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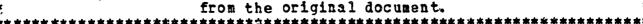
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ABSTRACT

A study was conducted to assess the impact of the Florida State Student Assessment Test (FSSAT) (Functional Literacy Test) on the enrollment in secondary-level vocational education . courses. The 67 school districts in Florida were grouped according to population density into three levels of urbanization (low, medium, and high). Ten percent of the public high schools in each level of urbanization were randomly selected to participate in the study. Intact twelfth grade classes were randomly selected, and students in these classes were divided into vocational and nonvocational education groups. These students and county vocational education directors, vocational education teachers, and principals were surveyed. Contrary to the beliefs of vocational educators, vocational education enrollments increased. Disproportionate enrollment trends did exist: that is, while secondary-level vocational enrollments increased in Florida, total secondary-level enrollment declined. Very few students were deterred from enrolling in vocational courses because of the requirement to be remediated in order to pass the FSSAT. However, a substantial proportion of vocational students who failed the FSSAT did not re-enroll in vocational education courses. The overall effectivenes of the remedial practices was found to be low. It was recommended that (1) systematic, standardized remedial efforts be made: (2) procedures for measuring effectiveness of remedial practices be established; and (3) the reasons that students who failed the FSSAT did not re-enroll in vocational courses be . studied. (KC)

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Final Report

Project No. DVE 0-1C19

From July 1, 1979 to June 30, 1981

A Study to Determine the Impact of Basio Skills and Functional Literacy Requirements on Meeting the Vocational Needs of Secondary Students

The Florida State University
Tallahassee, Florida 32306

Project Director: Hollie B. Thomas

The project reported herein was conducted pursuant to a grant from the Division of Vocational Education, Florida Department of Education. Contractors undertaking such projects are encouraged to express freely their professional judgements in the conduct of the project. Points of view or opinions, stated do not, therefore, necessarily represent the official position or policy of the Florida Department of Education.

June 1981

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Sincerely,

Hollie B. Thomas Project Director

S-Thomas

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Abstract

Problem

Many vocational educators believed that the Florida State Student Assessment Test (FSSAT) was responsible for a decline in secondary level vocational education enrollments because of the requirement that students who failed the exam must enroll in remedial courses, thus reducing their opportunity to take a vocational elective. It is also believed that vocational education offers a viable alternative for preparing students for the exam.

Objective .

The objective of this study was to assess the impact of the Florida State Student Assessment Test (Functional Literacy Test) on the enrollment in secondary level vocational education courses. Answers to the following questions were sought: (1) What are the practices for achieving remediation in each county in Florida?

(2) Are students deterred from taking vocational education classes because of a need to prepare for the FSSAT? (3) Was enrollment in vocational classes increased or decreased disproportionately to the total school enrollment since the implementation of the FSSAT?

(4) Are differences in the rate of increase or decrease in vocational programs dependent upon practices employed for remediation? (5) Does the strength of the vocational program have an effect on the holding power of students who failed the exam? (6) Did the procedures employed for remediation work? and (7) What remedial procedures are worth repeating?

Procedures

The 67 school districts in Florida were grouped according to population density into three levels of urbanization (low, medium, and high). Ten percent of the public high schools in each level of urbanization were randomly selected, to participate in this study. Intact twelfth grade classes were randomly selected, and students in these classes were divided into vocational and non-vocational education groups. Vocational education teachers were randomly selected from the participating schools, while school principals and county vocational education directors were requested to participate in the study. This procedure resulted in the following number of participants: 1181 students, 215 vocational education teachers, 27 principals, and 20 county vocational education directors.

Three survey Astruments were developed: one for administration to all 67 county vocational education directors, the second for administration to the students, and the third for administration to vocational education teachers, principals, and county vocational education directors from the sample schools and counties.



Results and Potential Utilization

Contrary to the beliefs of vocational educators, vocational education enrollments increased. Disproportionate enrollment trends did exist, that is, while secondary level vocational enrollments increased in Florida, total secondary level enrollments declined. Very few students were deferred from enrolling in vocational courses because of the requirement to be remediated in order to pass the FSSAT. However, a substantial portion of vocational students who failed the FSSAT decided not to re-enroll in vocational education courses. Two of twenty remedial practices identified were found to be predictive of enrollment increases. The overall effectiveness of the remedial practices was found to be low, and there was no assurance that any remedial practices would be repeated in the following year.

It is recommended that attention be given to the systematic development of remedial instruction, and to the standardization of remedial practices. In addition, procedures for measuring effectiveness of remedial practices should be established; and the reasons why students who fail the FSSAT do not re-enroll in vocational courses, and the "holding power" of vocational courses should be investigated.

Introduction

The Florida State Student Assessment Test (FSSAT), formerly the Basic Skills Test and Functional Literacy Test, is a minimum competency test which evolved from the 1971 Educational Accountability Act (229.57 F.S.). The 1976 Educational Accountability Act (229.55 F.S.), an amended version of the 1971 legislation, established the FSSAT on a statewide basis. The Educational Accountability Act requires that students master basic skills, complete a specific number of course credits, and perform satisfactorily on the Functional Literacy Test (State Student Assessment Test, Part II) which serves as the basic criterion for graduation (Tesolowski, 1979).

Statement of the Problem

The implementation of the FSSAT has had the expected impact on students; i.e., there is more concern with acquiring the skills needed to pass the FSSAT, or at least concern for passing the test. The rate of test failure, especially at the eleventh grade level, has created an awareness on the part of the public for the problems relevant to functional literacy and the acquisition of basic academic skills. These effects are, for the most part, positive, for it would seem desirable for students to be concerned with acquiring the basic survival skills in reading and math. The question addressed in the research was: "What has been the impact of the Florida State Student Assessment Test and subsequent remediation practices on enrollment in vocational education programs at the secondary level?"

Many vocational educators believed that the FSSAT has been responsible for enrollment decline in vocational education programs within the state. Reduction in enrollment was purported to have occurred as a consequence of the requirement that students who had failed the FSSAT must enroll in remedial instruction, thus depriving them of an opportunity to take a vocational education elective. Each school district has implemented a variety of remedial practices; however, it appears that few school administrators have considered the alternative of utilizing vocational education as a vehicle for delivering the educational experiences necessary for students to develop the competencies required to pass the FSSAT.

Many vocational educators recognize that vocational education offers a viable alternative in which students could prepare for a retake of the exam. In fact, because of the applied nature of vocational education, it is felt that "real world" experiences could be provided that would better facilitate the development of functional literacy. This would enable the students to utilize their knowledge for everyday living --not just for passing an exam.



Need

The impact of the State Student Assessment Test on vocational education enrollment was a matter of speculation and isolated observations. Although it is unlikely that what has been observed are isolated instances, the question of what the impact has been on vocational enrollments remained unanswered. Thus, vocational educators were placed in the position of needing to know what the impact was, but did not have adequate information to speak authoritatively. In addition, a county-by-county review of the impact was needed to determine if the practices employed to assist students in passing the State Student Assessment Test in the various counties had a differential impact on meeting vocational program needs of secondary students.

Purpose

As noted in the statement of the problem, the purpose of the study was to assess the impact of the Florida State Student Assessment Test on the participation of secondary students in vocational education classes. In order to accomplish this purpose, answers to the following questions were sought.

- What were the practices for achieving remediation in each county in Florida?
- 2) a. Were students deterred from taking vocational education classes because of anticipated need for preparing for the test prior to taking the 11th grade test?
 - b. Did students who failed the test in their junior year enroll in remedial courses in lieu of vocational courses?
- 3) Did enrollment in vocational education classes increase or decrease disproportionately to the total enrollment after the implementation of the procedures to measure functional literacy for remediation?
- 4) Were the differences in rate of increase or decrease in vocational programs dependent upon the practices employed for remediation?
- 5) Did the strength of the vocational program have an effect on the holding power of students who failed the exam, i.e., are students who enrolled in a strong vocational program more likely to re-enroll in that program after failure than are students who were enrolled in weak programs?
- 6) Did the procedures employed for remediation work?

7) What procedures employed for remediation did the administration feel were worth repeating for a second year?

Method

Participants

County vocational education directors, vocational education teachers, school principals, and vocational and non-vocational education students participated in the study. Students were categorized as vocational and non-vocational based upon their course concentration. That is, students who were not enrolled in any vocational education courses, or who had selected tracks that did not require vocational education courses, or who had enrolled in only one or two vocational education courses in order to satisfy elective requirements constituted the group labeled, "non-vocational students." The vocational education student group was composed of all those students who were enrolled in vocational education courses. The selection procedures employed to determine the participants in this study are described in the following section.

Selection of schools. The 67 counties of the state of Florida were assigned to one of three levels of urbanization (low medium, and high) based upon population density figures for each county recorded in the 1970 census. The public high schools from each level of urbanization were randomly selected to participate in this study. The distribution of population, counties, high schools, and sample high schools by level of urbanization is presented in Table 1.

Table 1

Distribution of Population, Counties, High Schools, and Sample High Schools by Level of Urbanization

Level of Urbanization	Population	No. of Counties	No. of High Schools in Each Level	No. of High Schools in Study
Low	0-29,999	26	. 43	4
Medium	30,000-99,999	2 ó	62	6
High	Over 100,000	21	179	18

The counties participating in this study are identified by specific markings which correspond to population densities (Figure 1). The unmarked counties were not selected for inclusion in this study.



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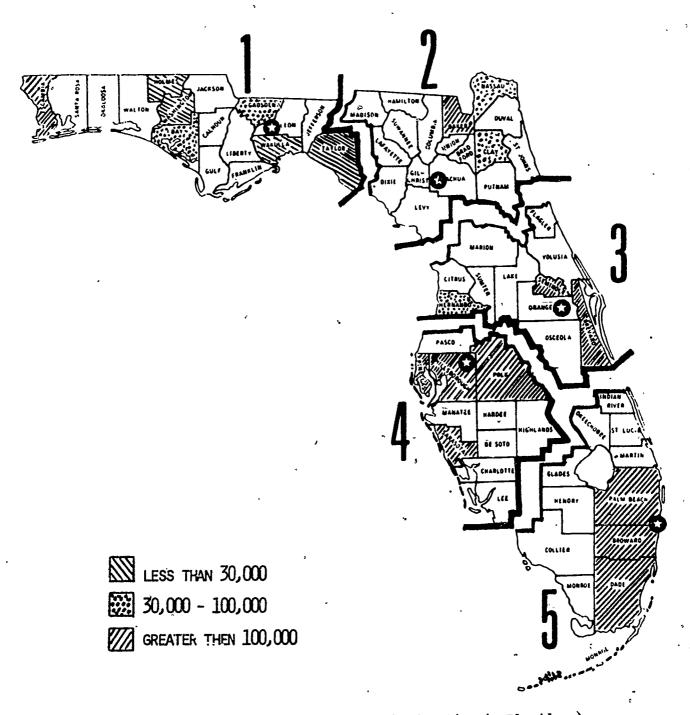


Figure 1. Population Densities for the Counties in Florida from which Sample Schools were Randomly Selected

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After the high schools had been selected, it was then necessary to gain the support of the county and school administrators. superintendents of schools were notified by telephone that specific schools within their jurisdiction had been selected to participate in this study. A brief explanation about the purpose of the study, . the procedures for school and student selection, and the type of commitment required of the participants was offered during the telephone conversation. During the same conversation, it was requested that a meeting be convened which would include the superintendent of schools (or his representative), the principal of the schools asked to be involved in this study, and the county vocational education director. The purposes of this meeting were (1) to seek the support of the superintendent and principals, (2) to allay any misgivings regarding the purpose and future use of the data gathered during this study, and (3) to respond to questions about the content of the survey instruments. In several instances the superintendent acknowledged interest in the study and then delegated the responsibility for overseeing the process to a staff member. Appointments with the superintendent or the staff representative were also scheduled at this time.

