	EPA-ELS	acidcl75		2			4.2	56	5	4.50	0.0		39.3	14.1					
Baptist	Greis (1	acidcol		20	560	5.7	1.4	35	26	4.60	0.8	47.7	55.2	47.3	0.01	0.58	72.67		
Beakman	Greis (1	acidcl75		14	340	0.8	3.1	43	6	4.60	1.3	28.4	43.7	42.2	0.01	0.46	95.92		
Big bass	Greis (1	acidcol		10	1110	1.4	2.1	32	66	5.00	2.3	33.9	49.3	37.4	0.04	0.52	88.68		
Big Stee	Greis (1	acidcl75		10	350	1.0	2.1	37	20	4.90	2.7	30.6	49.3	37.4			91.39		
Boyd	Greis (1	acidcol		10	1150	3.0	0.6	49	369	4.10	0.5	41.4	67.4	37.4	0.02	2.04	67.97		
Buck	Greis (1	acidcol		10	510	1.8	3.1	34	27	5.20	2.8	36.4	43.7	37.4	0.05	0.57	91.19		
Buckskin	Greis (1	acidcol		11	730	1.1	2.1	30	21	4.90	1.5	31.5	49.3	38.7	0.02	0.34	90.62		
Bunchgro	Greis (1	acidcol		20	1410	5.1	1.1	35	96	4.40	0.5	46.6	58.6	47.3			70.76		
Catherin	Canfield	acidcl75		2	303	2.0	3.2	48	3	4.70	0.4	37.4	43.2	14.1	0.00	0.28	90.71		
Chain-O-	Greis (1	acidcl75		20	1230	1.4	2.6	41	12	4.80	2.0	33.9	46.2	47.3			91.17		
Chastain	LW(6/96)			17	647	7.2	1.7					50.0	52.4	45.0			73.05		
Clay	Canfield	acidcl75		7	356	4.0	4.0	51	3	4.80	0.7	44.2	40.0	32.2	0.06	4.25	87.74		
Clay	Greis (1	acidcl75		10	370	1.1	1.6	53	7	4.50	0.8	31.5	53.2	37.4			87.45		
CLEAR	EPA-ELS	alkcol		4			3.8	48	25	6.90	3.6		40.8	24.1					
Clearwat	Greis (1	acidcl75		10	400	1.1	2.0	61	3	4.40	0.3	31.5	50.0	37.4	0.01	2.03	90.05		
Cowpen P	Greis (1	acidcol		10	660	1.0	1.5	47	33	4.70	1.5	30.6	54.2	37.4			87.47		
Crooked	Canfield	acidcl75		7	313	2.0	3.1	45	4	4.60	0.4	37.4	43.7	32.2			90.34		
Crooked	Greis (1	acidcl75		20	470	2.0	2.8	33	13	4.70	1.3	37.4	45.2	47.3			89.16		
Deer	Greis (1	acidcl75		10	230	1.0	3.4	34	9	4.60	1.3	30.6	42.4	37.4	0.03	0.89	96.99		
Deerhave	Greis (1	acidcol		10	510	0.9	2.0	36	22	4.70	1.5	29.6	50.0	37.4			90.82		
Delancy	Regions	acidcol		10	750	7.3	1.1	51	24	5.10	0.0	50.1	58.6	37.4		0.13	67.87		
Doe	Greis (1	acidcl75		10	180	0.9	4.1	47	5	4.60	1.8	29.6	39.7	37.4	0.01	0.16	99.17		
Dolls	LW(6/96)			19	862	6.0	0.9					48.2	61.5	46.6			67.11		
Echo	Greis (1	acidcl75		10	310	1.0	3.3	33	8	4.50	2.0	30.6	42.8	37.4			96.65		
Farles	Greis (1	acidcl75		10	440	0.6	3.9	40	9	4.90	2.3	25.6	40.4	37.4			98.59		
Fore	LW(6/96)			8	480	5.0	3.5					46.4	41.9	34.1			84.39		
Fore	Greis (1	acidcol		10	640	3.7	1.9	40	69	4.90	1.5	43.4	50.8	37.4			79.70		
Grasshop	Canfield	acidcl75		6	259	1.0	3.7	61	0	4.50	0.1	30.6	41.1	30.0			97.98		
Grassy	Greis (1	acidcol		10	1110	1.8	0.8	35	164	5.10	3.0	36.4	63.2	37.4	0.02	0.22	75.42		
Hopkins	Greis (1	acidcol		10	2040	1.2	1.5	45	160	4.70	1.8	32.4	54.2	37.4			86.00		
Joes	LW(6/96)			12	660	4.9	2.7					46.2	45.7	40.0			81.53		
Kathryn	Regions	acidcl75		13	513	7.7	1.7	73	20	6.40	3.7	50.6	52.4	41.1	0.12	2.43	72.51		
Kerr	Regions	acidcl75		7	203	1.7	3.0	218	7	6.00	0.6	35.8	44.2	32.2	0.00	0.08	91.27		
Kidney	Regions	acidcol		10	1117	4.9	1.6	42	44	4.70	0.0	46.2	53.2	37.4			75.44		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
King	1-QAQC	acidcl75		15	687	7.0	2.3	48	11	6.40	3.0	49.7	48.0	43.2			76.79		
Lawbreak	Canfield1	acidcl75		1	108	1.0	5.5	65	0	4.40	0.0	30.6	35.4	4.2			100.00		
Little3	Greis (1)	acidcl75		10	360	1.2	3.3	47	13	4.70	1.3	32.4	42.8	37.4	0.01	0.51	95.18		
Mary	Greis (1)	acidcl75		10	220	0.7	4.1	52	6	4.50	1.0	27.1	39.7	37.4	0.00	0.23	99.17		
Mill Dam	Greis (1)	acidcol		10	560	1.7	3.7	43	27	6.50	6.0	35.8	41.1	37.4			93.71		
Mill Dam	1-QAQC	acidcl75		15	592	5.0	1.8	52	8	6.40	2.2	46.4	51.5	43.2	0.01	0.25	76.65		
Nicatoon	Greis (1)	acidcol		10	1490	2.9	1.5	107	141	6.10	9.3	41.0	54.2	37.4	0.03	0.35	78.91		
North Gr	Greis (1)	acidcl75		7	330	0.5	5.8	39	11	4.70	1.3	23.8	34.7	32.2	0.02	0.56	100.00		
Penner	Greis (1)	acidcol		10	840	3.2	0.9	22	78	4.50	0.8	42.0	61.5	37.4			72.17		
Round La	Greis (1)	acidcl75		10	190	1.1	4.0	33	6	4.80	1.0	31.5	40.0	37.4			98.12		
Round Po	Greis (1)	acidcol		10	560	1.0	2.1	34	23	4.80	2.0	30.6	49.3	37.4	0.10	1.70	91.39		
Sellers	Greis (1)	acidcl75		10	180	0.5	5.3	45	3	4.60	1.3	23.8	36.0	37.4			100.00		
Shoesole	Greis (1)	acidcl75		10	380	0.6	4.4	38	16	4.70	1.5	25.6	38.7	37.4			100.00		
Silver	Regions	acidcol		5	490	2.3	2.7	87	22	4.90	0.0	38.8	45.7	27.4		5.12	87.61		
Skinny D	Greis (1)	acidcl75		10	630	0.7	3.5	42	3	4.40	1.3	27.1	41.9	37.4			97.33		
South	Regions	acidcol		6	723	2.3	1.3	64	94	4.40	0.0	38.8	56.2	30.0		1.60	79.10		
South Gr	Greis (1)	acidcl75		20	350	0.9	3.3	36	9	4.70	1.3	29.6	42.8	47.3			96.65		
Swim Pon	Canfield1	acidcol		25	1025	11.0	0.6	43	26	5.60	0.9	54.1	67.4	50.6	0.01	0.57	57.52		
Tomahawk	Greis (1)	acidcl75		10	260	0.8	4.7	32	7	4.70	1.0	28.4	37.7	37.4			100.00		
Trout	Greis (1)	acidcol		10	290	1.2	2.8	44	29	4.70	1.0	32.4	45.2	37.4			93.27		
Waldena	Greis (1)	acidcol		14	380	1.4	2.4	29	29	5.70	2.7	33.9	47.4	42.2	0.06	0.64	90.23		
Wildcat	Canfield	acidcl75		8	192	1.3	3.2	33	18	4.80	0.9	33.2	43.2	34.1	0.00	0.14	94.18		
Wildcat	Greis (1)	acidcol		10	260	1.1	3.5	43	24	4.50	1.8	31.5	41.9	37.4			96.57		
Yearling	Greis (1)	acidcl75		6	230	0.8	4.6	32	2	4.50	1.5	28.4	38.0	30.0			100.00		
Akron	Regions	acidcol		129	773	16.3	0.7	97	245	4.20	0.0	58.0	65.1	74.2		0.49	56.15		
Ann	LW(6/96)			34	1432	41.5	0.5					67.1	70.0	55.0			44.72		
Asbury N	LW(6/96)			13	410	4.0	2.5					44.2	46.8	41.1			82.27		
Asbury S	Summer'	alkclr		11	283	6.0	3.7	98	9	7.70	27.0	48.2	41.1	38.7			83.57		
Ashby	Canfield	alkcol		18	573	11.4	0.8	80	146	6.90	12.7	54.5	63.2	45.8	0.01	0.08	60.58		
Ashley	1-QAQC	acidcl75		10	180	3.0	0.5	69	3	4.60	0.0	41.4	70.0	37.4		0.81	65.85		
Bel Air	LW(6/96)			8	502	2.2						38.3		34.1					
Belle Ai	LW(6/96)			32	693	9.0	0.9					52.2	61.5	54.1			63.85		
Belle Te	LW(6/96)			27	619	15.4	1.2					57.4	57.4	51.7			62.88		
Beresfor	LW(6/96)			73	1287	37.9	0.7					66.3	65.1	66.0			49.36		
Bethel	LW(6/96)			95	1035	20.6	1.0					60.3	60.0	69.8			58.42		
BIG	EPA-ELS	alkcol		11			1.3	81	85	6.60	2.9		56.2	38.7					
Birchwoo	LW(6/96)			42	473	6.7	1.6					49.3	53.2	58.0			72.92		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Bird of	LW(6/96)			19	494	7.8	1.4					50.8	55.2	46.6			70.15		
Birdway	LW(6/96)			22	621	11.0	1.0					54.1	60.0	48.7			63.46		
Blue	LW(6/96)			25	345	6.7	1.2					49.3	57.4	50.6			69.57		
Blue	LW(6/96)			36	1100	19.1	1.0					59.5	60.0	55.8			59.03		
Blue Cyp	Regions	alkcol		109	1003	5.7	0.6	133	254	7.50	27.0	47.7	67.4	71.8	0.00	0.02	62.81		
Brandon	LW(6/96)			9	350	2.4	1.8					39.2	51.5	35.8			82.55		
Cathead	Greis (1	acidcol		30	710	5.3	0.3	36	452	5.00	2.8	47.0	77.3	53.2			55.32		
Clearwat	LW(6/96)			33	670	29.8	0.8					63.9	63.2	54.6			52.85		
Crane	Regions	acidcol		4	2440	2.8		85	85	4.30	0.0	40.7		24.1		0.89			
Crescent	Canfield	alkcol		30	1104	24.8	0.6	234	247	7.20	19.9	62.1	67.4	53.2			50.98		
Crescent	Regions	alkcol		133	1463	3.8	0.3	152	546	6.80	11.0	43.7	77.3	74.7	0.00	0.01	58.00		
David	LW(6/96)			11	509	3.1	1.4					41.7	55.2	38.7			77.57		
Davis	Regions	acidcol		11	860	4.0	0.8	94	99	6.00	2.5	44.2	63.2	38.7	0.04	1.65	69.00		
De Witt	LW(6/96)			30	739	14.6	1.2					56.9	57.4	53.2			63.31		
Deborah	LW(6/96)			16	512	3.9	1.7					44.0	52.4	44.1			77.98		
Dexter(V	Canfield	alkcol		114	994	17.6	0.7	730	136	7.60	51.3	58.7	65.1	72.4	0.03	0.38	55.53		
Dias	Regions	alkcol		21	760	8.4	1.1	106	105	6.60	4.3	51.5	58.6	48.1	0.01	0.15	66.74		
Disston	Canfield	acidcol		11	832	1.6	0.4	52	383	5.30	3.1	35.2	73.2	38.7	0.00	0.03	68.30		
Doctors	Regions	alkcol		88	1307	58.0	0.5	853	132	7.80	48.7	70.4	70.0	68.7			42.02		
Dolores	LW(6/96)			17	933	3.3	2.0					42.3	50.0	45.0			81.22		
Dorr	Canfield	acidcol		20	369	4.2	1.2	44	92	5.30	1.9	44.7	57.4	47.3	0.00	0.03	73.33		
Forest	LW(6/96)			18	749	6.7	2.3					49.3	48.0	45.8			77.15		
Fox	LW 93	alkcol		52	1493	36.4		908	128	7.40	56.7	65.9		61.1	0.34	5.50			
Gemini S	LW(6/96)			57	737	1.0						30.6		62.5					
George	LW(6/96)			58	1233	43.1	0.7					67.5	65.1	62.7			48.33		
George	Regions	alkcol		79	1393	18.2	0.5	484	226	7.80	47.0	59.1	70.0	67.2	0.00	0.01	51.35		
Gobbler	Greis (1	acidcol		10	1210	2.6	0.5	53	405	4.10	0.0	40.0	70.0	37.4		2.12	67.00		
Goodson	Regions	acidcol		18	717	21.9	1.4	50	30	5.80	0.7	60.9	55.2	45.8	0.01	0.56	61.84		
