# Elementary School Student Achievement: An Analysis Of School Size And Student Achievement 

Natalie Odom<br>University of Central Florida

Part of the Educational Leadership Commons
Find similar works at: https://stars.library.ucf.edu/etd
University of Central Florida Libraries http://library.ucf.edu

This Doctoral Dissertation (Open Access) is brought to you for free and open access by STARS. It has been accepted for inclusion in Electronic Theses and Dissertations, 2004-2019 by an authorized administrator of STARS. For more information, please contact STARS@ucf.edu.

## STARS Citation

Odom, Natalie, "Elementary School Student Achievement: An Analysis Of School Size And Student Achievement" (2009). Electronic Theses and Dissertations, 2004-2019. 3883.
https://stars.library.ucf.edu/etd/3883


# ELEMENTARY SCHOOL STUDENT ACHIEVEMENT: AN ANALYSIS OF SCHOOL SIZE AND STUDENT ACHIEVEMENT 

by

NATALIE M. ODOM
B.S. Clemson University, 2003
M.A.T. Clemson University, 2006

Ed.S. University of Central Florida, 2008

A dissertation submitted in partial fulfillment of the requirements
for the degree of Doctor of Education
in the Department of Educational Research, Technology and Leadership
in the College of Education
at the University of Central Florida
Orlando, Florida

Fall Term
2009

Major Professor: Kenneth Murray
© 2009 Natalie M. Odom


#### Abstract

Student achievement is the cornerstone of educational intuitions. Having a comprehensive understanding of what factors into having a successful student achievement rate requires the use of previous research and analyzing of historical accounts. The purpose of this study was to determine if there was a difference in student achievement when elementary school size was a factor. The analysis of the results offered beneficial information pertaining to Florida's public schools while providing a stepping stone towards future research. The results of this study and subsequent studies can provide information and guidance to decision makers regarding school size relative to student achievement.

The population for this data was obtained from the Florida Department of Education's Florida Schools Indicator Reports. Three elementary schools were selected from each school district in the state of Florida based on its student enrollment. A small school consisted of an enrollment of 1-300 students, a medium school consisted of 301-500 students, and a school was considered large if its enrollment was 600 students or more. From these schools, the $3^{\text {rd }}, 4^{\text {th }}$, and $5^{\text {th }}$ grade Florida Comprehensive Assessment Test (FCAT) mathematics and reading scores were analyzed.

Analysis of the data revealed that there was no statistically significant difference found for student achievement in mathematics when school size was a factor. However, there was a statistically significant difference found in student achievement in


reading. The significance was found to lie between medium and large schools, with large schools scoring significantly better than medium schools.

This work is dedicated to my grandparents. Your presence in Heaven lets me know that I have four wonderful angels watching over me.

## ACKNOWLEDGMENTS

My sincere appreciation goes to Dr. Kenneth Murray, from our first advising conversation, I knew we would be a great fit. You have been a tremendous help throughout this experience. To Dr. Barbara Murray, you saw something in me that I did not even know existed. Thank you for encouraging me over the years and for being so resourceful. You two are an excellent team!! The University of Central Florida is blessed to have you both. To Dr. Doherty and Dr. Hutchinson, thank you for your time and effort. Working with you both has truly been a pleasure. To Elayne Reiss, thank you for your patience and expertise.

To Oliver W. Pough, IV, my future husband, I am so excited to start this chapter of my life with you and I thank you for supporting me and encouraging me.

To my parents, without your continued support this would not have been possible. Thank you for always loving me, supporting me, and spoiling me!!! To my siblings, watching you both made me a better person and a better student. Thank you for your guidance and setting a path for me.

To my late Great Uncle Ed "Buddy" Davis, I believe everything about the work I have completed speaks volumes to you and our relationship. When I was a little girl, you would ask me, "did you get your lesson today?" At that time, I had no clue what you were talking about, but as I have grown I have remembered those conversations and realized how important my education was to you. I hope I have made you proud.

To Mr. \& Mrs. Pough, you have welcomed me into your family and given unselfishly to our future and our personal endeavors. I can never repay you for all that
you have done, but I will do everything in my power to continue to make your son happy.

To my Lord and Savior, thank you for everything! I carry You in my heart with every step that I take. When my time on earth is done, I hope to meet You and hear the words "Well done, My Child".

## TABLE OF CONTENTS

LIST OF FIGURES ..... xi
LIST OF TABLES ..... xii
CHAPTER 1 PROBLEM STATEMENT AND RESEARCH DESIGN ..... 1
Introduction ..... 1
Statement of the Problem ..... 2
Purpose of the Study ..... 3
Research Question ..... 3
Hypotheses ..... 3
Population and Sample ..... 3
Data Collection ..... 4
Data Analysis ..... 4
Significance of the Study ..... 4
Limitations ..... 5
Delimitations ..... 5
Organization of the Study ..... 5
CHAPTER 2 REVIEW OF LITERATURE ..... 7
Introduction ..... 7
The Historical Impact of School Size ..... 7
School Size ..... 9
School Reform ..... 17
Florida School Reform Efforts ..... 22
Student Achievement ..... 26
Effects of School Reform ..... 29
Summary ..... 33
CHAPTER 3 METHODOLOGY ..... 34
Introduction ..... 34
Statement of the Problem ..... 34
Population and Sample ..... 34
Data Collection ..... 35
Dependent and Independent Variables ..... 35
Data Analysis ..... 35
Research Question 1 ..... 36
Research Question 2 ..... 36
CHAPTER 4 ANALYSIS OF DATA ..... 37
Introduction ..... 37
Description of Population ..... 37
Research Question 1 ..... 46
Research Question 2 ..... 47
Summary ..... 48
CHAPTER 5 SUMMARY AND RECOMMENDATIONS ..... 49
Introduction ..... 49
Statement of Problem ..... 49
Methodology ..... 49
Population ..... 49
Data Collection ..... 50
Data Analysis ..... 50
Summary and Discussion of Findings ..... 50
Conclusion ..... 51
Recommendations for Practice ..... 52
Recommendations for Future Research ..... 53
APPENDIX A MAP OF FLORIDA SCHOOL DISTRICTS ..... 55
APPENDIX B FCAT READING DATA FOR GRADE 3 ..... 57
APPENDIX C FCAT READING DATA FOR GRADE 4 ..... 71
APPENDIX D FCAT READING DATA FOR GRADE 5 ..... 85
APPENDIX E FCAT MATH DATA FOR GRADE 3 ..... 99
APPENDIX F FCAT MATH DATA FOR GRADE 4 ..... 113
APPENDIX G FCAT MATH DATA FOR GRADE 5 ..... 127
LIST OF REFERENCES ..... 139

## LIST OF FIGURES

Figure 1: Theory of action - Chicago High School Redesign Initiative ................ 19
Figure 2: Map of Florida School Districts ........................................................... 56

## LIST OF TABLES

Table 1 Elementary Schools Studied ..... 39
Table 2 Descriptive Statistics of FCAT Math Proficiency Based on School Size47Table 3 Descriptive Statistics of FCAT Reading Proficiency Based on School
Size ..... 48
Table 4 FCAT Reading data for Grade 3 ..... 58
Table 5 FCAT Reading data for Grade 4 ..... 72
Table 6 FCAT Reading data for Grade 5 ..... 86
Table 7 FCAT Math data for Grade 3 ..... 100
Table 8 FCAT Math data for Grade 4 ..... 114
Table 9 FCAT Math data for Grade 5 ..... 128

## CHAPTER 1 PROBLEM STATEMENT AND RESEARCH DESIGN <br> Introduction

School systems provide information on student achievement on an annual basis using statewide standardized test data. This study analyzed student achievement in the state of Florida when school size is a factor.

There is published research that indicates that school size has little to no effect on student achievement, while there is also contradictory research established. Much of the research debates the advantages and disadvantages of small schools versus larger schools, such as school safety and graduation rates; while earlier studies specifically examined the appropriate enrollment range of a school to reach its optimal size for student achievement. Research indicates that small schools offer more personable experiences and stronger learning environments for their students. Raywid (1997) stated "small schools are especially beneficial in each of these regards for disadvantaged or at-risk students, who appear to depend to a greater extent on school size and organization for succeeding than do more fortunate youngsters" (p. 18). Jon Bailey (2000) found that "out of 22 major studies examining academic achievement by school size, none finds that large schools are superior to small schools. Fourteen studies find equivalent achievement, and 8 studies find small schools superior" (p. 4). Bailey's findings offer general conclusions; however, the goal of this study is to provide detailed information that specifies the difference in student achievement when elementary school size is a factor.

Each year in the state of Florida, elementary students in grades $3-5$ are tested based on the Sunshine State Standards (SSS) in reading, mathematics, science and writing. This information, along with student academic grades, is then utilized to differentiate the students into their learning environments for the upcoming school year. The results are also used to provide teachers with data that shows evidence of success and where growth is needed.

The Florida Comprehensive Assessment Test (FCAT) is the standardized test administered throughout the state of Florida annually. According to the Florida Department of Education (2008), the purpose of the FCAT is to "access student achievement of the Sunshine State Standards benchmarks in reading, mathematics, science, and writing (p. 2). The Florida Department of Education (2008) further details that the FCAT "includes norm-reference tests (NRT) in reading comprehension and mathematics problem solving, which allow for comparing the performance of Florida students with students across the nation" (p. 2). This information was analyzed and expressed as a comparison between schools of different sizes to see whether or not school size is a factor of student success in an elementary school educational setting.

## Statement of the Problem

While there has been sufficient research on the effects of school size on student achievement, there is limited information, to date, regarding the effects of school size on student achievement in Florida public schools. This study attempted to determine if differences exist in student achievement at the elementary level when school size is a factor.

## Purpose of the Study

The purpose of this study was to discover whether there is a difference in student achievement in the state of Florida based on Math and Reading FCAT Sunshine State Standard scores when elementary school size is a factor.

## Research Question

The study was guided by the following research questions:

1. What differences, if any, exist in student achievement, based on the school-wide FCAT Math assessment at the elementary level, when school size is a factor?
2. What differences, if any, exist in student achievement, based on the school-wide FCAT Reading assessment at the elementary level, when school size is a factor?

## Hypotheses

The proposed research hypotheses were as follows:
$\mathrm{H}_{1}$ : There is a statistically significant difference in student achievement on the FCAT Math when school size is a factor.
$\mathrm{H}_{2}$ : There is a statistically significant difference in student achievement on the FCAT Reading when school size is a factor.

## Population and Sample

The population for this study was comprised of three elementary schools from each of the sixty-seven school districts in the state of Florida. The elementary schools were divided into three categories based on the population of each school. The categories were as follows:

- A school with $1-300$ students was considered small.
- A school with 301 - 599 students was considered medium.
- A school with 600 or more students was considered large.

The sample for this study included the school-based data that was collected for each school. This information included the number of students, the 2006 - 2007 FCAT Math scores for grades 3-5, and the 2006-2007 FCAT Reading scores for grades 3-5. At the time of this study, the $2007-2008$ FCAT results were not available.

## Data Collection

All of the data used in this study was compiled from the Florida Indicator Reports generator and school accountability reports available on the Florida Department of Education website.

## Data Analysis

A One-way ANOVA statistical analysis was used to discover whether there was a statistically significant difference in student achievement on the FCAT when school size is a factor.

## Significance of the Study

This study included data from the sixty-seven school districts in the state of Florida. The data will demonstrate the similarities and differences of the Florida school districts through an in-depth analysis of student achievement on the FCAT and school size. The results of this study will provide information and guidance to school and school district decision makers regarding school size relative to student achievement.

## Limitations

There are factors which could limit the validity of this research. One of those factors could be the variations of school district size in Florida that will limit the likelihood of having an elementary school to fit each of the three school size parameters. The reality that some schools may or may not report all of the information being analyzed was taken into consideration. The study is limited to the accuracy of the reported data on the Florida School Indicators Report. Additionally, schools may be small due to outside factors, including school choice, the needs of the school district, and the location of the school.

## Delimitations

This study is delimited to reported data of FCAT scores and student population on the Florida School Indicators Report for the 2006-2007 school year. This study is delimited to one school for each of the three set school size parameters. The focus of this study is placed solely on elementary school size, therefore, middle school and high school information, for each of the school districts, has been excluded for the purpose of this study.

## Organization of the Study

Chapter 1 of this study has provided the general background of the study, introduced the problem, the components, the research questions, and the methodology used to acquire and analyze the data for this study. Chapter 2 contains a review of the relevant literature to school size and student achievement. Chapter 3 includes the
methods and procedures used to collect and analyze the data for this study. Data analysis and the results of this study are presented in Chapter 4. Chapter 5 provides a summary of the findings, conclusions, recommendations for practice, and recommendations for future research.

## CHAPTER 2 <br> REVIEW OF LITERATURE <br> Introduction

This chapter is a review of related literature pertaining to the main subjects of this study: school size and student achievement. Other variables, such as school operation costs, per-pupil expenditures, socio-economic status, school location, and school culture, are presented in the review of literature as they pertain to different studies. The review of literature is presented with six subtitles: a) The Historical Impact of School Size, b) School Size, c) School Reform Efforts, d) Florida School Reform Efforts, e) Student Achievement, and f) Effects of School Reform.

## The Historical Impact of School Size

With the continuous efforts to effectively improve school districts and to restructure schools, researchers have closely studied the evolution of public education. According to Cotton (1996), between the years of 1940 to 1990 the number of school districts throughout the country declined by $87 \%$ from 117,108 to 15,367 . Cotton (1996) further stated "between 1940 and 1990, the total number of elementary and secondary public schools declined 69 percent-from approximately 200,000 to 62,037-despite a 70 percent increase in the U.S. population. Consequently, the average school enrollment rose more than five times-from 127 to 653 " (p. 1). These changes would impact the course of public education for decades to follow.

Lee and Smith (1993) researched the differences in school structures while focusing on historical accounts that over time have proven to may have been the more
effective manner of operating a public school system. Lee and Smith (1993) wrote "changes toward larger, more efficient, and more differentiated comprehensive high schools have led to the alienation of a considerable number of students" (p. 166). Lee and Smith (1993) also found adverse effects to the declination of the number of schools. Lee and Smith (1993) wrote "besides inducing alienation, differentiation of functions and an emphasis on instruction that is grouped by ability - important features of bureaucratically organized schools - magnify the social distribution of achievement" (p. 166).

School size and the declination of public school districts and schools has been an ongoing challenge for education. As with any major organization or entity, the impact of one issue brings awareness to other issues. Thompson (1996) wrote "when we reduce the number of schools in favor of a few large ones that fits the nation's cry for efficiency" (p. 6). The cry for efficiency that Thompson (1996) wrote about was answered with the No Child Left Behind Act of 2001. Since the development and implementation of NCLB, many public school districts have been inundated with uncertainties towards how to improve student achievement while focusing on accountability. Gallucci (2008) states the "NCLB and other contemporary education policies, in taking aim on the quality of instructional experiences for public school students in the United States, pose learning challenges for educators across levels of the system" (p.541). NCLB's academic accountability tool is simply too narrow to measure students' mastery of these skills (Sofo, 2008). Sofo (2008) also stated the following:

Instead, the 2001 legislation defines appropriate student achievement as scoring above a proficient score on a single standardized test, and both the test and the score are chosen independently by each of the fifty states. Furthermore, the tests are not designed to measure performance in any areas other than content knowledge and skills related to math and reading. Finally, the current law does not address each student's academic growth or decline from year to year.

With the implementation of NCLB, researchers have found areas as to which the legislation could be improved to offer a more definite way of tracking student achievement and accountability. Those research efforts interconnect other pressing educational matters, such as school size.

## School Size

Since the mid 1800s, historical accounts ensure that school size has been a perpetual concern in education. Since evolving from the single teacher, one-room school house of the 1800s to the large school buildings of today, researchers have found considerable evidence that small schools offer more advantages to students and academic success than large schools. There have been studies performed that both support and dispute these findings. Within this section is an overview of different studies that analyze school size based on various factors and variables. The studies also offer recommendations for optimal student membership.

Meier (1995) wrote of her experiences with school reform and found replacing larger schools with smaller schools has proven to be a great success in East Harlem's

District 4. Meier (1995) found that since opening The Central Park East Secondary School (CPESS), a inner-city school that educates approximately 450 students in grades 7-12, over 95 percent of the students have received their diplomas, and 90 percent of those students went on to attend college. Statistics show that prior to the opening of CPESS, the citywide average graduation rate was only 50 percent. Meier (1995) further promotes school reform for Julia Richman High School, which was classified as a failing school, by transforming the large school into six autonomous small schools, all located within the same facility, and finding great success with all six small schools.

Vander Ark (2002) found "studies show that small schools have higher attendance rates and lower dropout rates, their students have higher grade point averages, and students and teachers report greater satisfaction with the school experience" (p. 55). Vander Ark (2002) stated that the Bill \& Melinda Gates Foundation has "invested more than $\$ 250$ million in grants nationwide for creating new small schools and transforming large high schools through the schools-within-a-school model" (p. 55). In recent years through this initiative, The Gates Foundation has "learned some lessons from its investments in pathbreaking schools" (Alter, 2008). The Gates Foundation has found that "rigorous accountability is the only option" and the creating of path breaking schools proved "insufficient without major changes in personnel" (Alter, 2008). Consequently, Wainer and Zwerling (2006) found that in 2005, after awarding nearly $\$ 1.7$ billion in grants for school reform, The Gates Foundation decided to move "away from its emphasis on converting large high schools into smaller ones and instead giving grants to specially selected school districts with a track record of academic
improvement and effective leadership" (p. 303). Wainer and Zwerling (2006) further stated that The Gates Foundation believed that "improving classroom instruction and mobilizing the resources of an entire district were more important first steps to improving high schools than breaking down the size" (p. 303).

Overbay (2003) agreed with The Gates Foundation initiative in its earlier stages by stating "it may be possible to achieve the desired student outcomes by reorganizing school populations or by creating small learning communities within existing facilities" (p.1). Overbay (2003) also found the following:

After examining, 9,812 sets of records for the same students across grade levels, Lee and Smith (1997) found a curvilinear relationship between high school size and achievement. According to their findings, high school achievement rises as enrollment rises to 600 , remains steady up to about 900, and then drops with increasing school size.

The most recent metanalysis of production-function studies (Andrews et al., 2002) resonates with these findings, indicating that high schools above 1,000 students and elementary schools above 600 students may experience diminishing returns; that is student performance and school services appear to decline relative to increasing inputs (e.g. the number of teachers, administrators, and support staff). Thus, some available evidence suggests that schools can be too small, but that some schools (high schools, especially) may be too large. Still, Andrews et al. caution readers that methodological oversights in many available studies can make comparing their results somewhat problematic." (p. 3).

Overbay (2003) constructed a table within her research that offered a brief overview of many frequently cited studies on optimal school size. In 1984, one study performed by Eberts, Key, Hole, and Stone focused on 287 elementary schools where the dependent variable was achievement scores, and the independent variables included school size and student, teacher, principal, and school-climate characteristics (Overbay, 2003). Overbay (2003) stated that Eberts, Key, Hole, and Stone found that small schools (under 200 students) and medium schools (400-600 students) had minimal impact on student performance; however, student performance exhibited a significant decline as student population grew towards 800 students. Overbay (2003) also stated that a key limitation in Eberts, Key, Hole, and Stone's study was the exclusion of control for school location.

Overbay (2003) included a 1982 study by Lindsay that investigated 14,668 students in 328 elementary schools in which the dependent variables included extracurricular participation rates, student satisfaction and attendance. The independent variables were school size, socio-economic status, student ability, and location. Overbay (2003) states that Lindsay found "schools with 100 pupils or less in both urban and rural areas had higher extra-curricular participation rates, student satisfaction, and attendance, controlling for socio-economic status and ability" (p. 4). Overbay (2003) found the limitation to this study included the exclusion of a variable for suburban schools.

Lee and Smith (1997) studied 9,812 sets of student records from 789 high schools. The dependent variables included reading and mathematics achievement and the independent variables included school size and socio-economic status. The study
was based off of three research questions: a) Which size high school is most effective for student learning?, b) In which size high school is learning most equitably distributed?, and c) Are size effects consistent across high schools defined by their social compositions? Lee and Smith (1997) found that in terms of the effectiveness of student learning, enrollment should fall between 600 and 900 students. Lee and Smith (1997) also found that "in schools smaller than this, students learn less, those in large high schools (especially over 2,100) learn considerably less" (p. 205). "Learning is more equitable in very small schools, with equity defined by the relationship between learning and student socioeconomic status (SES)" (Lee \& Smith, 1997). Lee and Smith (1997) found the following:

An important finding from the study is that the influence of school size on learning is different in schools that enroll students of varying SES and in schools with differing proportions of minorities. Enrollment size has a stronger effect on learning in schools with lower-SES students and also in schools with high concentrations of minority students. (p. 205)

With the number of studies performed on school size, there are different limitations that would allow for the variation in results. Hylden (2004) found discrepancies while researching what is considered the optimal size for small schools. Hylden (2004) found that in a 2002 report commissioned by the Rural School and Community Trust, that an effective high school would have an upper limit of 300 students, whereas, The Cross City Campaign for Urban School Reform recommends capping enrollment in high schools at 500 students. Through research in rural North Dakota, which was used to encourage the continuation of operation of small schools in
the area versus closing them to create one large school, Hylden (2004) found that smaller schools, with enrollments of under 50 students, outperformed schools with over 500 students by wide margins. Hylden (2004) further encouraged policymakers to keep the doors of the smaller schools open and focus on providing the resources to continue to have the smaller learning environments which have proven to be beneficial to its students.