Subsequent to the telephone dialogue, a letter was dispatched to each superintendent confirming the interview date (Appendix A). This correspondence also identified the funding source, the project director, capsulized the intent of the study, and briefly described the role of the research assistant.

The prearranged meetings were usually convened in the principal's office with the principal, the vocational education director, and the representative of the superintendent in attendance. During these sessions the purpose of the study was reiterated, the survey instrument reviewed and critiqued, and questions were answered relevant to the content of the instruments. Assurances were also given that confidentiality would be maintained, and that participants would not be required to provide any demographic data other than sex, race, and age. A manual detailing pertinent features of the project was given to those attending the meeting (Appendix B). Finally, dates and times for the administration of the survey instrument were scheduled and procedures for selecting participants for the study were discussed.

Students. Three alternative approaches were employed for selecting both the non-vocational and vocational education student participants. The choice of alternatives was dependent upon class scheduling, class size, availability of students, and the administrative policies of the participating school. The three alternatives included:

 A random selection of students from the twelfth grade who had taken the FSSAT.



- Twelfth grade students were divided into two groups, those who passed and those who failed the FSSAT, and then a random selection of students from the two groups was made.
- 3) A random selection of an intact twelfth grade class to which students had been more or less randomly assigned, and which contained students who passed and failed the FSSAT.

The third alternative was the choice preferred by the principals of the 28 high schools participating in this study. A total of 1,223 twelfth grade students, who had purportedly taken the FSSAT in the eleventh grade, were selected. Forty-two students were excused from the study because they had not taken the FSSAT in the 11th grade. Of the remaining 1181 participants 546 (46.1%) were vocational students. The distribution of students by student category and level of urbanization, and by student category, race, and sex are presented in Table 2 and Table 3 respectively.

Table 2

Distribution of Student Participants by Student
Category and Level of Urbanization

Level of	S	tudents ^a	
Urbanization	 Non-vocational	Vocational	'Total
Low	83(13.1)	45(8.3)	128(10.8)
Medium	122(19.2)	105(19.3)	227 (19.2)
High	431(67.7)	395 (72.4)	826 (70.0)

a Numbers in parentheses are percents of the total number of participants

Distribution of Student Participants by Student Category, Race, and Sex

Student	<u>, s</u>	Sex	·		Race *		
Category .	Male	Female	White	Black	Hispanic	Asian	Indian
Non-Voca- tional	304	322	418	· 131	43	2	. 1
Vocational* ~	248	279	342	134	、38	5	5 .

^{*}One school neglected to include sex and race data on vocational educational students

Selection of vocational education teachers. Two options were available to the researcher for selecting vocational education teachers to participate in this study.

- A random selection of ten vocational education teachers from the total vocational education faculty.
- 2) Inviting all vocational education teaching faculty to participate if there were fewer than ten vocational education teaching faculty at the participating school.

Both options were exercised and resulted in the selection of 230 vocational education teachers. Fifteen teachers, who felt unqualified to respond to several items on the instrument due to their limited teaching experience in vocational education were excused from the study.

Selection of vocational education directors and school principals. The vocational education directors for the counties in which the 28 schools were selected, and the principals of these schools, were requested to participate in the data collection process. The 20 county vocational education directors, and the 28 school principals agreed to participate in the study. The responses of one principal were disallowed because he had used a vocational education director survey instrument. The distribution of all participants by county, school, occupation, and student category are summarized in Table 4.

Instruments

Three survey instruments were designed for use in this study. These instruments were administered to vocational and non-vocational education students, teachers, principals, and county vocational education directors. The format and purpose of each of these instruments is described next.

The first questionnaire, designed for administration to each of the 67 district vocational education directors in the state, consisted of 13 yes-no items and two open-ended items (Appendix C). The purpose of this instrument was threefold; (1) to ascertain the types of remediation practices used in Florida following the implementation of the FSSAT, (2) to gather suggestions for new methods of remediation, and (3) to determine if the remediation practices in the various counties had any impact on meeting vocational program needs of secondary students.

Two questionnaires were designed to measure the impact of the FSSAT and subsequent remediation practices upon vocational education enrollment at the secondary level. An eight-part questionnaire,

Table 4
Distribution of Participants by County, School, Position, and Student Category

	·	•	Studen	ts	To	tal	VE Te	achers	Prin	cipals	V.E. Directors	Total	l Subject
Population	County	School	Non VE	VE.	School	County	School	County	School	County	County	School	County
•	Holmes	Holmes County	25	11	36	36	5	5	1	1	1	43	43
Rural	Taylor	Taylor County	12	18	30	30	6	6	1	1	1	38	38
Rural	Wakulla	Wakulla County	23	4	27	27	9	9	1	1	1	38	38
	Washington	Chipley High	23	12	35	35	3	3	1	1	1	40	40
	Зау	A. Crawford Mosley	29	23	52	52	9	9	1 *	1	1	63	` 63
	Clay	Clay County	25	16	41	41	10	10	1	1	1	53	53
Middle	Gadsden	Greensborough	10	20	30	30	3	5	1	2	•	34	76
•		Chattahoochee	22	17	39	39	1	13. 4	1	2	1	41	,. 10
	Hernando	Hernando	19	17	36	36	8	8	1 .	1	1	46	46
)	Nassau	W. Nassau	17	12	29 •	29 ·	8	8	1	1	1	39	39
	Baker	Baker County	35	17	52	52	10	10	1	1	i	64	64
	Brevard	Merritt Island	18	24	42	42	8	8	1	<i>\$</i> 1	1	52	52
	Broward	McArthur -	9	25	34	80	7	14	1	2	1	42	97
		Dillard	24	* 22	46	80 -,	7	14	1.	2		54	,,
	Dade	Miami Jackson	14	25	. 39	103	, 9	18	1 `	2	1	49	124
		Hialeah	29	3-5	· 64	103	9	10	1	-	-	74	
	Escambia	Escambia	26	13	39		10		1			50	
	•	Pensacola	21	25	46	145	10	30	1	3	1	57	179
Metropolitan		W. J. Woodham	30	30	60		10		1			71	
	Hillsborough	Jefferson	27	15	42	42	10	10	1	1	1	54	54
	Palm Beach	Twin Lakes	21	15	36	89	10	15	1	1	1	47	106
		Palm Beach Gardens	33	20 1	53		5		-			. 58	
	Pinellas	Dixíe Hollins	16	15	31	75	9	18	1	2	1	41	96
	••	Clearwater	26	18	44		9		1			54	•
	Polk	Mulberry Jr Sr.	20	27	47	86	, 7	11	1	2	1	55	100
	_	Bartow	23	16	39		4		1		ē	44	
	Sarasota	Sarasota	30	33	63	63	10	10	1	1	. 1	75	75
	Seminole	Seminole	20	29	49	49	9	9	1	1		59	59
Totals	20	28	636	545	1181	1181	215	215	27	27	. 19	1442	1442

which was administered to vocational and non-vocational education students, consisted of 65 items (27 yes-no and 38 Likert type items) (Appendix D). The questionnaire requested students to evaluate: (1) how they prepared for the FSSAT, (2) the effect of the FSSAT on them as students, (3) their attitude toward the FSSAT, (4) how their school assisted them in preparing for the FSSAT, (5) how they rated their school in assisting them to prepare for the FSSAT, (6) the effect of the FSSAT on their enrollment in vocational education courses, (7) the effect of the FSSAT upon their individual performances and attitudes toward school, (8) the opportunity to remain in, or enroll in vocational education courses, and finally, whether or not they passed the FSSAT in the eleventh grade. The student questionnaires were color coded (blue for vocational education students, and white for non-vocational education students) in order to facilitate handling.

The second questionnaire, designed to be administered to vocational education teachers, principals, and district vocational education directors, consisted of 50 Likert type items (Appendix E). Additional items were included in the survey instrument that addressed such issues as the development of remedial materials, budgeting and administrative support, and availability of human and material resources.

Procedures

The fifteen item remedial practices questionnaire was mailed to each of the 67 county vocational education directors in the state of Florida. Responses from the questionnaire served as a guide for the development of the survey instruments employed in the study. Two weeks after the 15 item survey instrument had been mailed, follow-up telephone calls were placed to non-respondents.

In the interim, informal interviews were conducted by the researcher with school principals and county vocational education directors in order to delineate factors other than the FSSAT that might contribute to a declining vocational education enrollment. Questions for the survey instruments were solicited from those who were interviewed. The questions suggested were reviewed for commonalities, and were either consolidated, rephrased, or retained unrevised for incorporation into the final survey instruments.

A draft of the student survey instrument was completed and permission obtained from the county school board to field test the instrument with twelfth graders in local high schools. Two high schools provided a cross-section of students to review the instrument. Based upon these field testing sessions some of the items were either eliminated or rewritten. A number of items suggested by the students were incorporated into the questionnaire. No data were collected during these field testing sessions.

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The student questionnaire was designed and developed prior to the questionnaire for vocational education directors, vocational teachers, and school principals. Questions appearing in the student questionnaire were included in the survey instrument administered to vocational education directors, vocational education teachers, and school principals. The instrument underwent an intensive review by the personnel of the Division of Vocational Education and local school administrators who were not involved in the actual study.

Administration of the questionnaire. The researcher conducted the preliminary meetings and interviews, and also administered the survey instrument to the participating students. In circumstances where it was deemed impossible to administer the survey instrument to the vocational education teachers and principals simultaneously with the students, the questionnaires were left with one individual who assumed responsibility for delivering and retrieving the completed instruments from the teachers and principals. The questionnaires were then mailed to the researcher, or retrieved by him on a predetermined date. Teachers and principals were usually unable to participate at the same time as the students because of class schedules, or previously arranged administrative commitments. These unforseen circumstances did not interfere with the data collection schedule or the results of the study.

Administration of the questionnaire occurred at the same time for all students. Students were separated into two groups; non-vocational and vocational education students. This was done to facilitate distribution and collection of the instruments. It also permitted the researcher to conduct a visual check on the total number of participants, and to record race and sex data. The visual observations of sex and race were recorded in order to confirm data provided on the student questionnaires.