Gore	LW(6/96)			12	659	1.8	0.7					36.4	65.1	40.0			73.87		
Grandin	1-QAQC	acidcol		47	715	31.0	0.7	54	35	5.50	0.4	64.3	65.1	59.7	0.00	0.15	50.98		
Hamey	Regions	alkcol		40	1027	1.7	0.7	365	106	7.40	45.0	35.8	65.1	57.3			74.33		
Hamey	Canfield	alkcol		99	1057	11.8	0.8	1111	103	7.60	47.3	54.8	63.2	70.4	0.01	0.18	60.30		
Harriet	LW(6/96)			37	683	5.9	1.2					48.0	57.4	56.2			70.60		
Horsesho	Regions	acidcol		19	723	12.3	0.5	76	350	4.50	0.0	55.2	70.0	46.6		0.80	54.50		
Jean	LW(6/96)			12	578	3.2	2.2					42.0	48.6	40.0			82.57		
Jeffery	LW(6/96)			18	689	6.1	1.6					48.3	53.2	45.8			73.68		
Jessup	Regions	alkcol		143	1590	84.8	0.4	412	68	7.50	55.7	74.2	73.2	75.7	0.01	0.04	36.37	84	48

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Karen	LW(6/96)			23	801	12.0	1.3					55.0	56.2	49.4			65.82		
Laguna	LW(6/96)			46	1545	48.0	0.7					68.6	65.1	59.4			47.46		
Lulu	Regions	acidcol		8	890	10.2	0.8	76	200	5.10	0.0	53.4	63.2	34.1		0.23	61.47		
Margaret	Canfield	acidcol		20	714	7.2	0.7	59	65	4.60	0.3	50.0	65.1	47.3	0.00	0.16	62.72		
Margaret	LW(6/96)			13	461	4.3	2.1					44.9	49.3	41.1			79.66		
Mc Kenzi	LW(6/96)			25	762	21.0	2.2					60.5	48.6	50.6			67.44		
Mills	Regions	acidcol		21	620	5.8	1.0	115	100	6.20	2.9	47.8	60.0	48.1	0.01	0.50	68.61		
Monroe	Canfield	alkcol		91	1257	37.4	0.5	907	89	7.70	44.6	66.1	70.0	69.2			45.55		
Monroe	Regions	alkcol		54	1093	5.4	0.5	406	124	7.50	43.0	47.1	70.0	61.7	0.00	0.04	61.12		
Mud	Regions	acidcol		14	1163	5.6	1.0	117	141	6.00	3.4	47.5	60.0	42.2	0.09	2.93	68.89		
North Ta	LW(6/96)			22	1010	17.7	1.3					58.8	56.2	48.7			62.69		
Parkview	LW(6/96)			68	1130	18.8	0.5					59.4	70.0	65.0			51.09		
Patricia	LW(6/96)			10	657	4.7	2.4					45.8	47.4	37.4			80.49		
Phyllis	LW(6/96)			14	432	1.5						34.6		42.2					
Pierson	Regions	acidcol		42	1033	1.6	0.6	89	421	4.90	0.0	35.2	67.4	58.0			73.02		
Poinsett	Canfield	alkcol		49	1137	9.5	0.6	842	94	7.70	57.8	52.7	67.4	60.3	0.01	0.19	58.70		
Ribbon N	LW(6/96)			18	584	6.2	1.8					48.5	51.5	45.8			74.92		
Rippling	LW(6/96)			33	866	11.1	0.5					54.2	70.0	54.6			55.32		
Rose	LW(6/96)			54	712	12.9	1.1					55.7	58.6	61.7			63.29		
Ruce	LW(6/96)			26	591	9.7	1.4					52.9	55.2	51.1			68.39		
Ryan	LW(6/96)			10	371	4.0	2.0					44.2	50.0	37.4			79.67		
Sharon	LW(6/96)			40	945	21.8	1.1					60.8	58.6	57.3			59.07		
Shaw	LW(6/96)			44	1493	46.2	0.4					68.2	73.2	58.7			41.26		
Silver	LW 93	acidcol		11	887	15.6		102	30	6.10	1.2	57.6		38.7	0.02	1.34			
Silver G	LW(6/96)			23	101	1.0						30.6		49.4					
South La	LW 93	alkcol		38	1720	32.0		613	27	8.50	74.3	64.6		56.6	0.07	0.56			
South Ta	LW(6/96)			25	1204	24.3	1.3					61.9	56.2	50.6			60.14		
Spring G	LW 93	alkclr		39	710	5.7		763	5	8.40	120.0	47.7		57.0	0.23	1.46			
Spruce C	LW(6/96)			165	1102	8.3						51.4		77.8					
Suggs	Canfield	acidcol		66	1249	4.0	0.5	60	400	5.00	2.0	44.2	70.0	64.6			63.53		
Tucker	LW(6/96)			33	1742	17.1	0.3					58.5	77.3	54.6			45.90		
Washingt	Canfield	alkcol		31	1056	3.4	0.8	428	92	7.80	62.1	42.6	63.2	53.7	0.01	0.10	70.31	19	18
Wynnfiel	LW(6/96)			28	668	12.1	1.0					55.1	60.0	52.2			62.70		
Yancey	LW(6/96)			25	780	12.3	3.9					55.2	40.4	50.6			78.41		
Yankee	Regions	acidcol		20	1067	20.8	0.6	86	211	5.00	0.0	60.4	67.4	47.3		1.76	52.39		
(NO NAME)	EPA-ELS	alkcol		24			2.0	148	85	7.50	15.4		50.0	50.0					
Banana	LW(6/96)			9	451	4.5	1.4					45.4	55.2	35.8			74.57		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Bell	LW(6/96)			12	573	4.6	1.8					45.6	51.5	40.0			77.32		
Big	Regions	alkcol		15	637	4.9	1.5	163	105	6.70	12.3	46.2	54.2	43.2	0.08	1.12	74.69		
Bingham	LW(6/96)			12	886	4.8	1.9					46.0	50.8	40.0			77.61		
Broken A	LW(6/96)			5	227	1.7						35.8		27.4					
Broward	Canfield	acidcl75		4	172	1.5	5.7	71	4	5.50	1.4	34.6	34.9	24.1	0.00	0.15	96.74		
Butler	Regions	acidcol		5	700	3.9	1.8	69	63	5.10	0.0	44.0	51.5	27.4		0.65	78.65		
Charles	LW(6/96)			6	233	2.6	4.0					40.0	40.0	30.0			91.20		
Charm	Regions	alkcol		14	667	1.8		298	31	7.30	31.3	36.4		42.2	1.65	15.68			
Chuluota	Regions	alkcol		7	540	4.9	3.2	254	22	7.20	29.0	46.2	43.2	32.2			83.51		
Clear	1-QAQC	acidcl75		0	118	1.0		144	1	4.20	0.0	30.6				1.17			
Colby	Regions	alkcol		20	857	15.2	1.1	88	117	6.80	11.0	57.3	58.6	47.3			61.97		
Como	LW(6/96)			5	162	2.1	3.0					37.9	44.2	27.4			89.57		
Crystal	Regions	alkcol		7	720	4.5	2.3	143	30	7.10	13.0	45.4	48.0	32.2	0.04	0.41	80.35		
DOYLE	EPA-ELS	acidcol		9			2.8	65	25	4.60	0.0		45.2	35.8					
DuPont	Summer '							62		6.50	2.7								
East Cry	LW(6/96)			12	745	5.1	2.4					46.6	47.4	40.0			79.84		
East Twi	LW(6/96)			16	1061	7.0						49.7		44.1					
Emma	LW(6/96)			8	1001	3.0						41.4		34.1					
Emporia	LW(6/96)			12	747	4.0	2.4					44.2	47.4	40.0			81.79		
English	1-QAQC	alkclr		18	810	10.5	1.6	349	17	7.70	40.8	53.7	53.2	45.8			69.31		
Gem	LW(6/96)			6	241	2.2	2.7					38.3	45.7	30.0			87.97		
Geneva	Regions	alkcol		9	880	8.6	1.8	87	54	6.60	5.3	51.7	51.5	35.8	0.18	3.00	72.29		
Giddings	Regions	acidcol		7	913	7.5	1.7	52	42	5.90	1.6	50.4	52.4	32.2			72.72		
Gleason	Regions	alkcol		13	1013	4.0	2.4	157	33	7.20	38.3	44.2	47.4	41.1	0.42	1.73	81.79		
Golden	Regions	alkcol		124	1300	3.9	1.6	167	27	7.40	13.0	44.0	53.2	73.7	0.29	3.71	77.27		
Hamey	LW(6/96)			44	1224	13.9	0.9					56.4	61.5	58.7			60.36		
Hayes	LW(6/96)			34	692	31.5	1.5					64.4	54.2	55.0			59.72		
Helen	Regions	alkclr		25	830	9.8	1.5	165	14	6.90	13.0	53.0	54.2	50.6			69.11		
Horsesho	Regions	acidcol		5	277	2.0	3.2	74	30	5.70	0.5	37.4	43.2	27.4	0.02	3.36	90.71		
Hutchens	Regions	acidcol		4	500	1.9	2.5	70	52	5.20	0.1	36.9	46.8	24.1	0.00	1.79	88.25		
Lindley	LW(6/96)			14	569	5.4	2.7					47.1	45.7	42.2			80.75		
Little M	LW(6/96)			10	508	3.3	3.2					42.3	43.2	37.4			86.69		
Long	LW(6/96)			19	628	8.9	2.2					52.0	48.6	46.6			74.35		
Lower Lo	Regions	alkcol		13	623	2.9	3.3	166	26	6.80	8.9	41.0	42.8	41.1	0.03	0.65	88.08		
Marie	LW(6/96)			55	1217	33.1	1.2					64.9	57.4	61.9			56.73		
Mary	LW(6/96)			9	500	2.9	3.0					41.0	44.2	35.8			86.97		
Minnie	Regions	alkcol		13	387	3.8	0.4	159	296	7.10	39.0	43.7	73.2	41.1	1.00	4.08	61.35		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
North Es	LW 93	alkclr		5	280	2.7		138	7	6.70	3.5	40.3		27.4					
Odom	LW(6/96)			11	780	5.5	2.2					47.3	48.6	38.7			78.22		
Omega	1-QAQC	alkclr		25	1250	38.2	0.7	301	12	7.80	16.7	66.3	65.1	50.6			49.30		
Rice	Regions	alkcol		20	1053	8.5	1.6	114	52	6.90	20.7	51.6	53.2	47.3	0.46	2.53	71.01		
Rock	LW(6/96)			9	487	4.5	3.6					45.4	41.5	35.8			85.56		
Round	LW(6/96)			13	408	6.3	2.5					48.7	46.8	41.1			78.61		
Round	Regions	alkcol		12	513	9.0	1.8	174	60	6.90	21.0	52.2	51.5	40.0	1.75	14.50	71.92		
South Es	LW(6/96)			7	406	3.2	2.4					42.0	47.4	32.2			83.59		
Stella	Canfield	alkclr		13	458	2.7	4.1	239	12	7.10	15.7	40.3	39.7	41.1	0.05	0.78	91.19		
Sylvan	Regions	acidcol		7	737	4.6	2.6	117	43	5.60	0.7	45.6	46.2	32.2	0.00	0.63	81.60		
Tedder	LW(6/96)			19	787	7.4	0.7					50.2	65.1	46.6			62.50		
Three Is	Summer '	acidcol			650	5.7	1.9	64	82	5.70	1.3	47.7	50.8				76.22		
West Cry	LW(6/96)			13	542	5.0	2.2					46.4	48.6	41.1			78.98		
Winnemis	1-QAQC	acidcl75		10	418	1.2	2.1	185	5	5.80	0.4	32.4	49.3	37.4	0.00	1.13	89.92		
(NO NAME	EPA-ELS	alkcol		9			1.2	314	30	8.50	185.1		57.4	35.8					
Bellamy	Summer '	alkcol				2.6	2.4	113	31	7.40	34.0	40.0	47.4				85.26		
Blue Cov	LW(6/96)			168	1763	47.8	1.4					68.5	55.2	78.0			55.57		
Croft	LW 93	alkclr		9	600	2.2		115	19	7.60	36.0	38.3		35.8					
Dodd	Summer '	alkcol		12		6.0	2.7	113	29	7.20	34.3	48.2	45.7	40.0			79.90		
Floral C	Summer '	alkcol		54	1155	34.3	0.9	143	152	7.50	47.2	65.3	61.5	61.7			53.09	47	34
Fort Coo	Regions	alkcol		19	1380	2.5		257	34	7.70	92.7	39.6		46.6	0.62	1.71			
Fred's	Regions	alkclr		8	1000	0.9		275	17	7.90	97.7	29.6		34.1					
Hampton	Summer '	alkcol		39		29.4	1.0	134	121	7.30	46.2	63.8	60.0	57.0			55.56		
Henderso	Summer '	alkcol		35	1083	21.0	1.2	141	107	7.60	47.0	60.5	57.4	55.4			60.39		
Hernando	Summer '	alkcol				7.0	2.5	130	39	7.70	41.7	49.7	46.8				77.77		