In an earlier study, "Conant (1959) determined that in order to offer the best possible college preparatory curriculum, a high school should have at least 100 students in its graduating class" (Bard et al, 2006). In support of large schools, Conant further stated "that the most outstanding problem in education was the small high school, and that the elimination of small high schools would result in increased costeffectiveness and greater curricular offerings" (Bard et al, 2006).

Craig Howley and Robert Bickel (1999), Mary Anne Raywid (1999) and Karen Irmsher (1997) have all researched school size extensively. Their studies offer different views on the topic of school size and provide in-depth findings that further support the need for close observations of school size in public education. Comparing and contrasting these studies will further support the need for performing a study that combines the variables: school size and student achievement, with a focus on Florida schools.

The Matthew Report, a study that evolved from a series of previous studies, tested the "negative influence of poverty on academic achievement in California, Alaska, and West Virginia" (Howley, Bickel 1999). The Matthew Report also included the states of Ohio, Georgia, Texas and Montana to further research the variables of
socio-economic status and school size. The report provided "strong evidence that a one-best, everywhere 'optimal' school size is a figment. The appropriate size for a school, when the aim is to maximize aggregate student achievement, depends on community circumstance, operationalized here as aggregated SES [socio-economic status]" (Howley, Bickel 1999). The Matthew Report showed that although there is no optimal school size that "schools can be so large as not to serve anyone very well" (Howley, Bickel 1999). The report encourages the establishment of an "upper limit of school size" (Howley, Bickel 1999).

Raywid (1999) analyzed the benefits of small schools while determining, through previous research, what population size impact a small school. Based on the financial aspect of small schools, Raywid (1999) found the following:

When viewed on a cost-per-student-enrolled basis, they are somewhat more expensive. But when examined on the basis of the number of students they graduate, they are "less" expensive than either mediumsized or large high schools. (These findings hold true for the small academic and alternative schools, but not for the more costly "last chance" alternative or vocational schools.) (p. 3)

Much of Raywid's findings delivered an understanding that smaller schools create better climates and educational environments for students. A look into some of New York District 3 and District 4 schools determined that dropout rates had significantly decreased through the creation of small schools.

Irmsher (1997) conducted research that examined whether or not larger schools have "produced greater academic success at lower costs" (p.2). The findings showed
the contrary - larger high schools did not produce greater academic success at lower costs. Irmsher stated "although large schools offer greater curricular variety, only a small percentage of students take advantage of advanced and alternative classes" (p. 2).

Irmsher's study further detailed which groups benefited from small school sizes. A higher percentage of students, across all socioeconomic levels, are successful when they are part of smaller, more intimate learning communities. Females, nonwhites, and special-needs students, whether at risk, gifted, exceptional, or disadvantaged, are all better served by small schools. Security improves and violence decreases, as does student alcohol and drug abuse. (p.3)

Through the number of research efforts on school size, there is evidence that shows there is no difference in student achievement in large or small schools. There were also studies that show student achievement in small schools out performed student achievement in large schools. However, the studies provide no evidence that large schools were superior to small schools. Even with the conflicting results, the relationship between school size and student achievement is relatively too small to distinguish.

Although the results of the previously stated studies vary by the numerical value of each of the enrollment ranges, each study concludes that school size should remain relatively small. The review of the literature builds a solid foundation for the purpose of this study based on the variations of optimal school size. Previous studies show that there is no true optimal size for a school, however, through continued research;
parameters can be set to find the appropriate size based on the geographic area of each school district.

Although the studies offer rationale supporting smaller schools, the findings articulate the need for more studies to be conducted that can show a relationship between school size and student achievement specifically in the state of Florida. The results from the aforementioned studies all contribute community and socio-economic status as variables that enable or interrupt student achievement. With the extreme variations of socio-economic status and school size in the school districts in Florida, it is necessary to examine the state to find what can be done, if anything, to improve student achievement based on school size and factors contributing to school size.

## School Reform

Kahne, Sporte, and Easton (2005) conducted a study on school reform in Chicago based on a recognized need for reform in the urban public high schools. The researchers found "only 54 percent of the 2000-01 freshman cohort graduated in four years" (Kahne et al, 2006). Only 36\% of Chicago's eleventh graders met the 2004 Prairie State Achievement Exam standards in reading and only 28\% in Math, which was significantly lower than the state of Illinois' average for reading and math; $57 \%$ and $52 \%$, respectively. The researchers also found "only 6.5 percent of those who started as thirteen-year-olds in Chicago's public high schools in 1998 or 1999 had earned a bachelor's degree by the time they were 25 . Only about 3 percent of male AfricanAmerican and Latino students did so" (Kahne et al, 2006).

Kahne, Sporte de la Torre and Easton (2006) detailed that their study consisted of an quantitative analysis of "how small schools compare to the rest of Chicago Public Schools, taking into account individual- and school-level characteristics." The first phase of the study was based on three questions: "How is Chicago's effort to implement small schools on a large scale proceeding? Are small schools creating the contexts for principals, teachers, and students that reformers believe will ultimately lead to desired reform and improved outcomes? And what are early indications of the small schools' impact on student outcomes?" (Kahne et al, 2005). To respond to these questions, the researchers developed a theory of change, as detailed in Figure 1. The framework "was developed through consideration of relevant literature, analysis of documents related to the initiative, and through interviews and discussions with key stakeholders" (Kahne et al, 2005). Kahne, Sporte, and Easton (2005) explained that the framework "portrays the mechanisms through which various features of small school reform are thought to promote desired contexts for students and teachers. It also details how these contexts, in the presence of district, state and federal influence, can promote both curricular change and desired outcomes" (p. 10).


Figure 1: Theory of action - Chicago High School Redesign Initiative

Kahne, Sporte, de la Torre, and Easton (2006) detailed many of their findings of this study. Although the researchers found that juniors at the Chicago High School Redesign Initiative (CHSRI) schools did not score differently on the Prairie State Achievement Exam than their non-CHSRI counterparts, they did find that first-time freshmen at CHSRI attended school more than their peers at other Chicago public high schools. Another finding detailed the following:

First-time freshmen at CHSRI schools were more likely to be on-track to graduate than similar students at similar schools in all three years, but the difference was not large enough to be statistically significant. The difference ranged from about 9 percentage points for academic year 2002-03 to about three percentage points in 2004-05. (p. 2).

Kahne, Sporte de la Torre and Easton (2006) found, later in the study, that smaller schools are fostering more personal learning environments for students and healthier work environments for teachers. "These differences may be related to the differences in dropout rates and absences that we found in our analysis, but they do not appear to be spurring increased instructional reform activity, differing instructional practices, or improved student achievement test scores" (p. 2).

Haenn (2002) conducted research on class size and student success through three lab schools and two traditional elementary schools. The lab schools were created to decrease the number of students in a given inner city school, however, they were not associated with any university nor were they used to experiment with innovative pedagogical methods. The two traditional schools were selected due to their adjustments to their budget to create more space for smaller class sizes. The purpose of this study was based on of previous research conducted by Glass and Smith (1978).
"The primary catalyst of the debate over class size was a meta-analysis of the research on class size research that indicated that student improvements were relatively small for class sizes of about 20 students, but significantly improved for classes with fewer than 15 students" (p. 4).

Haenn (2002) found that lab schools were making positive impacts on student achievement in primary grades, but each grade level performed differently. Haenn (2002) stated that students in kindergarten, first grade, and second grade outperformed their counterparts in the traditional schools. However, one of the three lab schools outperformed their traditional school counterparts in grade 4. In third and fifth grades, the Lab School students did not show higher achievement than the students in the traditional schools.

Sharing the same opinion with researchers who believed reducing class size is a way to improve student achievement, Graham (2009) stated "reduced class size is a necessary strategy to close the achievement gap and address inequalities in public school education caused by years of neglect" (p. 1).

In 1996, the state of California initiated school reform that reduced the size of K-3 classes across the state by approximately 10 students per class. The efforts held financial obligations that surpassed one billion dollars, which proved beneficial for researchers who found significant conclusions from this initiative. Jepsen and Rivken (2007) found that "the ten-student reduction in class size raised school average mathematics and reading achievement by roughly 0.10 and 0.06 standard deviations of the school average test score distribution, respectively, holding other factors constant" (p. 224).

Although no study has produced significant numbers to defend one size school over the other, reforms should continue and future researchers should incorporate other variables into their studies to solidify any findings in favor of small schools or large schools.

## Florida School Reform Efforts

Conroy and Arguea (2002) stated "the state of Florida's A-Plus plan for education included provisions to '(set) high standards and provide adequate funding, and then hold schools and educators accountable for the performance of the students they are entrusted to educate'" (p. 656). Among these provisions was the class size amendment of 2002 .

McNeil (2008) states, in reference to the Florida Legislature's class size amendment, "the new requirements mean that districts must reduce pupil-teacher ratios in every classroom to 18 -to-1 in prekindergarten though 3rd grade, 22-to-1 in grades 4 8, and 25-to-1 in high school, or face financial penalties from the state department of education" (p. 1).

On the basis of class size reduction, Harris (2004) recommended that the Florida Legislature fund an external review of class size reduction costs and benefits "to provide a steady source of objective information as the amendments are implemented". Porter and Soper (2003) state the offerings of a class size reduction plan:

A carefully designed class size reduction (CSR) plan offers a systematic approach to school wide improvement that incorporates every aspect of a school, from curriculum and instruction to school management; a program
and a process designed to enable all students to meet challenging academic content and performance goals; a plan for using research to direct the move from multiple, fragmented educational programs to a unified plan with a single focus: academic achievement; incentives and direction for long-term, collaborative efforts among school staff, parents and district staff (p. 4).

Harris (2004) believes that the class size amendment "can be funded without changing Florida's status as a low-tax state" (p. 11.12). Harris (2004) further states that the actual costs of class size reduction will be lower than even the lowest estimates being considered by the Florida Legislature while finding ambiguity about "what costs will be incurred" (p. 11.12).

While further researching the effects of the class size amendment, McNeil (2008) found that starting with the 2008-09 school year, Florida school districts must meet "new size caps in each classroom, robbing school officials of the wiggle room they enjoyed during the phase-in period, when school systems were allowed to use district-wide and then school wide averages in calculating class sizes" (p. 1). McNeil (2008) reported "officials warn that the mandate will mean hiring more teachers and building more classrooms at a time when the state is facing an ongoing $\$ 2$ billion budget deficit and new pressures from a recently approved constitutional amendment cutting property taxes" (p. 2).

There is a growing need to learn how large Florida's public schools should recruit, and how education funds in the state of Florida are being allocated in support of student achievement. The National Education Association (2007) stated that in fall of

2005, the state of Florida was ranked fourth in the nation in total public school enrollment, however, it ranked $41^{\text {st }}$ in the number of school districts. In regards to the amount of money spent on public education, Florida ranked $50^{\text {th }}$ in per capita expenditures of state and local governments for all education (National Education Association, 2007).

In an effort to emphasize the need for legislative reform on school funding in Florida, Harris (2004) reported that funding for education in the state of Florida has increased at a slower rate than the rest of the nation of $1.4 \%$ annually between the years of 1981-2001. Harris (2004) further states that "like businesses, schools compete with other organizations in the private sector to attract employees" as a basis for Florida to continue to increase spending to improve education throughout the state. Harris (2004) continues with the following:

It is possible to place too much emphasis on financial responsibilities as a factor affecting education quality, especially in a budgetary analysis such as this. More so than most states, Florida has engaged in a wide variety of other reforms, from high-stakes testing to charter schools, that are all part of the state's efforts to improve education. Combined with the state's relatively low spending, it is therefore clear that Florida's school improvement efforts have focused on accountability rather than on enhancing resources. The recent votes approving constitutional amendments that enshrine a standard of quality suggest that the public may demand a more balanced approach (p. 11.3).

While funding Florida public education comes from both state and local sources, the state has seen an increase in funds since the initiation of the Florida Education Finance Program (FEFP) in 1973-73 (U.S. Department of Education, 2001). The FEFP bases public education's financial support and financial resources on the number of participating students in educational programs throughout the state (U.S. Department of Education, 2001). State funds for public school support are provided primarily through the FEFP, while the major source of revenue for state support of public schools is the state sales tax and the major source of revenue for local support of public schools is property tax (U.S. Department of Education, 2001).

As Harris (2004) and others aim towards protecting public schools in Florida, the National Education Association (2003) found that although all 50 states offer either abatements or tax increment financing (TIF) or both, Florida is one of only two states that shield school revenues from both abatements and TIF. The National Education Association (2003) states that tax increment financing is defined as the process of granting long-term diversions of certain districts' property taxes to corporations making investments in those districts. The National Education Association (2003) also stated that the "state law requires votes of each county to approve an enabling referendum before county officials can start awarding property tax abatements" (p. 22). This state law grants the public full involvement in the funding decisions for public schools. This information can be interpreted to show that school enrollment and school funding are elements that perpetuate overcrowded schools and classrooms, which is directly related to student success.

## Student Achievement

Fulton (1996) reported that for years policymakers, educators and community members have been working towards improving student achievement through school reform. According to Fulton (1996), "policymakers must continue to ask for evidence and to push the research community to provide the types of information they need to make sound laws. Building these practices into the policymaking process will increase the chance that education reforms will lead to improved student performance" (Fulton, p. 8).

The Florida Comprehensive Assessment Test (FCAT) is the standardized test administered throughout the state of Florida annually. The purpose of the FCAT is to access student achievement in the third grade through the eleventh grade in reading, mathematics, science and writing based on their knowledge of the Sunshine State Standards (SSS). The FCAT includes norm-reference tests that allow for the performance of Florida students to be compared to that of the performance of students nationally in reading comprehension and mathematics problem solving. Smith (2004) states the following:

The Florida Comprehensive Assessment Test (FCAT) is the principal instrument to measure proficiency: a "proficiency standard" is set for each grade level. Students scoring above the cutoff score advance to the next grade. The students scoring below the cutoff are targeted for intensive remediation of their low achievement in reading, math, and writing. Schools must identify students whose results are below the proficiency
standard and concentrate their resources on remediation. The state must monitor and enforce school compliance (p. 3.1).

Smith (2004) further states:
The FCAT proficiency standard makes no allowance for the standard error (the normal variation around any score on a test) of FCAT scores or for the cutoff score. This combination of one absolute standard, the strict monitoring, and the tight enforcement make the Florida policy one of the most stringent in the nation (p. 3.1).

According to the Success for All Foundation (2006), elementary schools in the state of Florida have steadily shown significant increases on the FCAT Reading assessments.

The Learning First Alliance (2004) states that educators and parents want children to attend safe, supportive schools that use sound methods to enhance students' academic, social, emotional, and ethical growth. On the other hand, Porter and Soper (2003) find that "conventional wisdom maintains that American public schools are in crisis - they are not adequately preparing our youth to be successful and economically productive in the future" (p. 2). Porter and Soper (2003) further state the measures needed to take toward comprehensive school reform that will assist in developing safe and supportive learning environments with much of the research grounded in class size reduction. Those measures include encouraging schools and districts to complete "a thorough needs assessment to determine their own strengths and weaknesses, and to find the strategy that best fits the needs, culture and climate of their schools" (p. 9), acquiring the support from the community and the school system,
and to "work hard to ready themselves and the community prior to implementation" (p. 9) of the comprehensive school reform.

According to Mosteller (1995), students who begin their education in smaller class settings continued to perform better than students from larger class settings with or without a teacher's aide. In other research pertaining to small schools and student achievement, Gamoran (1996) found the following:

Students with average reading scores who entered magnet schools by lottery tended to improve their reading achievement more than otherwise similar students who, because they were unsuccessful in the magnetschool lottery, attended comprehensive schools. The magnet-school "lottery winners" also earned more credit toward graduation and were less likely to drop out prior to high school (p. 4).

Porter and Soper (2003) analyzed piecemeal school reform attempts and failures in Tennessee and California. The study examined Tennessee's success with the overall school reform process and California's policymakers enactment of a voluntary class size reduction plan due to Tennessee's success. Porter and Soper (2003) found the following:

Single focus reform efforts cannot, by themselves, sufficiently change the overall culture and academic climate of our most troubled schools. As useful as smaller classes had been shown to be in Tennessee, in California they could not solve - but rather highlighted - problems of teacher qualification and severe shortages in resources. (p. 2)

In reference to school size, Friedkin and Necochae (1988) found that "in the empirical literature on the relationship between the size and performance of school systems one finds reports of negative, negligible, and positive associations" (p. 237). Friedkin and Necochea (1988) went on to "examine the relationship for both schools and school districts in light of the new hypotheses about the mechanisms through which the size of a school system influences system performance" (p.237). Friedkin and Necochea (1988) discovered that "school system size has strong negative effects on performance that are eliminated, but not strongly reversed, in high socioeconomic status settings" (p. 237).

In 1968, Herbert J. Kiesling conducted a study that investigated "the question of school characteristics and achievement" (Kiesling, 1968, as cited in Fowler, Walberg, 1991). The findings displayed a "negative relationship between achievement tests (math and verbal ability tests) and school size" (Kiesling, 1968, as cited in Fowler, Walberg, 1991).

Current literature on school size and student achievement exposes different findings under each category. Studies have been conducted that discuss the importance of school size in relation to student achievement, whereas much of the research is in support of small schools and investigating the enrollment parameters that define small schools.

## Effects of School Reform

Research showed that schools and school districts are constantly seeking new methods of providing the level of school reform necessary to improve student
achievement. Examining current school reform efforts will allow for future researchers to compare and contrast previous undertakings to current and future efforts to improve student achievement.

Rubenstien (2007) studied the Chugach School District, in South Central Alaska. In the early 1990s, the Chugach School District had students who could barely read, graduates struggling to maintain employment, and the district only produced a few college graduates over the course of two decades. In 1994, the school district saw a need for reform based on their low graduation rates, the high teacher turnover, and through complaints from business leaders that the graduates of the Chugach School District lacked the basic skills. The school district created a Quality School Model. The Quality School Model is an individualized standards-based model where the students take control of their education. A student can advance through the academic levels at any given time throughout their academic career. The outcome of this model has proven that school reform, when implemented correctly, can benefit all involved parties. Rubenstien (2007) found the following

Now, more than 80 percent of Chugach students who took the state's third-grade and ninth-grade exams last year passed in reading, and more than 60 percent passed in math. Of the twenty-five graduates the district has tracked since 2001, fifteen are enrolled in college or have already graduated, five work full time, two are in the military, and two are stay-athome moms. Chugach can legally fund enrollment for students until age twenty-one, though every student over eighteen counts against the graduation rate under the No Child Left Behind Act. (p. 29).

Sunderman et al (2004) found common results when studying two groups of educators from urban school districts in Fresno, California and Richmond, Virginia. One recommendation found was that "schools need additional resources, but not just more money" (Sunderman et al, 2004). The teachers in both school districts recommended that more supplemental educational services be available to assist in "developing coherent instructional programs" (Sunderman et al, 2004). In a similar study, Sofo (2008) researched school district reform that took place in the Freedom Area School District in Freedom, Pennsylvania. This research detailed how one school district modified its instructional model to focus on "The New 4 R's of rigor, relevance, relationships, and reflection" and took a "classroom-level intervention to support struggling learners" to facilitate its major components of its reform. Although Freedom Area School Districts' efforts began in the classroom, the effects of the initiative are recognized throughout the schools and the school district.

Ford (2008) witnessed school reform first-hand as a principal of Johnsview Village School. Johnsview Village School serviced a heavily transient community which often made school reform difficult to prepare for. Over the course of three years, Johnsview Village School was able to create and implement an instructional plan that benefited all students and, "as a result, managed a steady, incremental rise in reading, writing, and mathematics" (Ford, 2008).

The desire for school reform can directly be connected to the enactment of the No Child Left Behind Act of 2001 (NCLB). Fursarelli (2004) stated "NCLB establishes a comprehensive framework of standards, testing, and accountability absent in previous federal legislation, and in the process, it removes some discretion from local education
authorities in determining what the goals and outcomes of education should be" (p.72). Fursarelli (2004) studied the potential impact of NCLB on minority groups and found that "the promise of NCLB to enhance equity and opportunity by reducing the achievement gap will likely remain unfulfilled due to insufficient funding and an overly simplistic definition of the achievement gap" (p. 71). Mathis (2003) carried similar sentiments in his study. Mathis (2003) found the following:

The primary promised benefit of NCLB is that $95 \%$ of all student groups will reach their state test standards by 2014. Obviously, we don't know if that goal can or will be reached. But if the system is not adequately funded, then reaping that benefit is a remote and forlorn hope (p. 683).

Fursarelli and Mathis both agreed that NCLB holds a negative outlook on student success based on funding issues; however, the American Federation of Teachers had a more optimistic approach to curving the complexities of NCLB. The American Teacher (2009) states the American Federation of Teachers plans to do the following:

Providing universal early childhood education, starting with low-income households; preparing young people for high-skill, high-demand "green jobs"; providing a boost to high-achieving students from low-income households; offering high-quality educational choices within the public school system; focusing intensely on improving low-performing schools; establishing community schools that serve the neediest children by bringing together services that they and their families need; ensuring that every school facility is a place where teachers can teach and students can learn; expanding teacher induction so that new teachers are not left to sink
or swim; creating an online teacher resource network with information on curriculum, lesson plans, and source documents to enhance teaching; and offering every student a well-rounded education that would stand in stark contrast to the "standardized test score competition" that has resulted from NCLB (p. 6).