The purpose of the survey was explained to the students. Instructions for responding to the instrument were given and questions answered. All of the participants were requested to acknowledge whether or not they had taken the FSSAT in the 11th grade. Students who had not taken the FSSAT in the 11th grade were excused. The participants were requested to write their sex, race, and age in years and months on the top center of the first page of the instrument. All instruments were coded with the official county number and with the numbers 1,2, or 3. The latter numbers served to identify the sample schools within a given county.

Upon completing the questionnaire, which required about 20 minutes, the students were either dismissed by their respective teachers, advised to go to the next class period, or requested to remain until the time of the current period had elapsed. No problems were encountered in administering the student questionnaire.

Results

The purpose of this study was to assess the impact of the FSSAT and subsequent remediation practices on vocational education enrollments at the secondary level. In order to determine the impact of the FSSAT, survey instruments were developed and administered to vocational education teachers, county vocational education directors, school principals, and students. As previously stated, the survey instruments were designed to (1) determine if vocational education enrollments had increased or decreased disproportionately to total school enrollments since the implementation of the FSSAT, (2) identify . remedial practices implemented because of the FSSAT. (3) determine if students were deterred from entering vocatio al education programs in order to prepare for the FSSAT, (4) determine if the rate of increase or decrease in vocational education programs was dependent upon re- " medial practices employed, (5) assess the strength (holding power) of vocational education programs, (6) determine if the remedial practices worked, and (7) if these remedial practices would be repeated the following year.

The results section is divided into two parts. The first part provides some insights about the FSSAT and the effects of the FSSAT as perceived by all the participants. The second part is furth subdivided into seven subparts which correspond to the seven quest s regarding enrollments addressed in this study. The insights derived from the responses on the student questionnaire are discussed next, followed by a brief discussion of the general information obtained from the instrument administered to vocational teachers, principals, and county vocational directors.

The Student Questionnaire

The student questionnaire generated additional information about the FSSAT which was not requested in the original funding proposal. It was anticipated that the additional information might help to explain recent enrollment trends in vocational education. Enrollment changes will be treated later in this report; however, a brief summary of the results of the student questionnaire is appropriate at this time.

Preparation for the FSSAT. More than 80% of the student participants expressed no personal need for remediation. In fact, over 90% of the students made no changes in their class schedules in order to prepare for the FSSAT. Sixty-one percent of the students indicated that they prepared for the test in their general education classes, while 47% of the students studied and reviewed the material on their own.

Personal effect of FSSAT on students. The students for the most part reported that the FSSAT did not interrupt learning, did not impede the attainment of personal goals, did not deter participation in social



1.1

activities, and did not interfere with vocational education programming. Several students credited the FSSAT with diagnosing academic weaknesses and with providing guidance in selecting courses that might be useful in preparing for graduation in their careers. An equal number of students (38%) had either no opinion or disagreed that the FSSAT assisted them academically in their vocational education courses.

Student feelings about the FSSAT. Positive responses were registered by the students about the FSSAT. They felt it was a good test, useful, and an accurate measure of educational achievement.

School assistance in preparing and remediating students for the FSSAT. The majority of student respondents (85%) indicated that assistance in preparing for the FSSAT occurred in their school. While the frequency of use of various remedial practices differed, it was noted that a number of students were unaware of this support. Most remediation occurred during regularly scheduled classes, although some students reported that assistance was available at other times. A more detailed discussion on remedial practices appears later in this report.

Student ratings of the school. Students were also requested to evaluate their respective schools on preparing them for the FSSAT, the quality of that preparation, and the availability and quality of counseling prior to the FSSAT. Forty-six (46%) perce.t of the respondents indicated that their school prepared students to take the FSSAT. Many students rated their schools as only "average" in these areas. The quality of the counseling and the programming for preparing students for the test fared less well than would be expected.

A section of the student questionnaire considered the effects of the FSSAT on enrollment in vocational education courses; that is, whether or not a student was able to continue in, or was prevented from taking; a vocational education course in order to prepare for the FSSAT. These data are described in the section on enrollments.

Students failing the FSSAT. Specific questions were posed for those students who failed the FSSAT (N = 196 or 16.6 percent of sample population) in the 11th grade. While 81 percent of the students who reported failing did not drop a vocational course to prepare for the test, 55 percent indicated no preference to re-enroll in a vocational education course.

The total frequency, and percentage, of responses to items on the student questionnaire concerning the FSSAT are presented in Appendix F. These data include the responses by all the students collectively, and according to student category (vocational and non-vocational). Appendix G presents these data by sex and by student category.

Questionnaire Prepared for Vocational Education Teachers, Vocational Education Directors, and School Principals

The questionnaire prepared for the vocational education teachers, vocational education directors, and school principals concerning the FSSAT contained 50 five point Likert items (strongly agree, agree, "undecided, disagree, and strongly disagree). The combined percentage of responses for the three groups of participants were condensed under three headings, Agree (A), Undecided (U), and Disagree (D) in order to facilitate interpretation of the results (Table 5) and reading of the table. These same data, grouped according to vocational education teachers, vocational directors, and principals are presented in Table 6.

The items in this instrument can be clustered into the following categories: (1) effects of the FSSAT on enrollment, (2) overall effects of the FSSAT on the school, (3) quality of counseling, (4) remedial practices, and (5) recommendations. These categories will be discussed briefly in terms of the data presented in Table 5 and Table 6.

There does not appear to be a clear perception among the participants regarding the effect of the FSSAT on enrollment. Only a few respondents (28.0%) attributed the decline in enrollment to the FSSAT. A majority (80%) of the respondents concurred that students who failed the FSSAT are permitted to enroll in vocational education courses. No clear pattern emerges when the responses are compared according to occupational category; that is, teacher, director, or principal.

Some positive effects were observed by teachers and administrators since the implementation of the FSSAT. Learner performance has improved, programming efforts are more successful, and the quality of instruction has improved. While these data are not conclusive, they do reflect a positive trend toward excellence. The vocational education directors and school principals reflect a much more positive outlook toward the effect of the FSSAT in the schools than do the vocational education teachers.

In terms of remediation, it was clear that vocational education teachers did not provide the remedial assistance needed by the students to prepare for the FSSAT, and that vocational education classes are not the vehicle for remediation. A more detailed discussion on remedial practices is presented later in the report. However, it is important to note that a significant number of the participants were either unfamiliar with, or unaware of, the remedial practices available to the students.

As the questions posed for this study are addressed, references will be made to the specific item(s) in the survey instrument that is (are) relevant to the topic under discussion. The first issue to be addressed disproportionate enrollments will be introduced by a brief

Table 5

Response Ratings of Vocational Education Teachers,
Vocational Education Directors, and Principals by
Percentage to Survey Questions Concerning the
Florida State Student Assessment Test

COD	E: Agree (A); Undecided (U); Disagree (D)	•	. ,	•
		A	บ	D
1)	Enrollment in vocational education classes in this school has declined as a consequence of the Florida State Student Assessment Test		ι •	•
	(FSSAT).	28.0	16.1	·56.0
2)	Enrollment in vocational education classes has declined in this school because students who fail the FSSAT must participate in a re-	• .		•
	mediation program.	34.0	12.2	53.9
3)	Enrollment in vocational education courses had decreased at a greater rate than the enrollment in other elective courses since the implementation of the FSSAT.	17.6	24.0	58.4
4)	Enrollment in vocational education courses has increased at a greater rate than the enrollment in other elective courses since the implementation of the FSSAT.	13.5	30.02	56.5
5) ·	Students who fail the FSSAT are permitted to enroll in vocational education courses.	80.4	12.3	7.4
6)	Students who fail the FSSAT are permitted to enroll in elective courses other than vocational education courses.	69.1	20.2 ₅	1,0.7
7)	The increase or decrease in vocational education enrollment has been due to factors other than the FSSAT.	72.5	18.5	8 . 8
ś) -	Our school has encouraged students to participate in remedial opportunities offered through area vocational education centers.	42.1	34.0	23.9

Table 5 (continued)

		A	U	D
9)-	The FSSAT is an appropriate test for measuring basic skill competencies.	60.2	28.4	11.5
10)	As a result of the FSSAT, students in this school have improved their performance in basic skills.	69.3	23.0	7.7
11)	The FSSAT has helped teachers to develop more effective courses for their students.	59.7	32.0	10.3
12}^	The FSSAT as a diagnostic tool influences the programming efforts in this school in a positive way.	65.2	26.0	8.8
I 3)	The quality of instruction has improved in this school as a result of the implementation of the FSSAT.	53.1	34.7	12.2
14)	The quality of counseling in this school for students preparing to take the FSSAT is excellent.	54.5	31.7	13.8
15)	The quality of counseling in this school for preparing students who failed the FSSAT for a retake is excellent.	64.3	27.2	8.4
16)	The quality of remediation programs in this school that prepare students for a retake of the FSSAT is excellent.	72.2	20.6	7.2
17)	The counseling procedures used in this school to assist students in preparing for the FSSA have been successful.	1 T 58.1	34.6	7.4
18)	Students should be counseled into vocational education courses if there is a likelihood that they will fail the FSSAT.	28.6	15.6	55.7
19)	Students from this school who have been counseled on how to prepare for the FSSAT have been successful in their retare exam.	69.0	29.4	1.6
20)	Students choose to enroll in vocational education courses to learn basic skills rather than remain in regular academic classes.	32.7	. 22.8	44.4
21)	**************************************	51.4	33.7	14.9

Table 5

(continued)

	m m m m m m m m m m m m m m m m m m m	A		<u> </u>
22)			•	
	-be-responsible for preparing all remedial			
	materials.	·36.5	10.9	44.5
		**	•	
23)	•		•	
	preparing remedial materials.	15.6	30.8	53.6
24)				
	available to conduct remediation classes. $^{\diamond}$	64.3	18.6	17.1
	,			
25)	- · · · · · · · · · · · · · · · · · · ·	•		
	ing the vocational training they need for			
	job entry.	23.6	27.0	49.4
		•		
26)		d	,	
	the FSSAT has interfered with course goals	•		
	established by teachers.	29.7	26.2	44.1
•				
27)	The FSSAT has interfered with the overall cu			
	riculum goals of this school.	16.7	25.5	57.8
	•			
28)	The FSSAT has created more work for me.	29.6	13.8	56.6
29)	Students who fail the FSSAT are withdrawn			
	from vocational education classes in order			
	to prepare for the FSSAT.	38.9	16.8	44.3
30)	The rate of student withdrawal from elec-			
	tives other than vocational education			
	courses has increased in this school since			
•	the implementation of FSSAT.	29.0	43.1	27.8
	•			
`31)	The rate of student withdrawal from voca-			
-	tional education courses has increased in			
	this school since the implementation of			
	FSSAT.	28.5	30.4	41.0
		20.0		
32)	Teachers are expected to teach remedial			
	classes during regularly scheduled hours.	65.4	17.5	17.1
			17.5	
33)	New teachers are expected to teach remedial			
	classes during regularly scheduled hours.	56.1	24.8	19.1
	• • • • • • • • • • • • • • • • • • • •	5012	2	
34)	Volunteer aides are utilized to assist			
-	teachers in conducting remedial classes.	23.2	33.5	43.3
			55.5	-3.3
35)	Teachers are often released from regular-			
-	ly assigned classes in order to conduct			
	remedial classes.	21.3	21.3	E7 4
,	Y	41.3	21.3	57.4