Little7	LW(6/96)			17	978	10.1	1.4					53.3	55.2	45.0			68.07		
Magnolia	Regions	alkcol		17	687	1.6		376	30	7.80	183.0	35.2		45.0	2.86	5.88			
MOON	EPA-ELS	alkcol		22			1.6	121	50	8.00	49.5		53.2	48.7	0.67	1.64			
Spivey	Summer '	alkcol		35	1240	37.3	0.9	131	172	7.20	41.7	66.1	61.5	55.4			52.42		
Todd	Summer '	alkcol				5.6		119	40	7.10	38.7	47.5							
Tsala Ap	LW(6/96)			22	1118	10.5	1.2					53.7	57.4	48.7			65.96		
Tsala A1	Summer '	alkcol		42		30.0	0.7	138	127	7.60	46.7	64.0	65.1	58.0	0.00	0.01	51.24		
Tussock	LW(6/96)			34	986	16.7	0.9					58.2	61.5	55.0			58.88		
Van Ness	LW 93	alkcol		8	613	2.1		134	24	7.50	45.7	37.9		34.1					
Blanton	Regions	alkcol		63	1277	47.9	1.0	125	162	6.90	16.0	68.6	60.0	63.9	0.13	0.99	51.63		
Bonnie	Regions	alkcol		105	1290	12.5	0.5	96	106	7.30	38.0	55.4	70.0	71.3	3.17	8.00	54.37		
Clear(Pa	Canfield	alkclr		21	761	21.0	1.3	195	13	8.60	44.9	60.5	56.2	48.1	0.28	1.23	61.32		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Dowling	Regions	alkcol		35	960	31.0	1.3	106	60	6.70	7.2	64.3	56.2	55.4	0.08	1.23	58.19		
Geneva	Regions	alkcol		35	1470	7.4	0.8	114	198	7.10	29.0	50.2	63.2	55.4	0.49	1.93	64.06		
Iola	Regions	alkclr		26	737	19.2	1.8	145	9	8.20	7.1	59.6	51.5	51.1	0.07	1.36	65.83		
Keyhole	Regions	alkcol		1221	1443	93.5	0.8	463	31	8.40	123.3	75.1	63.2	106.6			43.66		
Lindsey	Canfield	alkcol		19	636	6.0	1.9	33	37	6.90	10.2	48.2	50.8	46.6	0.07	0.24	75.81		
May Prai	Regions	acidcol		8	1417	3.4		36	94	4.60	0.0	42.6		34.1		0.65			
McKethan	Regions	acidcol		61	1100	17.4	1.3	49	112	6.50	12.3	58.6	56.2	63.4	0.22	0.86	62.83		
Middle	Regions	alkcol		80	1123	36.1	0.8	148	58	7.30	25.0	65.8	63.2	67.3	0.12	0.69	51.31		
MOODY	EPA-ELS	alkcol		26			2.6	168	65	8.10	34.9		46.2	51.1					
Mountain	Canfield	alkcol		37	813	10.0	1.7	113	39	7.30	25.6	53.2	52.4	56.2	0.20	0.89	70.41		
Neff	Regions	acidcol		109	1417	5.1	0.8	92	204	6.50	11.3	46.6	63.2	71.8	0.05	0.41	67.05		
Pasadena	Canfield	alkclr		15	702	3.0	2.2	131	19	7.80	20.4	41.4	48.6	43.2	0.05	0.35	83.09		
Rush	Regions	acidcol		9	447	2.6	2.2	36	24	5.70	0.7	40.0	48.6	35.8	0.01	0.69	84.24		
West Moo	Canfield	alkclr		14	584	2.0	2.8	127	20	8.10	30.6	37.4	45.2	42.2	0.58	2.40	89.16		
Willow P	Regions	acidcol		17	1110	6.4	1.2	48	86	6.50	9.8	48.8	57.4	45.0	0.75	3.69	69.94		
(NO NAME	EPA-ELS	alkclr		5			3.7	113	15	7.70	17.9		41.1	27.4					
(NO NAME	EPA-ELS	alkcol		19			1.5	141	45	7.90	18.7		54.2	46.6					
Bowers	LW(6/96)			10	407	1.6	3.0					35.2	44.2	37.4			91.76		
Crystal	Regions	alkclr		11	1080	5.5		118	15	7.10	11.0	47.3		38.7	0.23	2.51			
Lady	1-QAQC	acidcl75		10	553	2.3	0.8	133	7	5.30	0.3	38.8	63.2	37.4	0.00	0.57	73.45		
Little11	1-QAQC	alkclr		10	903	8.8	2.1	153	9	6.60	4.3	51.9	49.3	37.4	0.01	0.48	73.90		
Mathews	1-QAQC	alkclr		12	1135	6.5	1.4	167	11	7.30	38.3	49.0	55.2	40.0			71.61		
Myrtle	Regions	alkclr		7	403	1.1	3.8	149	8	7.30	14.7	31.5	40.8	32.2	0.20	2.01	97.52		
PECAN	EPA-ELS	acidcl75		5			4.6	37	10	5.20	0.0		38.0	27.4					
R. N. Sp	Regions	acidcol		10	1503	3.9	1.3	76	68	6.10	2.1	44.0	56.2	37.4			74.86		
Smith	1-QAQC	acidcl75		8	435	2.3	1.2	84	9	6.10	1.2	38.8	57.4	34.1	0.00	0.23	78.17		
Sunset	LW(6/96)			25	1522	2.5	3.6					39.6	41.5	50.6			90.29		
Sunset H	1-QAQC	alkclr		10	845	11.8	1.6	162	5	7.10	12.5	54.8	53.2	37.4			68.37		
Sunshine	LW(6/96)			22	763	1.7	0.3					35.8	77.3	48.7			64.47		
Tigerhea	Regions	alkclr		15	1063	5.4	2.0	178	15	7.10	21.0	47.1	50.0	43.2	0.30	2.54	77.26		
Weir	Canfield	alkclr		12	641	7.4	2.3	136	3	7.10	12.0	50.2	48.0	40.0	0.00	0.02	76.35	18	18
Zephyr	LW(6/96)			12	533	3.7	3.4					43.4	42.4	40.0			86.47		
(NO NAME	EPA-ELS	alkclr		9			3.2	161	20	7.40	9.4		43.2	35.8					
(NO NAME	EPA-ELS	alkcol		15			1.6	333	25	8.40	32.4		53.2	43.2					
Dalhousi	Regions	alkclr		5	523	3.5	2.8	181	8	6.90	8.5	42.9	45.2	27.4	0.03	0.74	84.66		
East Cro	1-QAQC	alkclr		10	790	4.7	3.2	334	4	7.60	48.0	45.8	43.2	37.4			83.84		
Eldorado	1-QAQC	alkclr		10	565	2.7	1.6	449	9	7.80	37.7	40.3	53.2	37.4	0.22	2.64	80.23		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Frances	Regions	alkclr		46	983	19.6	0.7	240	15	8.50	58.0	59.8	65.1	59.4	1.12	4.62	54.67		
Gertrude	1-QAQC	alkclr		10	492	3.2	4.5	254	5	7.60	31.2	42.0	38.3	37.4	0.12	1.02	90.65		
Island	Regions	alkclr		6	497	2.6	4.4	334	11	7.80	45.0	40.0	38.7	30.0	0.33	2.47	92.31		
Joanna	LW(6/96)			7	433	2.4	3.9					39.2	40.4	32.2			91.55		
Minneola	Regions	alkclr		7	470	1.5		197	14	7.10	16.0	34.6		32.2	0.01	0.10			
Nettie	LW(6/96)			13	480	4.4	2.9					45.1	44.7	41.1			83.23		
North Tw	LW(6/96)			7	437	5.0						46.4		32.2					
Peanut P	LW(6/96)			25	724	24.7	1.8					62.1	51.5	50.6			63.80		
Pearl	Regions	alkclr		6	550	5.2	3.3	320	4	7.70	41.3	46.8	42.8	30.0	0.57	4.38	83.39		
Saunders	Regions	alkclr		5	483	0.8	4.9	193	15	7.30	16.0	28.4	37.1	27.4	0.04	0.46	100.00		
South Tw	1-QAQC	alkclr		10	990	6.7	1.9	291	4	7.50	32.0	49.3	50.8	37.4	0.40	3.59	74.92		
Tower	Regions	alkcol		235	563	1.9	3.4	179	26	7.00	12.0	36.9	42.4	82.9			91.83		
Woodward	1-QAQC	alkclr		10	525	3.2	2.8	178	7	7.00	18.8	42.0	45.2	37.4	0.21	1.98	85.38		
(NO NAME)	EPA-ELS	alkcol		30			0.8	543	45	8.50	83.9		63.2	53.2					
(NO NAME)	EPA-ELS	alkclr		12			1.8	399	20	8.60	68.9		51.5	40.0					
(NO NAME)	EPA-ELS	alkcol		28			1.5	497	40	8.50	75.1		54.2	52.2					
(NO NAME)	EPA-ELS	alkcol		42			0.5	432	50	8.60	125.4		70.0	58.0					
Angelina	LW(6/96)			34	822	19.6	1.9					59.8	50.8	55.0			66.29		
Bear	Regions	alkclr		11	347	4.1		138	15	7.00	6.4	44.4		38.7	0.02	0.45			
Bennett	LW(6/96)			20	637	7.5	2.4					50.4	47.4	47.3			76.74		
Bracy	Regions	alkcol		10	693	2.3	1.8	127	60	6.70	6.2	38.8	51.5	37.4	0.08	1.69	82.89		
Brantley	Regions	acidcol		13	453	1.5	2.8	109	27	6.00	1.3	34.6	45.2	41.1	0.00	0.41	91.47		
Carter	Regions	alkcol		131	1363	3.7	1.2	208	108	7.10	38.0	43.4	57.4	74.5	4.75	26.00	74.35		
Cedar	Regions	alkcol		8	917	2.3	2.0	154	38	7.10	17.0	38.8	50.0	34.1			84.12		
Clear Wa	Regions	alkcol		33	1417	14.2	1.6	263	58	7.50	67.3	56.6	53.2	54.6			66.88		
Crooked	Regions	alkcol		39	980	6.0	1.4	133	81	7.40	39.0	48.2	55.2	57.0	0.45	1.55	72.26		
Cypress	Regions	alkcol		16	730	13.5	1.7	291	21	7.60	39.7	56.1	52.4	44.1	0.61	4.48	67.99		
Dream	LW(6/96)			17	741	20.4	1.5					60.2	54.2	45.0			63.22		
Ella	Regions	alkcol		13	1047	3.3	1.2	173	97	7.20	23.7	42.3	57.4	41.1	0.05	0.37	75.27		
Enola	Regions	alkcol		4	953	19.1	1.2	215	21	7.70	41.0	59.5	57.4	24.1	0.91	4.78	61.15		
Hiawasse	1-QAQC	alkcol		20	593	8.3	2.7	273	26	7.40	33.0	51.4	45.7	47.3	0.17	1.37	77.29		
Holly	Regions	alkcol		17	1020	7.1	1.3	198	75	6.80	9.9	49.8	56.2	45.0	0.10	2.02	70.04		
HOLLY	EPA-ELS	alkcol		12			2.0	187	55	8.00	20.5		50.0	40.0	0.21	1.91			
HOLTS	EPA-ELS	alkcol		58			1.1	309	55	8.70	105.2		58.6	62.7	3.19	9.36			
Hope	LW(6/96)			16	493	5.3	2.1					47.0	49.3	44.1			77.97		
Horsesho	LW(6/96)			59	1153	40.8	0.7					67.0	65.1	62.9			48.77		
Idamere	Regions	alkclr		9	613	4.2	1.5	272	11	6.80	6.3	44.7	54.2	35.8	0.07	2.92	75.93		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Jem	Regions	alkclr		8	463	2.6	2.3	243	10	7.20	16.0	40.0	48.0	34.1	0.84	12.79	84.76		
John's	1-QAQC	alkcol		43	1110	5.8	1.2	259	86	7.00	19.8	47.8	57.4	58.4	0.01	0.11	70.73		
Johns	Canfield	acidcl75		27	579	7.2	1.0	210	18	6.50	4.8	50.0	60.0	51.7			66.87		
Lawne	Regions	alkcol		76	1340	11.4	0.8	233	115	7.60	63.0	54.5	63.2	66.6	0.40	1.49	60.53		
Lena	Regions	alkclr		8	330	2.5	2.6	108	17	6.70	6.2	39.6	46.2	34.1	0.19	3.38	86.50		
Little1	LW(6/96)			15	519	5.6	2.8					47.5	45.2	43.2			80.88		
Little M	1-QAQC	alkclr		12	673	6.8	2.4	110	8	6.60	5.7	49.4	47.4	40.0			77.52		
Lucien	LW(6/96)			9	480	1.0	5.8					30.6	34.7	35.8			100.00		
Lucy	LW(6/96)			20	1151	7.1	1.7					49.8	52.4	47.3			73.16		
Maggiore	Regions	alkclr		11	783	2.3	2.2	246	14	7.20	17.0	38.8	48.6	38.7	0.57	8.20	85.23		
MARY	EPA-ELS	alkcol		43			0.8	330	50	8.30	48.9		63.2	58.4	1.81	12.22			
May	1-QAQC	alkcol		20	1087	8.2	1.6	307	25	7.20	32.2	51.2	53.2	47.3			71.30		
Metro We	LW(6/96)			16	618	6.9	2.3					49.5	48.0	44.1			76.91		