## Summary

The purpose of this chapter was to provide a review of related literature and present other relevant studies that would support the directive of this study. This chapter provided information on previous studies that were conducted to focus on the advantages and disadvantages of school size and how it directly affects student achievement. The review of related literature offered substantial information that confirmed that there is no optimal school size; however, studies have been performed to determine where the enrollment parameters should be set to benefit student achievement in specific geographic areas of the nation. It also presented studies that have benefited student achievement based on the geographic areas' need, therefore, further presenting evidence that there is no universal remedy available to increase student achievement. Chapter 2 explained the findings of relevant research pertaining to large schools and small schools while focusing on the many different endeavors taking place across the country to improve student achievement.

## CHAPTER 3

METHODOLOGY

## Introduction

Chapter 3 provides an overview of the methodology utilized to study the differences in student achievement when elementary school size is a factor. The chapter includes the following sections: a) statement of the problem, b) population and sample, c) data collection, d) data analysis, and e) summary.

## Statement of the Problem

While there has been sufficient research on the effects of school size on student achievement and student personal growth, there is limited information, to date, regarding the effects of school size on student achievement in Florida public schools. This study attempted to determine if differences exists in student achievement at the elementary level when school size is a factor.

## Population and Sample

The population for this study consisted of the elementary schools in the state of Florida. The sample was comprised of three elementary schools from each of the sixtyseven school districts in the state of Florida. For the purpose of this study, the parameters that determined the size of the school were as follows:

- A school with 1-300 students was considered small.
- A school with 301 - 599 students was considered medium.
- A school with 600 or more students was considered large.

Based on the parameters, there were a total of 130 schools within the sample.

## Data Collection

The data collected for each school in the population included the number of students, the 2006-2007 FCAT Math scores for grades 3, 4, and 5, and the 2006 2007 FCAT Reading scores for grades 3, 4, and 5. At the time of this study, the 2007 2008 FCAT results were not available. All of the data used in this study was compiled from the Florida Indicator Reports generator and school accountability reports available on the Florida Department of Education website.

## Dependent and Independent Variables

The dependent variables for each of the tests were the percent of proficient mathematics scores and the percent of proficient reading scores for the third, fourth and fifth grade students. The independent variable was school size.

## Data Analysis

Analysis of the data was completed by the researcher. The findings are further discussed in Chapter 4.

In order to analyze the collected data, a one-way ANOVA statistical analysis was used to discover whether there was a difference in student achievement on the FCAT when school size is a factor.

## Research Question 1

Research Question 1 asked what differences, if any, exist in student achievement, based on the school-wide FCAT Math assessment at the elementary level, when school size is a factor. A one-way ANOVA test was performed to determine if a significant difference existed between student achievement and school size. The dependent variable was the percent proficient in math for the third, fourth, and fifth grades. The independent variable was school size.

## Research Question 2

Research Question 2 asked what differences, if any, exist in student achievement, based on the school-wide FCAT Reading assessment at the elementary level, when school size is a factor. A one-way ANOVA test was performed to determine if a significant difference existed between student achievement and school size. The dependent variable was the percent proficient in reading for the third, fourth, and fifth grades. The independent variable was school size.

Summary
Chapter 3 described the methodology and procedures used to analyze the difference in student achievement on the FCAT standardized tests when public elementary school size is a factor. Chapter 4 includes the data analysis and the presentation of results for this study.

## CHAPTER 4 <br> ANALYSIS OF DATA

## Introduction

This study investigated standardized test scores in mathematics and reading of students in grades 3,4 , and 5 , and public elementary school size in all 67 school districts in the state of Florida. The data was compiled from the Florida School Indicator Reports available at http://data.fldoe.org/fsir/. This chapter addresses the research questions and presents the statistical findings.

## Description of Population

The population for this study consisted of the elementary schools in the state of Florida. The sample was comprised of three elementary schools from each of the 67 school districts in the state of Florida. However, the parameters set for this study eliminated 71 schools based on data not being reported for the 2006-2007 school year and multiple schools falling into one or more parameter. In the event that a school district had two or more schools fall under one parameter, the median population was found. That school was chosen to represent the parameter for that school district. For the purpose of this study, the parameters that determined the size of the school were as follows:

- A school with 1-300 students was considered small.
- A school with 301 - 599 students was considered medium.
- A school with 600 or more students was considered large.

Based on the parameters, there were a total of 130 schools within the sample.

All of the data used in this study was compiled from the Florida Indicator Reports generator and school accountability reports available on the Florida Department of Education website.

Table 1
Elementary Schools Studied

| Group | District | School Name | Student |
| :---: | :---: | :---: | :---: |
|  |  |  | Membership |
| 1 | Alachua | Chester Shell Elementary | 245 |
| 1 | Bradford | Hampton Elementary | 191 |
| 1 | Brevard | Robert L. Stevenson Elem | 261 |
| 1 | Calhoun | Carr Elementary School | 197 |
| 1 | Dade | Liberty City Elementary | 264 |
| 1 | Duval | Arlington Elementary School | 293 |
| 1 | Escambia | George S. Hallmark Elementary | 260 |
| 1 | Franklin | H.G. Brown Elementary School | 224 |
| 1 | Gadsden | Gadsden Elementary School | 149 |
| 1 | Glades | West Glades Elementary | 254 |
| 1 | Hamilton | South Hamilton Elementary | 175 |
| 1 | Holmes | Poplar School | 165 |
| 1 | Walton | Bay Elementary | 274 |
| 1 | Volusia | Ortona Elementary | 277 |
| 1 | St. Lucie | Ft. Pierce Magnet | 290 |
| 1 | Sumter | North Sumter Intermediate | 252 |
| 1 | Putnam | William D. Moseley Elementary | 281 |
| 1 | Santa Rosa | Chumuckla Elementary | 267 |

Student

| Group | District | School Name | Membership |
| :---: | :---: | :---: | :---: |
| 1 | Orange | Hungerford Elementary | 232 |
| 1 | Pasco | DaySpring Academy | 261 |
| 1 | Pinellas | North Ward Elementary | 277 |
| 1 | Monroe | Sigsbee Elementary | 260 |
| 1 | Nassau | Bryceville Elementary | 282 |
| 1 | Okaloosa | Laurel Hill School | 218 |
| 1 | Levy | Yankeetown School | 221 |
| 1 | Liberty | Hosford Elementary Jr. High | 214 |
| 1 | Madison | Lee Elementary | 230 |
| 1 | Marion | Marion Charter | 191 |
| 1 | Lake | Altonna School | 103 |
| 1 | Lee | Ft. Myers Beach Elementary | 190 |
| 2 | Volusia | Bonner Elementary | 436 |
| 2 | Walton | Freeport Elementary | 558 |
| 2 | Washington | Vernon Elementary | 558 |
| 2 | St. Johns | Crookshank Elementary | 523 |
| 2 | St. Lucie | Parkway Elementary | 591 |
| 2 | Sumter | Lake Panasoffkee | 517 |
| 2 | Polk | Berkley Elementary | 572 |
| 2 | Putnam | James A. Long Elementary | 592 |

Student

| Group | District | School Name | Membership |
| :---: | :---: | :---: | :---: |
| 2 | Sarasota | Englewood Elementary | 451 |
| 2 | Seminole | Geneva Elementary | 502 |
| 2 | Orange | Aloma Elementary | 469 |
| 2 | Osceola | P.M. Wells Charter Academy | 486 |
| 2 | Palm Beach | Allamanda Elementary | 521 |
| 2 | Pasco | Trinity Oaks Elementary | 553 |
| 2 | Pinellas | Azalea Elementary | 599 |
| 2 | Martin | Hobe Sound Elementary | 592 |
| 2 | Nassau | Atlantic Elementary | 369 |
| 2 | Okaloosa | Annette P. Edwins Elementary | 435 |
| 2 | Levy | Williston Elementary | 498 |
| 2 | Liberty | W.R. Tolar K-8 | 434 |
| 2 | Manatee | Ballard Elementary | 530 |
| 2 | Marion | South Ocala Elementary | 546 |
| 2 | Lafayette | Lafayette Elementary | 554 |
| 2 | Lake | Eustis Elementary | 525 |
| 2 | Lee | Alva Elementary | 461 |
| 2 | Leon | Woodville Elementary | 475 |
| 2 | Alachua | Alachua Elementary | 429 |
| 2 | Baker | MacClenny Elementary | 511 |

Student

| Group | District | School Name | Membership |
| :--- | :--- | :--- | :--- |
| 2 | Bradford | Lawtey Community School | 308 |
| 2 | Brevard | Coquina Elementary | 449 |
| 2 | Broward | Dania Elementary School | 555 |
| 2 | Charlotte | Peace River Elementary School | 539 |
| 2 | Citrus | Homosassa Elementary School | 366 |
| 2 | Clay | Clay Hill Elementary School | 496 |
| 2 | Collier | Avalon Elementary School | 562 |
| 2 | Columbia | Niblack Elementary School | 339 |
| 2 | Dixie | James M. Anderson Elementary | 579 |
| 2 | Escambia | Allie Yniestra Elementary School | 441 |
| 2 | Gadsden | Greensboro Elementary School | 435 |
| 2 | Glades | Moore Haven Elementary School | 440 |
| 2 | Hamilton | Central Hamilton Elementary | 546 |
| 2 | Hardee | Wauchula Elementary | 582 |
| 2 | Hendry | Eastside Elementary | 596 |
| 2 | Holmesborough | Broward Elementary | Ponce De Leon Elementary |

Student

| Group | District | School Name | Membership |
| :---: | :---: | :---: | :---: |
| 2 | Gulf | Port St. Joe Elementary | 525 |
| 2 | Jackson | Sneads Elementary | 541 |
| 3 | Alachua | C.W. Norton Elementary | 703 |
| 3 | Baker | J Franklyn Keller Elementary | 693 |
| 3 | Bay | Patronis Elementary | 916 |
| 3 | Bradford | Southside Elementary | 620 |
| 3 | Brevard | Discovery Elementary | 960 |
| 3 | Broward | Challenger Elementary School | 1221 |
| 3 | Calhoun | Blountstown Elementary School | 630 |
| 3 | Charlotte | Vineland Elementary School | 910 |
| 3 | Citrus | Citrus Springs Elementary School | 958 |
| 3 | Clay | Lake Asbury Elementary School | 1384 |
| 3 | Collier | Laurel Oak Elementary School | 1196 |
| 3 | Columbia | Summers Elementary School | 877 |
| 3 | DeSoto | Memorial Elementary School | 939 |
| 3 | Duval | Sabal Palm Elementary School | 1259 |
| 3 | Escambia | Hellen Caro Elementary School | 858 |
| 3 | Flagler | Belle Terre Elementary School | 1383 |
|  |  | George W. Munroe Elementary |  |
| 3 | Gadsden | School | 815 |

Student

| Group | District | School Name | Membership |
| :--- | :--- | :--- | :--- |
| 3 | Hendry | Country Oaks Elementary | 825 |
| 3 | Hernando | John D. Floyd Elementary | 1483 |
| 3 | Highlands | Sun 'N Lake Elementary | 885 |
| 3 | Hillsborough | Boyette Springs Elementary | 1062 |
| 3 | Holmes | Bonifay Elementary | 690 |
| 3 | Indian River | Glendale Elementary | 626 |
| 3 | Volusia | Deltona Lakes Elementary | 1013 |
| 3 | Wakulla | Crawfordville Elementary | 827 |
| 3 | Walton | Maude Saunders Elementary | 748 |
| 3 | Washington | Kate M. Smith Elementary | 851 |
| 3 | St. Johns | Mill Creek Elementary | 1319 |
| 3 | St. Lucie | Rivers Edge Elementary | 857 |
| 3 | Sumter | Bushnell Elementary | 789 |
| 3 | Suwannee | Suwannee Elementary | 699 |
| 3 | Taylor | Taylor County Elementary | 683 |
| 3 | Polk | Alta Vista Elementary | 951 |
| 3 | Sarasota Rosa | Berryhill Elementary | Ashton Elementary |

Student

| Group | District | School Name | Membership |
| :---: | :---: | :---: | :---: |
| 3 | Palm Beach | Binks Forest Elementary | 1178 |
| 3 | Pasco | Sand Pine Elementary | 1034 |
| 3 | Pinellas | Cypress Woods Elementary | 750 |
| 3 | Martin | Palm City Elementary | 900 |
| 3 | Nassau | Hilliard Elementary | 732 |
| 3 | Okaloosa | Antioch Elementary | 866 |
| 3 | Okeechobee | Everglades Elementary | 707 |
| 3 | Levy | Chiefland Elementary | 829 |
| 3 | Madison | Madison County Central School | 820 |
| 3 | Manatee | Freedom Elementary | 766 |
| 3 | Marion | Maplewood Elementary | 875 |
| 3 | Jefferson | Jefferson County Elementary | 654 |
| 3 | Lake | Lost Lake Elementary | 1463 |
| 3 | Lee | Gulf Elementary | 1359 |
| 3 | Leon | Gilchrist Elementary | 917 |
| 3 | Dade | Ernest R Graham Elementary | 2176 |
| 3 | Union | Lake Butler Elementary School | 955 |

## Research Question 1

What differences, if any, exist in student achievement, based on the school-wide FCAT Math at the elementary level, when school size is a factor?

Descriptive statistics for the population from the third, fourth, and fifth grade FCAT Math results, including comparative means and standard deviations, are depicted in Table 2. The groups are denoted as followed:

- Group 1 - small schools with a population of 1 - 300 students.
- Group 2 - medium schools with a population of 301 - 599 students.
- Group 3 - large schools with a population of 600 or more students.

The descriptive statistics show that large schools performed the highest throughout the state of Florida on FCAT Math, followed by medium schools and then by small schools. Based on the One-Way ANOVA test, there was no statistically significant difference found $\left(F_{(2,127)}=3.014 p>.05\right)$.

Table 2
Descriptive Statistics of FCAT Math Proficiency Based on School Size

| Group | Mean | Standard Deviation | N |
| :--- | :--- | :--- | :--- |
| Small Schools (1) | .6342 | .15224 | 29 |
| Medium Schools (2) | .6380 | .13139 | 50 |
| Large Schools (3) | .6969 | .13293 | 51 |
| Total | .6603 | .13897 | 130 |

## Research Question 2

What differences, if any, exist in student achievement, based on the school-wide FCAT Reading at the elementary level, when school size is a factor?

Descriptive statistics for the population from the third, fourth, and fifth grade FCAT Reading results, including comparative means and standard deviations, are depicted in Table 3. The groups are denoted as followed:

- Group 1 - small schools with a population of 1 - 300 students.
- Group 2 - medium schools with a population of 301 - 599 students.
- Group 3 - large schools with a population of 600 or more students.

The descriptive statistics indicate that large schools performed the highest throughout the state of Florida on FCAT Reading, followed by small schools and then by medium schools. Based on the One-Way ANOVA test, a statistically significant difference was found $\left(F_{(2,127)}=4.539 p<.05\right) .6 .7 \%$ of variability is explained by school size, but not enough to explain how much of a factor school size is to student
achievement. A Post Hoc test was performed to determine where the significance lay. Due to having uneven group sizes, the Scheffe test was performed to determine where the significance lay. The Scheffe test concluded that the significance lay between medium and large schools. Based upon the Scheffe post hoc analysis, large schools scored significantly better than medium schools. This difference contributed to the significant results of the one way ANOVA.

Table 3
Descriptive Statistics of FCAT Reading Proficiency Based on School Size

| Group | Mean | Standard Deviation | N |
| :--- | :--- | :--- | :--- |
| Small Schools (1) | .6972 | .13970 | 29 |
| Medium Schools (2) | .6656 | .10886 | 50 |
| Large Schools (3) | .7372 | .11739 | 51 |
| Total | .7008 | .12282 | 130 |

## Summary

Chapter 4 presented an analysis of data collected that framed the course of this study. Chapter 5 provides a summary and discussion of the results, conclusions, implementations and recommendations for practice, and recommendations for future research.

# CHAPTER 5 <br> SUMMARY AND RECOMMENDATIONS <br> Introduction 

This chapter presents a review of the problem statement, methodology, and data analysis for the study on school size and student achievement of elementary school students on the FCAT Reading and FCAT Math standardized tests. Chapter 5 also provides a summary, conclusion and recommendations that were derived from the data analysis.

## Statement of Problem

While there has been sufficient research on the effects of school size on student achievement and student personal growth, there is limited information, to date, regarding the effects of school size on student achievement in Florida public schools. This study attempted to determine if differences exists in student achievement at the elementary level when school size is a factor.

## Methodology

## Population

The population for this study consisted of the elementary schools in the state of Florida. The sample was comprised of three elementary schools from each of the 67 school districts in the state of Florida.

## Data Collection

For the purpose of this study, the parameters that determined the size of the school were as follows:

- A school with 1-300 students was considered small.
- A school with 301 - 599 students was considered medium.
- A school with 600 or more students was considered large.

Based on the parameters, there were a total of 130 schools within the sample.
All of the data used in this study was compiled from the Florida Indicator Reports generator and school accountability reports available on the Florida Department of Education website.

## Data Analysis

Analysis of the data was completed by the researcher. In order to analyze the collected data, a one-way ANOVA statistical analysis was used to discover whether there was a difference in student achievement on the FCAT when school size is a factor.

## Summary and Discussion of Findings

Two research questions guided the course of this study. The following section discusses the results and data analysis for each question.

## Research Question 1

What differences, if any, exist in student achievement, based on the school-wide FCAT Math at the elementary level, when school size is a factor?

Based on the results of the one-way ANOVA test, large schools had a higher percentage of proficiency among its students $(\mu=.6969)$ than both medium ( $\mu=.6380$ ) and small schools ( $\mu=.6342$ ). However, there was no statistically significant difference in any of the math analyses.

## Research Question 2

What differences, if any, exist in student achievement, based on the school-wide FCAT Reading at the elementary level, when school size is a factor?

Based on the results of the one-way ANOVA test, large schools had a higher percentage of proficiency among its students ( $\mu=.7372$ ) than both small schools ( $\mu=$ .6973 ) and medium schools ( $\mu=.6656$ ). The findings of this study showed that all reading analyses were significant. The size of a school is a potential factor in explaining the differences in mean FCAT proficiency rates. Based on the Scheffe Post Hoc Tests, differences were significant only between medium and large schools, however, not between small and medium schools or small and large schools.

## Conclusion

The study has indicated that school size is not a factor that contributes to the differences in proficiency rate of public elementary school students on FCAT Math in the third, fourth, and fifth grades. Findings in this study suggest that for undetermined reasons, elementary school students in large schools performed better on FCAT Reading than students in small schools and medium schools.

There are multiple factors that could contribute to the findings of this study. Resources, such as advanced technology and the availability of Reading Coaches, are
elements that could have contributed to there being a statistically significant difference between medium schools and large schools on FCAT Reading. In compliance to the No Child Left Behind Act (NCLB), school choice is an aspect to take into consideration when examining student achievement when school size is a factor. Through NCLB, parents have the right to send their children to better performing schools, which possible creates an adverse affect on underperforming schools' population and FCAT scores. Additional facets to take into consideration when examining student achievement when school size is a factor are student to teacher ratios and the variety of programs offered at the various schools.

## Recommendations for Practice

The findings of this study can be used as a catalyst for school size reform in the state of Florida. Based on this study, it is clear that schools that are considered large are more effective in reading performance. Although this study displayed results that show evidence of no statistical significant difference in mathematics achievement, research has shown that small schools offer "fewer discipline problems, lower dropout rates, higher levels of student participation, steadier progress toward graduation and more learning" (Raywid, 1997). The research strongly suggests that there are underlying factors that should be investigated to find out what is causing the ambiguity of the results of this study. The following are recommendations for practice:

1. Focus on which practices in large schools which can further benefit small and medium schools in reading achievement.
2. Have political decision makers and education leaders use this information to discuss the importance of school size and student achievement, while focusing on how to improve mathematics achievement.

## Recommendations for Future Research

"From reviewing the literature, it appears that there is not an ideal or optimal district or school size that is universally agreed upon" (Bard et al, 2006). Based on the analysis of the data within this study the following recommendations for future research include:

1. As research supports the effects of small schools, more conclusive research should be performed to settle discrepancies between appropriate school size parameters before new laws are presented for discussion.
2. An expansion of this study would examine school size and student achievement in the state of Florida over the course of five to seven years to observe whether there is a change in the level of significance of each variable.
3. Further interest could be found in determining what factors are to be considered in determining why the FCAT Reading results differ from the FCAT Math results among the different size schools.
4. Further investigation of this study would allow for researchers to determine the factors that allowed for larger schools to perform better on FCAT Reading.
5. A study can be developed to determine why there was no statistically significant difference between the small, medium, and large schools in FCAT Math student achievement.
6. Future studies could include controlling school location (urban, suburban, and rural) throughout the state of Florida as an additional independent variable.
7. Develop future studies that analyze additional variables that could help provide more detailed information on precisely how school size affects student achievement specifically in the state of Florida (i.e. school location, school programs, school resources, socio-economic status, etc).
8. An expansion of this study would examine school size and student achievement in the state of Florida for various student populations (i.e., White, Black, Hispanic, SES, ESE).
9. Another expansion of this study would include examining the difference between the delivery systems in small schools, medium schools, and large schools.

Law makers should be "cautious about making broad policy decisions about school size" (Lashway, 1999). As other studies are developed, specifically for the state of Florida, and analyzed, state law makers will be able to create legislation that will benefit student achievement while also putting limitations on school size.