Table 5 (continued)

	(constituting			
		A	U	D
36)	Students are offered remedial assistance outside of regular class hours.	40.2	26.8	32.9
37)	Practices used for remediation are reviewed routinely with appropriate revisions made.	50.2	43.7	6.0
38)	Teachers in this school provide practice sessions using questions comparable to those on the FSSAT to assist students in preparing for the FSSAT.	59.6	35.4	5.0
39)	Our school has encouraged students to participate in remedial opportunities offered through area vocational education centers.	33.7	38,0	28.3
40)	Our school works cooperatively with other schools in the area (county) to develop and provide quality remedial assistance for students who failed the FSSAT.	46.5	, 45.4	8.0
41)	Some students are delaying their vocational preparation until after high school in order to allow time for preparing for the FSSAT.	21.4	38.5	40:1
42)	Remedial practices used in this school year will be repeated again next year.	55.9		1.6
43)	The remediation prodecures utilized in this school are successful.	70.1	26.1	3.9
44)	The requirement for remedial instruction for students to pass the FSSAT will cause vocational education course offerings to be reduced at the high school level.	28.4	24.9	46.7
45)	Vocational education teachers in this school conduct most of the remediation classes for students who fail the FSSAT.	3.8	11.0	85.2
46)	Vocational education courses are often utilized in this school to teach the basic skill necessary for students to pass the FSSAT.		8.0	<i>-</i> 63.9
47)	More vocational education courses should be added to the curriculum in this school in order to meet the needs of students who fail the FSSAT.	38.5	20.6	40.8

Table 5

	(continued)			
_	· · · · · · · · · · · · · · · · · · ·	A	Ü	D
48)	Vocational education programs, because of their ability to provide "real world" experiences, are able to facilitate the development of competencies needed in the basic skills more readily than regular academic classes.	58.9	20.2	20.9
49)	Remediation for the FSSAT can be incorporated into the existing vocational education programs in this school.	51.9	21.8	26.4
50)	Students are now able to receive the remedial instruction they need to pass the FSSAT by enrolling in vocational education courses.	21.0	26.3	, 52 . 7·

Table 6

Response Ratings of Principals, Vocational Education Teachers and Directors by Percentage to

Survey Questions Concerning the Florida State Student Assessment Test

7	Items	T	cationa eachers (N=215)	_	Di	cationa rectors (N=20)	_		incipal	
		λ	U	D	λ	บ	D	_ A	บ_	
1)	Enrollment in vocational education classes in this school has declined as a consequence of the Florida State Student Assessment Test (FSSAT).	· 26.6		55.2	45.0	5.0	50.0	25.9	7.4	66.6
2)	Enrollment in vocational education classes has decline in this school because students who fail the FSSAT must participate in a remediation program.	33.5	13.5	53.1	50.0		50.0	25.9	11.1	63.0
3)	Enrollment in vocational education courses has decreased at a greater rate than the enrollment in other elective courses since the implementation of the FSSAT.	18.2	27.4	54.4	20.0	5.0	75.0	11.1	11.1	77.8
4)	Enrollment in vocational education courses has increased at a greater rate than the the enrollment in other elective courses since the implementation of the FSSAT.	12.6	33.3	54.0	20.0		70.0	14.8	18.5	66.7
5)	Students who fail the FSSAT are permitted to enroll in vocational education courses.	77.1	14.5	8.4	۶ 94.7	ø.o	5.3	96.3	3.7	0.0
6)	Students who fail the FSSAT are permitted to enroll in elective courses other than vocational education courses.	67.1	23.1	9.8	68.5	10.5	21.0	85.2	3.7	11.1

Table 6

-	· Items		Ceacher (N=215)	3		cations rectors (N=20)		Pr	incipal	
_		A	ַט	D	A	Ü	D	_ Ā	0	
7)	The increase or decrease in vocational educa- tion enrollment has been due to factors other than the FSSAT.	72.4	19.2	8.4	68.5	15.8	15.8	76.9	15.4	7
8)	Our school has encouraged students to par- ticipate in remedial opportunities offered								ć	
9)	through area vocational education centers.	40.6	38.8	20.5	47.4	10.5	42.1	50.0	' 11.5	38.4
,	The FSSAT is an appropriate test for measuring basic skill competencies.	57.9	29.0	13.1	50.0	35.0	5.0	77.8	18.5	3.7
10)	As a result of the PSSAT, students in this school have improved their performance in basic skills.	63.3	24.8	8.8	80.0	15.0	5.0	85.2	• • •	1
11)	The FSSAT has helped teachers to develop more effective courses for their students.	53.5	34.9	11.7	75.0	20.0	5.0	77.8	14.8	0.0 3.7
L2)	The PSSAT as a diagnostic tool influences the programming efforts in this school in a positive way.	61.4	29.3	9.2	75.0	15.0	10.0	88.9		
L3)	The quality of instruction has improved in this school as a result of the implementation of the PSSAT.	51.6	35.3	13.0	70.0	25.0			7.4	3.7
14)	The quality of counseling in this school for students preparing to take the PSSAT is excellent.			23.0	70.0		5.0	51.9	37.0	11.1
	'	53.1 Q Ø	33.5	13.5	40.0	25.0	35.0	77.8	22.2	0.0

(Continued)

	Items'		reacher: (N=215	s ,		ocation irector (N=20)		Pi	incipa (N=27)	ls .
161		A	<u> </u>	D	λ	บ	D	λ	บ	
15)	The quality of counseling in this school for preparing students who failed the FSSAT for a retake is excellent.	,			,	• •				
16)	Mh	63.6	28.0	8.4	35,0	45.0	20.0	92.6	7.4	. 0.6
10,	The quality of remediation programs in this school that prepare students for a retake of the FSSAT is excellent.					,			e	
		70.3	22.7	7.0	60.0	20.0	20.0	96.30	3.7	0.0
17)	The counseling procedures used in this school to assist students in preparing for the FSSAT have been successful.				-	_				***
		55.4	36.6	8.0	50.0	40.0	10.0	85.2	14.8	0.0
L8)	Students should be counseled into vocational education courses if there is a likelihood that they will fail the FSSAT.	27.5	16.3	56.3	25.0					
9)	Students from this school who have been counseled on how to prepare for the PSSAT have been successful in their retake exam.		7	3013	45.0	10.0	65.0	40.7	14.8	44.4
		68.4	30.2	1.4	60.0	35.0	5.0	81.5	18.5	0.0
	Students choose to enroll in vocational education courses to learn basic skills rather than remain in regular academic classes.	3								,
		35.6	24.1	40.3	30.0	10.0	60.0	11.1	22.2	66.7
1)	Remediation materials are developed by the teachers in this school	47.9	39.1	13.0	63.2	15.0				00.7
		,		13.0	03.2	15.8	21.0	70.4	3.7	25.9

Table 6 (Continued)

	. Items		ocation Teacher: (N=215	6		ocation irector (N=20)		P	rincipa (N=27)	ls
		A	U	D	<u>λ ͽ</u>	U	D	<u> </u>	U U	<u> </u>
22)	The Plorida Department of Education should be responsible for preparing all remedial materials.	39.8	21.3	38.9	15.0	15.0	70.0	25.9	-	
23)	Teachers always have sufficient budget for preparing remedial materials.	11.5	35.2	53.3	- 25.0	10.0	65.0	55.5	3.7	70.3
24)	Sufficient qualified teaching personnel are available to conduct remediation classes.	62.0	22.7	15.3	65.0	0.0	35.0		.11.1	48.1
25)	The PSSAT deters many students from obtaining the vocational training they need for job entry.			4000	03.0	0.0	35.0	81.5	0.0	18.5
26)	Providing remediation for students who failed the FSSAT has interfered with the source	24.1	31.5	44.5	25.0	15.0	60.0	18.5	0.0	81.5
27)	to the state of teachers.	29.6	27.3	43.1	30.0	25.0	45.0	29.6	18.5	45.0
•	The FSSAT has created more work for me.	24.3	15.9	59.8	25.0	10.0	65.0	76.9	0.0	23.1
(8)	The FSSAT has interfered with the overall curriculum goals of this school.	17.6	28.7	53.7	15.0	15.0	70.0	11.1	. 7.4	81.5
	Students who fail the FSSAT are withdrawn from vocational education classes in order						,		,,,,	01.5
	to take remedial work.	41.4	19.1	39.6	3Ó.O	5.0	65 .0	22.2	7.4	70.4
	The rate of student withdrawal from electives other than vocational education courses has increased in this school since the implementation of PSSAT.			Ĺ		34				`
	of FSAT.	27.4	48.8	23.7	40.7	7.4	51.8	30.0	30.0	40.0

Table 6
(Continued)