Mirror	LW(6/96)			20	797	16.3	1.4					58.0	55.2	47.3			64.22		
Moxie	LW(6/96)			11	633	7.5	2.6					50.4	46.2	38.7			77.67		
North Lo	LW(6/96)			71	927	22.5	1.2					61.1	57.4	65.6			59.83		
Ola	1-QAQC	alkclr		10	530	1.5	3.7	298	7	7.10	21.7	34.6	41.1	37.4	0.05	0.67	94.72		
Olivia	LW(6/96)			71	1135	54.5	1.3					69.8	56.2	65.6			53.65		
Olympia	LW(6/96)			10	683	6.4	2.7					48.8	45.7	37.4			79.33		
Orlando	1-QAQC	alkcol		68	1292	56.3	0.8	176	56	7.70	52.2	70.1	63.2	65.0			47.74		
Peach	LW(6/96)			20	971	15.9	2.2					57.7	48.6	47.3			69.63		
PRAIRIE	EPA-ELS	alkcol		13			2.5	107	60	7.90	12.4		46.8	41.1	0.34	2.89			
Primavis	LW(6/96)			36	1457	32.9	1.0					64.9	60.0	55.8			54.65		
Roberts	Regions	alkcol		68	1177	21.1	1.0	174	183	6.80	20.0	60.5	60.0	65.0	0.21	1.83	58.23		
Rose	1-QAQC	alkcol		57	2433	62.2	0.6	241	44	7.90	55.7	71.1	67.4	62.5	0.62	2.68	43.53		
Sawyer	Regions	alkclr		19	1253	29.0	1.0	289	20	7.70	46.0	63.6	60.0	46.6	0.49	3.11	55.67		
Seminary	1-QAQC	acidcl75		10	368	2.3	5.2	186	4	6.30	2.3	38.8	36.2	37.4	0.04	3.38	93.30		
Seneca	Regions	alkcol		33	773	6.3	1.3	122	84	6.70	7.3	48.7	56.2	54.6	0.08	1.27	71.00		
Sherwood	Regions	alkcol		92	720	4.7	2.6	191	51	7.20	48.0	45.8	46.2	69.4	0.40	1.61	81.43		
Smith	Regions	alkcol		37	1283	28.3	1.1	253	38	7.50	49.0	63.4	58.6	56.2	0.75	3.89	56.97		
South Lo	LW(6/96)			82	906	20.3	1.2					60.1	57.4	67.7			60.66		
Spring 2	LW(6/96)			8	643	3.5	4.0					42.9	40.0	34.1			88.81		
STANDISH	EPA-ELS	alkcol		18			1.4	141	105	7.90	23.3		55.2	45.8	0.47	2.82			
Stanley	Regions	alkcol		48	1047	29.1	1.0	202	34	9.00	48.0	63.7	60.0	60.0	1.09	4.59	55.64		
Starke	LW(6/96)			30	1057	26.7	1.0					62.8	60.0	53.2			56.33		
Susanne	Regions	alkcol		12	603	8.5	2.5	214	22	7.70	71.0	51.6	46.8	40.0			76.20		
Swatara	LW 93	alkclr		10	630	21.6		179	20	8.40	20.0	60.7		37.4	0.27	2.42			

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Three Co	Regions	alkcol		18	1090	11.0	1.5	132	45	7.20	22.0	54.1	54.2	45.8			68.18		
Turkey	Regions	alkcol		16	580	6.2	2.1	139	54	7.10	20.0	48.5	49.3	44.1	0.06	0.43	76.71		
Umatilla	Regions	alkcol		24	657	11.4	2.0	231	21	7.60	43.0	54.5	50.0	50.0	0.27	1.43	71.25		
Wekiva	Regions	alkcol		90	1773	55.2	0.6	198	80	8.40	59.0	69.9	67.4	69.0	0.31	1.04	44.55		
Wekiva	Summer '1	alkcol			633	7.4	2.7	160	23	7.80	39.3	50.2	45.7				78.21		
Yvonne	LW(6/96)			59	923	42.2	1.2					67.3	57.4	62.9			54.77		
Christin	LW(6/96)			37	538	20.4	1.6					60.2	53.2	56.2			63.97		
Crews	Canfield	alkcol		13	714	3.6	1.5	76	45	7.20	21.3	43.2	54.2	41.1	0.03	0.11	77.17		
Green	Regions	alkcol		16	937	6.8	1.6	102	26	6.70	5.5	49.4	53.2	44.1	0.21	3.92	72.80		
Hunter	LW(6/96)			14	849	4.0	2.0					44.2	50.0	42.2			79.67		
Moon	Regions	alkclr		17	893	8.9	1.3	131	15	7.20	14.0	52.0	56.2	45.0	0.14	1.32	68.22		
Pierce	Regions	acidcol		7	657	2.5		57	25	6.10	2.1	39.6		32.2	0.05	1.46			
Sugar Mi	Regions	alkcol		9	1623	1.1		192	41	7.60	48.3	31.5		35.8					
Tooke	Regions	acidcl75		8	440	1.6		108	8	6.40	1.1	35.2		34.1	0.00	0.46			
Big Gant	Regions	alkcol		46	773	10.5	1.7	351	42	7.60	149.0	53.7	52.4	59.4	1.60	3.77	70.02		
Bugg Spr	1-QAQC	alkclr		83	670	2.8	3.4	271	3	7.60	121.5	40.7	42.4	67.9			88.71		
Indian P	Regions	acidcol		11	2520	11.2	0.9	59	170	6.10	5.9	54.3	61.5	38.7			62.09		
(NO NAME	EPA-ELS	acidcol		28			0.5	115	45	6.40	0.8		70.0	52.2					
8-Ball	Regions	alkcol		11	1083	5.5		121	40	6.80	14.0	47.3		38.7					
Avalon	Regions	acidcol		9	920	3.3	1.7	129	42	6.40	3.9	42.3	52.4	35.8	0.02	0.80	79.32		
Big Merr	Regions	alkcol		20	1107	10.6	0.7	135	90	6.70	5.3	53.8	65.1	47.3	0.22	5.63	59.61		
BOGGY MA	EPA-ELS	acidcol		11			0.4	77	250	5.40	0.3		73.2	38.7					
Cherry	1-QAQC	acidcl75		10	572	2.7	2.7	100	17	6.30	2.3	40.3	45.7	37.4	0.01	0.25	86.32		
Church	Regions	acidcl75		5	347	2.0		171	8	5.90	0.9	37.4		27.4	0.01	1.20			
COOK	EPA-ELS	alkcol		16			1.8	95	100	6.80	3.4		51.5	44.1					
CR Big	LW(6/96)			13	620	7.3	1.6					50.1	53.2	41.1			72.23		
CR Small	LW(6/96)			17	1048	14.8	0.9					57.0	61.5	45.0			59.85		
Crescent	Canfield	acidcl75		14	412	2.9	3.0	81	15	6.40	4.4	41.0	44.2	42.2	0.03	0.57	86.97		
David	Regions	alkcol		23	840	9.7	2.2	137	34	7.20	34.0	52.9	48.6	49.4			73.65		
Douglas	Canfield1	alkcol		11	1122	2.0	1.5	245	30	7.20	27.1	37.4	54.2	38.7			81.89		
Emma	1-QAQC	alkclr		7	527	2.0	3.7	101	15	6.60	3.7	37.4	41.1	32.2	0.02	0.58	92.40		
Florence	Regions	alkclr		24	1087	17.7	1.5	265	12	8.50	68.0	58.8	54.2	50.0	0.52	2.04	64.36		
GLONA	EPA-ELS	alkcol		14			1.5	103	105	6.70	3.9		54.2	42.2					
Grassy	Regions	alkclr		6	480	2.2		220	15	6.80	6.3	38.3		30.0	0.04	1.41			
Hancock	Regions	alkcol		10	1090	3.6	2.4	168	56	7.10	14.0	43.2	47.4	37.4	0.03	0.37	82.64		
Hickoryn	LW(6/96)			7	987	1.9	4.0					36.9	40.0	32.2			93.72		
Hickory1	LW(6/96)			12	850	3.5	1.1					42.9	58.6	40.0			73.78		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Kirkland	1-QAQC	acidcl75		10	418	1.3	1.2	151	7	6.40	2.0	33.2	57.4	37.4	0.01	0.53	82.76		
Little8	LW(6/96)			7	562	1.7	3.9					35.8	40.4	32.2			94.32		
Live Oak	Regions	alkcol		24	1160	20.7	1.0	174	52	7.60	37.3	60.3	60.0	50.0	0.91	4.24	58.38		
Long	Regions	alkcol		13	1043	5.1	1.7	191	69	7.00	22.0	46.6	52.4	41.1	0.18	1.57	75.82		
Louisa	Regions	acidcol		22	1557	4.8	0.3	99	447	4.70	0.0	46.0	77.3	48.7		0.03	56.12		
Lucy	Regions	acidcol		10	840	2.3	1.3	112	95	6.40	4.3	38.8	56.2	37.4	0.01	0.33	79.10		
Minnehah	Regions	acidcol		17	1047	5.0	0.8	108	204	5.40	1.0	46.4	63.2	45.0	0.00	0.05	67.21	27	39
Minneola	Regions	alkcol		14	750	9.2	1.3	122	50	6.70	5.2	52.4	56.2	42.2	0.00	0.06	67.96		
Needham	Regions	alkcol		11	983	2.2	1.8	84	88	6.60	6.1	38.3	51.5	38.7			83.25		
North Me	Regions	alkcol		16	997	3.5	1.0	133	52	6.80	11.0	42.9	60.0	44.1			72.67		
OSAGE	EPA-ELS	acidcol		17			1.9	49	50	5.60	0.0		50.8	45.0		2.13			
Rabbit	Regions	alkcol		8	757	3.2	2.4	154	50	6.60	10.0	42.0	47.4	34.1			83.59		
Spencer	1-QAQC	acidcl75		10	648	2.7	0.5	175	5	5.70	0.4	40.3	70.0	37.4			66.69		
SQUARE	EPA-ELS	alkcol		15			1.1	150	150	7.90	14.6		58.6	43.2	0.86	8.82			
Susan	Regions	acidcol		21	1537	3.8	0.3	99	471	4.80	0.0	43.7	77.3	48.1		1.22	58.00		
Trout	Regions	alkclr		6	793	1.7	4.6	268	9	8.00	77.0	35.8	38.0	30.0	0.40	1.40	95.73		
Turkey	Regions	acidcol		10	1360	2.2	1.9	122	78	6.20	2.6	38.3	50.8	37.4			83.88		
WILMA (EPA-ELS	alkclr		12			3.4	107	20	7.30	7.3		42.4	40.0	0.24	3.45			
Winona	LW(6/96)			11	560	3.9	3.3					44.0	42.8	38.7			85.70		
Bessie	LW(6/96)			6	386	1.6	5.2					35.2	36.2	30.0			96.22		
Blanche	Regions	alkclr		6	380	2.6	3.6	206	15	7.50	27.0	40.0	41.5	30.0	0.22	1.70	89.98		
Butler	Regions	alkclr		6	517	2.8	3.5	266	7	8.40	26.3	40.7	41.9	30.0	0.02	0.16	89.05		
Chase	Regions	alkclr		7	483	3.1	3.1	195	18	7.20	15.3	41.7	43.7	32.2	0.11	1.44	86.82		
Down	Regions	alkclr		7	363	2.9	3.5	255	8	7.10	12.3	41.0	41.9	32.2	0.01	0.29	88.77		
Floy	LW(6/96)			243	1735	66.6	1.2					71.8	57.4	83.4			51.10		
Islewort	Regions	alkclr		10	510	4.2	2.4	217	20	7.20	17.0	44.7	47.4	37.4			81.40		
Little D	Regions	alkclr		13	487	6.6	2.2	255	16	7.10	14.7	49.1	48.6	41.1			76.75		
Little W	LW(6/96)			11	535	4.0	3.6					44.2	41.5	38.7			86.51		
Louise	Regions	alkclr		11	567	6.8	2.1	249	16	7.30	24.0	49.4	49.3	38.7	0.17	1.72	75.97		
Marsha	LW 93	alkclr				3.4		129	13	6.90	12.0	42.6							
Pocket	LW(6/96)			13	530	5.8	2.5					47.8	46.8	41.1			79.28		
Sheen	LW(6/96)			10	464	2.3	2.6					38.8	46.2	37.4			87.17		
Tibet	Regions	alkclr		7	463	2.4	3.2	194	17	7.20	14.3	39.2	43.2	32.2	0.01	0.16	89.25		
Wauseon	LW(6/96)			9	516	3.4	4.7					42.6	37.7	35.8			90.16		
Willis	LW(6/96)			10	501	2.8	3.3					40.7	42.8	37.4			88.37		
Adair	LW(6/96)			121	1121	62.1	0.8					71.1	63.2	73.3			46.95		
Adelaide	LW(6/96)			54	1234	57.8	1.0					70.4	60.0	61.7			50.12		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Arnold	1-QAQC	alkclr		25	733	21.2	1.8	191	8	8.10	16.3	60.6	51.5	50.6	0.60	7.07	65.03		
Baldwin	Canfield1	alkclr		21	530	18.3	1.6	179	12	8.10	63.1	59.1	53.2	48.1			64.84	18	
Barton	LW(6/96)			20	541	14.8	2.0					57.0	50.0	47.3			69.15		
Bay	1-QAQC	alkclr		27	962	16.8	1.6	227	19	8.00	50.2	58.3	53.2	51.7	1.22	5.54	65.53		