## APPENDIX A <br> MAP OF FLORIDA SCHOOL DISTRICTS



Figure 2: Map of Florida School Districts

## APPENDIX B

FCAT READING DATA FOR GRADE 3

Table 4
FCAT Reading data for Grade 3

| District | School Name - Group 1 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT <br> Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT <br> Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alachua | Chester Shell Elementary | 29 | 21 | 0 | 9.86 | 7.14 | 0 |
| Bradford | Hampton Elementary | 54 | 25 | 0 | 12.96 | 6 | 0 |
| Brevard | Robert L. Stevenson Elem | 14 | 48 | 36 | 6.16 | 21.12 | 15.84 |
| Calhoun | Carr Elementary School | 35 | 42 | 8 | 9.1 | 10.92 | 2.08 |
| Dade | Liberty City Elementary | 25 | 7 | 0 | 11 | 3.08 | 0 |
| Duval | Arlington Elementary School | 23 | 17 | 2 | 11.04 | 8.16 | 0.96 |
| Escambia | George S. Hallmark Elem | 50 | 21 | 0 | 12 | 5.04 | 0 |
| Franklin | H.G. Brown Elementary School | 37 | 29 | 0 | 12.95 | 10.15 | 0 |
| Gadsden | Gadsden Elementary School | 28 | 33 | 6 | 5.04 | 5.94 | 1.08 |
| Glades | West Glades Elementary | 51 | 21 | 0 | 27.03 | 11.13 | 0 |


| District | School Name- Group 1 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT <br> Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT <br> Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hamilton | South Hamilton Elementary | 41 | 32 | 5 | 9.02 | 7.04 | 1.1 |
| Holmes | Poplar School | 32 | 24 | 12 | 8 | 6 | 3 |
| Walton | Bay Elementary | 30 | 35 | 16 | 11.1 | 12.95 | 5.92 |
| Volusia | Ortona Elementary | 36 | 22 | 6 | 18 | 11 | 3 |
| St. Lucie | Ft. Pierce Magnet | 32 | 34 | 2 | 16 | 17 | 1 |
| Sumter | North Sumter Intermediate |  |  |  |  |  |  |
| Santa Rosa | Chumuckla Elementary | 32 | 37 | 12 | 13.12 | 15.17 | 4.92 |
| Sarasota | Sarasota Suncost Academy | 38 | 36 | 18 | 14.82 | 14.04 | 7.02 |
| Orange | Hungerford Elementary | 35 | 12 | 0 | 11.9 | 4.08 | 0 |
| Pasco | DaySpring Academy | 51 | 21 | 7 | 21.93 | 9.03 | 3.01 |
| Pinellas | North Ward Elementary | 52 | 19 | 5 | 21.84 | 7.98 | 2.1 |
| Monroe | Sigsbee Elementary | 37 | 24 | 5 | 14.06 | 9.12 | 1.9 |


| District | School Name- Group 1 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT <br> Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nassau | Bryceville Elementary | 41 | 39 | 7 | 18.04 | 17.16 | 3.08 |
| Okaloosa | Laurel Hill School | 67 | 24 | 0 | 14.07 | 5.04 | 0 |
| Levy | Yankeetown School | 48 | 23 | 5 | 19.2 | 9.2 | 2 |
| Liberty | Hosford Elementary Jr. High | 33 | 30 | 12 | 10.89 | 9.9 | 3.96 |
| Madison | Lee Elementary | 33 | 31 | 8 | 11.88 | 11.16 | 2.88 |
| Marion | Marion Charter | 37 | 17 | 0 | 12.95 | 5.95 | 0 |
| Lake | Altonna School | 30 | 30 | 0 | 3 | 3 | 0 |
| Lee | Ft. Myers Beach Elementary | 19 | 55 | 13 | 5.89 | 17.05 | 4.03 |


| District | School Name - Group 2 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT <br> Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT <br> Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Volusia | Bonner Elementary | 25 | 12 | 0 | 15 | 7.2 | 0 |
| Walton | Freeport Elementary | 32 | 26 | 8 | 26.88 | 21.84 | 6.72 |
| Washington | Vernon Elementary | 35 | 24 | 5 | 41.3 | 28.32 | 5.9 |
| St. Johns | Crookshank Elementary | 42 | 18 | 3 | 28.14 | 12.06 | 2.01 |
| St. Lucie | Parkway Elementary | 47 | 13 | 2 | 58.75 | 16.25 | 2.5 |
| Sumter | Lake Panasoffkee | 31 | 43 | 10 | 23.87 | 33.11 | 7.7 |
| Putnam | James A. Long Elementary | 41 | 25 | 4 | 28.29 | 17.25 | 2.76 |
| Santa Rosa | Bagdad Elementary | 32 | 43 | 7 | 22.08 | 29.67 | 4.83 |
| Sarasota | Englewood Elementary | 34 | 34 | 9 | 25.16 | 25.16 | 6.66 |
| Seminole | Geneva Elementary | 30 | 33 | 8 | 24.9 | 27.39 | 6.64 |
| Orange | Aloma Elementary | 36 | 27 | 4 | 29.88 | 22.41 | 3.32 |
| Osceola | P.M. Wells Charter Academy | 38 | 22 | 8 | 27.74 | 16.06 | 5.84 |


| District | School Name - Group 2 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT <br> Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Palm Beach | Allamanda Elementary | 44 | 26 | 6 | 33.88 | 20.02 | 4.62 |
| Pasco | Trinity Oaks Elementary | 34 | 36 | 10 | 31.96 | 33.84 | 9.4 |
| Pinellas | Azalea Elementary | 33 | 25 | 8 | 35.31 | 26.75 | 8.56 |
| Martin | Hobe Sound Elementary | 41 | 26 | 9 | 36.9 | 23.4 | 8.1 |
| Nassau | Atlantic Elementary | 31 | 38 | 13 | 59.21 | 72.58 | 24.83 |
| Okaloosa | Annette P. Edwins Elementary | 39 | 25 | 9 | 26.91 | 17.25 | 6.21 |
| Levy | Williston Elementary | 30 | 30 | 6 | 48 | 48 | 9.6 |
| Liberty | W.R. Tolar K-8 | 30 | 30 | 8 | 19.2 | 19.2 | 5.12 |
| Manatee | Ballard Elementary | 31 | 17 | 1 | 26.04 | 14.28 | 0.84 |
| Marion | South Ocala Elementary | 24 | 43 | 4 | 27.36 | 49.02 | 4.56 |
| Lafayette | Lafayette Elementary | 33 | 27 | 8 | 29.7 | 24.3 | 7.2 |
| Lake | Eustis Elementary | 29 | 30 | 19 | 22.91 | 23.7 | 15.01 |


| District | School Name - Group 2 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT <br> Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT <br> Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lee | Alva Elementary | 33 | 30 | 9 | 28.38 | 25.8 | 7.74 |
| Leon | Woodville Elementary | 32 | 32 | 3 | 20.8 | 20.8 | 1.95 |
| Baker | MacClenny Elementary | 36 | 38 | 5 | 51.84 | 54.72 | 7.2 |
| Bay | Lucille Moore Elementary | 36 | 21 | 8 | 28.8 | 16.8 | 6.4 |
| Bradford | Lawtey Community School | 44 | 26 | 8 | 17.16 | 10.14 | 3.12 |
| Brevard | Coquina Elementary | 42 | 28 | 10 | 25.2 | 16.8 | 6 |
| Broward | Dania Elementary School | 38 | 22 | 3 | 37.24 | 21.56 | 2.94 |
| Charlotte | Peace River Elementary | 36 | 28 | 12 | 28.08 | 21.84 | 9.36 |
| Citrus | Homosassa Elementary School | 44 | 25 | 13 | 24.2 | 13.75 | 7.15 |
| Clay | Clay Hill Elementary School | 42 | 34 | 4 | 33.18 | 26.86 | 3.16 |
| Collier | Avalon Elementary School | 32 | 9 | 0 | 23.68 | 6.66 | 0 |


| District | School Name - Group 2 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT <br> Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT <br> Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Columbia | Niblack Elementary School | 43 | 5 | 3 | 15.91 | 1.85 | 1.11 |
| Dixie | James M. Anderson Elem. | 45 | 28 | 8 | 33.75 | 21 | 6 |
| Duval | Arlington Heights Elem. | 31 | 15 | 2 | 33.48 | 16.2 | 2.16 |
| Escambia | Allie Yniestra Elem. | 39 | 10 | 0 | 23.01 | 5.9 | 0 |
| Gadsden | Greensboro Elementary School | 37 | 3 | 2 | 22.2 | 1.8 | 1.2 |
| Glades | Moore Haven Elementary | 52 | 28 | 3 | 31.72 | 17.08 | 1.83 |
| Hamilton | Central Hamilton Elementary | 29 | 11 | 0 | 22.04 | 8.36 | 0 |
| Hardee | Wauchula Elementary | 42 | 29 | 6 | 43.68 | 30.16 | 6.24 |
| Hendry | Eastside Elementary | 39 | 17 | 2 | 47.97 | 20.91 | 2.46 |
| Highlands | Lake Country Elementary | 43 | 15 | 3 | 43.86 | 15.3 | 3.06 |


| District | School Name - Group 2 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT <br> Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hillsborough | Broward Elementary | 34 | 16 | 4 | 28.22 | 13.28 | 3.32 |
| Indian River | Thompson Elementary | 38 | 18 | 0 | 27.74 | 13.14 | 0 |
| Dade | Lakeview Elementary | 42 | 32 | 2 | 37.8 | 28.8 | 1.8 |
| Gulf | Port St. Joe Elementary | 35 | 25 | 9 | 23.8 | 17 | 6.12 |
| Jackson | Sneads Elementary | 37 | 33 | 13 | 31.08 | 27.72 | 10.92 |


| District | School Name - Group 3 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT <br> Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT <br> Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alachua | C.W. Norton Elementary | 42 | 28 | 11 | 43.68 | 29.12 | 11.44 |
| Baker | J Franklyn Keller Elementary |  |  |  |  |  |  |
| Bay | Patronis Elementary | 32 | 31 | 25 | 43.2 | 41.85 | 33.75 |
| Bradford | Southside Elementary | 35 | 22 | 5 | 33.25 | 20.9 | 4.75 |
| Brevard | Discovery Elementary | 34 | 36 | 5 | 44.54 | 47.16 | 6.55 |
| Broward | Challenger Elementary School | 31 | 35 | 7 | 72.85 | 82.25 | 16.45 |
| Calhoun | Blountstown Elementary | 35 | 30 | 10 | 36.05 | 30.9 | 10.3 |
| Charlotte | Vineland Elementary School | 37 | 39 | 7 | 49.58 | 52.26 | 9.38 |
| Citrus | Citrus Springs Elem. | 34 | 40 | 13 | 51.68 | 60.8 | 19.76 |
| Clay | Lake Asbury Elementary | 41 | 38 | 6 | 80.77 | 74.86 | 11.82 |
| Collier | Laurel Oak Elementary School | 33 | 35 | 9 | 69.96 | 74.2 | 19.08 |


| District | School Name - Group 3 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT <br> Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT <br> Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Columbia | Summers Elementary School | 36 | 32 | 6 | 45 | 40 | 7.5 |
| DeSoto | Memorial Elementary School | 31 | 22 | 3 | 45.57 | 32.34 | 4.41 |
| Duval | Sabal Palm Elementary School | 36 | 40 | 6 | 78.48 | 87.2 | 13.08 |
| Escambia | Hellen Caro Elementary School | 34 | 38 | 13 | 42.5 | 47.5 | 16.25 |
| Flagler | Belle Terre Elementary School | 36 | 29 | 13 | 80.28 | 64.67 | 28.99 |
| Gilchrist | Trenton Elementary School | 28 | 40 | 4 | 29.12 | 41.6 | 4.16 |
| Hendry | Country Oaks Elementary | 39 | 17 | 2 | 47.97 | 20.91 | 2.46 |
| Hernando | John D. Floyd Elementary | 40 | 31 | 7 | 84 | 65.1 | 14.7 |
| Highlands | Sun 'N Lake Elementary | 33 | 20 | 10 | 45.21 | 27.4 | 13.7 |
| Hillsborough | Boyette Springs Elementary | 35 | 32 | 9 | 71.75 | 65.6 | 18.45 |
| Holmes | Bonifay Elementary | 36 | 37 | 3 | 43.2 | 44.4 | 3.6 |
| Indian River | Glendale Elementary | 35 | 33 | 11 | 40.25 | 37.95 | 12.65 |


| District | School Name - Group 3 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT <br> Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT <br> Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Volusia | Deltona Lakes Elementary | 35 | 30 | 4 | 55.3 | 47.4 | 6.32 |
| Wakulla | Crawfordville Elementary | 28 | 41 | 9 | 38.36 | 56.17 | 12.33 |
| Walton | Maude Saunders Elementary | 44 | 25 | 3 | 49.28 | 28 | 3.36 |
| Washington | Kate M. Smith Elementary | 40 | 32 | 9 | 63.2 | 50.56 | 14.22 |
| St. Johns | Mill Creek Elementary | 34 | 34 | 12 | 73.78 | 73.78 | 26.04 |
| St. Lucie | Rivers Edge Elementary | 33 | 32 | 13 | 45.87 | 44.48 | 18.07 |
| Sumter | Bushnell Elementary | 41 | 25 | 9 | 46.74 | 28.5 | 10.26 |
| Suwannee | Suwannee Elementary | 29 | 30 | 9 | 98.89 | 102.3 | 30.69 |
| Taylor | Taylor County Elementary | 47 | 25 | 6 | 111.86 | 59.5 | 14.28 |
| Polk | Alta Vista Elementary | 35 | 7 | 1 | 52.5 | 10.5 | 1.5 |
| Putnam | Interlachen Elementary | 37 | 32 | 7 | 41.81 | 36.16 | 7.91 |
| Santa Rosa | Berryhill Elementary | 31 | 40 | 15 | 50.22 | 64.8 | 24.3 |


| District | School Name - Group 3 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sarasota | Ashton Elementary | 35 | 38 | 17 | 59.15 | 64.22 | 28.73 |
| Orange | Palmetto Elementary | 24 | 13 | 3 | 53.28 | 28.86 | 6.66 |
| Palm Beach | Binks Forest Elementary | 20 | 49 | 20 | 41.4 | 101.43 | 41.4 |
| Pasco | Sand Pine Elementary | 34 | 43 | 5 | 56.78 | 71.81 | 8.35 |
| Pinellas | Cypress Woods Elementary | 33 | 41 | 16 | 40.26 | 50.02 | 19.52 |
| Martin | Palm City Elementary | 25 | 47 | 20 | 39.75 | 74.73 | 31.8 |
| Nassau | Hilliard Elementary | 39 | 36 | 8 | 50.7 | 46.8 | 10.4 |
| Okaloosa | Antioch Elementary | 30 | 43 | 14 | 39.6 | 56.76 | 18.48 |
| Okeechobee | Everglades Elementary | 35 | 20 | 5 | 42 | 24 | 6 |
| Levy | Chiefland Elementary | 38 | 16 | 9 | 48.64 | 20.48 | 11.52 |
| Madison | Madison County Central | 37 | 16 | 1 | 44.03 | 19.04 | 1.19 |


| District | School Name- Group 3 | FCAT Reading 3rd grade Percent Level 3 | FCAT <br> Reading 3rd grade Percent Level 4 | FCAT <br> Reading 3rd grade Percent Level 5 | Total \# of students FCAT <br> Read3 L3 | Total \# of students FCAT <br> Read3 L4 | Total \# of students FCAT Read3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Manatee | Freedom Elementary | 35 | 29 | 6 | 40.25 | 33.35 | 6.9 |
| Marion | Maplewood Elementary | 43 | 20 | 3 | 49.02 | 22.8 | 3.42 |
| Jefferson | Jefferson County Elementary | 41 | 19 | 5 | 37.31 | 17.29 | 4.55 |
| Lake | Lost Lake Elementary | 30 | 40 | 14 | 74.1 | 98.8 | 34.58 |
| Lee | Gulf Elementary | 38 | 40 | 9 | 90.06 | 94.8 | 21.33 |
| Leon | Gilchrist Elementary | 20 | 46 | 23 | 28.6 | 65.78 | 32.89 |
| Dade | Ernest R Graham Elementary | 40 | 31 | 3 | 120.4 | 93.31 | 9.03 |
| Union | Lake Butler Elementary School | 41 | 35 | 7 | 67.24 | 57.4 | 11.48 |

## APPENDIX C

FCAT READING DATA FOR GRADE 4

Table 5
FCAT Reading data for Grade 4

| District | School Name - Group 1 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT <br> Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT <br> Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alachua | Chester Shell Elementary | 36 | 19 | 3 | 12.96 | 6.84 | 1.08 |
| Bradford | Hampton Elementary | 50 | 21 | 0 | 12 | 5.04 | 0 |
| Brevard | Robert L. Stevenson Elem | 17 | 38 | 44 | 11.22 | 25.08 | 29.04 |
| Calhoun | Carr Elementary School | 34 | 37 | 18 | 12.92 | 14.06 | 6.84 |
| Dade | Liberty City Elementary | 43 | 15 | 3 | 17.2 | 6 | 1.2 |
| Duval | Arlington Elementary School | 33 | 16 | 6 | 16.83 | 8.16 | 3.06 |
| Escambia | George S. Hallmark Elem | 22 | 16 | 0 | 9.9 | 7.2 | 0 |
| Franklin | H.G. Brown Elementary | 47 | 18 | 0 | 7.99 | 3.06 | 0 |
| Gadsden | Gadsden Elementary School | 29 | 41 | 12 | 4.93 | 6.97 | 2.04 |
| Glades | West Glades Elementary | 21 | 28 | 5 | 9.03 | 12.04 | 2.15 |


| District | School Name - Group 1 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT <br> Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT <br> Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hamilton | South Hamilton Elementary | 40 | 28 | 0 | 10 | 7 | 0 |
| Holmes | Poplar School | 41 | 18 | 5 | 9.02 | 3.96 | 1.1 |
| Walton | Bay Elementary | 24 | 49 | 12 | 9.84 | 20.09 | 4.92 |
| Volusia | Ortona Elementary | 33 | 30 | 7 | 15.18 | 13.8 | 3.22 |
| St. Lucie | Ft. Pierce Magnet | 33 | 29 | 6 | 16.17 | 14.21 | 2.94 |
| Sumter | North Sumter Intermediate | 38 | 16 | 5 | 48.64 | 20.48 | 6.4 |
| Santa Rosa | Chumuckla Elementary | 30 | 42 | 9 | 9.9 | 13.86 | 2.97 |
| Sarasota | Sarasota Suncost Academy | 30 | 50 | 5 | 6 | 10 | 1 |
| Orange | Hungerford Elementary | 28 | 15 | 0 | 10.92 | 5.85 | 0 |
| Pasco | DaySpring Academy | 40 | 38 | 4 | 19.2 | 18.24 | 1.92 |
| Pinellas | North Ward Elementary | 35 | 35 | 0 | 15.05 | 15.05 | 0 |
| Monroe | Sigsbee Elementary | 37 | 37 | 6 | 12.95 | 12.95 | 2.1 |


| District | School Name - Group 1 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT <br> Read4 L3 | Total \# of students FCAT Read4 L4 | Total \# of students FCAT Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nassau | Bryceville Elementary | 32 | 45 | 8 | 12.16 | 17.1 | 3.04 |
| Okaloosa | Laurel Hill School | 46 | 23 | 8 | 17.94 | 8.97 | 3.12 |
| Levy | Yankeetown School | 32 | 11 | 7 | 8.96 | 3.08 | 1.96 |
| Liberty | Hosford Elementary Jr. High | 40 | 37 | 3 | 12 | 11.1 | 0.9 |
| Madison | Lee Elementary | 51 | 34 | 6 | 17.85 | 11.9 | 2.1 |
| Marion | Marion Charter | 30 | 15 | 9 | 9.9 | 4.95 | 2.97 |
| Lake | Altonna School | 27 | 18 | 14 | 5.94 | 3.96 | 3.08 |
| Lee | Ft. Myers Beach Elementary | 22 | 46 | 24 | 8.14 | 17.02 | 8.88 |


| District | School Name - Group 2 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT <br> Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Volusia | Bonner Elementary | 32 | 13 | 0 | 19.2 | 7.8 | 0 |
| Walton | Freeport Elementary | 35 | 31 | 4 | 35 | 31 | 4 |
| Washington | Vernon Elementary | 36 | 22 | 6 | 37.08 | 22.66 | 6.18 |
| St. Johns | Crookshank Elementary | 45 | 14 | 4 | 34.65 | 10.78 | 3.08 |
| St. Lucie | Parkway Elementary | 46 | 13 | 0 | 40.02 | 11.31 | 0 |
| Sumter | Lake Panasoffkee | 31 | 30 | 6 | 26.04 | 25.2 | 5.04 |
| Putnam | James A. Long Elementary | 40 | 10 | 1 | 30.8 | 7.7 | 0.77 |
| Santa Rosa | Bagdad Elementary | 35 | 32 | 10 | 26.95 | 24.64 | 7.7 |
| Sarasota | Englewood Elementary | 27 | 35 | 14 | 19.17 | 24.85 | 9.94 |
| Seminole | Geneva Elementary | 37 | 32 | 7 | 41.07 | 35.52 | 7.77 |
| Orange | Aloma Elementary | 42 | 23 | 8 | 29.82 | 16.33 | 5.68 |
| Osceola | P.M. Wells Charter Academy | 41 | 19 | 1 | 28.7 | 13.3 | 0.7 |