Items	T		. •	. Di		_		-	8 	
	A	` U	D	λ	U	D	λ	ับ_	D	
The rate of student withdrawal from vocational education courses has increased in this school since the implementation of FSSAT.	28.2	34.7	37.0		`	60.0	25. 9	14.8	59.2	
Teachers are expected to teach remedial				٥						
classes during regularly scheduled hours	61.6	20.8	17.6	85.0	5.0	10.0	81.5	0.0	18.5	
New teachers are hired to conduct remedial classes in this school.	54.2	28.7	17.1	57.9	15.8	26.4	70.4	0.0	29.6	
Volunteer aides are utilized to assist teachers in conducting remedial classes.	22.3	37.5	40.3	30.0	35.0	35.0	25.9	0.0	74.1	
Teachers are often released from regularly assigned classes in order to conduct remedial classes.	21.8	. 25.0	53.2	15.0	10.0	75.0	22.2	0.6	77.8	
Students are offered remedial assistance outside of regular class hours.	36.9	31.3	31.8	45.0	10.0	45.0	63.0	3.7	38 .6	
Practices used for remediation are reviewed routinely with appropriate revisions made.	40.7	51.9	7.4	90.0	10.0	0.0	96.3	3.7	0.0	
Teachers in this school provide practice sessions using questions comparable to those on the FSSAT to assist students in preparing for the FSSAT.	58.8	້38.0.	;	. 33.3	50.0	16.7	84.6			
	The rate of student withdrawal from vocational education courses has increased in this school since the implementation of FSSAT. Teachers are expected to teach remedial classes during regularly scheduled hours New teachers are hired to conduct remedial classes in this school. Volunteer aides are utilized to assist teachers in conducting remedial classes. Teachers are often released from regularly assigned classes in order to conduct remedial classes. Students are offered remedial assistance outside of regular class hours. Practices used for remediation are reviewed routinely with appropriate revisions made. Teachers in this school provide practice sessions using questions comparable to those on	The rate of student withdrawal from vocational education courses has increased in this school since the implementation of FSSAT. Teachers are expected to teach remedial classes during regularly scheduled hours New teachers are hired to conduct remedial classes in this school. Volunteer aides are utilized to assist teachers in conducting remedial classes. Teachers are often released from regularly assigned classes in order to conduct remedial classes. Students are offered remedial assistance outside of regular class hours. Practices used for remediation are reviewed routinely with appropriate revisions made. Teachers in this school provide practice sessions using questions comparable to those on	The rate of student withdrawal from vocational education courses has increased in this school since the implementation of FSSAT. Teachers are expected to teach remedial classes during regularly scheduled hours New teachers are hired to conduct remedial classes in this school. Volunteer aides are utilized to assist teachers in conducting remedial classes. Teachers are often released from regularly assigned classes in order to conduct remedial classes. Students are offered remedial assistance outside of regular class hours. Practices used for remediation are reviewed routinely with appropriate revisions made. Teachers in this school provide practice sessions using questions comparable to those on	The rate of student withdrawal from vocational education courses has increased in this school since the implementation of FSSAT. Teachers are expected to teach remedial classes during regularly scheduled hours New teachers are hired to conduct remedial classes in this school. Volunteer aides are utilized to assist teachers in conducting remedial classes. Teachers are often released from regularly assigned classes in order to conduct remedial classes. Students are offered remedial assistance outside of regular class hours. Practices used for remediation are reviewed routinely with appropriate revisions made. Teachers in this school provide practice sessions using questions comparable to those on	The rate of student withdrawal from vocational education courses has increased in this school since the implementation of FSSAT. Teachers are expected to teach remedial classes during regularly scheduled hours New teachers are hired to conduct remedial classes in this school. Volunteer aides are utilized to assist teachers in conducting remedial classes. Teachers are often released from regularly assigned classes in order to conduct remedial classes. 21.8 25.0 53.2 15.0 Students are offered remedial assistance outside of regular class hours. Practices used for remediation are reviewed routinely with appropriate revisions made. Teachers in this school provide practice sessions using questions comparable to those on	The rate of student withdrawal from vocational education courses has increased in this school since the implementation of FSSAT. Teachers are expected to teach remedial classes during regularly scheduled hours New teachers are, hired to conduct remedial classes in this school. Volunteer aides are utilized to assist teachers in conducting remedial classes. Teachers are often released from regularly assigned classes in order to conduct remedial classes. Students are offered remedial assistance outside of regular class hours. Practices used for remediation are reviewed routinely with appropriate revisions made. Teachers in this school provide practice sessions using questions comparable to those on	The rate of student withdrawal from vocational education courses has increased in this school since: the implementation of FSSAT. Teachers are expected to teach remedial classes during regularly scheduled hours New teachers are hired to conduct remedial classes in this school. Teachers are often released from regularly assigned classes in order to conduct remedial classes. Students are offered remedial assistance outside of regular class hours. Teachers used for remediation are reviewed routinely with appropriate revisions made. Teachers in this school provide practice sessions using questions comparable to those on	The rate of student withdrawal from vocational education courses has increased in this school since: the implementation of FSSAT. Teachers are expected to teach remedial classes during regularly scheduled hours New teachers are hired to conduct remedial classes in this school. Teachers are utilized to assist teachers in conducting remedial classes. Teachers are often released from regularly assigned classes in order to conduct remedial classes. Students are offered remedial assistance outside of regular class hours. Teachers in this school provide practice sessions using questions comparable to those on	Teachers Teachers Directors Principal N=215 N=20 N=27	Teachers Teachers Che Che

Table 6

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(Continued)

	Items	T	cationa eachers (N=215)		Di	cationa rectors (N=20)	_	Pr	incipal	
		_ A	υ	D	<u>A</u>	Ų –	D	<u> </u>	יט	D
39)	Our school has encouraged students to participate in remedial opportunities offered through area vocational education centers.	32.9	42.7	24.4	36.9	10.5	52.7	20.5	10.2	42.2
40)	Our school works cooperatively with other schools in the area (county) to develop and provide quality remedial assistance for students who failed the FSSAT.	39.7	51.4	8.9	73.7	21.1	5.3	38.5 81.5	19.2	42.3 _.
(1)	Some students are delaying their vocational preparation until after high school in order to allow time for preparing for the FSSAT.	22.3	41.4	36.3	•	25.0				• ,
(2)	Remedial practices used in this school year will be repeated again next year.	49.3	49.1	1.4	20.C 75.0		5.0	02.6	25.9 7.4	0.0
13),	The remediation procedures utilized in this school are successful.	67.2	28.0	4.6	75.0	25.0	0.0	88.9	11.1	, , , , , , , , , , , , , , , , , , ,
14)	The requirement for remedial instruction for students to pass the FSSAT will cause vocational education course offerings to be reduced at the high school level.	29.9	29.0	41.1	25.0	5.0	70.0	18.5	7.4	74.I
45)	Vocational education teachers in this school conduct most of the remediation classes for students who fail the FSSAT.	4.6	13.0	82.4	0.0	5.0	95.0	0.0	0.0	100

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Table 6 (Continued)

•	Items	Vocational Teachers (N=215)			Vocational ^o Directors* (N=20)			Principals (N=27)			
		<u> </u>	U	D	Α	บ	, D	<u>A</u>	Ú	D	
46)	Vocational education courses are often utilized in this school to teach the basic skills necessary for students to pass the FSSAT.	30.6	9.7	59.7	10.0	0.0	, 90.0	22.0	0.0	77.	
7)	More vocational education courses should be added to the curriculum in this school in order to mest the needs of students who fail the PSSAT.	42.5	20.9	36.8	20.0	20.0	60.0	22.2	18.5	_≫ ,59.	
(8)	Vocational education programs, because of their ability to provide "real world" experiences, are able to facilitate the development of competencies needed in the basic skills more readilty than regular academic classes.		,								
	CIASSES.	64.3	20.4	15.2	50.0	15.0	35.0	22.2	22. 2	55.	
9)	Remediation for the FSSAT can be incorporated into the existing vocational education programs in this school.	37.5	21.9	23.7	45.0	25.0	30.0	37.0	18.5	44.4	
0)	Students are now able to receive the remedial instruction they need to pass the FSSAT by enrolling in vocational education courses.	22.6	29.6	47.6	10.6	15.8	73.6	14_8	7.4	77.8	

t* The phrase "in this school" was replaced in the vocational education director's questionnaire with the phrase ...

review of recent enrollment trends at the secondary level, both nationally and in the state of Florida.

Enrollments

To properly assess the impact of the FSSAT on enrollments in secondary level vocational education, it was necessary to review enrollment figures for the nation and the state of Florida in order to determine enrollment trends. A brief description of the total public secondary level and total secondary level vocational education enrollment trends for the nation is presented next.

Secondary Level Public School Enrollment

National enrollment figures for secondary level public schools have remained above 14 million since 1972, however, total enrollments were projected to fall below 14 million in 1979, to a level less than that of 1974 (U.S. Department of Health, Education, and Welfare, Office of Education; National Center for Education Statistics; Statistics of Public and Secondary Day Schools, 1979). The decline of secondary level enrollments in public schools, approximately one percent between 1975-1978, has been attributed to a drop in birth rates during the 70s (National Center for Research in Vocational Education, 1979).

Enrollments at the secondary level in Florida Public Schools have paralleled the national trend. Secondary level enrollments in Florida rose 8.1 percent between 1972 and 1977; however, in 1978 enrollments dropped and were projected to decline a total of 5.1 percent by 1979 (State of Florida Department of Education, Public Schools, MIS, 1979).

Secondary Level Vocational Education Enrollment

Although an enrollment decline is evident nationally at the secondary level in public schools, there appears to be a constant growth in vocational education enrollment at the secondary level. An enrollment increase of 21 percent since 1974 has been reported (Department of Health, Education, and Welfare; National Center for Educational Statistics, Statistics of Public and Secondary Day Schools, 1979).

Secondary level vocational education enrollments in Florida declined 8.87 percent between 1974-1975; a total of 5 percent between 1974-1978. The drastic drop in enrollments for the year 1974 might be accounted for by inconsistencies in the reporting scheme (Dryenfurth, 1980), reclassification of core programs, or programming modifications within the schools. Florida averaged a 1.5 percent annual recovery in vocational education enrollment since 1975, slightly below the average annual rate of increase (2.9 percent) in national vocational education enrollments for the same time period.

Time Frame of this Study

The period between 1975 and 1978 is treated in this study. Reasons for selecting this time frame include: (1) data prior to 1975 were duplicated, ambiguous, and inconsistent as evidenced in various agency reports, (2) no data on vocational enrollment was available from governmental state agencies for 1979 in 1980, and (3) the main issue in this study is the effect of the FSSAT and subsequent remediation practices upon vocational education enrollments. Thus, to include data prior to 1975 would have served no purpose in assessing enrollment trends after the administration of the first FSSAT. A summary of enrollment figures, and graphs depicting enrollment trends in the nation and the state of Florida for both total school and secondary level vocational education enrollments are presented in Table 7 and Figures 2 through 7.

Disproportionate Enrollment Changes

Assessing enrollment changes, particularly disproportionate enrollment increases or decreases in vocational education at the secondary level, was one of the charges of this study. In this study, the term "disproportionate" refers to opposite and unequal enrollment trends. For example, vocational education enrollment might increase at a greater percentage than the percentage of total enrollment decline for a given school or county. In order to accomplish this task, enrollment data for each vocational education program offered at the sample high schools, and at all the other high schools within the county were tabulated. In addition, sex and race data for each program at the county and high school level were collected. These data are presented in Appendix H in order to provide the reader with an opportunity to review the enrollment trends by programs for the 28 sample schools, and the 20 counties in which the schools were located.

Enrollment changes were computed as percentage changes in order to determine if disproportionate enrollment trends occurred between 1975 and 1978. As previously indicated, the FSSAT was administered in 1977. Any immediate effects in enrollment changes would be reflected in the data on enrollments for 1978. Unfortunately, at this writing data on vocational education enrollments for 1979 which would support or reject any enrollment trends were not available from state or government agencies.

When viewed in the context of level or urbanization, vocational education enrollment increases were found in only those high schools identified as belonging to the high level of urbanization (Table 8).