Bell	LW(6/96)			21	664	14.5	1.7					56.8	52.4	48.1			67.42		
Burkett	LW(6/96)			24	741	23.1	1.3					61.4	56.2	50.0			60.55		
C	1-QAQC	alkcol		40	855	19.3	1.5	215	28	7.00	45.0	59.6	54.2	57.3			63.66		
Cay Dee	1-QAQC	alkclr		25	860	13.8	1.3	136	18	7.70	36.5	56.3	56.2	50.6	5.21	19.43	64.69		
Cherokee	LW(6/96)			64	1011	47.3	0.8					68.4	63.2	64.1			49.14		
Clear	1-QAQC	alkclr		40	1200	38.2	1.0	206	18	8.00	70.0	66.3	60.0	57.3	0.21	0.61	53.45		
Concord	1-QAQC	alkclr		35	745	30.0	1.3	183	11	7.90	50.8	64.0	56.2	55.4	0.75	2.69	58.45		
Conway	Canfield	alkclr		13	401	4.4	3.7	193	3	7.60	29.2	45.1	41.1	41.1	0.03	0.18	86.06		
Cranes R	LW(6/96)			33	498	5.5	2.0					47.3	50.0	54.6			77.11		
Crystal	Canfield	acidcl75		6	118	0.5	8.1	13	0	5.70	1.6	23.8	29.9	30.0	0.27	2.17	100.00		
Daniel	1-QAQC	alkclr		35	755	17.5	1.2	195	14	7.80	48.2	58.7	57.4	55.4			61.85		
Davis	LW(6/96)			164	2177	116.5	0.4					77.3	73.2	77.7			33.82		
Dot	LW(6/96)			26	754	15.9	1.8					57.7	51.5	51.1			67.34		
Druid	LW(6/96)			39	968	16.9	1.3					58.3	56.2	57.0			63.06		
Eola	1-QAQC	alkclr		40	730	37.0	1.3	258	13	8.40	88.7	66.0	56.2	57.3	3.55	10.32	56.76		
Estelle	1-QAQC	alkcol		35	687	32.2	1.4	167	21	8.50	47.7	64.7	55.2	55.4	2.17	7.59	58.74		
Eulalia	LW(6/96)			17	627	4.0	2.7					44.2	45.7	45.0			83.16		
Fairview	Canfield	alkclr		14	446	2.4	4.8	173	5	8.10	52.2	39.2	37.4	42.2	0.13	0.43	92.96		
Farrah	1-QAQC	alkclr		22	835	13.7	1.6	267	10	7.90	29.0	56.3	53.2	48.7	3.63	33.38	67.17		
Florida	LW(6/96)			71	965	36.6	1.3					65.9	56.2	65.6			56.85		
Formosa	LW(6/96)			38	761	32.7	1.0					64.8	60.0	56.6			54.70		
Fredrica	LW 93	alkclr		9	350	2.7		178	7	7.60	26.0	40.3		35.8	0.37	2.51			
Fruitwoo	LW(6/96)			71	1075	115.8	1.0					77.2	60.0	65.6			44.53		
Gatlin	LW(6/96)			21	1054	27.6	1.0					63.1	60.0	48.1			56.07		
Gem	LW(6/96)			51	873	29.7	1.3					63.9	56.2	60.8			58.53		
George(B	LW(6/96)			15	732	8.2	2.2					51.2	48.6	43.2			75.01		
Georgia	1-QAQC	acidcl75		18	800	12.3	1.8	191	15	6.30	2.3	55.2	51.5	45.8	0.03	2.33	69.41		
Giles	1-QAQC	alkclr		30	723	24.3	1.3	195	14	8.40	33.7	61.9	56.2	53.2	0.91	5.27	60.14		
Griffin	LW(6/96)			179	1343	36.0	1.4					65.8	55.2	79.0			57.85		
Highland	1-QAQC	alkclr		37	592	17.8	1.9	138	14	8.00	30.0	58.8	50.8	56.2	1.03	4.76	67.07		
Holden	1-QAQC	alkclr		45	1550	66.5	0.6	256	15	8.40	75.5	71.8	67.4	59.0	0.30	1.02	43.05		
Hourglas	LW(6/96)			75	1442	85.8	0.6					74.3	67.4	66.4			41.00		
Howell	LW(6/96)			47	914	40.6	1.0					66.9	60.0	59.7			52.96		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Irma	LW(6/96)			35	655	3.8	1.2					43.7	57.4	55.4			74.14		
Ivanhoe	LW 93	alkclr		23	857	25.4		184	14	9.10	61.0	62.3		49.4	0.49	1.47			
Ivanhoe1	LW 93	alkclr		31	650	21.6		176	15	7.80	53.0	60.7		53.7	0.42	1.41			
Ivanhoe2	LW 93	alkclr		31	667	19.3		176	15	7.70	51.0	59.6		53.7	0.41	1.41			
Jackson	LW(6/96)			17	302	2.2	3.4					38.3	42.4	45.0			90.65		
Jessamin	Canfield	alkclr		16	612	4.9	3.4	184	5	7.80	43.6	46.2	42.4	44.1	0.14	0.60	84.21		
Jessami1	LW(6/96)			23	1120	28.3	0.9					63.4	61.5	49.4			54.64		
Jessami2	LW(6/96)			23	781	15.7	1.5					57.6	54.2	49.4			65.32		
Killame	Canfield1	alkclr		21	603	22.0	1.0	193	19	8.40	65.4	60.9	60.0	48.1	0.28	0.81	57.89		
La Grang	1-QAQC	alkclr		23	1190	16.8	1.1	250	15	7.80	29.0	58.3	58.6	49.4			61.17		
Lancaste	LW(6/96)			55	916	35.2	1.1					65.5	58.6	61.9			55.22		
Lawsona	LW(6/96)			110	1199	38.5	0.9					66.4	61.5	71.9			52.16		
Little C	LW(6/96)			11	436	4.6	4.1					45.6	39.7	38.7			86.90		
Little F	1-QAQC	alkclr		20	663	17.3	1.0	136	13	7.70	30.0	58.6	60.0	47.3	0.34	1.55	59.82		
Loma Do	LW(6/96)			49	810	38.7	1.0					66.5	60.0	60.3			53.35		
Luma	1-QAQC	alkclr		78	667	35.5	1.0	211	19	8.00	64.0	65.6	60.0	67.0	8.00	26.38	54.04		
Maitland	Canfield	alkclr		28	597	9.6	1.9	205	4	7.70	68.7	52.8	50.8	52.2	0.15	0.45	72.03		
Mann	LW(6/96)			35	778	17.3	1.2					58.6	57.4	55.4			61.95		
Martha	LW(6/96)			24	594	14.7	1.7					57.0	52.4	50.0			67.31		
Minnehah	LW(6/96)			34	761	27.0	1.2					62.9	57.4	55.0			58.37		
Nan	LW(6/96)			17	447	10.2	1.9					53.4	50.8	45.0			71.54		
Noname	LW(6/96)			11	458	3.6	2.9					43.2	44.7	38.7			84.84		
Orienta	Canfield1	alkclr		25	448	9.0	2.2	114	17	6.80	6.6	52.2	48.6	50.6	0.05	0.88	74.26		
Park	LW(6/96)			50	654	28.0	1.2					63.3	57.4	60.6			58.07		
Pearl	Canfield1	alkcol		28	819	21.7	0.9	118	68	7.40	18.8	60.8	61.5	52.2	0.32	2.03	56.77		
Pineloch	1-QAQC	alkclr		32	940	33.0	1.0	216	14	7.80	53.5	64.9	60.0	54.1	0.92	3.72	54.63		
Porter	LW(6/96)			14	485	7.4	2.6					50.2	46.2	42.2			77.73		
Prairie	LW(6/96)			21	729	10.3	1.9					53.5	50.8	48.1			71.46		
Rabama	1-QAQC	alkcol		52	983	29.8	1.2	215	26	7.80	56.5	63.9	57.4	61.1			57.57		
Red Bug	LW(6/96)			25	664	6.8	1.8					49.4	51.5	50.6			74.17		
Richmond	LW(6/96)			53	1408	50.0	0.6					69.0	67.4	61.4			45.34		
Rock	1-QAQC	alkclr		22	735	21.8	2.4	148	10	9.30	45.3	60.8	47.4	48.7	1.03	3.36	68.15		
Rowena	1-QAQC	alkclr		40	822	30.5	1.2	173	15	8.20	48.8	64.1	57.4	57.3	0.86	3.04	57.33		
Santiago	LW(6/96)			42	809	42.0	0.9					67.3	61.5	58.0			51.46		
Sarah	LW(6/96)			24	721	17.2	1.3					58.5	56.2	50.0			62.92		
Shannon	1-QAQC	alkclr		17	710	4.7	2.4	170	10	7.20	28.7	45.8	47.4	45.0	2.39	14.17	80.49		
Silver	1-QAQC	alkclr		15	537	20.3	2.4	187	11	8.60	48.2	60.1	47.4	43.2	0.69	2.67	68.73		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Spring	LW(6/96)			68	1126	53.1	0.9					69.6	61.5	65.0			49.53		
Spring	LW(6/96)			43	1666	66.2	0.6					71.7	67.4	58.4			43.03		
Susannah	1-QAQC	alkclr		20	748	13.7	2.2	133	13	7.80	30.5	56.3	48.6	47.3	0.40	1.75	70.83		
Sybelia	LW(6/96)			30	897	21.8	1.4					60.8	55.2	53.2			61.83		
Tennessee	LW(6/96)			67	836	17.9	1.2					58.9	57.4	64.8			61.67		
Underhil	Canfield	alkclr		51	777	38.2	0.8	183	10	7.80	58.4	66.3	63.2	60.8	0.40	1.24	50.85		
Virginia	Canfield	alkclr		30	519	17.3	1.6	177	3	8.10	56.8	58.6	53.2	53.2	0.25	0.79	65.29		
Wade	LW(6/96)			108	1228	57.0	1.1					70.3	58.6	71.7			51.34		
Waunatta	LW(6/96)			20	434	3.0	2.8					41.4	45.2	47.3			85.90		
Weldona	LW(6/96)			70	947	31.3	1.0					64.4	60.0	65.4			55.05		
Willisar	LW(6/96)			45	820	33.2	1.1					65.0	58.6	59.0			55.69		
Winyah	1-QAQC	alkcol		70	908	68.5	1.3	163	26	8.50	48.0	72.1	56.2	65.4	2.82	9.59	51.81		
Woods	LW(6/96)			42	852	42.0	1.1					67.3	58.6	58.0			53.80		
(NO NAME)	EPA-ELS	alkcol		136			0.4	39	80	6.60	3.5		73.2	75.0					
Armistea	1-QAQC	alkcol		25	812	16.3	1.3	120	87	6.70	6.4	58.0	56.2	50.6	0.18	3.43	63.36		
CLEAR	EPA-ELS	alkcol		14			1.9	92	60	7.80	28.0		50.8	42.2	1.40	4.60			
Dosson	LW(6/96)			38	1319	43.5	0.8					67.6	63.2	56.6			49.81	14	21
GOOSE	EPA-ELS	alkcol		11			2.0	39	45	6.80	3.5		50.0	38.7	0.09	1.03			
Pretty	LW(6/96)			29	807	8.7	1.3					51.8	56.2	52.7			68.41		
Tarpon	Canfield	alkcol		39	635	3.8	1.5	596	50	6.90	15.8	43.7	54.2	57.0	0.01	0.24	76.73		
Worrell	Regions	alkcol		24	1450	9.0	0.9	231	174	7.60	69.3	52.2	61.5	50.0	3.15	10.50	63.85		
Alice	1-QAQC	acidcl75		3	135	1.0		137	2	4.60	0.0	30.6		20.0		1.47			
Bass	1-QAQC	acidcol		22	817	10.8	1.6	115	27	6.40	7.3	53.9	53.2	48.7			69.03		
Calm	LW(6/96)			6	221	1.5	3.2					34.6	43.2	30.0			93.03		
Church	1-QAQC	alkclr		13	627	3.2	0.7	182	13	6.80	6.7	42.0	65.1	41.1	0.10	2.68	69.24		
Crescent	Regions	acidcol		10	500	1.6	2.5	174	39	5.10	0.0	35.2	46.8	37.4		3.78	89.64		
Dead Lad	LW 93	alkcol		27	937	20.7		133	75	6.90	10.0	60.3		51.7					
Echo	LW(6/96)			18	1078	5.7						47.7		45.8					
Elizabet	LW(6/96)			19	793	9.7	1.4					52.9	55.2	46.6			68.39		
Garden	LW(6/96)			14	494	4.7	2.0					45.8	50.0	42.2			78.37		
Geneva	1-QAQC	alkcol		20	833	11.5	1.9	162	38	6.70	16.0	54.6	50.8	47.3			70.53		
Grace	1-QAQC	acidcl75		10	483	6.3	0.8	165	9	6.20	2.3	48.7	63.2	37.4			65.35		
Halfmoon	LW 93	alkclr		13	540	8.4		169	9	6.70	2.4	51.5		41.1	0.08	5.28		11	16
Hiawatha	1-QAQC	acidcol		20	598	14.7	2.3	100	26	6.40	2.5	57.0	48.0	47.3	0.02	0.74	70.83		
Holiday	1-QAQC	alkcol		15	1010	19.7	1.3	136	24	6.70	10.2	59.8	56.2	43.2			61.83		