| District | School Name - Group 2 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Palm Beach | Allamanda Elementary | 34 | 25 | 16 | 23.12 | 17 | 10.88 |
| Pasco | Trinity Oaks Elementary | 31 | 40 | 5 | 28.21 | 36.4 | 4.55 |
| Pinellas | Azalea Elementary | 28 | 29 | 3 | 28 | 29 | 3 |
| Martin | Hobe Sound Elementary | 35 | 35 | 13 | 34.65 | 34.65 | 12.87 |
| Nassau | Atlantic Elementary |  |  |  |  |  |  |
| Okaloosa | Annette P. Edwins Elem | 35 | 37 | 7 | 24.85 | 26.27 | 4.97 |
| Levy | Williston Elementary | 27 | 28 | 8 | 46.71 | 48.44 | 13.84 |
| Liberty | W.R. Tolar K-8 | 37 | 21 | 4 | 24.79 | 14.07 | 2.68 |
| Manatee | Ballard Elementary | 34 | 19 | 4 | 32.64 | 18.24 | 3.84 |
| Marion | South Ocala Elementary | 21 | 41 | 17 | 17.01 | 33.21 | 13.77 |
| Lafayette | Lafayette Elementary | 38 | 23 | 6 | 34.2 | 20.7 | 5.4 |
| Lake | Eustis Elementary | 37 | 26 | 4 | 31.08 | 21.84 | 3.36 |


| District | School Name - Group 2 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT <br> Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lee | Alva Elementary | 34 | 23 | 12 | 27.88 | 18.86 | 9.84 |
| Leon | Woodville Elementary | 27 | 21 | 5 | 17.01 | 13.23 | 3.15 |
| Baker | MacClenny Elementary |  |  |  |  |  |  |
| Bay | Lucille Moore Elementary | 29 | 31 | 6 | 22.62 | 24.18 | 4.68 |
| Bradford | Lawtey Community School | 33 | 29 | 8 | 16.83 | 14.79 | 4.08 |
| Brevard | Coquina Elementary | 39 | 29 | 4 | 19.11 | 14.21 | 1.96 |
| Broward | Dania Elementary School | 28 | 24 | 3 | 21.28 | 18.24 | 2.28 |
| Charlotte | Peace River Elementary | 41 | 20 | 5 | 31.16 | 15.2 | 3.8 |
| Citrus | Homosassa Elementary | 30 | 48 | 15 | 12 | 19.2 | 6 |
| Clay | Clay Hill Elementary School | 48 | 33 | 5 | 35.04 | 24.09 | 3.65 |
| Collier | Avalon Elementary School | 34 | 16 | 3 | 26.18 | 12.32 | 2.31 |


| District | School Name - Group 2 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Columbia | Niblack Elementary School | 41 | 11 | 0 | 15.17 | 4.07 | 0 |
| Dixie | James M. Anderson Elem. | 35 | 28 | 6 | 23.8 | 19.04 | 4.08 |
| Duval | Arlington Heights Elem. | 32 | 15 | 4 | 23.36 | 10.95 | 2.92 |
| Escambia | Allie Yniestra Elem. | 22 | 16 | 0 | 9.9 | 7.2 | 0 |
| Gadsden | Greensboro Elementary | 37 | 6 | 0 | 19.24 | 3.12 | 0 |
| Glades | Moore Haven Elementary | 35 | 20 | 2 | 21 | 12 | 1.2 |
| Hamilton | Central Hamilton Elementary | 36 | 7 | 2 | 20.88 | 4.06 | 1.16 |
| Hardee | Wauchula Elementary | 35 | 29 | 3 | 34.65 | 28.71 | 2.97 |
| Hendry | Eastside Elementary | 35 | 31 | 1 | 47.6 | 42.16 | 1.36 |
| Highlands | Lake Country Elementary | 27 | 22 | 1 | 25.38 | 20.68 | 0.94 |
| Hillsborough | Broward Elementary | 32 | 21 | 4 | 26.24 | 17.22 | 3.28 |


| District | School Name - Group 2 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Indian River | Thompson Elementary | 20 | 22 | 0 | 11.8 | 12.98 | 0 |
| Dade | Lakeview Elementary | 41 | 26 | 8 | 36.08 | 22.88 | 7.04 |
| Gulf | Port St. Joe Elementary | 35 | 27 | 9 | 28.7 | 22.14 | 7.38 |
| Jackson | Sneads Elementary | 31 | 31 | 5 | 22.94 | 22.94 | 3.7 |

$\left.\begin{array}{cccccccc} & & \begin{array}{c}\text { FCAT } \\ \text { Reading } \\ \text { th grade } \\ \text { Percent } \\ \text { Level 3 }\end{array} & \begin{array}{c}\text { FCAT } \\ \text { Reading } \\ \text { 4th grade } \\ \text { Percent } \\ \text { Level 4 }\end{array} & \begin{array}{c}\text { FCAT } \\ \text { Reading } \\ \text { 4th grade } \\ \text { Percent } \\ \text { Level 5 }\end{array} & \begin{array}{c}\text { Total \# of } \\ \text { students } \\ \text { FCAT } \\ \text { Read4 L3 }\end{array} & \begin{array}{c}\text { Total \# of } \\ \text { students } \\ \text { FCAT } \\ \text { Read4 L4 }\end{array} & \begin{array}{c}\text { Total \# of } \\ \text { students }\end{array} \\ \text { FCAT } \\ \text { Read4 L5 }\end{array}\right]$
$\left.\begin{array}{cccccccc} & & \begin{array}{c}\text { FCAT } \\ \text { Reading } \\ \text { 4th grade } \\ \text { Percent } \\ \text { Level 3 }\end{array} & \begin{array}{c}\text { FCAT } \\ \text { Reading } \\ \text { 4th grade } \\ \text { Percent } \\ \text { Level } 4\end{array} & \begin{array}{c}\text { FCAT } \\ \text { Reading } \\ \text { 4th grade } \\ \text { Percent } \\ \text { Level } 5\end{array} & \begin{array}{c}\text { Total \# of } \\ \text { students } \\ \text { FCAT } \\ \text { Read4 L3 }\end{array} & \begin{array}{c}\text { Total \# of } \\ \text { students } \\ \text { FCAT } \\ \text { Read4 L4 }\end{array} & \begin{array}{c}\text { Total \# of } \\ \text { students }\end{array} \\ \text { FCAT } \\ \text { Read4 L5 }\end{array}\right]$

| District | School Name - Group 3 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wakulla | Crawfordville Elementary | 34 | 33 | 7 | 42.5 | 41.25 | 8.75 |
| Walton | Maude Saunders Elementary | 27 | 29 | 7 | 27.54 | 29.58 | 7.14 |
| Washington | Kate M. Smith Elementary | 40 | 28 | 7 | 60.4 | 42.28 | 10.57 |
| St. Johns | Mill Creek Elementary | 29 | 36 | 11 | 52.78 | 65.52 | 20.02 |
| St. Lucie | Rivers Edge Elementary | 29 | 34 | 12 | 40.31 | 47.26 | 16.68 |
| Sumter | Bushnell Elementary | 30 | 29 | 10 | 34.5 | 33.35 | 11.5 |
| Suwannee | Suwannee Elementary |  |  |  |  |  |  |
| Taylor | Taylor County Elementary | 36 | 26 | 4 | 78.48 | 56.68 | 8.72 |
| Polk | Alta Vista Elementary | 34 | 7 | 0 | 51.34 | 10.57 | 0 |
| Putnam | Interlachen Elementary | 36 | 29 | 5 | 41.04 | 33.06 | 5.7 |
| Santa Rosa | Berryhill Elementary | 31 | 41 | 13 | 47.74 | 63.14 | 20.02 |
| Sarasota | Ashton Elementary | 31 | 40 | 17 | 48.67 | 62.8 | 26.69 |


| District | School Name - Group 3 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT <br> Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Orange | Palmetto Elementary | 32 | 15 | 2 | 56.64 | 26.55 | 3.54 |
| Palm Beach | Binks Forest Elementary | 25 | 40 | 27 | 59.25 | 94.8 | 63.99 |
| Pasco | Sand Pine Elementary | 40 | 31 | 8 | 71.2 | 55.18 | 14.24 |
| Pinellas | Cypress Woods Elementary | 32 | 44 | 16 | 37.76 | 51.92 | 18.88 |
| Martin | Palm City Elementary | 27 | 41 | 18 | 42.39 | 64.37 | 28.26 |
| Nassau | Hilliard Elementary | 43 | 39 | 8 | 52.46 | 47.58 | 9.76 |
| Okaloosa | Antioch Elementary | 34 | 41 | 14 | 42.5 | 51.25 | 17.5 |
| Okeechobee | Everglades Elementary | 44 | 14 | 2 | 55 | 17.5 | 2.5 |
| Levy | Chiefland Elementary | 37 | 28 | 4 | 42.18 | 31.92 | 4.56 |
| Madison | Madison County Central | 44 | 9 | 1 | 57.64 | 11.79 | 1.31 |
| Manatee | Freedom Elementary | 37 | 30 | 5 | 41.81 | 33.9 | 5.65 |


| District | School Name - Group 3 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT <br> Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Marion | Maplewood Elementary | 33 | 29 | 11 | 41.58 | 36.54 | 13.86 |
| Jefferson | Jefferson County Elementary | 39 | 14 | 2 | 25.74 | 9.24 | 1.32 |
| Lake | Lost Lake Elementary | 29 | 40 | 12 | 69.89 | 96.4 | 28.92 |
| Lee | Gulf Elementary | 37 | 32 | 12 | 85.84 | 74.24 | 27.84 |
| Leon | Gilchrist Elementary | 22 | 44 | 28 | 28.6 | 57.2 | 36.4 |
| Dade | Ernest R Graham Elem | 30 | 29 | 8 | 96.6 | 93.38 | 25.76 |
| Union | Lake Butler Elementary | 37 | 27 | 12 | 63.64 | 46.44 | 20.64 |

## APPENDIX D

FCAT READING DATA FOR GRADE 5

Table 6
FCAT Reading data for Grade 5

| District | School Name - Group 1 | FCAT <br> Reading 5th <br> grade <br> Percent <br> Level 3 | FCAT <br> Reading 5th <br> grade <br> Percent <br> Level 4 | FCAT <br> Reading <br> 5th grade <br> Percent <br> Level 5 | Total \# of <br> students <br> FCAT <br> Read5 L3 | Total \# of <br> students <br> FCAT <br> Read5 L4 | Total \# of <br> students <br> FCAT <br> Read5 L5 <br> Alachua <br> Bradford |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Chester Shell Elementary | 26 | 20 | 3 | 9.10 | 7.00 | 1.05 |  |
| Hrevard | Robert L. Stevenson Elem | 13 | 62 | 25 | 7.93 | 37.82 | 15.25 |
| Calhoun | Carr Elementary School | 28 | 32 | 16 | 7.00 | 8.00 | 4.00 |
| Dade | Liberty City Elementary | 34 | 11 | 0 | 12.92 | 4.18 | 0.00 |
| Duval | Arlington Elementary | 54 | 12 | 0 | 22.14 | 4.92 | 0.00 |
| Escambia | George S. Hallmark Elem | 31 | 14 | 0 | 15.81 | 7.14 | 0.00 |
| Franklin | H.G. Brown Elementary | 35 | 23 | 0 | 10.85 | 7.13 | 0.00 |
| Gadsden | Gadsden Elementary | 33 | 56 | 6 | 5.94 | 10.08 | 1.08 |
| Glades | West Glades Elementary | 35 | 6 | 3 | 11.90 | 2.04 | 1.02 |


| District | School Name - Group 1 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT <br> Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT <br> Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hamilton | South Hamilton Elem. | 27 | 27 | 18 | 2.97 | 2.97 | 1.98 |
| Holmes | Poplar School | 42 | 33 | 0 | 10.08 | 7.92 | 0.00 |
| Walton | Bay Elementary | 24 | 41 | 11 | 8.88 | 15.17 | 4.07 |
| Volusia | Ortona Elementary | 35 | 27 | 11 | 12.95 | 9.99 | 4.07 |
| St. Lucie | Ft. Pierce Magnet | 37 | 17 | 4 | 19.98 | 9.18 | 2.16 |
| Sumter | North Sumter Intermediate | 34 | 23 | 3 | 40.12 | 27.14 | 3.54 |
| Putnam | William D. Moseley Elem | 34 | 5 | 5 | 14.96 | 2.20 | 2.20 |
| Sarasota | Sarasota Suncost Acad. |  |  |  |  |  |  |
| Orange | Hungerford Elementary | 43 | 19 | 5 | 9.03 | 3.99 | 1.05 |
| Pasco | DaySpring Academy | 48 | 29 | 8 | 23.04 | 13.92 | 3.84 |
| Pinellas | North Ward Elementary | 49 | 35 | 3 | 18.13 | 12.95 | 1.11 |
| Monroe | Sigsbee Elementary | 45 | 39 | 3 | 13.95 | 12.09 | 0.93 |


|  |  | FCAT <br> Reading 4th <br> grade <br> Percent <br> Level 3 | FCAT <br> Reading 4th <br> grade <br> Percent <br> Level 4 | FCAT <br> Reading <br> 4th grade <br> Percent <br> Level 5 | Total \# of <br> students <br> FCAT <br> Read4 L3 | Total \# of <br> students <br> FCAT <br> Read4 L4 | Total \# of <br> students <br> FCAT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Read4 L5 |  |  |  |  |  |  |  |


| District | School Name - Group 2 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT Read4 L3 | Total \# of students FCAT Read4 L4 | Total \# of students FCAT Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Volusia | Bonner Elementary | 41 | 5 | 2 | 25.01 | 3.05 | 1.22 |
| Walton | Freeport Elementary | 49 | 35 | 5 | 41.65 | 29.75 | 4.25 |
| Washington | Vernon Elementary |  |  |  |  |  |  |
| St. Johns | Crookshank Elementary | 35 | 21 | 4 | 23.80 | 14.28 | 2.72 |
| St. Lucie | Parkway Elementary | 41 | 14 | 0 | 28.70 | 9.80 | 0.00 |
| Sumter | Lake Panasoffkee | 39 | 30 | 8 | 34.32 | 26.40 | 7.04 |
| Polk | Berkley Elementary | 33 | 34 | 5 | 29.04 | 29.92 | 4.40 |
| Santa Rosa | Bagdad Elementary | 35 | 27 | 9 | 30.80 | 23.76 | 7.92 |
| Sarasota | Englewood Elementary | 38 | 32 | 11 | 31.16 | 26.24 | 9.02 |
| Seminole | Geneva Elementary | 39 | 37 | 9 | 38.22 | 36.26 | 8.82 |
| Orange | Aloma Elementary | 43 | 31 | 1 | 28.81 | 20.77 | 0.67 |
| Osceola | P.M. Wells Charter Acad. | 41 | 20 | 9 | 28.70 | 14.00 | 6.30 |


| District | School Name - Group 2 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT <br> Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT <br> Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Palm Beach | Allamanda Elementary | 38 | 36 | 3 | 29.64 | 28.08 | 2.34 |
| Pasco | Trinity Oaks Elementary | 37 | 43 | 0 | 33.67 | 39.13 | 0.00 |
| Pinellas | Azalea Elementary | 36 | 35 | 6 | 34.92 | 33.95 | 5.82 |
| Martin | Hobe Sound Elementary | 25 | 42 | 12 | 22.25 | 37.38 | 10.68 |
| Nassau | Atlantic Elementary |  |  |  |  |  |  |
| Okaloosa | Annette P. Edwins Elem | 41 | 42 | 3 | 31.16 | 31.92 | 2.28 |
| Levy | Williston Elementary | 33 | 27 | 1 | 52.80 | 43.20 | 1.60 |
| Liberty | W.R. Tolar K-8 | 29 | 27 | 5 | 16.24 | 15.12 | 2.80 |
| Manatee | Ballard Elementary | 47 | 17 | 3 | 33.84 | 12.24 | 2.16 |
| Marion | South Ocala Elementary | 40 | 35 | 4 | 31.20 | 27.30 | 3.12 |
| Lafayette | Lafayette Elementary | 29 | 33 | 3 | 21.75 | 24.75 | 2.25 |
| Lake | Eustis Elementary | 28 | 32 | 9 | 24.64 | 28.16 | 7.92 |


| District | School Name - Group 2 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lee | Alva Elementary | 42 | 28 | 11 | 26.88 | 17.92 | 7.04 |
| Leon | Woodville Elementary | 45 | 22 | 5 | 28.80 | 14.08 | 3.20 |
| Alachua | Alachua Elementary | 30 | 28 | 4 | 37.50 | 35.00 | 5.00 |
| Bay | Lucille Moore Elementary | 38 | 30 | 3 | 33.44 | 26.40 | 2.64 |
| Bradford | Lawtey Community School | 27 | 14 | 2 | 11.88 | 6.16 | 0.88 |
| Brevard | Coquina Elementary | 43 | 37 | 2 | 19.78 | 17.02 | 0.92 |
| Broward | Dania Elementary School | 41 | 13 | 4 | 31.98 | 10.14 | 3.12 |
| Charlotte | Peace River Elementary | 42 | 23 | 3 | 36.12 | 19.78 | 2.58 |
| Citrus | Homosassa Elementary | 29 | 45 | 12 | 14.79 | 22.95 | 6.12 |
| Clay | Clay Hill Elementary | 42 | 31 | 8 | 29.82 | 22.01 | 5.68 |


| District | School Name - Group 2 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT <br> Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT <br> Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Collier | Avalon Elementary School | 46 | 18 | 0 | 33.12 | 12.96 | 0.00 |
| Columbia | Niblack Elementary | 34 | 5 | 0 | 14.96 | 2.20 | 0.00 |
| Dixie | James M. Anderson Elem. | 48 | 28 | 4 | 24.00 | 14.00 | 2.00 |
| Duval | Arlington Heights Elem. | 38 | 14 | 1 | 39.52 | 14.56 | 1.04 |
| Escambia | Allie Yniestra Elem. | 31 | 14 | 0 | 15.81 | 7.14 | 0.00 |
| Gadsden | Greensboro Elementary | 34 | 23 | 2 | 21.08 | 14.26 | 1.24 |
| Glades | Moore Haven Elem. | 33 | 22 | 5 | 19.80 | 13.20 | 3.00 |
| Hamilton | Central Hamilton Elem | 37 | 12 | 1 | 29.97 | 9.72 | 0.81 |
| Hardee | Wauchula Elementary | 33 | 35 | 4 | 23.76 | 25.20 | 2.88 |
| Hendry | Eastside Elementary | 43 | 22 | 3 | 49.88 | 25.52 | 3.48 |
| Highlands | Lake Country Elementary | 37 | 33 | 4 | 34.41 | 30.69 | 3.72 |
| Hillsborough | Broward Elementary | 34 | 16 | 1 | 27.88 | 13.12 | 0.82 |


| District | School Name - Group 2 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT <br> Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Holmes | Ponce De Leon Elem | 49 | 21 | 3 | 34.30 | 14.70 | 2.10 |
| Dade | Lakeview Elementary | 44 | 23 | 0 | 27.28 | 14.26 | 0.00 |
| Gulf | Port St. Joe Elementary | 34 | 28 | 6 | 27.88 | 22.96 | 4.92 |
| Jackson | Sneads Elementary | 25 | 39 | 9 | 20.00 | 31.20 | 7.20 |


| District | School Name - Group 3 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT <br> Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alachua | C.W. Norton Elementary | 37 | 36 | 5 | 49.21 | 47.88 | 6.65 |
| Baker | J Franklyn Keller Elem | 37 | 29 | 3 | 131.35 | 102.95 | 10.65 |
| Bay | Patronis Elementary | 29 | 41 | 18 | 36.54 | 51.66 | 22.68 |
| Bradford | Southside Elementary | 29 | 29 | 5 | 29.00 | 29.00 | 5.00 |
| Brevard | Discovery Elementary | 31 | 36 | 4 | 43.09 | 50.04 | 5.56 |
| Broward | Challenger Elementary | 37 | 29 | 5 | 72.52 | 56.84 | 9.80 |
| Calhoun | Blountstown Elementary | 46 | 33 | 5 | 34.96 | 25.08 | 3.80 |
| Charlotte | Vineland Elementary | 35 | 34 | 8 | 53.55 | 52.02 | 12.24 |
| Citrus | Citrus Springs Elem. | 42 | 27 | 7 | 68.88 | 44.28 | 11.48 |
| Clay | Lake Asbury Elementary | 35 | 32 | 4 | 68.95 | 63.04 | 7.88 |
| Collier | Laurel Oak Elementary | 31 | 40 | 10 | 68.20 | 88.00 | 22.00 |
| Columbia | Summers Elementary | 35 | 31 | 5 | 44.80 | 39.68 | 6.40 |


| District | School Name - Group 3 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT <br> Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DeSoto | Memorial Elementary | 38 | 21 | 2 | 49.02 | 27.09 | 2.58 |
| Duval | Sabal Palm Elementary | 32 | 43 | 11 | 66.88 | 89.87 | 22.99 |
| Escambia | Hellen Caro Elementary | 35 | 39 | 8 | 55.30 | 61.62 | 12.64 |
| Flagler | Belle Terre Elementary | 41 | 37 | 5 | 95.53 | 86.21 | 11.65 |
| Gadsden | George W. Munroe Elem. | 38 | 8 | 0 | 34.96 | 7.36 | 0.00 |
| Hendry | Country Oaks Elementary | 43 | 22 | 3 | 49.88 | 25.52 | 3.48 |
| Hernando | John D. Floyd Elementary | 42 | 27 | 5 | 78.12 | 50.22 | 9.30 |
| Highlands | Sun 'N Lake Elementary | 40 | 30 | 1 | 59.60 | 44.70 | 1.49 |
| Hillsborough | Boyette Springs Elem | 32 | 34 | 7 | 62.40 | 66.30 | 13.65 |
| Holmes | Bonifay Elementary |  |  |  |  |  |  |
| Indian River | Glendale Elementary | 36 | 29 | 9 | 39.60 | 31.90 | 9.90 |
| Volusia | Deltona Lakes Elementary | 49 | 27 | 3 | 86.73 | 47.79 | 5.31 |