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Table 7 Secondary Level Public School and Vocational Education Enrollments, and Percentage of Enrollment Changes by Year

	•		Enrollment by Year		•	Percent change by Year						
Code	Enrollment Area	1974	1975	1976	1977	1978	1979	1974-75	1975-76	1976-77	1977-78	1978-79
			•			· }	_			•		
λ	U. S. Secondary Level	14,125,000	14,293,744	14,231,000	14,299,000 j	14,156,000	13,671,000	1.19	0.19 (0.19)	-0.15 (0.03)	-1.00 (0.9)	-3.42 (-4.35)
В'.	Florida Secondary Level	493,320	490,091	493,000	499,256	486,667	474,763	2.24	0.59 (0.54)	1.26 (1.87)	-2.52 (-0.69)	-2.44 (-3.12)
c	U. S. Vocational Education (Total)	13,512,060	15,332,447	15,128,060	16.125,559	17,598,619		13.47	-1.33 . (-1.33)	6.59 (5.12)	9.13 (14.78)	
D	U. S. Vocational Education (Secondary)	8,433,750	9,426,376	8,560,947	9,562,836	10,236,117		11.76	-5.99 (5.99)	7.91 (1.44)	7.04 (8.59)	
E	Florida Vocational Education	938,019	917,368	920,655	962,985	997,309		-2.2	0,35 (0.35)	4.59 (4.97)	3.56 (8.71)	
F	Florida Vocational Education (Secondary)	625,162	569,657	577,820	573,990	595,521		-8.87 •	1.43	•	3.90 (4.54)	

The numbers in parantheses are percent changes in enrollment using the 1975 figures as a baseline.

Code: A. DHEW, NCES. Statistics of Public Elementary and Secondary Day Schools

B. DOE, MIS Public Schools

C. Nu ional Center for Research in Vocational Education, Ohio State University, Ohio

D. National Center for Research in Vocational Education, Ohio State University, Ohio + AVA, Virginia

E. USOE, Form 346-3, U.S. DHEW

F. USOE, Form 346-3, U.S. DHEW

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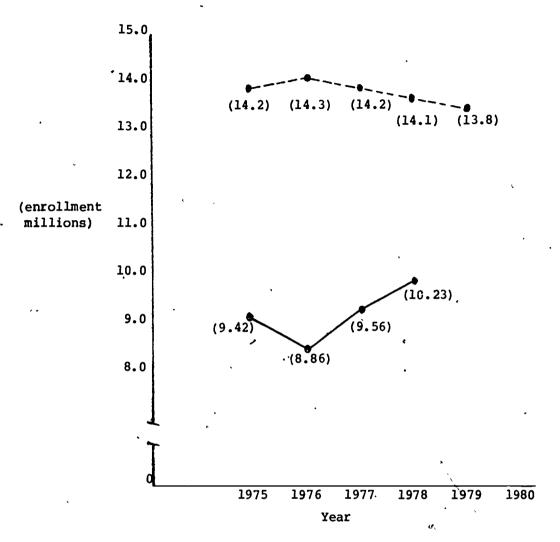


Figure 2: Total public school secondary enrollment versus total vocational education enrollments at the secondary level in the United States by year

Source: U.S. Department of Health, Education, and Welfare; National Center for Educational Statistics, Statistics of Public Elementary and Secondary Day Schools, 1979;
The National Center for Research in Vocational Education; The Status of Vocational Education, No. 193, Ohio State University, 1979.

-----total public school secondary enrollment total vocational education enrollment



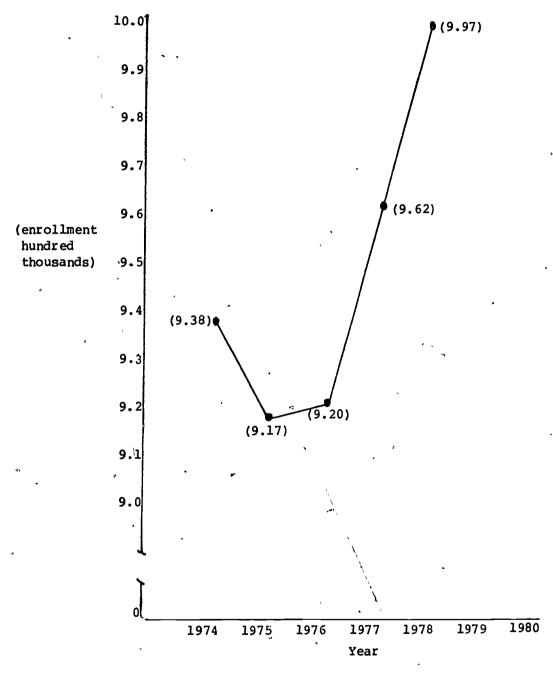


Figure 3: Vocational education enrollment for all grade levels in Florida by year

Source: U.S. Office of Education, Form No. 346-3 U.S. Department of Health, Education, and Welfare, Washington, D.C. FY 1974 through FY 1979.

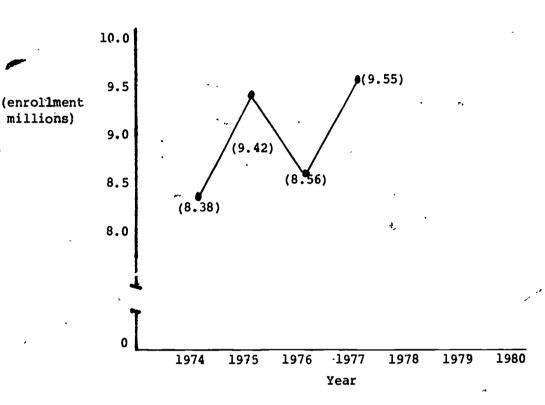


Figure 4: Vocational education enrollments at the secondary level in the United States by year

Source: State of Florida, Department of Education Division of Public Schools, Management Information Services, Tallahassee, FL



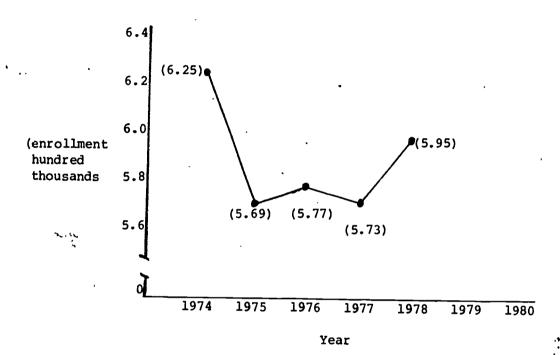


Figure 5: Vocational education enrollments at the secondary level in Florida Public Schools by year

Source: U.S. Office of Education, Form No. 346-3
U.S. Department of Health Education, and
Welfare, Washington, D.C., FY 1974 through
FY 1979

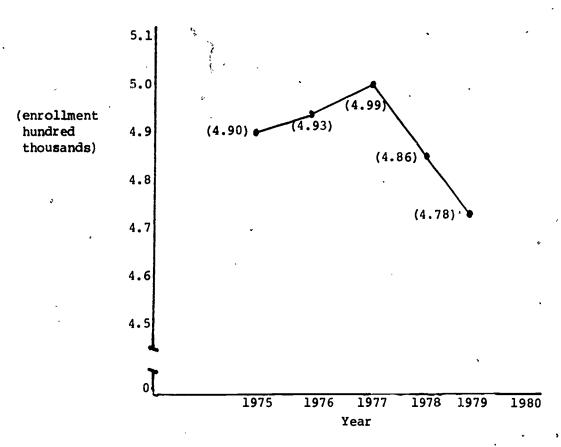


Figure 6: Secondary level enrollments in Florida public schools by year

Source: State of Florida, Department of Education, Division of Public Schools; Management Information Service, Tallahassee, Florida

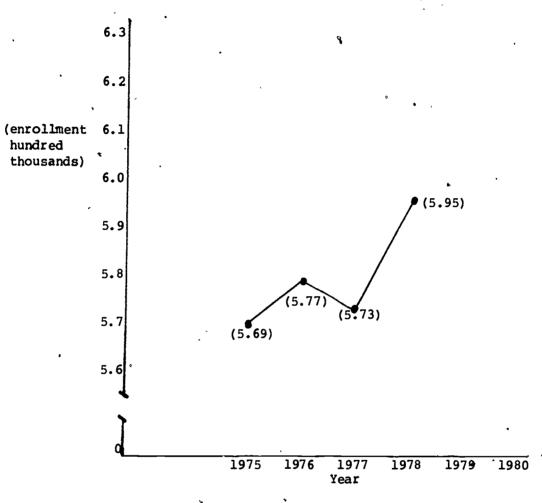


Figure 7: Vocational education enrollments at the secondary level in Florida public schools

Source: State of Florida, Department of Education, Division of Public Schools; Management Information Service, Tallahassee, Florida



Table 8

Program Enrollment Changes by Level of Urbanization
Between 1975 and 1978

Level of	•	Enro	Enrollments ^a		
Urbanization		Total	Vocational		
Low		+4.4	-5.9		
Medium		-15.6 ~	-14.3		
High	:	-5.8	+2.0		

aNumbers represent enrollment changes in percent

While the data presented in Table 8 can be interpreted as reflecting an overall vocational education enrollment decline in the 28 sample schools, total county vocational education enrollments increased between 1975 and 1978 (Table 9).

Percentage of Change in Total School and Vocational Education
Enrollment by Year for the 20 Counties in Which the
28 Sample High Schools were Located

•		County Enrollment Chang		
Year	·	Total School	Vocational	
1975-1976		-0.9	-4.8	
1976-1977		-0.6	8.7	
1977-1978		-1.7	12.2	
1978-1979		-0.5		

ano data available for vocational education enrollment in 1978-1979



Results of the 1977-1978 enrollment data analysis for the state of Florida following the first administration of the FSSAT revealed a 2.5 percent decline in total secondary enrollments, and a 3.8 percent enrollment increase in vocational education programs. Secondary level enrollments declined one percent nationally during the same period while vocational education enrollments rose by seven percent. Therefore, Florida underwent a secondary level enrollment decline two and one-half times greater than that of the national enrollment between 1977 and 1978, while vocational enrollments in the state increased at about one-half as much as those in the nation.

Total enrollments declined 4.8 percent in the 20 sample counties, and 3.2 percent in the 28 schools participating in this study between 1977 and 1978. However, vocational education enrollment rose 12.2 percent at the county level, and 2.5 percent in the schools in this study. These data reflect disproportionate enrollment increases in vocational education during the first year after the first administration of the FSSAT. A comparison of enrollment trends between 1975-1978 and 1977-1978 are presented in Table 10.

Table 10

Total Secondary Level Enrollment and Vocational Education Enrollment Changes Nationally, in Florida, and in the Sample Counties and Schools Between 1975 and 1978 Compared with Enrollment Changes Petween 1977 and 1978 Following the First Administration of the FSSAT

•	Enrollment Ch	anges by Years	
Groups	1975-1978	1977-1978	
National	•		
Total	-1.0	-1.0	
Vocational	8.6	7.0	
Florida .		•	
Total	-0.7	-2.5	
Vocational	. 4.5	3.8	
20 Counties		*	
Total	-3.3	-4.8	
Vocational	7.2	12.2	
ę			
28 Schools			
Total ,	-6.3	-3.2	
Vocational	-1.9	2.5	

Note: FSSAT administered in 1977 for the first time

aEnrollment changes are expressed in percentages

Data for the 1975-1978 period also provided some insights into enrollment shifts among races. Asian and native American enrollments in schools participating in the study were either rare or non-existent. Enrollment changes by student category, by race and by year for each level of urbanization is presented in Tables 11, 12 and 13.