Island F	Regions	acidcl75		7	403	3.2	2.3	122	12	6.30	0.9	42.0	48.0	32.2	0.01	1.27	83.09		
Jackson	LW(6/96)			11	568	4.1	3.0					44.4	44.2	38.7			84.19		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
James	LW(6/96)			18	754	12.8	2.5					55.6	46.8	45.8			72.91		
Jewel	LW(6/96)			5	103	1.0						30.6		27.4					
Juanita	LW(6/96)			11	500	2.3	2.9					38.8	44.7	38.7			88.44		
Keystone	1-QAQC	acidcol		12	488	6.7	2.4	100	30	6.30	2.3	49.3	47.4	40.0	0.01	0.24	77.64		
Little H	Summer	alkcol		16	693	4.6		248	44	6.80	8.1	45.6		44.1	0.90	27.56			
Little17	LW(6/96)			9	388	1.2	3.6					32.4	41.5	35.8			96.19		
Maurine	1-QAQC	alkcol		20	648	4.5		175	30	7.60	11.8	45.4		47.3					
Minneola	1-QAQC	alkcol		20	692	6.0	1.7	162	26	6.70	16.0	48.2	52.4	47.3			74.52		
Mound	LW(6/96)			7	345	1.9	4.5					36.9	38.3	32.2			94.84		
Osceola	Regions	acidcl75		5	413	0.6		224	7	5.90	0.7	25.6		27.4	0.01	3.50			
Parker	1-QAQC	alkclr		15	680	9.7	1.7	139	15	6.70	9.0	52.9	52.4	43.2	0.10	1.49	70.65		
Rainbow	LW(6/96)			7	312	1.9	2.6					36.9	46.2	32.2			88.71		
Seminole	Summer	alkcol			633		1.8	139	35	7.10	7.6		51.5						
Sunset	Regions	alkcol		13	660	9.2	1.5	203	33	7.40	34.0	52.4	54.2	41.1	0.92	5.49	69.62		
Taylor	LW(6/96)			14	656	9.9	1.7					53.1	52.4	42.2			70.49		
Wastena	LW(6/96)			12	500	2.7	3.7					40.3	41.1	40.0			89.99		
Wood	LW(6/96)			8	305	1.6	4.2					35.2	39.3	34.1			95.67		
Bell(Pas	Canfield	alkcol		17	641	20.0	1.5	116	21	7.60	13.3	60.0	54.2	45.0	0.17	1.45	63.38		
Brant	1-QAQC	alkcol		25	917	15.3	1.5	168	24	7.00	23.0	57.4	54.2	50.6	0.38	2.80	65.53		
Carroll	LW(6/96)			10	427	3.0	3.7					41.4	41.1	37.4			89.14		
Carroll1	LW(6/96)			13	487	3.0	3.5					41.4	41.9	41.1			88.50		
Catfish	Regions	alkcol		25	930	7.6	1.9	197	35	7.00	16.7	50.5	50.8	50.6	0.73	8.57	73.91		
Chapman	LW(6/96)			26	1103	10.3	1.5					53.5	54.2	51.1			68.71		
Crenshaw	1-QAQC	alkcol		23	885	26.2	1.1	56	58	6.60	6.5	62.6	58.6	49.4			57.59		
Deer	LW(6/96)			11	613	6.4	2.1					48.8	49.3	38.7			76.46		
Dog Leg	Regions	acidcol		9	737	4.2	1.3	104	93	6.10	2.1	44.7	56.2	35.8			74.26		
East	LW(6/96)			21	739	10.3	1.9					53.5	50.8	48.1			71.46		
Egypt	LW 93	alkclr		21	780	18.1		257	12	7.60	62.7	59.0		48.1	0.94	3.84			
Floyd	1-QAQC	alkcol		12	922	2.2	0.9	158	26	6.90	29.5	38.3	61.5	40.0			75.18		
Gass	Regions	alkclr		6	557	2.6	3.4	126	19	7.30	30.0	40.0	42.4	30.0	0.91	3.82	89.31		
Hobbs	LW(6/96)			6	260	1.3	4.0					33.2	40.0	30.0			96.78		
Joyce	LW(6/96)			19	746	6.1	2.3					48.3	48.0	46.6			77.90		
Keene	LW(6/96)			40	1355	26.6	1.1					62.8	58.6	57.3			57.47		
King	LW(6/96)			12	948	6.0						48.2		40.0					
Linda	Regions	alkclr		11	973	4.8	3.9	209	19	7.60	34.7	46.0	40.4	38.7	8.68	52.25	85.93		
Little E	LW(6/96)			21	773	12.5	1.8					55.4	51.5	48.1			69.28		
Little89	1-QAQC	acidcol		35	1177	13.2	1.3	150	77	6.30	4.2	55.9	56.2	55.4	0.18	6.25	65.05		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Little V	LW(6/96)			13	725	5.3	2.3					47.0	48.0	41.1			79.03		
Magdalen	LW(6/96)			11	643	3.7	3.3					43.4	42.8	38.7			86.13		
Margarin	Regions	alkcol		19	763	12.0	1.5	187	21	7.30	22.7	55.0	54.2	46.6			67.48		
North Cr	Regions	alkclr		6	470	1.3		234	12	7.90	60.7	33.2		30.0					
Padgett	Canfield	alkclr		14	531	2.4	3.6	134	15	7.40	23.0	39.2	41.5	42.2	0.12	0.67	90.62		
Padgett1	LW(6/96)			18	731	5.3	2.6					47.0	46.2	45.8			80.46		
Platt	Regions	alkcol		9	497	2.0	3.5	112	32	7.40	20.0	37.4	41.9	35.8	0.32	1.78	91.76		
Saddleba	LW 93	alkclr		14	483	6.3		218	14	8.10	93.7	48.7		42.2	2.84	6.61			
Saddleb1	LW 93	alkclr		12	477	6.0		201	12	8.40	84.7	48.2		40.0	2.57	6.09			
Saddleb1	LW(6/96)			12	483	6.0						48.2		40.0					
Saxon No	LW(6/96)			14	617	3.0	4.0					41.4	40.0	42.2			90.05		
Saxon So	LW(6/96)			15	635	4.3	3.4					44.9	42.4	43.2			85.26		
Snake	LW(6/96)			10	714	1.9						36.9		37.4					
Stemper	Regions	alkclr		42	1960	35.0	0.5	194	18	7.50	29.0	65.5	70.0	58.0	0.23	1.54	46.09		
THOMAS	EPA-ELS	alkclr		15			2.9	126	20	6.80	3.5		44.7	43.2	0.06	2.07			
Treasure	LW(6/96)			7	497	2.3	3.9					38.8	40.4	32.2			91.89		
Twin	Regions	alkcol		28	1123	19.5		248	46	7.20	56.3	59.7		52.2	2.01	8.86			
Virginia	Regions	alkcol		33	1533	26.0	0.8	231	28	7.00	9.2	62.6	63.2	54.6	0.44	11.00	53.95		
Wilson	LW(6/96)			13	764	9.1	2.6					52.3	46.2	41.1			76.11		
(NO NAME	EPA-ELS	alkcol		29			1.3	91	105	7.10	7.1		56.2	52.7					
Ten Mile	LW(6/96)			40	1094	42.6	0.9					67.4	61.5	57.3			51.35		
Thonotos	Canfield	alkcol		834	1452	66.8	0.7	214	82	8.30	47.9	71.8	65.1	101.1	0.06	0.26	44.81		
Mill Str	LW(6/96)			46	1346	33.2						65.0		59.4					
Alligato	Canfield	acidcol		15	570	4.0	1.6	105	47	5.80	2.2	44.2	53.2	43.2	0.00	0.03	77.07		
Brick	LW(6/96)			16	933	5.6	0.6					47.5	67.4	44.1			62.95		
BULLOCK	EPA-ELS	acidcol		14			0.4	81	300	4.50	0.0		73.2	42.2		1.11			
Cecile	LW(6/96)			15	513	8.6	2.0					51.7	50.0	43.2			73.51		
Center	LW 93	acidcol		84	1280	11.4		116	289	5.60	1.2	54.5		68.0	0.00	0.28			
Coon	LW 93	acidcol		63	1110	11.3		101	217	5.80	1.6	54.4		63.9	0.01	0.68			
Davenpo1	Summer '				930	8.2		90		6.80	7.4	51.2			0.04	0.51			
East Toh	Canfield	acidcol		24	643	8.6	1.5	96	32	6.10	3.1	51.7	54.2	50.0	0.00	0.01	70.16		
Gentry	Regions	acidcol		18	620	4.5	1.1	146	65	6.50	2.7	45.4	58.6	45.8	0.00	0.08	71.76		
Hancock	Regions	acidcol		14	833	6.4	1.1	60	120	5.00	0.0	48.8	58.6	42.2		0.16	68.93		
Hart	Canfield	acidcol		19	1112	4.2	0.6	90	183	5.90	4.1	44.7	67.4	46.6	0.00	0.05	65.26		
Hucklebe	Regions	acidcol		11	860	1.6	2.0	152	61	6.30	2.5	35.2	50.0	38.7	0.02	1.35	87.04		
LITTLE F	EPA-ELS	acidcol		17			0.7	139	150	5.10	0.0		65.1	45.0					
Live oak	Canfield1	alkcol		13	389	9.0	2.6	132	22	7.10	11.5	52.2	46.2	41.1	0.03	0.35	76.20		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Lizzie	1-QAQC	acidcol		17	827	4.2	1.4	106	106	6.10	2.0	44.7	55.2	45.0	0.00	0.13	75.12		
Mary Jan	Canfield	acidcol		18	1250	9.2	0.5	84	225	5.60	3.2	52.4	70.0	45.8	0.00	0.07	56.83		
Oliver	Regions	acidcol		10	647	4.9	1.0	56	139	4.70	0.0	46.2	60.0	37.4		1.08	69.97		
REEDY	EPA-ELS	acidcol		57			0.3	110	225	5.60	0.5		77.3	62.5					
Trout	LW 93	acidcol		26	943	10.8		88	132	6.10	2.3	53.9		51.1	0.01	0.32			
Cliff St	LW(6/96)			101	896	44.4	1.3					67.8	56.2	70.7			55.30		
Harbor	LW(6/96)			14	545	4.3	3.2					44.9	43.2	42.2			84.56		
Loch Hav	LW(6/96)			89	1709	50.0	1.0					69.0	60.0	68.9			51.29		
Maggiore	Canfield	alkcol		76	2330	66.7	0.3	1008	32	8.60	109.9	71.8	77.3	66.6	0.29	2.65	34.95		
Mocassin	LW(6/96)			85	1032	48.2	0.8					68.6	63.2	68.2			48.98		
Seminol1	Canfield	alkcol		122	1880	64.9	0.3	404	27	8.80	90.4	71.5	77.3	73.4			35.17	82	62
Banana	Regions	alkcol		639	1593	89.4	0.6	178	34	8.50	62.0	74.7	67.4	97.3	0.18	0.52	40.67		
Banana P	Regions	alkcol		674	1783	76.7	1.0	197	37	7.30	66.0	73.2	60.0	98.1	0.19	0.58	47.85		
Big Bass	LW 93	alkcol		442	2465	136.0		160	35	9.70	23.0	78.8		92.0					
Boca Cov	LW 93	alkcol		449	2807	252.0		152	24	9.30	23.0	84.8		92.2					
Bonny	Canfield1	alkcol		59	1858	40.0	0.6	255	33	7.80	53.2	66.8	67.4	62.9	0.15	0.72	47.14	32	43
Bonny	Regions	alkcol		99	1783	90.7	0.6	121	32	7.40	36.0	74.8	67.4	70.4	0.10	0.34	40.55	32	43
Christi1	Regions	alkclr		130	1537	80.4	0.8	250	15	8.00	68.3	73.6	63.2	74.3			44.87		
Fauna	LW(6/96)			94	1277	54.9	1.0					69.9	60.0	69.7			50.54		
Flora	LW 93	alkcol		331	2117	102.8		151	23	9.10	24.0	76.0		87.8	0.92	5.81			
Ft. Mead	Regions	alkclr		357	1847	78.9	1.0	170	18	7.80	92.0	73.5	60.0	88.9			47.62		
Gaskin's	LW 93	alkcol		379	2233	110.4		162	29	9.80	22.7	76.7		89.8					
Hollings	Canfield1	alkclr		113	2517	135.0	0.3	163	16	8.80	50.8	78.7	77.3	72.3	0.14	0.46	29.28	29	72
Homeland	Regions	alkclr		965	4493	149.5	0.5	408	16	8.00	143.7	79.7	70.0	103.2			34.41		
Hunter	Regions	alkclr		117	1843	86.5	0.7	101	17	7.50	33.0	74.4	65.1	72.8	0.33	1.01	42.73		
Little B	LW 93	alkcol		552	3260	242.0		160	40	9.70	23.0	84.4		95.2					
Mulberry	Regions	alkcol		954	1540	41.5	1.0	263	30	7.40	67.3	67.1	60.0	103.1			52.79		
Parker	Regions	alkcol		170	2283	137.9	0.5	142	27	7.70	38.0	78.9	70.0	78.2	0.02	0.06	35.06	32	48