| District | School Name - Group 3 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT <br> Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT <br> Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wakulla | Crawfordville Elementary | 27 | 40 | 9 | 37.80 | 56.00 | 12.60 |
| Walton | Maude Saunders Elem | 43 | 24 | 4 | 48.16 | 26.88 | 4.48 |
| Washington | Kate M. Smith Elementary |  |  |  | 0.00 | 0.00 | 0.00 |
| St. Johns | Mill Creek Elementary | 33 | 40 | 8 | 50.49 | 61.20 | 12.24 |
| St. Lucie | Rivers Edge Elementary | 43 | 27 | 5 | 59.34 | 37.26 | 6.90 |
| Sumter | Bushnell Elementary | 37 | 28 | 5 | 45.14 | 34.16 | 6.10 |
| Suwannee | Suwannee Elementary |  |  |  |  |  |  |
| Taylor | Taylor County Elementary | 35 | 32 | 4 | 74.20 | 67.84 | 8.48 |
| Polk | Alta Vista Elementary | 34 | 11 | 2 | 45.56 | 14.74 | 2.68 |
| Putnam | Interlachen Elementary | 37 | 32 | 4 | 46.25 | 40.00 | 5.00 |
| Santa Rosa | Berryhill Elementary | 30 | 49 | 10 | 46.50 | 75.95 | 15.50 |
| Sarasota | Ashton Elementary | 29 | 45 | 14 | 44.95 | 69.75 | 21.70 |


| District | School Name - Group 3 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT <br> Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT <br> Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Seminole | Bear Lake Elementary | 37 | 39 | 9 | 78.81 | 83.07 | 19.17 |
| Palm Beach | Binks Forest Elementary | 22 | 48 | 24 | 46.20 | 100.80 | 50.40 |
| Pasco | Sand Pine Elementary | 43 | 32 | 5 | 69.23 | 51.52 | 8.05 |
| Pinellas | Cypress Woods Elem | 35 | 43 | 11 | 39.90 | 49.02 | 12.54 |
| Martin | Palm City Elementary | 27 | 49 | 11 | 48.06 | 87.22 | 19.58 |
| Nassau | Hilliard Elementary | 40 | 40 | 6 | 47.60 | 47.60 | 7.14 |
| Okaloosa | Antioch Elementary | 38 | 40 | 13 | 49.78 | 52.40 | 17.03 |
| Okeechobee | Everglades Elementary | 46 | 17 | 2 | 38.64 | 14.28 | 1.68 |
| Levy | Chiefland Elementary | 26 | 32 | 4 | 35.62 | 43.84 | 5.48 |
| Madison | Madison County Centrall | 41 | 15 | 2 | 49.20 | 18.00 | 2.40 |
| Manatee | Freedom Elementary | 37 | 35 | 6 | 39.96 | 37.80 | 6.48 |
| Marion | Maplewood Elementary | 34 | 30 | 9 | 34.68 | 30.60 | 9.18 |
| Jefferson | Jefferson County Elem | 43 | 13 | 6 | 30.96 | 9.36 | 4.32 |


| District | School Name - Group 3 | FCAT <br> Reading 4th grade Percent Level 3 | FCAT <br> Reading 4th grade Percent Level 4 | FCAT <br> Reading 4th grade Percent Level 5 | Total \# of students FCAT Read4 L3 | Total \# of students FCAT <br> Read4 L4 | Total \# of students FCAT <br> Read4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lake | Lost Lake Elementary | 33 | 39 | 9 | 85.80 | 101.40 | 23.40 |
| Lee | Gulf Elementary | 35 | 39 | 8 | 78.75 | 87.75 | 18.00 |
| Leon | Gilchrist Elementary | 18 | 51 | 24 | 26.10 | 73.95 | 34.80 |
| Dade | Ernest R Graham Elem | 37 | 23 | 3 | 109.15 | 67.85 | 8.85 |
| Union | Lake Butler Elementary |  |  |  |  |  |  |

## APPENDIX E

FCAT MATH DATA FOR GRADE 3

Table 7

FCAT Math data for Grade 3

| District | School Name - Group 1 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 3 | FCAT <br> Math 3rd grade Percent Level 4 | FCAT <br> Math 3rd grade Percent Level 5 | Total \# of students FCAT Math3 L3 | Total \# of students FCAT Math3 L4 | $\begin{gathered} \text { Total \# } \\ \text { of } \\ \text { students } \\ \text { FCAT } \\ \text { Math3 } \\ \text { L5 } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alachua | Chester Shell Elementary | 36 | 11 | 3 | 12.96 | 3.96 | 1.08 |
| Bradford | Hampton Elementary | 41 | 15 | 8 | 9.84 | 3.6 | 1.92 |
| Brevard | Robert L. Stevenson Elem | 16 | 45 | 39 | 7.04 | 19.8 | 17.16 |
| Calhoun | Carr Elementary School | 19 | 50 | 15 | 4.94 | 13 | 3.9 |
| Dade | Liberty City Elementary | 45 | 16 | 7 | 19.8 | 7.04 | 3.08 |
| Duval | Arlington Elementary | 35 | 21 | 4 | 16.8 | 10.08 | 1.92 |
| Escambia | George S. Hallmark Elem | 50 | 8 | 4 | 12 | 1.92 | 0.96 |
| Franklin | H.G. Brown Elementary | 29 | 37 | 9 | 10.15 | 12.95 | 3.15 |
| Gadsden | Gadsden Elementary | 39 | 33 | 17 | 7.02 | 5.94 | 3.06 |
| Glades | West Glades Elementary | 53 | 17 | 2 | 28.09 | 9.01 | 1.06 |


| District | School Name - Group 1 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 3 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 4 | FCAT <br> Math 3rd grade Percent Level 5 | Total \# of students FCAT Math3 L3 | $\begin{gathered} \text { Total \# } \\ \text { of } \\ \text { students } \\ \text { FCAT } \\ \text { Math3 } \\ \text { L4 } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Total \# } \\ \text { of } \\ \text { students } \\ \text { FCAT } \\ \text { Math3 } \\ \text { L5 } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hamilton | South Hamilton Elem | 45 | 27 | 0 | 9.9 | 5.94 | 0 |
| Holmes | Poplar School | 64 | 24 | 0 | 16 | 6 | 0 |
| Walton | Bay Elementary | 38 | 35 | 16 | 14.06 | 12.95 | 5.92 |
| Volusia | Ortona Elementary | 46 | 26 | 8 | 23 | 13 | 4 |
| St. Lucie | Ft. Pierce Magnet | 32 | 26 | 4 | 16 | 13 | 2 |
| Sumter | North Sumter Intermediate |  |  |  |  |  |  |
| Putnam | William D. Moseley Elem | 49 | 27 | 14 | 24.01 | 13.23 | 6.86 |
| Santa Rosa | Chumuckla Elementary | 29 | 34 | 20 | 11.89 | 13.94 | 8.2 |
| Sarasota | Sarasota Suncost Acad. | 28 | 33 | 21 | 10.92 | 12.87 | 8.19 |
| Orange | Hungerford Elementary | 14 | 11 | 0 | 4.9 | 3.85 | 0 |
| Pasco | DaySpring Academy | 35 | 28 | 9 | 15.05 | 12.04 | 3.87 |
| Pinellas | North Ward Elementary | 31 | 36 | 12 | 13.02 | 15.12 | 5.04 |
| Monroe | Sigsbee Elementary | 42 | 26 | 13 | 15.96 | 9.88 | 4.94 |
|  |  |  | 101 |  |  |  |  |


| District | School Name - Group 1 | FCAT <br> Math 3rd grade Percent Level 3 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 4 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 5 | Total \# of students FCAT Math3 L3 | Total \# of students FCAT Math3 L4 | Total \# of students FCAT Math3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nassau | Bryceville Elementary | 41 | 25 | 25 | 18.04 | 11 | 11 |
| Okaloosa | Laurel Hill School | 48 | 24 | 10 | 10.08 | 5.04 | 2.1 |
| Levy | Yankeetown School | 43 | 18 | 8 | 17.2 | 7.2 | 3.2 |
| Liberty | Hosford Elementary Jr. High | 47 | 32 | 12 | 15.98 | 10.88 | 4.08 |
| Madison | Lee Elementary | 44 | 14 | 0 | 15.84 | 5.04 | 0 |
| Marion | Marion Charter | 40 | 9 | 3 | 14 | 3.15 | 1.05 |
| Lake | Altonna School | 50 | 30 | 0 | 5 | 3 | 0 |
| Lee | Ft. Myers Beach Elementary | 23 | 58 | 13 | 7.13 | 17.98 | 4.03 |


| District | School Name - Group 2 | FCAT <br> Math 3rd grade Percent Level 3 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 4 | FCAT <br> Math 3rd grade Percent Level 5 | Total \# of students FCAT Math3 L3 | $\begin{gathered} \text { Total \# } \\ \text { of } \\ \text { students } \\ \text { FCAT } \\ \text { Math3 } \\ \text { L4 } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Total \# } \\ \text { of } \\ \text { students } \\ \text { FCAT } \\ \text { Math3 } \\ \text { L5 } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Volusia | Bonner Elementary | 37 | 5 | 2 | 22.2 | 3 | 1.2 |
| Walton | Freeport Elementary | 35 | 35 | 11 | 29.4 | 29.4 | 9.24 |
| Washington | Vernon Elementary | 33 | 16 | 4 | 38.94 | 18.88 | 4.72 |
| St. Johns | Crookshank Elementary | 36 | 25 | 1 | 24.12 | 16.75 | 0.67 |
| St. Lucie | Parkway Elementary | 35 | 18 | 4 | 43.4 | 22.32 | 4.96 |
| Sumter | Lake Panasoffkee | 31 | 40 | 19 | 23.87 | 30.8 | 14.63 |
| Polk | Berkley Elementary | 28 | 40 | 19 | 23.8 | 34 | 16.15 |
| Putnam | James A. Long Elementary | 33 | 25 | 9 | 22.77 | 17.25 | 6.21 |
| Santa Rosa | Bagdad Elementary | 23 | 51 | 12 | 15.87 | 35.19 | 8.28 |
| Sarasota | Englewood Elementary | 32 | 39 | 22 | 23.68 | 28.86 | 16.28 |
| Seminole | Geneva Elementary | 30 | 37 | 13 | 24.9 | 30.71 | 10.79 |
| Orange | Aloma Elementary | 31 | 25 | 18 | 25.73 | 20.75 | 14.94 |
| Osceola | P.M. Wells Charter Academy | 32 | 27 | 3 | 23.36 | 19.71 | 2.19 |
|  |  |  | 103 |  |  |  |  |


| District | School Name - Group 2 | FCAT <br> Math 3rd grade Percent Level 3 | FCAT <br> Math 3rd grade Percent Level 4 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 5 | Total \# of students FCAT Math3 L3 | Total \# of students FCAT Math3 L4 | $\begin{gathered} \text { Total \# } \\ \text { of } \\ \text { students } \\ \text { FCAT } \\ \text { Math3 } \\ \text { L5 } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Palm Beach | Allamanda Elementary | 38 | 37 | 8 | 29.64 | 28.86 | 6.24 |
| Pasco | Trinity Oaks Elementary | 32 | 38 | 7 | 29.44 | 34.96 | 6.44 |
| Pinellas | Azalea Elementary | 30 | 36 | 8 | 32.1 | 38.52 | 8.56 |
| Martin | Hobe Sound Elementary | 41 | 24 | 11 | 36.9 | 21.6 | 9.9 |
| Nassau | Atlantic Elementary | 28 | 35 | 19 | 53.48 | 66.85 | 36.29 |
| Okaloosa | Annette P. Edwins Elementary | 46 | 26 | 6 | 31.74 | 17.94 | 4.14 |
| Levy | Williston Elementary | 40 | 27 | 10 | 64.4 | 43.47 | 16.1 |
| Liberty | W.R. Tolar K-8 | 38 | 12 | 2 | 24.7 | 7.8 | 1.3 |
| Manatee | Ballard Elementary | 43 | 18 | 1 | 35.69 | 14.94 | 0.83 |
| Marion | South Ocala Elementary | 25 | 32 | 18 | 28.5 | 36.48 | 20.52 |
| Lafayette | Lafayette Elementary | 36 | 32 | 17 | 32.4 | 28.8 | 15.3 |
| Lake | Eustis Elementary | 31 | 34 | 21 | 24.8 | 27.2 | 16.8 |
| Lee | Alva Elementary | 34 | 28 | 18 | 28.9 | 23.8 | 15.3 |
|  |  |  | 104 |  |  |  |  |


| District | School Name - Group 2 | FCAT <br> Math 3rd grade Percent Level 3 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 4 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 5 | ```Total # of students FCAT Math3 L3``` | ```Total # of students FCAT Math3 L4``` | $\begin{gathered} \text { Total \# } \\ \text { of } \\ \text { students } \\ \text { FCAT } \\ \text { Math3 } \\ \text { L5 } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Leon | Woodville Elementary | 49 | 18 | 6 | 31.85 | 11.7 | 3.9 |
| Alachua | Alachua Elementary | 34 | 25 | 12 | 56.1 | 41.25 | 19.8 |
| Baker | MacClenny Elementary | 33 | 37 | 13 | 47.52 | 53.28 | 18.72 |
| Bay | Lucille Moore Elementary | 39 | 25 | 10 | 31.2 | 20 | 8 |
| Bradford | Lawtey Community School | 41 | 15 | 8 | 15.99 | 5.85 | 3.12 |
| Brevard | Coquina Elementary | 42 | 27 | 8 | 25.2 | 16.2 | 4.8 |
| Broward | Dania Elementary School | 40 | 29 | 5 | 38.4 | 27.84 | 4.8 |
| Charlotte | Peace River Elementary School | 24 | 36 | 9 | 18.72 | 28.08 | 7.02 |
| Citrus | Homosassa Elementary School | 40 | 29 | 11 | 22 | 15.95 | 6.05 |
| Clay | Clay Hill Elementary School | 41 | 37 | 5 | 32.39 | 29.23 | 3.95 |
| Collier | Avalon Elementary School | 32 | 9 | 0 | 23.68 | 6.66 | 0 |
| Columbia | Niblack Elementary School | 46 | 14 | 3 | 17.02 | 5.18 | 1.11 |
| Dixie | James M. Anderson Elem. | 40 | 27 | 8 | 30 | 20.25 | 6 |
|  |  |  | 105 |  |  |  |  |


| District | School Name - Group 2 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 3 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 4 | FCAT <br> Math 3rd grade Percent Level 5 | Total \# of students FCAT Math3 L3 | $\begin{gathered} \text { Total \# } \\ \text { of } \\ \text { students } \\ \text { FCAT } \\ \text { Math3 } \\ \text { L4 } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Total \# } \\ \text { of } \\ \text { students } \\ \text { FCAT } \\ \text { Math3 } \\ \text { L5 } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Duval | Arlington Heights Elem. | 31 | 25 | 2 | 33.48 | 27 | 2.16 |
| Escambia | Allie Yniestra Elem. | 37 | 17 | 2 | 21.83 | 10.03 | 1.18 |
| Gadsden | Greensboro Elementary School | 31 | 17 | 0 | 18.29 | 10.03 | 0 |
| Glades | Moore Haven Elementary School | 36 | 38 | 15 | 21.96 | 23.18 | 9.15 |
| Hamilton | Central Hamilton Elementary | 23 | 4 | 0 | 17.02 | 2.96 | 0 |
| Hardee | Wauchula Elementary | 38 | 36 | 11 | 39.52 | 37.44 | 11.44 |
| Hendry | Eastside Elementary | 36 | 28 | 7 | 37.8 | 29.4 | 7.35 |
| Highlands | Lake Country Elementary | 36 | 24 | 5 | 36.72 | 24.48 | 5.1 |
| Hillsborough | Broward Elementary | 29 | 27 | 1 | 24.07 | 22.41 | 0.83 |
| Holmes | Ponce De Leon Elementary | 42 | 33 | 5 | 23.1 | 18.15 | 2.75 |
| Indian River | Thompson Elementary | 34 | 10 | 0 | 24.82 | 7.3 | 0 |
| Dade | Lakeview Elementary | 42 | 29 | 8 | 37.38 | 25.81 | 7.12 |
| Gulf | Port St. Joe Elementary | 38 | 28 | 13 | 25.84 | 19.04 | 8.84 |
|  |  |  | 106 |  |  |  |  |



| District | School Name - Group 3 | FCAT <br> Math 3rd grade Percent Level 3 | FCAT <br> Math 3rd grade Percent Level 4 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 5 | Total \# of students FCAT Math3 L3 | Total \# of students FCAT Math3 L4 | ```Total # of students FCAT Math3 L5``` |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alachua | C.W. Norton Elementary | 34 | 38 | 19 | 35.36 | 39.52 | 19.76 |
| Baker | J Franklyn Keller Elementary |  |  |  |  |  |  |
| Bay | Patronis Elementary | 25 | 37 | 28 | 33.75 | 49.95 | 37.8 |
| Bradford | Southside Elementary | 35 | 20 | 2 | 33.25 | 19 | 1.9 |
| Brevard | Discovery Elementary | 45 | 28 | 7 | 58.95 | 36.68 | 9.17 |
| Broward | Challenger Elementary School | 40 | 29 | 5 | 39.2 | 28.42 | 4.9 |
| Calhoun | Blountstown Elementary School | 27 | 42 | 19 | 27.81 | 43.26 | 19.57 |
| Charlotte | Vineland Elementary School | 39 | 40 | 9 | 52.26 | 53.6 | 12.06 |
| Citrus | Citrus Springs Elementary School | 30 | 37 | 16 | 45.6 | 56.24 | 24.32 |
| Clay | Lake Asbury Elementary School | 39 | 34 | 10 | 76.83 | 66.98 | 19.7 |
| Collier | Laurel Oak Elementary School | 37 | 37 | 8 | 78.44 | 78.44 | 16.96 |
| Columbia | Summers Elementary School | 38 | 35 | 8 | 47.12 | 43.4 | 9.92 |
| DeSoto | Memorial Elementary School | 34 | 26 | 7 | 50.32 | 38.48 | 10.36 |
|  |  |  | 108 |  |  |  |  |


| District | School Name - Group 3 | FCAT <br> Math 3rd grade Percent Level 3 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 4 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 5 | Total \# of students FCAT Math3 L3 | ```Total # of students FCAT Math3 L4``` | $\begin{gathered} \text { Total \# } \\ \text { of } \\ \text { students } \\ \text { FCAT } \\ \text { Math3 } \\ \text { L5 } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Duval | Sabal Palm Elementary School | 33 | 34 | 16 | 71.94 | 74.12 | 34.88 |
| Escambia | Hellen Caro Elementary School | 39 | 31 | 17 | 48.75 | 38.75 | 21.25 |
| Flagler | Belle Terre Elementary School | 33 | 33 | 13 | 73.59 | 73.59 | 28.99 |
| Gadsden | George W. Munroe Elem. | 33 | 12 | 1 | 36.63 | 13.32 | 1.11 |
| Gilchrist | Trenton Elementary School | 35 | 35 | 13 | 36.4 | 36.4 | 13.52 |
| Hendry | Country Oaks Elementary | 38 | 24 | 2 | 46.74 | 29.52 | 2.46 |
| Hernando | John D. Floyd Elementary | 39 | 29 | 7 | 81.9 | 60.9 | 14.7 |
| Highlands | Sun 'N Lake Elementary | 29 | 34 | 13 | 39.73 | 46.58 | 17.81 |
| Hillsborough | Boyette Springs Elementary | 28 | 32 | 20 | 57.68 | 65.92 | 41.2 |
| Holmes | Bonifay Elementary | 44 | 22 | 4 | 52.8 | 26.4 | 4.8 |
| Indian River | Glendale Elementary | 31 | 37 | 13 | 35.65 | 42.55 | 14.95 |
| Volusia | Deltona Lakes Elementary | 32 | 27 | 11 | 50.24 | 42.39 | 17.27 |
| Wakulla | Crawfordville Elementary | 38 | 38 | 7 | 52.06 | 52.06 | 9.59 |
|  |  |  | 109 |  |  |  |  |


| District | School Name - Group 3 | FCAT <br> Math 3rd grade Percent Level 3 | FCAT <br> Math 3rd grade Percent Level 4 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 5 | Total \# of students FCAT Math3 L3 | $\begin{gathered} \text { Total \# } \\ \text { of } \\ \text { students } \\ \text { FCAT } \\ \text { Math3 } \\ \text { L4 } \\ \hline \end{gathered}$ | Total \# of students FCAT Math3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Walton | Maude Saunders Elementary | 39 | 28 | 5 | 43.29 | 31.08 | 5.55 |
| Washington | Kate M. Smith Elementary | 41 | 26 | 16 | 64.78 | 41.08 | 25.28 |
| St. Johns | Mill Creek Elementary | 31 | 39 | 14 | 66.96 | 84.24 | 30.24 |
| St. Lucie | Rivers Edge Elementary | 38 | 32 | 9 | 52.82 | 44.48 | 12.51 |
| Sumter | Bushnell Elementary | 42 | 27 | 4 | 47.46 | 30.51 | 4.52 |
| Suwannee | Suwannee Elementary | 37 | 25 | 8 | 125.8 | 85 | 27.2 |
| Taylor | Taylor County Elementary | 38 | 36 | 11 | 90.44 | 85.68 | 26.18 |
| Polk | Alta Vista Elementary | 41 | 12 | 4 | 61.5 | 18 | 6 |
| Putnam | Interlachen Elementary | 37 | 30 | 8 | 41.81 | 33.9 | 9.04 |
| Santa Rosa | Berryhill Elementary | 33 | 45 | 18 | 53.13 | 72.45 | 28.98 |


| District | School Name - Group 3 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 3 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 4 | FCAT <br> Math 3rd grade Percent Level 5 | Total \# of students FCAT Math3 L3 | Total \# of students FCAT Math3 L4 | Total \# of students FCAT Math3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sarasota | Ashton Elementary | 32 | 38 | 17 | 44.16 | 52.44 | 23.46 |
| Seminole | Bear Lake Elementary | 35 | 30 | 17 | 66.5 | 57 | 32.3 |
| Orange | Palmetto Elementary | 22 | 12 | 1 | 48.84 | 26.64 | 2.22 |
| Palm Beach | Binks Forest Elementary | 22 | 34 | 37 | 45.54 | 70.38 | 76.59 |
| Pasco | Sand Pine Elementary | 41 | 26 | 6 | 68.47 | 43.42 | 10.02 |
| Pinellas | Cypress Woods Elementary | 22 | 46 | 25 | 27.06 | 56.58 | 30.75 |
| Martin | Palm City Elementary | 23 | 38 | 33 | 36.57 | 60.42 | 52.47 |
| Nassau | Hilliard Elementary | 42 | 31 | 10 | 54.6 | 40.3 | 13 |
| Okaloosa | Antioch Elementary | 19 | 50 | 24 | 24.89 | 65.5 | 31.44 |
| Okeechobee | Everglades Elementary | 33 | 22 | 3 | 39.6 | 26.4 | 3.6 |
| Levy | Chiefland Elementary | 44 | 23 | 10 | 56.32 | 29.44 | 12.8 |
| Madison | Madison County Central School | 26 | 23 | 8 | 30.94 | 27.37 | 9.52 |
| Manatee | Freedom Elementary | 37 | 28 | 10 | 42.55 | 32.2 | 11.5 |
|  |  |  | 111 |  |  |  |  |


| District | School Name - Group 3 | FCAT <br> Math 3rd grade Percent Level 3 | FCAT <br> Math 3rd <br> grade <br> Percent <br> Level 4 | FCAT <br> Math 3rd grade Percent Level 5 | Total \# of students FCAT Math3 L3 | Total \# of students FCAT Math3 L4 | Total \# of students FCAT Math3 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Marion | Maplewood Elementary | 40 | 27 | 8 | 45.6 | 30.78 | 9.12 |
| Jefferson | Jefferson County Elementary | 38 | 34 | 8 | 34.58 | 30.94 | 7.28 |
| Lake | Lost Lake Elementary | 27 | 38 | 22 | 66.96 | 94.24 | 54.56 |
| Lee | Gulf Elementary | 38 | 29 | 26 | 89.68 | 68.44 | 61.36 |
| Leon | Gilchrist Elementary | 14 | 54 | 25 | 20.16 | 77.76 | 36 |
| Dade | Ernest R Graham Elementary | 33 | 36 | 11 | 99 | 108 | 33 |
| Union | Lake Butler Elementary School | 30 | 41 | 15 | 49.2 | 67.24 | 24.6 |