Table 11

Percentage of Enrollment Changes Between 1975 and 1978
by Student Category and Race in the Low Level
by Urbanization Category

	Studen	ts.	
Race	Non-Vocational	Vocational	
White	2.6	-1.7	
Black	-3.2	-20.2	

Table 12

Percentage of Enrollment Changes Between 1975 and 1978

by Student Category and Race in the Middle Level

of Urbanization

Race	Students			
	Non-Vocational	Vocational ^a		
White	-15.6	-17.1		
Black	-14.0	-23.8		

^aClay Councy school data not available

Table 13

Percentage of Enrollment Change Cetween 1975 and 1978 by Student Category and Race in High School of Urbanization Category

		. Student	ts	
Race	·	Non-Vocational	Vocational	
White		-8.0	-7. 5	
Black	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-8.2	-6.0	
Hispan	ic	+9.4 /	+382.0	

The data from Tables 11, 12, and 13 are combined in Table 14 to show the overall enrollment changes for the 28 sample schools by race for the period between 1975 and 1978.

Table 14

Summary of Percentage of Enrollment Changes by Race Between 1975 and 1978 in 28 Sample High Schools

	****	Students		
Race	•	Non-Vocational	Vocational	
White	,	-8.3	-8.6	
Black	,	-8.5	-8.1	
Hispanic		. +9.2	+380.7	

The decline in White and Black vocational education enroll-ments between 1975 and 1978 in the 28 sample high schools was greater than in the counties from which these schools were drawn. Black and Asian total school enrollments increased while White, Hispanic, and American Indian enrollments declined (Table 15).

Table 15

Percentage of Enrollment Change Between 1975 and 1978 for Total School and Vocational Education Enrollment in 20 Counties of the 28 Schools by Race

	Enrollment				
Race	Total School	Vocational Education			
White	-5.1	3.1			
Black	0.3	5.6			
Hispanic	-0.7	378.7			
Asian	7.2	156.9			
American Indian	-43.7	-55.0			

Some changes in total school and vocational education enrollments did occur in the 20 counties in which the 28 schools were located following the first administration of the FSSAT in 1977. The percentage of enrollment changes between 1977 and 1978 are presented in Table 16.

Table 16

Percentage of Change in Total School and Vocational Education Enrollment Following the Administration of the First FSSAT in 1977 in the 20 Counties of the 28 Sample Schools by Race

•	·Enrol	. Enrollment Changes		
Race	Total School	Vocational Education		
White '	-2.3	8. 5		
Black	-4.9	8.4		
Hispanic	-0.8	4.2		
Asian	25.8	61.7		
American Indian	-27.1	-52.6		

Summary

Perceptions or beliefs about vocational education enrollment trends held by vocational education teachers, county vocational directors, and school principals varied. 'Some teachers (26.6%), principals (25.9%), and county vocational education directors (45%) believed that the enfollments in vocational education had declined as a consequence of FSSAT. These data do not support that belief. The majority of teachers (72.4%), principals (76.9%), and vocational. directors (68.5%) attributed vocational education enrollment declines to factors other than the FSSAT. Vocational education directors (50.0%), more than teachers (33.5%), or principals (25.0%) indicated that enrollment in vocational education courses declined because students who failed the FSSAT were required to participate in remediation programs. Only a small percentage of the respondents, teachers (18.7%), principals (11.1%), and vocational education directors (20.9%) believed that enrollments in vocational education courses had decreased at a greater rate than enrollment in other elective courses since the implementation of the FSSAT. Fewer teachers (12.6%) than principals (14.8%) indicated that enrollments in vocational education courses had increased at a greater rate than in elective courses following the implementation of the FSSAT.

Perceptions of the extent of student withdrawal from vocational education courses as a consequence of the FSSAT did not appear to differ very much among teachers (28.2%), principals (25.9%), and directors (35.0%). Very few students indicated they withdrew from vocational education courses (items 3 and 56) until after they had failed the FSSAT (item 63). Student responses for items 3, 56, and 63 required a "Yes" or "No" response. These items and the percentage of responses by students are presented in Table 17.

Table 17

Percentage of Responses by Vocational and Non-Vocational
Students to Questions Concerning Withdrawal
from Vocational Education Courses

	Ye	s <u>' \ </u>
· · · · · · · · · · · · · · · · · · ·	Voca- tional	Non-Vòca- tional
 Dropped the vocational education courses in which I was enrolled in order to take a special (remedial) course. 	3.4	5.4
Helped me decide to drop out of vocational education courses.	5.4	5.1
Did you drop out of vocational education courses in order to prepare for a retake of the Functional Literacy Test?	16.1	21.0

It was the common perception that most vocational educators believed that vocational education enrollments had decreased disproportionately after the implementation of the FSSAT. However, less than 20% of the teachers, principals, and vocational education directors indicated that there was a disproportionate increase or decrease in enrollments in vocational education courses, or in other elective courses. Disproportionate enrollment changes did occur between 1975 and 1978, not only in the sample schools and counties, but in the state of Florida and nationally. These disproportionate enrollment changes cut across schools, programs, and races. Increases in vocational education enrollments did occur contrary to the beliefs of some vocational educators. Why vocational education personnel within the schools and counties involved in this study should hold such divergent views on the state of vocational education enrollments should be the subject of additional research. Those school administrators who disclaimed any reduction in enrollment numbers did, in: fact, experience the greatest enrollment decline in their schools.

The question posed in this study concerning the disproportionate enrollment change between vocational and total school enrollments following the administration of the FSSAT is answered. That is, while total school enrollments declined, vocational education enrollments increased. Although no definite causal relationship can be established, it appears that a possible relationship exists between the FSSAT and enrollment changes, however, the FSSAT was not a strong deterrent.

Identification of Remedial Practices

Another purpose of this study was to identify remedial practices used in Florida public schools at the secondary level. During the introductory interviews with superintendents, principals, and vocational education directors, a question was posed that requested the identification of the various remedial practices in use at that time in the schools. Based upon those responses, a list of remedial practices currently employed in the schools was prepared. The remedial practices include:

- enrollment in special remedial courses,
- enrollment in vocational courses to learn basic skills,
- withdrawal from vocational courses,
- withdrawal from electives other than vocational courses,
- remediation presented during regular classes,
- remediation presented outside of regularly scheduled classes,
- counseling on how to pass the FSSAT,



- classroom guidance on how to pass the FSSAT,
- special skills classes,
- vocational education teachers conducted remedial classes,
- new teachers are hired to conduct remedial classes,
- volunteer aides are utilized to conduct remedial classes,
- workshops sponsored by the county in order to assist teachers in preparing remedial curricula,
- area vocational education centers provided remediation courses, tutoring,
- individual manpower training systems (IMTS) provided remediation in mathematics and reading programs,
- summer school remedial courses,
- alternative education programs for students unsuccessful in specific courses,
- remediation conducted in adult education centers,
- teachers use questions comparable to those on the FSSAT to prepare students for the test, and
- schools within a district work cooperatively to develop and provide quality remedial assistance

In order to ascertain the extent to which these, or other remedial practices were employed, the sixty-seven county vocational education directors in Florida were requested to complete a fifteen item survey instrument which sought general information about remedial practices implemented in secondary level public schools for those students who failed the FSSAT. The final two items on the instrument were open-ended questions requesting the participant to list additional remedial practices not covered in the instrument, and to propose new remedial practices that might be implemented. Ninety three (93%) percent of the vocational education directors responded to the question.

The survey instrument is presented in Table 18 with the percent responses on each item. A list of currently employed remedial practices follows the survey instrument.



Table 18

Percentage of Use of Remedial Practices at the Secondary Level in the 67 School Districts as Perceived by Vocational Education Directors

	· · ·		
1.	New remedial courses were designed and implemented for students who failed the FSSAT.	92% Yes	_8%_No
2.	New teachers were hired to conduct remedial courses.	84% Yes	16% No
3.	Volunteer aides were used to conduct remedial courses.		77% No
4.	Teachers incorporated new remedial materials into their regular classes.	<u>75%</u> Yes	25% No
5.	Teachers taught remedial courses after school.	Yes	77% No
6.	Teachers developed their own remedial materials.	74% Yes	26% No
. 7.	Students withdrew from vocational education courses in order to take remedial courses.	_44%_Yes	<u>56%</u> No
8.	Students withdrew from elective courses other than vocational education courses in order to take remedial courses.	_54%_Yes	46% No
9.	Students were offered remedial assistance outside of regular class hours.	_ <u>48%</u> Yes	52% No
10.	Students who fail the FSSAT are permitted to enroll in elective courses other than vocational education courses.	<u>94%</u> Yes	_6%_No
11.	Students who fail the FSSAT are permitted to enroll in vocational education courses.	95% Yes	_5%_No
12.	Remediation was not offered because of bud- getary constraints.	2%_Yeś	98% No
13.	Remediation was not offered because of a lack of qualified personnel.		98% No
	•		

The remedial practices currently employed in secondary public schools in Florida according to county vocational education directors as reported in the 15 item questionnaire include:

- 1. Remediation through adult education,
- Basic skills in science and social studies programs,
- 3. Special remedial classes,
- 4. Periodic remedial classes,
- 5. Tutoring outside of regular classes,
- 6. Small group sessions outside of regular classes,
- Students expected to require remediation are identified in grades 9 and 10 and then placed in courses designed to prepare them for the mathematics and reading sections of the FSSAT,
- 8. Aides are hired with compensatory education funds,
- 9. Individual Manpower Training Systems,
- 10. Summer sessions
- 11. Peer assitance
- 12. Remediation acquired through area vocational education centers,
- 13. Vocational education teachers provide instruction in areas relevant to vocational education courses,
- 14. Teacher workshops for developing appropriate remedial materials, and
- 15. Remediation part of regular classes.

The remedial practices proposed for adoption by some vocational education directors were already being practiced in the schools in some counties. In fact, an overlap existed between the remedial practices currently used, and those proposed for adoption. Among the remedial practices proposed for adoptions were: summer sessions, expansion of the IMTS laboratories, recruit more volunteer aides, and commence preparation for the FSSAT in the earlier grades.

A review of responses by vocational education teachers, prin-



cipals, and vocational education directors regarding the use of remedial practices revealed some discrepancies in their assessment of the frequency of use of these practices. The specific items addressing the use of remedial practices, and the percent response by teachers, principals, and directors found in the original survey instrument administered to the vocational teachers, principals, and county vocational directors are presented in Table 19. In general, principals believed that remedial practices are being used more often than did vocational education teachers and vocational directors. There was wide variation among the responses of the participants regarding the utilization of vocational education courses for remediation (item 46), whereas the responses were almost identical concerning the use of vocational education teachers in remediation (item 45).