Saddle C	Regions	alkcol		143	1677	91.5	0.8	175	28	7.50	53.3	74.9	63.2	75.7			43.83		
Agnes	Regions	alkcol		38	703	22.9	0.9	178	24	6.60	3.2	61.3	61.5	56.6	0.01	0.46	56.34		
Alfred	Regions	alkcol		28	1923	40.2	0.7	356	27	7.40	63.0	66.8	65.1	52.2	0.09	0.48	48.89		
Ariana	Regions	alkclr		22	860	31.1	1.0	260	10	7.80	34.0	64.3	60.0	48.7	0.03	0.25	55.11		
Arietta	Canfield	alkclr		16	358	7.6	2.9	199	8	7.00	6.3	50.5	44.7	44.1	0.01	0.26	78.83		
Bess	Regions	alkclr		15	597	7.1	1.8	368	16	7.70	33.0	49.8	51.5	43.2	0.22	2.49	73.83		
Blue 2	LW(6/96)			84	1728	55.5	0.6					70.0	67.4	68.0			44.50		
Buckeye	Regions	alkclr		30	727	23.9	0.9	331	11	8.70	73.3	61.7	61.5	53.2	1.03	4.66	56.00		
Cannon	LW(6/96)			51	1148	41.7	0.8					67.2	63.2	60.8			50.15		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Conine	1-QAQC	alkcol		470	1900	85.8	0.5	331	47	8.60	65.8	74.3	70.0	92.9	0.28	1.40	38.88	26	42
Deer	Regions	alkclr		40	1857	63.1	0.6	191	19	8.00	40.3	71.3	67.4	57.3	0.32	1.53	43.47		
Dexter	LW(6/96)			8	458	2.7	3.7					40.3	41.1	34.1			89.99		
Eagle	Regions	alkclr		11	640	7.2	2.0	296	10	7.50	28.0	50.0	50.0	38.7	0.04	0.45	74.94		
Elbert	LW 93	alkclr		12	553	3.0		182	9	7.90	33.0	41.4		40.0	0.19	1.05			
Eloise	LW(6/96)			36	1283	42.9	0.9					67.5	61.5	55.8			51.29		
Fannie	1-QAQC	alkcol		67	1327	25.8	0.4	383	57	7.80	34.2	62.5	73.2	64.8	0.04	0.46	45.94		
Hartridg	Canfield1	alkclr		11	485	4.0	2.3	217	12	7.80	37.6	44.2	48.0	38.7	0.09	0.50	81.30	29	45
HELENE	EPA-ELS	alkclr		13			2.5	174	20	7.50	13.1		46.8	41.1	0.21	2.81			
Henry	Regions	alkcol		22	927	9.0	1.8	346	23	7.80	87.0	52.2	51.5	48.7	0.82	3.26	71.92		
Howard	Canfield	alkcol		52	1997	104.6	0.3	164	27	9.00	41.2	76.2	77.3	61.1	0.07	0.26	31.34	30	47
Idylwild	LW(6/96)			30	961	33.3	1.1					65.0	58.6	53.2			55.67		
Jessie	LW(6/96)			79	1182	36.4	0.8					65.9	63.2	67.2			51.24		
Link	LW(6/96)			26	688	21.8	1.4					60.8	55.2	51.1			61.88		
Little13	LW(6/96)			25	978	32.4	1.1					64.7	58.6	50.6			55.89		
Little18	LW(6/96)			19	710	15.1	1.7					57.2	52.4	46.6			67.09		
Little19	LW 93	alkcol		23	703	4.6		297	27	7.30	31.0	45.6		49.4					
Little20	LW(6/96)			20	867	18.7	1.2					59.3	57.4	47.3			61.32		
Lucerne	1-QAQC	alkclr		10	437	1.5	1.6	192	12	6.90	9.6	34.6	53.2	37.4	0.23	4.57	84.96	5	4
Lulu	LW 93	alkcol		54	1260	32.0		260	22	8.80	61.0	64.6		61.7	0.20	0.86		30	57
Marianna	Canfield1	alkclr		26	1054	21.0	1.3	299	16	7.90	59.4	60.5	56.2	51.1			61.32	25	38
Maude	LW(6/96)			39	658	12.8	2.0					55.6	50.0	57.0			70.31		
May	LW(6/96)			70	1602	54.1	0.8					69.8	63.2	65.4			48.06	35	48
Mirror	LW(6/96)			34	1297	39.4	0.8					66.6	63.2	55.0			50.61		
Otis	LW(6/96)			26	593	16.6	2.8					58.2	45.2	51.1			72.14		
Pansy	LW 93	alkcol		27	870	23.2		147	49	7.90	22.0	61.4		51.7	0.44	2.94			
Roy	LW(6/96)			22	787	14.7	1.6					57.0	53.2	48.7			66.60		
Ruby	Regions	alkclr		23	1907	60.3	0.4	417	12	8.10	49.7	70.8	73.2	49.4	0.19	1.64	39.11		
Shipp	LW(6/96)			61	1713	68.2	0.6					72.0	67.4	63.4			42.84	57	74
Silver	LW(6/96)			19	740	21.8	1.6					60.8	53.2	46.6			63.43		
Smart	1-QAQC	alkcol		173	1950	63.5	0.4	369	37	8.70	77.7	71.3	73.2	78.5	0.28	1.34	38.70		
Spirit	LW 93	alkclr		22	620	12.6		307	8	7.80	32.0	55.5		48.7	0.14	1.37			
Spring	LW(6/96)			29	716	15.2	1.8					57.3	51.5	52.7			67.71		
Star	Regions					26.2	1.1		22			62.6	58.6				57.59		
Summit	LW(6/96)			36	947	26.5	1.1					62.7	58.6	55.8			57.50		
Tennessee	Regions	alkclr		32	1593	55.4	0.6	275	18	7.70	41.0	70.0	67.4	54.1	0.37	2.46	44.52		
Thomas	Canfield1	alkcol		22	759	10.0	1.8	169	23	7.60	46.6	53.2	51.5	48.7	0.64	2.32	71.07		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
(NO NAME	EPA-ELS	acidcol		13			1.8	79	40	6.00	0.2		51.5	41.1	0.00	0.29			
Annie	LW(6/96)			22	1258	17.0	1.4					58.4	55.2	48.7			63.88		
Clinch	Summer '1	alkcol		19	517	7.4	2.4	139	24	6.90	3.9	50.2	47.4	46.6	0.00	0.12	76.84		
Crooked	Regions	acidcl75		7	367	6.0	2.1	94	11	6.50	1.3	48.2	49.3	32.2	0.00	0.02	76.98		
Davenport	Summer '1	acidcol		39	1085	4.4		111	97	6.30	13.7	45.1		57.0	0.21	1.71			
Gate Lak	Canfield1	alkclr		28	407	20.0	1.1	282	6	8.20	130.6	60.0	58.6	52.2			59.77		
Ida	Regions	alkclr		10	5503	14.8		301	7	8.90	35.0	57.0		37.4	0.42	3.63			
Little G	Regions	alkclr		5	5970	2.8	3.1	356	6	7.90	46.0	40.7	43.7	27.4			87.64		
Little15	LW(6/96)			32	660	19.2	1.0					59.6	60.0	54.1			58.98		
Mabel	LW(6/96)			17	983	26.0	0.9					62.6	61.5	45.0			55.32		
Moody	Regions	alkclr		16	2140	52.3	0.5	425	9	8.50	70.0	69.4	70.0	44.1	0.18	1.09	42.86		
Mountai1	Canfield1	alkclr		17	331	2.0	2.4	201	7	7.90	82.3	37.4	47.4	45.0	0.60	1.47	87.37		
North Bl	LW(6/96)			3	4301	1.5	7.5					34.6	31.0	20.0			96.74		
Parks	Regions	alkclr		5	623	3.7		192	16	7.60	25.0	43.4		27.4	0.25	1.92			
Reedy	Regions	alkclr		15	1047	29.7	0.9	237	8	7.90	46.0	63.9	61.5	43.2	0.01	0.07	54.25		
SADDLEBA	EPA-ELS	alkclr		8			3.4	132	15	7.70	16.8		42.4	34.1	0.06	0.46			
Silver	Regions	alkclr		21	1830	13.0		380	7	8.70	50.0	55.8		48.1	0.38	2.92			
South Bl	LW(6/96)			5	1552	2.7	5.2					40.3	36.2	27.4			92.01		
Tracy	Regions	alkclr		23	740	8.9	2.1	190	18	7.50	63.0	52.0	49.3	49.4	0.46	1.40	73.80		
Wales	Canfield1	alkclr		27	899	42.0	0.8	118	10	8.70	25.6	67.3	63.2	51.7	0.08	0.36	50.09		
ANGELO	EPA-ELS	acidcl75		7			3.4	197	5	5.80	0.0		42.4	32.2					
Annie	Summer '1	acidcl75		4	315			42	9	6.30	0.0			24.1		0.49			
ANOKA	EPA-ELS	alkclr		6			5.0	138	10	8.20	26.2		36.8	30.0					
August	LW(6/96)			126	961	2.8	0.8					40.7	63.2	73.9			71.87		
BASKET	EPA-ELS	alkclr		3			5.8	333	5	7.70	22.8		34.7	20.0					
Blue	LW(6/96)			11	596	4.8	3.1					46.0	43.7	38.7			83.30		
BRENTWOO	EPA-ELS	alkclr		6			5.6	260	10	7.70	18.2		35.2	30.0					
Byrd	Summer '1	alkclr		3	4803	1.1	5.6	276	6	7.20	9.2	31.5	35.2	20.0	0.19	5.63	99.23		
CENTER	EPA-ELS	alkclr		8			1.6	318	15	8.10	26.1		53.2	34.1					
Chilton	LW(6/96)			21	580	7.6	2.0					50.5	50.0	48.1			74.51		
Clay	Regions	alkclr		9	377	3.9	3.0	164	8	7.00	4.7	44.0	44.2	35.8	0.01	0.45	84.59		
DAMON	EPA-ELS	acidcl75		9			2.9	223	10	5.70	0.0		44.7	35.8					
DEER	EPA-ELS	alkclr		12			3.4	158	20	7.80	23.6		42.4	40.0					
Denton	LW(6/96)			4	3502	1.8	7.2					36.4	31.6	24.1			95.27		
Dinner	Canfield	alkclr		9	456	4.1	2.9	175	3	8.20	37.1	44.4	44.7	35.8	0.10	0.46	83.80		
Eagle Po	LW(6/96)			7	943	4.8	2.0					46.0	50.0	32.2			78.20		
Francis	Summer '1	acidcl75			477	6.9	1.8	151	5	6.30	1.9	49.5	51.5		0.00	0.28	74.06	67	45

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Grassy	Regions	alkclr		6	550	2.5	2.7	152	9	7.30	15.0	39.6	45.7	30.0	0.03	0.29	86.94		
Henry	Summer'	alkclr			437	4.7		148	13	6.90	4.6	45.8			0.07	2.31			
Hill	Summer'	acidcl75			383	5.5	1.6	50	13	5.60	0.3	47.3	53.2		0.00	0.71	74.51		
Huntley	Regions	acidcl75		19	427	6.9	1.7	154	16	6.20	1.3	49.5	52.4	46.6	0.00	0.23	73.39		
Isis	LW(6/96)			8	3583	2.0	6.9					37.4	32.2	34.1			94.43		
Jackson	Canfield	acidcl75		14	271	2.6	2.8	87	6	6.00	3.4	40.0	45.2	42.2	0.00	0.03	87.05		
June	Summer'	alkclr		17	567	10.7		161	9	7.00	5.6	53.9		45.0	0.00	0.05			
Lillian	LW(6/96)			9	512	5.7	3.1					47.7	43.7	35.8			81.92		
Little J	Summer'	alkcol		38	1120	34.8	0.9	148	28	7.20	14.3	65.4	61.5	56.6			52.98	28	54
Lotela	Canfield	alkclr		17	334	2.5	2.6	97	6	7.30	14.3	39.6	46.2	45.0	0.02	0.12	86.50		
McCoy	Summer'	alkclr		6	1023	1.6	5.3	193	2	7.80	22.0	35.2	36.0	30.0	0.39	3.45	96.22		
Mirror	Summer'	acidcl75		7	387		5.7	100	6	5.90	0.5		34.9	32.2	0.01	1.03			
NORTHWES	EPA-ELS	alkclr		8			2.0	309	10	7.60	22.4		50.0	34.1					
Olivia	LW(6/96)			11	481	3.6	3.1					43.2	43.7	38.7			85.62		
Pearl	LW(6/96)			4	746	1.6	6.2					35.2	33.7	24.1			96.22		
PIONEER	EPA-ELS	alkclr		5			3.7	244	10	7.40	11.2		41.1	27.4					
Placid	Canfield	alkclr		13	544	6.2	2.2	58	7	6.60	4.0	48.5	48.6	41.1	0.00	0.02	77.25		
PYTHIAS	EPA-ELS	acidcl75		14			1.7	168	15	5.70	0.0		52.4	42.2					
Rachard	Summer'	alkclr		25	820	23.0	1.2	211	7	9.40	36.8	61.4	57.4	50.6			59.65		
Saddleb2	Regions	alkclr		6	1133	2.8		351	5	7.40	22.0	40.7		30.0	0.96	15.26			
SILVER	EPA-ELS	acidcl75		4			4.9	36	5	5.00	0.0		37.1	24.1					