## APPENDIX F

FCAT MATH DATA FOR GRADE 4

Table 8
FCAT Math data for Grade 4

| District | School Name - Group 1 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alachua | Chester Shell Elementary | 39 | 14 | 0 | 14.04 | 5.04 | 0 |
| Bradford | Hampton Elementary | 35 | 20 | 2 | 17.85 | 10.2 | 1.02 |
| Brevard | Robert L. Stevenson Elem | 29 | 39 | 32 | 19.14 | 25.74 | 21.12 |
| Calhoun | Carr Elementary School | 50 | 21 | 8 | 19 | 7.98 | 3.04 |
| Dade | Liberty City Elementary | 38 | 18 | 3 | 15.2 | 7.2 | 1.2 |
| Duval | Arlington Elementary | 41 | 18 | 2 | 20.91 | 9.18 | 1.02 |
| Escambia | George S. Hallmark Elem | 32 | 9 | 0 | 15.04 | 4.23 | 0 |
| Franklin | H.G. Brown Elementary | 41 | 0 | 0 | 6.97 | 0 | 0 |
| Gadsden | Gadsden Elementary School | 59 | 12 | 0 | 10.03 | 2.04 | 0 |
| Glades | West Glades Elementary | 35 | 30 | 5 | 15.05 | 12.9 | 2.15 |
| Hamilton | South Hamilton Elem | 52 | 16 | 0 | 13 | 4 | 0 |


| District | School Name - Group 1 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Holmes | Poplar School | 27 | 9 | 5 | 5.94 | 1.98 | 1.1 |
| Walton | Bay Elementary | 41 | 32 | 22 | 16.81 | 13.12 | 9.02 |
| Volusia | Ortona Elementary | 41 | 20 | 2 | 18.86 | 9.2 | 0.92 |
| St. Lucie | Ft. Pierce Magnet | 24 | 22 | 8 | 11.76 | 10.78 | 3.92 |
| Sumter | North Sumter Intermediate | 38 | 13 | 4 | 50.54 | 17.29 | 5.32 |
| Putnam | William D. Moseley Elementary | 44 | 21 | 0 | 17.16 | 8.19 | 0 |
| Santa Rosa | Chumuckla Elementary | 42 | 24 | 9 | 13.86 | 7.92 | 2.97 |
| Sarasota | Sarasota Suncost Academy | 50 | 35 | 5 | 10 | 7 | 1 |
| Orange | Hungerford Elementary | 25 | 13 | 0 | 10 | 5.2 | 0 |
| Pasco | DaySpring Academy | 42 | 38 | 8 | 20.16 | 18.24 | 3.84 |
| Pinellas | North Ward Elementary | 47 | 19 | 5 | 20.21 | 8.17 | 2.15 |
| Monroe | Sigsbee Elementary | 46 | 23 | 6 | 16.1 | 8.05 | 2.1 |
| Nassau | Bryceville Elementary | 47 | 21 | 5 | 17.86 | 7.98 | 1.9 |


| District | School Name - Group 1 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Okaloosa | Laurel Hill School | 41 | 28 | 3 | 15.99 | 10.92 | 1.17 |
| Levy | Yankeetown School | 39 | 21 | 0 | 10.92 | 5.88 | 0 |
| Liberty | Hosford Elementary Jr. High | 57 | 20 | 7 | 17.1 | 6 | 2.1 |
| Madison | Lee Elementary | 46 | 17 | 0 | 16.1 | 5.95 | 0 |
| Marion | Marion Charter | 35 | 15 | 0 | 11.9 | 5.1 | 0 |
| Lake | Altonna School | 27 | 18 | 0 | 5.94 | 3.96 | 0 |
| Lee | Ft. Myers Beach Elementary | 27 | 35 | 30 | 9.99 | 12.95 | 11.1 |


| District | School Name - Group 2 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Volusia | Bonner Elementary | 41 | 8 | 0 | 24.19 | 4.72 | 0 |
| Walton | Freeport Elementary | 45 | 13 | 8 | 45 | 13 | 8 |
| Washington | Vernon Elementary | 31 | 30 | 16 | 31.62 | 30.6 | 16.32 |
| St. Johns | Crookshank Elementary | 41 | 23 | 0 | 31.98 | 17.94 | 0 |
| St. Lucie | Parkway Elementary | 46 | 7 | 3 | 40.02 | 6.09 | 2.61 |
| Sumter | Lake Panasoffkee | 42 | 24 | 6 | 35.28 | 20.16 | 5.04 |
| Polk | Berkley Elementary | 45 | 25 | 9 | 39.6 | 22 | 7.92 |
| Putnam | James A. Long Elementary | 35 | 10 | 6 | 26.95 | 7.7 | 4.62 |
| Santa Rosa | Bagdad Elementary | 38 | 32 | 9 | 29.26 | 24.64 | 6.93 |
| Sarasota | Englewood Elementary | 37 | 30 | 11 | 26.27 | 21.3 | 7.81 |
| Seminole | Geneva Elementary | 45 | 23 | 9 | 50.4 | 25.76 | 10.08 |
| Orange | Aloma Elementary | 30 | 30 | 14 | 21.3 | 21.3 | 9.94 |
| Osceola | P.M. Wells Charter Academy | 46 | 13 | 0 | 33.12 | 9.36 | 0 |


| District | School Name - Group 2 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Palm Beach | Allamanda Elementary | 41 | 16 | 19 | 28.7 | 11.2 | 13.3 |
| Pasco | Trinity Oaks Elementary | 44 | 21 | 8 | 40.04 | 19.11 | 7.28 |
| Pinellas | Azalea Elementary | 39 | 19 | 5 | 39 | 19 | 5 |
| Martin | Hobe Sound Elementary | 38 | 42 | 9 | 37.62 | 41.58 | 8.91 |
| Nassau | Atlantic Elementary |  |  |  |  |  |  |
| Okaloosa | Annette P. Edwins Elementary | 35 | 22 | 19 | 24.15 | 15.18 | 13.11 |
| Levy | Williston Elementary | 39 | 25 | 8 | 67.47 | 43.25 | 13.84 |
| Liberty | W.R. Tolar K-8 | 39 | 13 | 4 | 26.13 | 8.71 | 2.68 |
| Manatee | Ballard Elementary | 42 | 8 | 4 | 40.32 | 7.68 | 3.84 |
| Marion | South Ocala Elementary | 33 | 30 | 21 | 27.06 | 24.6 | 17.22 |
| Lafayette | Lafayette Elementary | 44 | 13 | 8 | 39.6 | 11.7 | 7.2 |
| Lake | Eustis Elementary | 43 | 31 | 6 | 36.12 | 26.04 | 5.04 |


| District | School Name - Group 2 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lee | Alva Elementary | 39 | 20 | 5 | 31.98 | 16.4 | 4.1 |
| Leon | Woodville Elementary | 32 | 10 | 3 | 20.16 | 6.3 | 1.89 |
| Alachua | Alachua Elementary | 40 | 17 | 3 | 55.6 | 23.63 | 4.17 |
| Baker | MacClenny Elementary |  |  |  |  |  |  |
| Bay | Lucille Moore Elementary | 45 | 24 | 5 | 35.1 | 18.72 | 3.9 |
| Bradford | Lawtey Community School | 35 | 20 | 2 | 17.85 | 10.2 | 1.02 |
| Brevard | Coquina Elementary | 51 | 16 | 6 | 24.99 | 7.84 | 2.94 |
| Broward | Dania Elementary School | 39 | 16 | 4 | 29.64 | 12.16 | 3.04 |
| Charlotte | Peace River Elementary School | 34 | 24 | 4 | 25.84 | 18.24 | 3.04 |
| Citrus | Homosassa Elementary School | 35 | 38 | 15 | 14 | 15.2 | 6 |
| Clay | Clay Hill Elementary School | 44 | 41 | 1 | 32.12 | 29.93 | 0.73 |
| Collier | Avalon Elementary School | 39 | 16 | 3 | 30.03 | 12.32 | 2.31 |
| Columbia | Niblack Elementary School | 31 | 11 | 0 | 11.16 | 3.96 | 0 |


| District | School Name - Group 2 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dixie | James M. Anderson Elem. | 32 | 25 | 4 | 21.76 | 17 | 2.72 |
| Duval | Arlington Heights Elem. | 35 | 12 | 1 | 25.9 | 8.88 | 0.74 |
| Escambia | Allie Yniestra Elementary School | 22 | 11 | 2 | 9.9 | 4.95 | 0.9 |
| Gadsden | Greensboro Elementary School | 44 | 8 | 2 | 22.88 | 4.16 | 1.04 |
| Glades | Moore Haven Elementary School | 43 | 28 | 3 | 25.8 | 16.8 | 1.8 |
| Hamilton | Central Hamilton Elementary | 30 | 0 | 0 | 17.1 | 0 | 0 |
| Hardee | Wauchula Elementary | 41 | 27 | 11 | 40.59 | 26.73 | 10.89 |
| Hendry | Eastside Elementary | 45 | 28 | 4 | 45 | 28 | 4 |
| Highlands | Lake Country Elementary | 44 | 13 | 5 | 41.36 | 12.22 | 4.7 |
| Hillsborough | Broward Elementary | 26 | 31 | 13 | 47.32 | 56.42 | 23.66 |
| Holmes | Ponce De Leon Elementary | 42 | 11 | 8 | 26.04 | 6.82 | 4.96 |
| Indian River | Thompson Elementary | 32 | 3 | 0 | 18.88 | 1.77 | 0 |
| Dade | Lakeview Elementary | 46 | 16 | 0 | 40.02 | 13.92 | 0 |


| District | School Name - Group 2 | FCAT | FCAT | FCAT |  |  | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Math 4th grade | Math 4th grade | Math 4th grade | Total \# of students | Total \# of students |  |
|  |  | Percent | Percent | Percent | FCAT | FCAT |  |
|  |  | Level 3 | Level 4 | Level 5 | Math4 L3 | Math4 L4 |  |
| Gulf | Port St. Joe Elementary | 50 | 28 | 11 | 41 | 22.96 | 9.02 |
| Jackson | Sneads Elementary | 46 | 31 | 4 | 34.04 | 22.94 | 2.96 |


| District | School Name - Group 3 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alachua | C.W. Norton Elementary | 34 | 33 | 12 | 36.38 | 35.31 | 12.84 |
| Baker | J Franklyn Keller Elementary | 37 | 18 | 5 | 124.69 | 60.66 | 16.85 |
| Bay | Patronis Elementary | 36 | 39 | 15 | 54.72 | 59.28 | 22.8 |
| Bradford | Southside Elementary | 34 | 25 | 5 | 29.92 | 22 | 4.4 |
| Brevard | Discovery Elementary | 43 | 20 | 7 | 52.89 | 24.6 | 8.61 |
| Broward | Challenger Elementary School | 39 | 16 | 4 | 29.64 | 12.16 | 3.04 |
| Calhoun | Blountstown Elementary School | 55 | 18 | 9 | 46.75 | 15.3 | 7.65 |
| Charlotte | Vineland Elementary School | 37 | 24 | 8 | 56.61 | 36.72 | 12.24 |
| Citrus | Citrus Springs Elementary School | 39 | 29 | 10 | 70.59 | 52.49 | 18.1 |
| Clay | Lake Asbury Elementary School | 45 | 19 | 5 | 83.7 | 35.34 | 9.3 |
| Collier | Laurel Oak Elementary School | 37 | 32 | 16 | 68.45 | 59.2 | 29.6 |
| Columbia | Summers Elementary School | 42 | 23 | 5 | 50.4 | 27.6 | 6 |


| District | School Name - Group 3 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT <br> Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DeSoto | Memorial Elementary School | 29 | 21 | 4 | 37.7 | 27.3 | 5.2 |
| Duval | Sabal Palm Elementary School | 39 | 34 | 8 | 71.37 | 62.22 | 14.64 |
| Escambia | Hellen Caro Elementary School | 35 | 24 | 8 | 63.35 | 43.44 | 14.48 |
| Flagler | Belle Terre Elementary School | 41 | 20 | 5 | 101.27 | 49.4 | 12.35 |
| Gadsden | George W. Munroe Elem. | 29 | 4 | 0 | 27.55 | 3.8 | 0 |
| Gilchrist | Trenton Elementary School | 48 | 27 | 8 | 52.8 | 29.7 | 8.8 |
| Hendry | Country Oaks Elementary | 43 | 22 | 2 | 58.48 | 29.92 | 2.72 |
| Hernando | John D. Floyd Elementary | 40 | 29 | 4 | 92 | 66.7 | 9.2 |
| Highlands | Sun 'N Lake Elementary | 33 | 23 | 9 | 43.56 | 30.36 | 11.88 |
| Hillsborough | Boyette Springs Elementary | 26 | 31 | 13 | 47.32 | 56.42 | 23.66 |
| Holmes | Bonifay Elementary | 34 | 19 | 5 | 43.86 | 24.51 | 6.45 |
| Indian River | Glendale Elementary | 33 | 23 | 11 | 32.67 | 22.77 | 10.89 |
| Volusia | Deltona Lakes Elementary | 37 | 24 | 3 | 68.82 | 44.64 | 5.58 |


| District | School Name - Group 3 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wakulla | Crawfordville Elementary | 41 | 18 | 2 | 51.25 | 22.5 | 2.5 |
| Walton | Maude Saunders Elementary | 41 | 27 | 9 | 41.82 | 27.54 | 9.18 |
| Washington | Kate M. Smith Elementary | 41 | 21 | 7 | 62.32 | 31.92 | 10.64 |
| St. Johns | Mill Creek Elementary | 46 | 28 | 8 | 83.26 | 50.68 | 14.48 |
| St. Lucie | Rivers Edge Elementary | 37 | 26 | 5 | 51.43 | 36.14 | 6.95 |
| Sumter | Bushnell Elementary | 39 | 20 | 5 | 44.85 | 23 | 5.75 |
| Suwannee | Suwannee Elementary |  |  |  |  |  |  |
| Taylor | Taylor County Elementary | 47 | 19 | 4 | 102.46 | 41.42 | 8.72 |
| Polk | Alta Vista Elementary | 39 | 17 | 3 | 58.89 | 25.67 | 4.53 |
| Putnam | Interlachen Elementary | 50 | 18 | 4 | 57 | 20.52 | 4.56 |
| Santa Rosa | Berryhill Elementary | 34 | 34 | 16 | 52.36 | 52.36 | 24.64 |
| Sarasota | Ashton Elementary | 34 | 41 | 10 | 53.38 | 64.37 | 15.7 |
| Seminole | Bear Lake Elementary | 35 | 32 | 16 | 66.5 | 60.8 | 30.4 |


| District | School Name - Group 3 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Orange | Palmetto Elementary | 32 | 10 | 3 | 57.28 | 17.9 | 5.37 |
| Palm Beach | Binks Forest Elementary | 27 | 37 | 28 | 63.99 | 87.69 | 66.36 |
| Pasco | Sand Pine Elementary | 40 | 28 | 4 | 71.2 | 49.84 | 7.12 |
| Pinellas | Cypress Woods Elementary | 29 | 51 | 9 | 33.93 | 59.67 | 10.53 |
| Martin | Palm City Elementary | 30 | 37 | 22 | 47.1 | 58.09 | 34.54 |
| Nassau | Hilliard Elementary | 42 | 34 | 11 | 51.24 | 41.48 | 13.42 |
| Okaloosa | Antioch Elementary | 40 | 35 | 18 | 50 | 43.75 | 22.5 |
| Okeechobee | Everglades Elementary | 41 | 23 | 0 | 51.25 | 28.75 | 0 |
| Levy | Chiefland Elementary | 44 | 15 | 5 | 50.16 | 17.1 | 5.7 |
| Madison | Madison County Central School | 43 | 5 | 0 | 56.33 | 6.55 | 0 |
| Manatee | Freedom Elementary | 52 | 18 | 3 | 58.76 | 20.34 | 3.39 |
| Marion | Maplewood Elementary | 44 | 25 | 11 | 55.44 | 31.5 | 13.86 |
| Jefferson | Jefferson County Elementary | 42 | 9 | 0 | 28.14 | 6.03 | 0 |

$\left.\begin{array}{cccccccc} & & \begin{array}{c}\text { FCAT } \\ \text { Math 4th } \\ \text { grade } \\ \text { Percent } \\ \text { Level } 3\end{array} & \begin{array}{c}\text { FCAT } \\ \text { Math 4th } \\ \text { grade } \\ \text { Percent } \\ \text { Level } 4\end{array} & \begin{array}{c}\text { FCAT } \\ \text { Math 4th } \\ \text { grade } \\ \text { Percent } \\ \text { Level } 5\end{array} & \begin{array}{c}\text { Total \# of } \\ \text { students } \\ \text { FCAT } \\ \text { Math4 L3 }\end{array} & \begin{array}{c}\text { Total \# of } \\ \text { students } \\ \text { FCAT } \\ \text { Math4 L4 }\end{array} & \begin{array}{c}\text { Total \# of } \\ \text { students }\end{array} \\ \text { FCAT } \\ \text { Math4 L5 }\end{array}\right]$

## APPENDIX G <br> FCAT MATH DATA FOR GRADE 5

Table 9
FCAT Math data for Grade 5

| District | School Name - Group 1 | FCAT <br> Math 5th grade Percent Level 3 | FCAT <br> Math 5th grade Percent Level 4 | FCAT <br> Math 5th grade Percent Level 5 | Total \# of students FCAT Math5 L3 | Total \# of students FCAT Math5 L4 | Total \# of students FCAT Math5 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alachua | Chester Shell Elementary | 20 | 9 | 6 | 7.00 | 3.15 | 2.10 |
| Bradford | Hampton Elementary | 16 | 16 | 0 | 7.04 | 7.04 | 0.00 |
| Brevard | Robert L. Stevenson Elem | 24 | 52 | 21 | 14.88 | 32.24 | 13.02 |
| Calhoun | Carr Elementary School | 24 | 24 | 4 | 6.00 | 6.00 | 1.00 |
| Dade | Liberty City Elementary | 11 | 5 | 0 | 4.18 | 1.90 | 0.00 |
| Duval | Arlington Elementary School | 20 | 20 | 0 | 8.20 | 8.20 | 0.00 |
| Escambia | George S. Hallmark Elementary | 20 | 2 | 2 | 8.80 | 0.88 | 0.88 |
| Franklin | H.G. Brown Elementary School | 23 | 13 | 3 | 7.13 | 4.03 | 0.93 |
| Gadsden | Gadsden Elementary School | 33 | 22 | 6 | 5.94 | 3.96 | 1.08 |
| Glades | West Glades Elementary | 12 | 3 | 3 | 4.08 | 1.02 | 1.02 |
| Hamilton | South Hamilton Elementary | 18 | 18 | 18 | 1.98 | 1.98 | 1.98 |


| District | School Name - Group 1 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT <br> Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Holmes | Poplar School | 38 | 8 | 0 | 9.12 | 1.92 | 0.00 |
| Walton | Bay Elementary | 24 | 32 | 11 | 8.88 | 11.84 | 4.07 |
| Volusia | Ortona Elementary | 32 | 14 | 11 | 11.84 | 5.18 | 4.07 |
| St. Lucie | Ft. Pierce Magnet | 20 | 20 | 0 | 10.80 | 10.80 | 0.00 |
| Sumter | North Sumter Intermediate | 32 | 14 | 3 | 37.76 | 16.52 | 3.54 |
| Santa Rosa | Chumuckla Elementary | 24 | 43 | 3 | 8.88 | 15.91 | 1.11 |
| Sarasota | Sarasota Suncost Academy |  |  |  |  |  |  |
| Orange | Hungerford Elementary | 24 | 5 | 5 | 5.04 | 1.05 | 1.05 |
| Pasco | DaySpring Academy | 23 | 15 | 8 | 11.04 | 7.20 | 3.84 |
| Pinellas | North Ward Elementary | 46 | 24 | 8 | 17.02 | 8.88 | 2.96 |
| Monroe | Sigsbee Elementary | 19 | 31 | 6 | 6.08 | 9.92 | 1.92 |
| Nassau | Bryceville Elementary | 28 | 39 | 6 | 15.12 | 21.06 | 3.24 |
| Okaloosa | Laurel Hill School | 27 | 19 | 0 | 9.99 | 7.03 | 0.00 |


| District | School Name - Group 1 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Liberty | Hosford Elementary Jr. High | 36 | 28 | 0 | 9.00 | 7.00 | 0.00 |
| Madison | Lee Elementary | 0 | 22 | 0 | 0.00 | 3.96 | 0.00 |
| Marion | Marion Charter | 32 | 9 | 9 | 7.04 | 1.98 | 1.98 |
| Lake | Altonna School | 36 | 0 | 0 | 3.96 | 0.00 | 0.00 |
| Lee | Ft. Myers Beach Elementary | 40 | 31 | 3 | 14.00 | 10.85 | 1.05 |


| District | School Name - Group 2 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT <br> Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Volusia | Bonner Elementary | 30 | 2 | 5 | 18.30 | 1.22 | 3.05 |
| Walton | Freeport Elementary | 26 | 20 | 4 | 22.10 | 17.00 | 3.40 |
| Washington | Vernon Elementary |  |  |  |  |  |  |
| St. Johns | Crookshank Elementary | 24 | 13 | 1 | 16.32 | 8.84 | 0.68 |
| St. Lucie | Parkway Elementary | 19 | 26 | 1 | 13.30 | 18.20 | 0.70 |
| Sumter | Lake Panasoffkee | 26 | 28 | 11 | 22.62 | 24.36 | 9.57 |
| Polk | Berkley Elementary | 39 | 32 | 6 | 34.32 | 28.16 | 5.28 |
| Santa Rosa | Bagdad Elementary | 32 | 17 | 2 | 28.16 | 14.96 | 1.76 |
| Sarasota | Englewood Elementary | 29 | 33 | 7 | 23.78 | 27.06 | 5.74 |
| Seminole | Geneva Elementary | 33 | 33 | 11 | 31.68 | 31.68 | 10.56 |
| Orange | Aloma Elementary | 28 | 27 | 3 | 18.76 | 18.09 | 2.01 |
| Osceola | P.M. Wells Charter Academy | 24 | 15 | 4 | 17.04 | 10.65 | 2.84 |
| Palm Beach | Allamanda Elementary | 26 | 32 | 12 | 20.28 | 24.96 | 9.36 |


| District | School Name - Group 2 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pinellas | Azalea Elementary | 28 | 22 | 11 | 27.16 | 21.34 | 10.67 |
| Martin | Hobe Sound Elementary | 33 | 31 | 6 | 29.37 | 27.59 | 5.34 |
| Nassau | Atlantic Elementary |  |  |  |  |  |  |
| Okaloosa | Annette P. Edwins Elementary | 33 | 28 | 5 | 25.08 | 21.28 | 3.80 |
| Levy | Williston Elementary | 32 | 20 | 0 | 51.52 | 32.20 | 0.00 |
| Liberty | W.R. Tolar K-8 | 36 | 18 | 0 | 20.16 | 10.08 | 0.00 |
| Manatee | Ballard Elementary | 42 | 28 | 1 | 29.82 | 19.88 | 0.71 |
| Marion | South Ocala Elementary | 31 | 36 | 1 | 24.18 | 28.08 | 0.78 |
| Lafayette | Lafayette Elementary | 29 | 25 | 8 | 22.04 | 19.00 | 6.08 |
| Lake | Eustis Elementary | 26 | 29 | 12 | 23.14 | 25.81 | 10.68 |
| Lee | Alva Elementary | 22 | 17 | 14 | 14.30 | 11.05 | 9.10 |
| Leon | Woodville Elementary | 25 | 13 | 5 | 16.00 | 8.32 | 3.20 |
| Alachua | Alachua Elementary | 28 | 27 | 3 | 35.00 | 33.75 | 3.75 |


| District | School Name - Group 2 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bradford | Lawtey Community School | 16 | 16 | 0 | 7.04 | 7.04 | 0.00 |
| Brevard | Coquina Elementary | 30 | 26 | 4 | 13.80 | 11.96 | 1.84 |
| Broward | Dania Elementary School | 23 | 21 | 9 | 17.94 | 16.38 | 7.02 |
| Charlotte | Peace River Elementary School | 41 | 17 | 3 | 35.26 | 14.62 | 2.58 |
| Citrus | Homosassa Elementary School | 37 | 27 | 8 | 18.87 | 13.77 | 4.08 |
| Clay | Clay Hill Elementary School | 35 | 25 | 4 | 24.85 | 17.75 | 2.84 |
| Collier | Avalon Elementary School | 33 | 14 | 4 | 23.76 | 10.08 | 2.88 |
| Columbia | Niblack Elementary School | 11 | 2 | 0 | 4.95 | 0.90 | 0.00 |
| Dixie | James M. Anderson Elem. | 24 | 20 | 4 | 12.24 | 10.20 | 2.04 |
| Duval | Arlington Heights Elem. | 28 | 6 | 2 | 29.12 | 6.24 | 2.08 |
| Escambia | Allie Yniestra Elementary School | 14 | 14 | 0 | 7.00 | 7.00 | 0.00 |
| Gadsden | Greensboro Elementary School | 18 | 35 | 2 | 11.16 | 21.70 | 1.24 |
| Glades | Moore Haven Elementary School | 32 | 22 | 0 | 19.20 | 13.20 | 0.00 |


| District | School Name - Group 2 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT <br> Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hardee | Wauchula Elementary | 28 | 29 | 7 | 20.16 | 20.88 | 5.04 |
| Hendry | Eastside Elementary | 31 | 14 | 1 | 22.32 | 10.08 | 0.72 |
| Highlands | Lake Country Elementary | 25 | 37 | 13 | 23.25 | 34.41 | 12.09 |
| Hillsborough | Broward Elementary | 22 | 7 | 0 | 18.04 | 5.74 | 0.00 |
| Holmes | Ponce De Leon Elementary | 32 | 17 | 1 | 22.08 | 11.73 | 0.69 |
| Indian River | Thompson Elementary | 23 | 13 | 5 | 14.03 | 7.93 | 3.05 |
| Dade | Lakeview Elementary | 21 | 19 | 2 | 13.02 | 11.78 | 1.24 |
| Jackson | Sneads Elementary | 23 | 38 | 10 | 18.40 | 30.40 | 8.00 |


| District | School Name - Group 3 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alachua | C.W. Norton Elementary | 27 | 26 | 3 | 35.91 | 34.58 | 3.99 |
| Baker | J Franklyn Keller Elementary | 22 | 21 | 2 | 78.10 | 74.55 | 7.10 |
| Bay | Patronis Elementary | 25 | 39 | 17 | 31.50 | 49.14 | 21.42 |
| Bradford | Southside Elementary | 28 | 16 | 6 | 28.00 | 16.00 | 6.00 |
| Brevard | Discovery Elementary | 26 | 27 | 6 | 36.14 | 37.53 | 8.34 |
| Broward | Challenger Elementary School | 23 | 21 | 9 | 17.94 | 16.38 | 7.02 |
| Calhoun | Blountstown Elementary School | 30 | 38 | 12 | 23.10 | 29.26 | 9.24 |
| Charlotte | Vineland Elementary School | 30 | 28 | 6 | 45.60 | 42.56 | 9.12 |
| Citrus | Citrus Springs Elementary School | 26 | 23 | 4 | 42.64 | 37.72 | 6.56 |
| Clay | Lake Asbury Elementary School | 28 | 25 | 3 | 55.44 | 49.50 | 5.94 |
| Collier | Laurel Oak Elementary School | 26 | 37 | 11 | 57.20 | 81.40 | 24.20 |
| Columbia | Summers Elementary School | 27 | 22 | 1 | 34.56 | 28.16 | 1.28 |
| DeSoto | Memorial Elementary School | 18 | 14 | 1 | 23.22 | 18.06 | 1.29 |


| District | School Name - Group 3 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Escambia | Hellen Caro Elementary School | 32 | 25 | 5 | 50.56 | 39.50 | 7.90 |
| Flagler | Belle Terre Elementary School | 29 | 19 | 6 | 67.86 | 44.46 | 14.04 |
| Gadsden | George W. Munroe Elem. | 15 | 3 | 2 | 13.80 | 2.76 | 1.84 |
| Gilchrist | Trenton Elementary School |  |  |  |  |  |  |
| Hendry | Country Oaks Elementary | 25 | 20 | 3 | 29.00 | 23.20 | 3.48 |
| Hernando | John D. Floyd Elementary | 28 | 18 | 3 | 52.08 | 33.48 | 5.58 |
| Hillsborough | Boyette Springs Elementary | 24 | 28 | 8 | 46.80 | 54.60 | 15.60 |
| Holmes | Bonifay Elementary |  |  |  |  |  |  |
| Indian River | Glendale Elementary | 28 | 25 | 7 | 30.80 | 27.50 | 7.70 |
| Volusia | Deltona Lakes Elementary | 14 | 20 | 7 | 24.78 | 35.40 | 12.39 |
| Wakulla | Crawfordville Elementary | 22 | 29 | 8 | 31.02 | 40.89 | 11.28 |
| Walton | Maude Saunders Elementary | 26 | 20 | 4 | 29.12 | 22.40 | 4.48 |
| Washington | Kate M. Smith Elementary |  |  |  | 0.00 | 0.00 | 0.00 |


| District | School Name - Group 3 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| St. Johns | Mill Creek Elementary | 27 | 26 | 8 | 41.04 | 39.52 | 12.16 |
| St. Lucie | Rivers Edge Elementary | 33 | 25 | 6 | 45.21 | 34.25 | 8.22 |
| Sumter | Bushnell Elementary | 15 | 20 | 1 | 18.30 | 24.40 | 1.22 |
| Suwannee | Suwannee Elementary |  |  |  |  |  |  |
| Taylor | Taylor County Elementary | 25 | 23 | 6 | 53.00 | 48.76 | 12.72 |
| Polk | Alta Vista Elementary | 22 | 22 | 5 | 29.48 | 29.48 | 6.70 |
| Putnam | Interlachen Elementary | 31 | 22 | 4 | 38.75 | 27.50 | 5.00 |
| Santa Rosa | Berryhill Elementary | 35 | 35 | 9 | 54.25 | 54.25 | 13.95 |
| Sarasota | Ashton Elementary | 26 | 37 | 17 | 40.30 | 57.35 | 26.35 |
| Seminole | Bear Lake Elementary | 31 | 32 | 11 | 66.03 | 68.16 | 23.43 |
| Orange | Palmetto Elementary | 19 | 7 | 2 | 33.25 | 12.25 | 3.50 |
| Palm Beach | Binks Forest Elementary | 16 | 44 | 25 | 33.76 | 92.84 | 52.75 |
| Pasco | Sand Pine Elementary | 34 | 21 | 5 | 54.74 | 33.81 | 8.05 |


| District | School Name - Group 3 | FCAT <br> Math 4th grade Percent Level 3 | FCAT <br> Math 4th grade Percent Level 4 | FCAT <br> Math 4th grade Percent Level 5 | Total \# of students FCAT Math4 L3 | Total \# of students FCAT <br> Math4 L4 | Total \# of students FCAT Math4 L5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nassau | Hilliard Elementary | 32 | 38 | 6 | 38.08 | 45.22 | 7.14 |
| Okaloosa | Antioch Elementary | 32 | 35 | 12 | 41.60 | 45.50 | 15.60 |
| Okeechobee | Everglades Elementary | 32 | 13 | 1 | 26.88 | 10.92 | 0.84 |
| Levy | Chiefland Elementary | 32 | 21 | 1 | 43.52 | 28.56 | 1.36 |
| Madison | Madison County Central School | 13 | 8 | 0 | 15.60 | 9.60 | 0.00 |
| Manatee | Freedom Elementary | 27 | 26 | 8 | 29.16 | 28.08 | 8.64 |
| Marion | Maplewood Elementary | 21 | 26 | 13 | 21.42 | 26.52 | 13.26 |
| Jefferson | Jefferson County Elementary | 26 | 13 | 1 | 18.72 | 9.36 | 0.72 |
| Lake | Lost Lake Elementary | 28 | 34 | 12 | 72.52 | 88.06 | 31.08 |
| Lee | Gulf Elementary | 30 | 42 | 11 | 67.50 | 94.50 | 24.75 |
| Leon | Gilchrist Elementary | 15 | 42 | 34 | 21.75 | 60.90 | 49.30 |
| Dade | Ernest R Graham Elementary | 25 | 18 | 7 | 73.75 | 53.10 | 20.65 |
| Union | Lake Butler Elementary School |  |  |  |  |  |  |

## LIST OF REFERENCES

Alter, J. (2008, December 15). Bill Gates Goes to School. Newsweek, Retrieved December 30, 2008, from http://www.newsweek.com/id/172572/

American Teacher (2009, March). Washington, D.C.: American Federation of Teachers.

Bailey, J (2000, January). The case for small schools. A special series from the center for rural affairs monthly newsletter. Center of Rural Affairs monthly newsletter, 2-8.

Bard, J., Gardener, C., \& Wieland, R. (2006). Rural school consolidation: History, research summary, conclusions, and recommendations.. The Rural Educator. 27, 40-48.

Bickel, R, \& Howley, C (2000). The influence of scale on school performance: A multi-level extension of the Matthew principle. Education Policy Analysis Archives, 8(22), Retrieved July 16, 2008, from http://olam.ed.asu.edu/epaa/v8n22.

Cotton, K. (1996). School size, school climate, and student performance. Close-up \#20. Portland, OR: Northwest Regional Educational Laboratory.

Florida Department of Education. (2006). Florida school indicators report. Retrieved June 12, 2008 from http://data.fldoe.org/fsir/.

Florida Department of Education. (2006). School accountability reports. Retrieved June 12, 2008 from http://schoolgrades.fldoe.org/default.asp.

Florida Department of Education. (2008). Understanding FCAT reports 2008. Retrieved June 12, 2008 from http://fcat.fldoe.org/pdf/ufr 08.pdf.

Ford, D. (2008).Student success the way they need it: Powerful school change. Phi Delta Kappan. 90, 281-284.
Fowler, Jr., W.J., \& Walberg, H.J. (1991). School size, characteristics, and outcomes. Educational Evaluation and Policy Analysis. 13, 189-202.

Friedkin, N.E., \& Necochea, J. (1988). School system size and performance: A contingency perspective. Educational Evaluation and Policy Analysis. 10, 237-249.

Fulton, M. (1996). The ABCs of investing in student performance. (ERIC Document Reproduction Service No. ED 402652) Retrieved July 16, 2008, from ERIC database.

Fusarelli, L. D. (2004).The potential impact of the no child left behind act on equality and diversity in American education. Educational Policy. 18, 71-94.

Gallucci, C. (2008).Districtwide instructional reform: Using sociocultural theory to link professional learning to organizational support. American Journal of Education. 114, 541-581.

Gamoran, A. (1996).Student achievement in public magnet, public comprehensive, and private city high schools. Educational Evaluation and Policy Analysis. 18, 1-18.

Graham, E. (2009). Public school education -The case for reduced class size. Retrieved May 2, 2009, from http://www.eric.ed.gov/ERICDocs/data/ericdocs2sql/content storage 01/0 000019b/80/42/c2/f3.pdf.

Haenn, J. (2002, April 1). Class Size and Student Success: Comparing the Results of Five Elementary Schools Using Small Class Sizes. (ERIC Document Reproduction Service No. ED464725) Retrieved September 28, 2008, from ERIC database.

Harris, D., \& Arizona State Univ., T. (2004, April 1). Class Size, PreKindergarten, and Educational Adequacy: Costs and Funding Options for Florida. Policy Brief. Education Policy Studies Laboratory, Arizona State University College of Education, (ERIC Document Reproduction Service No. ED483726) Retrieved September 28, 2008, from ERIC database.

Howley, C., \& Bickel, R. (1999, August 25). The Matthew Project: National Report. (ERIC Document Reproduction Service No. ED433174) Retrieved July 16, 2008, from ERIC database.

Hylden, J. (2004). What's so big about small schools? The case for small schools: Nationwide and in North Dakota. Retrieved September 24, 2008 from http://www.hks.harvard.edu/pepg/PDF/Papers/PEPG0505Hylden.pdf.

Irmsher, K., \& ERIC Clearinghouse on Educational Management, E. (1997, July 1). School Size. ERIC Digest, Number 113. . (ERIC Document Reproduction Service No. ED414615) Retrieved July 16, 2008, from ERIC database.

Jepsen, C., \& Rivkin, S. (2007). Class size reduction and student achievement: The potential tradeoff between teacher quality and class size. The journal of human resources. 44, 223-250.

Kahne, J. E., Sporte, S.E., \& Easton, J.Q. (2005). Creating small schools in Chicago: An early look at implementation and impact. Improving Schools. 8, 7-22.

Kahne, J. E., Sporte, S.E., Torre, M.D. \& Easton, J.Q. (2006). Small high schools on a larger scale: The first three years of the Chicago high school redesign initiative. Consortium on Chicago School Research at the University of Chicago. 1-3.

Lashway, L. (1999).School size: Is small better?. Research Roundup. 15, 1-4.

Lee, V. E., \& Smith, J. B. (1993). Effects of school restructuring on the achievement and engagement of middle-grade students.. Sociology of Education. 66, 164-187.

Lee, V.E., \& Smith, J.B. (1997). High school size: Which works best and for whom?. Educational Evaluation and Policy Analysis. 19, 205-227.

Mathis, W. J. (2003).No child left behind: Costs and benefits. Phi Delta Kappan. 84, 679-686.

McNeil, M. (2008, February 20). Leaner Class Sizes Add Fiscal Stress To Florida Districts. Education Week, 27(24), 1-18. Retrieved September 28, 2008, from Professional Development Collection database.

Meier, Deborah (1995). The Power of their ideas: Lessons for America from a small school in Harlem. Boston, MA: Beacon Press.

Mosteller, F. (1995).The Tennessee study of class size in the early school grades. The Future of Children. 5, 113-127.

National Education Association (2003). Protecting public education from tax giveaways to corporations: Property tax abatements, tax increment financing, and funding for schools. Washington, DC: NEA Research.1-23.

National Education Association (2007). Rankings and estimates: Rankings of the states 2006 and estimates of school statistics 2007. Washington, DC: NEA Research. 11-13, 53-57

Overbay, A. (2003).School size: A review of the literature. Research Watch. 3, 1-12.

Porter, K., \& Soper, S. (2003).Closing the achievement gap: Urban schools. The National Clearinghouse for Comprehensive School Reform. 2.

Raywid, M.A. (1997).Successful school downsizing.. School Administrator.. 54.9, 18.

Raywid, M., \& ERIC Clearinghouse on Rural Education and Small Schools, C. (1999, January 1). Current Literature on Small Schools. ERIC Digest. . (ERIC Document Reproduction Service No. ED425049) Retrieved July 16, 2008, from ERIC database.

Rubenstien, G. (2007, September). Northern Lights. Edutopia, 3, 26-30.
Success for All Foundation (2006). Success for Florida. Retrieved September 24, 2008 from http://www.successforall.net/research/reports.htm.

Smith, M. L. (2004, April). Retaining students in grades: Consequences for Florida. Retrieved from http://epicpolicy.org/files/EPSL-0401-114EPRU.pdf.

Sofo, R. (2008).Beyond NCLB and AYP: One superintendent's experience of school district reform. Harvard Educational Review. 78, 391-409.

SPSS®. (2008). Statistical package for social sciences for Windows, Version 17.0. [Computer program]. Chicago, IL: SPSS, Inc.

Sunderman, G. L., Tracey, C. A., Kim, J., \& Orfield, G. (2004). Listening to teachers: Classroom realities and No Child Left Behind. The Civil Rights Project, 1-47.

Thompson, D. R. (1996).School size counts. School Administrator. 53, 6.
U.S. Department of Education (2001). Public school finance programs of the United States and Canada: 1998-99. Retrieved from http://nces.ed.gov/edfin/state financing.asp on August 9, 2008.

Vander Ark, T. (2002).Class size, school size: The case for small high schools. Educational Leadership. 59, 55-59.

Wainer, H., \& Zwerling, H. (2006). Evidence that smaller schools do not improve student achievement. Phi Delta Kappan. 88, 300-303.