SIMMONS	EPA-ELS	alkclr		2			5.8	367	5	8.20	27.6		34.7	14.1					
Sirena	LW(6/96)			5	500	3.6	4.0					43.2	40.0	27.4			88.58		
SOUTHEAS	EPA-ELS	alkclr		5			1.8	367	15	8.30	27.8		51.5	27.4					
Trout	Summer'	acidcl75		12	517	3.3	3.1	128	14	6.30	1.9	42.3	43.7	40.0			86.32		
Tulane	Regions	alkclr		5	410	2.6	4.1	135	4	7.40	21.7	40.0	39.7	27.4	0.24	1.52	91.49		
Verona	Regions	alkclr		8	233	2.0	4.0	109	9	7.70	27.0	37.4	40.0	34.1			93.31		
VIOLA	EPA-ELS	alkclr		5			3.7	217	10	8.10	22.5		41.1	27.4					
(NO NAME	EPA-ELS	acidcl75		0			3.4	56	5	4.40	0.0		42.4						
Adelaide	LW(6/96)			11	517	5.3	1.9					47.0	50.8	38.7			76.81		
Apthorpe	LW(6/96)			10	1662	10.2	2.0					53.4	50.0	37.4			72.14		
BLUE	EPA-ELS	acidcol		8			1.4	82	30	5.70	0.0		55.2	34.1		2.34			
BONNET	EPA-ELS	alkcol		40			0.8	245	40	7.80	22.5		63.2	57.3					
Buffum	Regions	acidcol		26	413	10.9	1.0	174	21	5.70	0.4	54.0	60.0	51.1	0.00	0.11	63.54		
Carrie	Summer'	alkcol			703	15.1	0.9	79	112	6.90	10.7	57.2	61.5		0.16	1.22	59.69		
Charlott	Summer'	acidcol			377	5.7	1.3	73	43	5.20	0.0	47.7	56.2			0.36	71.81		
Crews	LW(6/96)			15	423	4.6	1.6					45.6	53.2	43.2			75.95		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Diane	Summer '96	acidcol						65	188	6.40	7.5								
Glenada	Regions	alkcol		100	1067	45.2	0.9	206	51	8.20	34.0	68.0	61.5	70.6	0.19	1.16	50.87		
Hill	LW(6/96)			8	280	4.4	2.2					45.1	48.6	34.1			80.01		
HOG	EPA-ELS	alkcol		14			1.1	215	45	8.60	96.0		58.6	42.2	3.10	6.94			
Hucklebe	Summer '96	alkcol						88	115	6.60	4.1				0.03	0.74			
Josephin	Canfield	acidcol		24	518	10.8	0.8	83	52	5.60	2.6	53.9	63.2	50.0	0.00	0.07	61.01		
Josephi1	Regions	alkcol		43	890	29.6	0.8	98	58	6.60	3.1	63.8	63.2	58.4	0.00	0.08	52.91		
Josephi2	Regions	alkcol		46	857	22.7	0.9	82	75	6.60	5.1	61.2	61.5	59.4	0.00	0.07	56.41		
Josephi3	Regions	acidcol		66	893	22.8	0.9	83	108	6.40	4.7	61.3	61.5	64.6	0.00	0.07	56.38		
Lelia	Regions	alkclr		16	810	20.1	1.0	184	17	7.90	26.0	60.0	60.0	44.1	0.16	1.12	58.62		
LETTA	EPA-ELS	alkclr		19			1.1	166	15	6.80	2.8		58.6	46.6					
Little2	Regions	alkcol		17	1770	34.5	0.6	245	23	7.60	26.0	65.3	67.4	45.0			48.33		
Little J	LW(6/96)			52	1029	40.3	1.1					66.9	58.6	61.1			54.13	28	54
Little R	Canfield	acidcol		34	474	16.3	0.7	50	28	5.80	2.0	58.0	65.1	55.0			56.15		
Lizzie	Regions	alkcol		16	723	7.2	1.7	120	25	6.60	5.8	50.0	52.4	44.1	0.06	1.26	73.05		
Marion	Regions	alkcol		14	803	6.1		160	57	7.80	34.7	48.3		42.2	0.01	0.05			
Patrick	Regions	alkclr		7	2893	4.4	2.4	325	11	7.80	38.7	45.1	47.4	32.2			81.02		
Persimmo	Summer '96	alkcol			2940	75.3	0.2	346	21	8.90	36.3	73.0	83.2		1.21	11.53	29.26		
Pierce	Regions	alkcol		31	960	18.2	1.3	152	38	7.60	32.0	59.1	56.2	53.7	0.01	0.04	62.47		
Red Beac	Canfield	alkcol		16	448	9.9	1.1	59	31	6.70	4.6	53.1	58.6	44.1	0.01	0.18	65.42		
Redwater	Summer '96	alkclr			910	28.0	0.5	261	13	8.70	28.3	63.3	70.0		0.43	3.95	47.88		
RUTH	EPA-ELS	acidcol		35			1.6	50	65	5.00	0.0		53.2	55.4					
Sebring	Canfield	acidcol		112	690	5.9	0.4	54	133	5.80	2.4	48.0	73.2	72.2	0.01	0.12	57.81		
Wolf	Regions	acidcol		148	977	11.3	0.6	77	250	5.20	0.3	54.4	67.4	76.2	0.00	0.63	57.30		
Arbuckle	Canfield	alkcol		49	847	19.0	0.8	108	112	7.00	10.2	59.5	63.2	60.3	0.00	0.03	56.47		
Cypress	Regions	alkcol		48	1230	11.8	0.6	120	191	7.20	17.7	54.8	67.4	60.0	0.00	0.03	56.95		
Fish	Canfield	alkcol		25	935	18.0	1.0	187	43	7.60	25.9	59.0	60.0	50.6	0.12	0.85	59.50		
Hatchine	Regions	alkcol		17	1087	1.6	0.7	126	216	7.80	31.0	35.2	65.1	45.0	0.00	0.02	74.82		
Istokpog	Regions	alkcol		57	1063	5.7	0.6	118	193	6.90	9.9	47.7	67.4	62.5	0.00	0.00	62.81		
Jackson	Regions	alkcol		120	1063	10.3	1.0	101	91	7.00	21.7	53.5	60.0	73.2	0.02	0.10	63.99		
Kissimme	Canfield	alkcol		42	1276	29.2	0.7	118	53	8.50	22.4	63.7	65.1	58.0	0.00	0.00	51.46		
Marian	Regions	alkcol		146	1263	43.9	0.6	102	93	7.30	21.0	67.7	67.4	76.0	0.00	0.02	46.39		
Okeechob	Canfield	alkcol		105	1111	14.8	0.5	443	47	8.50	100.3	57.0	70.0	71.3	0.00	0.00	53.01		
Rosalie	Regions	alkcol		38	783	13.6	1.2	111	78	7.20	14.7	56.2	57.4	56.6	0.00	0.02	63.88		
Tiger	Canfield	alkcol		43	796	16.1	0.6	84	67	8.40	32.6	57.9	67.4	58.4	0.01	0.04	54.45		
Toho	Regions	alkcol		34	983	17.1	0.8	127	116	7.40	24.7	58.5	63.2	55.0	0.00	0.01	57.32		
Weohyaka	Canfield	alkcol		28	455	5.1	1.0	76	42	7.00	8.4	46.6	60.0	52.2	0.00	0.01	69.65		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
Crystal	Summer '96	alkcol		37	1090	6.2		257	23	7.10	13.0	48.5		56.2	0.20	3.95			
Dunes	LW(6/96)			564	3686	41.5	1.2					67.1	57.4	95.5			54.91		
East Roc	LW(6/96)			50	2501	47.9	0.6					68.6	67.4	60.6			45.69		
East Ro1	LW(6/96)			53	1898	24.4	1.6					61.9	53.2	61.4			62.53		
Garfield	Regions	alkcol		81	1240	42.7	0.4	126	120	6.60	4.8	67.4	73.2	67.5	0.01	0.19	41.89		
Gibson	Canfield	alkcol		269	691	5.9	0.8	105	69	6.70	10.2	48.0	63.2	84.8	0.02	0.22	65.88		
Gulf Pin	LW(6/96)			74	1701	19.8	1.4					59.9	55.2	66.2			62.65		
Gulf Sho	LW(6/96)			68	1971	42.5	1.2					67.4	57.4	65.0			54.72		
Gulf Sh1	LW(6/96)			181	3185	128.2	0.6					78.2	67.4	79.1			37.77		
Gumbo Li	LW(6/96)			75	1260	10.2	2.8					53.4	45.2	66.4			76.06		
Haines	1-QAQC	alkcol		122	1817	76.7	0.2	319	45	8.20	76.0	73.2	83.2	73.4	0.11	0.45	29.11	33	42
Hamilton	LW 93	alkcol		112	1090	14.4		269	62	7.30	12.0	56.8		72.2	0.01	0.12			
Hancock	Regions	alkcol		427	2463	119.7	0.5	189	83	7.40	52.0	77.5	70.0	91.5	0.01	0.04	36.20	212	57
Henry	1-QAQC	acidcol		97	1183	8.2	0.4	196	167	5.90	2.1	51.2	73.2	70.1	0.00	0.23	55.16		
Lady Fin	LW(6/96)			38	2625	9.1	1.4					52.3	55.2	56.6			68.91		
Lake 1	LW(6/96)			393	2703	190.3	0.3					82.1	77.3	90.3			26.52		
Lake 2	LW(6/96)			331	2517	121.5	0.4					77.7	73.2	87.8			33.48		
Lake 3	LW(6/96)			412	1902	63.9	0.5					71.4	70.0	91.0			41.25		
Lake 4	LW(6/96)			65		16.2	0.7					57.9	65.1	64.3			56.20		
Lake 5	LW(6/96)			181	1965	48.0	0.5					68.6	70.0	79.1			43.55		
Lake 6	LW(6/96)			130	1717	86.7	0.4					74.4	73.2	74.3			36.19		
Lake 7	LW(6/96)			93	1552	42.5	0.6					67.4	67.4	69.5			46.65		
Little12	Canfield	acidcol		54	1032	11.4	0.3	82	138	5.40	1.8	54.5	77.3	61.7			49.16		
Little10	LW(6/96)			27	2509	12.0	0.9					55.0	61.5	51.7			61.54		
Little P	LW(6/96)			30	1382	47.2	0.9					68.4	61.5	53.2			50.52		
Livingst	Regions	alkcol		290	1527	3.5	0.3	131	390	6.60	8.9	42.9	77.3	85.9	0.01	0.11	58.66		
Lowery	Regions	alkcol		18	1343	23.2	1.2	174	44	6.60	5.0	61.4	57.4	45.8			59.58		
Manatee	Canfield	alkcol		163	618	7.3	1.2	134	101	6.90	30.3	50.1	57.4	77.6	0.03	0.15	68.88		
Murex	LW(6/96)			367	2315	37.7	0.7					66.2	65.1	89.3			49.41		
Pond 1	LW(6/96)			202	1943									80.7					
Pond 2	LW(6/96)			282		158.7	0.3					80.3	77.3	85.5			27.98		
Pond 3	LW(6/96)			296	1907									86.2					
Pond 6	LW(6/96)			104	2288									71.1					
Pond 7	LW(6/96)			70	1544									65.4					
Rochelle	1-QAQC	alkcol		175	1283	33.7	0.4	283	55	7.80	37.7	65.1	73.2	78.6	0.07	0.49	43.79		
Roseate	LW(6/96)			64	2101	44.6	0.7					67.9	65.1	64.1			48.05		
Sanibel	LW(6/96)			257	2209	56.1	0.6					70.1	67.4	84.2			44.42		

APPENDIX 1: (CONTINUED)

Lake	Study	ChemType	Ref	TP	TN	Chlorophyll	Secchi Depth	Conductivity	Color	pH	Alkalinity	TSI Chl	TSI SD	TSI TP	MEIAlk	MEICond	tLCI	Troph1 TP Model	WACALIB TP Model
South Cr	Regions	acidcol		38	917	20.8	0.8	121	100	6.40	2.9	60.4	63.2	56.6			55.74		
St. Char	Summer			16	940			112		6.60	12.0			44.1	0.19	1.78			
St. Kild	LW(6/96)			48	1391	22.2	1.3					61.0	56.2	60.0			60.87		
Streety	Regions	acidcol		142	817	8.1	0.8	115	230	6.00	2.1	51.1	63.2	75.6	0.01	0.36	63.33		
Surveyor	Regions	alkcol		76	1367	88.9	0.5	167	68	7.10	6.8	74.6	70.0	66.6	0.02	0.57	38.59		
Upper My	Canfield	alkcol		206	863	6.7	1.3	201	99	8.60	41.2	49.3	56.2	81.0	0.04	0.21	70.51		
West Roc	LW(6/96)			33	1623	8.2	1.7					51.2	52.4	54.6			72.00		
Trafford	Canfield	alkcol		65	1270	27.7	1.0	225	48	8.50	110.8	63.2	60.0	64.3	0.07	0.15	56.04		
Osborne	Canfield	alkcol		138	1168	39.9	1.0	477	60	8.20	203.8	66.8	60.0	75.2	0.57	1.34	53.10		
Tigertai	Canfield	alkclr		14	607	2.5		166	4	8.90	66.1	39.6		42.2	6.61	16.60			