Table 19

Percentage of Usage of Remedial Practices as Reported by Vocational Education Teachers, Vocational Directors, and Principals

		Pe	rcentage	
Vari- able		Teach- ers	Prin- cipals	County Vo- cational Directors
29	Students who fail the FSSAT are withdrawn from vocational education classes in order to take remedial work.	41.4	22.2	35.0
32	Teachers are expected to teach remedial classes during regularly scheduled hours.	61.6	29.6	15.5
33	New teachers are hired to conduct remedial classes in this school.	54.2	70.4	57.9
34	Volunteer aides are utilized to assist teachers in conducting remedial classes.	22.3	25.9	30.0
35	Teachers are often released from regularly assigned classes in order to conduct remedial classes.	21.8	22.2	15.0
36	Students are offered remedial assistance outside o regular class cours		63.1	45.0

Table 19 (continued)

		Percentage of Use ^					
Vari able		Teach- ers	Prin- cipals	County Vo- cational Directors			
38	Teachers in this school provide practice sessions using questions comparable to those on the FSSAT to assist students in preparing for the FSSAT.	58.8	84.6	33.3			
39	Our school has encouraged students to participate in remedial oppor- tunities offered through area vo- cational education centers	32.9	38.5	36.9			
40	Our school works cooperatively with other schools in the area (county) to develop and provide quality remedial assistance for students who failed the FSSAT.	39.7	80.5	· 73.7			
41	Some students are delaying their vocational preparation until after high school in order to allow time for preparing for the FSSAT.	21.3	14.8	20.0			
45	Vocational education teachers in this school conduct most of the remediation classes for students who fail the FSSAT.	4.6	0.0	0.0			
46	Vocational education courses are often utilized in this school to teach the basic skills necessary for students to pass the FSSAT.	30.6	22.2	10.0			

Remedial Practices and Student Use

Some remedial practices were used more frequently than others by the students; for example, receiving remediation outside required class. The frequency with which thirteen remedial practices were used is summarized according to level of urbanization (Table 20) and student category (Table 21).



Remedial Practices and Percentage of Use as Reported by All Students by Level of Urbanization

		Level of Urbanization				
Vari-		Low	High			
able	Remedial Practices	(N=110)	(N=174)	(N=639		
Vl	Enrolled in special remedial courses	4.1	22.3	22.0		
V2	Enrolled in vocational education courses for remediation	9.4	20.1	20.0		
V 3	Withdrew from vocational education courses	3.1	3.6	3.9		
V4 .	Withdrew from electives other than vocational education	3.1	6.7	11.7		
V 5	Received remediation in general education courses	33.1	45.2	37.9		
V9	lid not receive remediation	1.6	3.6	7.4		
V 10	Studied and-reviewed material on my own time	40.9	47.1	47.8		
V35	Received remediation outside regular class time	43.7	50.7	49.2		
V 36-	Remediation a part of vocational edu- cation courses	33.5	39.6	37.2		
V 38	Counseling prior to taking the FSSAT	57.0	62.4	60.0		
V39	Counseling for students who failed the FSSAT	67.2	69.1	67.5		
V40	Received information about FSSAT before taking test	70.0	73.5	70.0		
V 63	Dropped vocational education to prepare for retake of FSSAT	11.8	17.9	20.7		

Table 21

Remedial Practices and Percentage of Use as Reported by

Vocational and Non-Vocational Students

		Students			
Vari- able		Vocational (N=537)	Non-vocational (N=634)		
Vl	Enrolled in special remedial courses .	20.9	21.5		
V 2	Enrolled in vocational education courses for remediation	22.0	. 16.2		
V 3	Withdrew from vocational education courses	3.4	5.4		
V4	Withdrewa from an elective other than vocational education	9.9	9.7		
V5	Received remediation in a general education course	39.3	38.4		
V9	Did not receive remediation	5.8	6.2		
V 10	Studied and reviewed material on my own	49.8	44.5		
V 35	Received remediation outside of regular class time	51.0	47.0		
V 36	Remediation a part of vocational education courses	.36.0	38.0		
V 38	Counseling prior to taking the FSSAT	62.0	59.0		
V39	Counseling for students who fail the FSSAT	67.0	69.0		
V42	Received information prior to taking the FSSAT	75.0	· 66.0		
V 63	Dropped vocational education to prepare for retake cf FSSAT	16.5	21.1		



Remedial Practices and Use by Students According to Race

The remedial practices appeared to be used with equal frequency by both vocational and non-vocational students; however, this was not the case among the students of various races (Tables 22 and 23). The use of remedial practices was not independent of (p < .05) student race for eleven of the thirteen remedial practices listed. For example, among vocational education students more Blacks and Hispanics obtained remediation in vocational education courses than did White, Asian, or American Indian students. A greater percentage of Black and Hispanics than Whites among non-vocational education students indicated that no remediation was provided.

Black and Hispanic vocational education students indicated a greater use of most of the remedial practices than did White students. The amount of remedial practices use was even more pronounced among non-vocational students of the same races. It should be pointed out that the values recorded for Asian and American Indian students are greatly exaggerated because so few students of these races participated in the study.

It is worth noting that while a low percentage of students (4.4%) withdrew from vocational courses to prepare for the FSSAT, a higher percentage (19.9%) of students who failed the FSSAT dropped vocational courses in order to prepare for a retake of the test. This ractice occurred more among Black and Hispanic vocational students, and White and Hispanic non-vocational students. Some non-vocational education students selected vocational education courses as electives in order to satisfy credit requirements for graduation. Participation in those elective vocational education courses was usually discontinued when non-vocational education students failed the FSSAT.

Remedial Practices and the Use by Students According to Sex

When the responses of vocational and non-vocational education students were compared on the basis of sex regarding the frequency of use of various remedial practices, it was determined that the remedial practices were used with similar frequency by both males and females (Table 24).

Teachers out-numbered principals and vocational education directors (64%, 22%, and 50% respectively) in feeling that vocational
education programs could facilitate the development of competencies
needed in basic skills because of the "real world" approach in
vocational education. However, fewer principals and vocational
education directors than teachers (22%, 20%, and 42% respectively)
would support the idea of adding more vocational education courses
to school curriculum in order to meet the needs of students who
fail the FSSAT.

Table 22

Remedial Practices and Percentage of Use by Vocational Education
- Students According to Race

Vari-	,			RACE				Signifi-
able	Remedial Practices	White (N=338)	Black (N=134)	Hispanic (N=38)	Asian (N=5)	Indian (N=5)	`x²	cance
v 1	Enrolled in a special remedial course	11.0	47.8.	15.8	40.0	25.0	79.6	.000
V 2	Enrolled in vocational education courses for remediation	18.5	30.1	23.7	40.0	0.0	9.8	.042
V 3	-Withdrew from vocational education courses	1.2	8.8	2.6	20.0	0.0	21.1	.003
V 4	Withdrew from an elective other than vocational education	4.2	23.7	10.5	0.0	0.0	43.1	.000
V 7	Received remediation in a general education course	32.9	56.3	34.2	60.0	40.0	9:6	.04
V 9	Did not receive remediation	3.3	10.3	15.8	0.0	0.0	15.,9	.003
V 10	Studied and reviewed material on my own	47.6	51.1	68.4	80.0	40.0	8.4	′ .39
V35	Received remediation outside of regular class time	52.5	45.8	44.8	80.0	40.0	30.4	.01
V 36	Remediation a part of vocational education course	32.2	44.1	39.5	25.0	40.0	31.1	.01
v38	Counseling prior to taking the FSSAT	58.6	71.1	57.9	50.0	40.0	33.8	.005
V39	Counseling for students who fail the FSSAT	67.7	68.4	55.3.	80.0	60.0	30.0	.01
V40	Received information about the FSSAT prior to taking the test	74.0	77.2	78.9	60.0	100	30.7	.01
V63	Dropped out of vocational education to prepare for retake of FSSAT	7.7	24.2	25.0	0.0	0.0'	5.0	. 28

Note: V35 through V40 were Likert items and the SA and A responses were combined.



•								
Vari-				RACE			•	Signifi-
ables	Remedial Practices	White (N=459)	Black (N=126)	Hispanic (N=42)	Asian (N=4)	Indian (N≈1)	x²	cance.
v ı	Enrolled in a special remedial course	14.2	51.2	11.9	0.0	100,0	88.0	.0000
V 2	Enrolled in vocational courses for remediation	12.7	28.3	16.7	25.0	100.0	√23.5	.0083
V 3	Withdrew from vocational education courses	3.3	13.4	4.8	8.0	0.0	20.4	.001
_V 4	Withdrew from an elective other than vocational education	5.7	. 25.0	7.1	0.0	100.0	51.7	.0000
, v 7	Received remediation in a general education course	31.9	56.8 、	50.0	50.0	1,00.0	37.5	.0000
V 9	Did not receive remediation	4.2	10.2	16.7	0.0	0.0	15.1	.01
V10	Studied and reviewed material on my own	43.4	42.9	64.3	25.0	0.0	9.2	.10 0
V35	Received remediation outside of regular class time .	47.7	46.8	43.0	50.0	0.0	54.0	.0001
V36	Remediation part of vocational education course	35.2	50.8	33.3	25.0	0.0	26.7	.140
V38	Counseling prior to taking the FSSAT	54.7	65.4	83.3	75.0	0.0	60.0	.0000
V40	Received information prior to taking the FSSAT	61.3	77.8	73.9	78.0	0.0	56.0	.0000
V63	Dropped out of Vocational education to prepare for retake of PSSAT	20.6	16.7	75.0	0.0	0.0	3.1	.53

Note: V35 to V40 were Likert items and the SA and A responses were combined

Table 24

Percentage of Use of Remedial Practices by

Student Category by Sex

	•	Students,						
Vari		Vocat	ional	Non-Vo	cational			
able	Remedial Practices	Male	Female	Male	Female			
V l	Enroll in special remedial			_ 				
	course	. 20.3	22.4	16.9	25.8			
V 2	Enroll in vocational education		•	•	a			
	courses for remediation	19.9	23.9	16.0	16.0			
	Withdrew from vocational educa-			4.	٠٠.			
•	tion courses	2.4.	4.4	[*] 5.5	5.2			
V 4	Withdrew from an elective other				• ;			
	than vocational education	11.8	7.7	7.5	11.7			
v 7 -	Received remediation in general							
	education courses	` 41. 0 _.	39.7	36	40.4			
V 9	Did not receive remediation	7.3	× 4.8	5.9	6.5			
V 10	Studied and reviewed material		•	*				
V 10	on my own	51.0	49.5	44.8	44.6			
v 35	Received remediation outside of	٠,		-	- ■ ,			
	regular class time	53.1	48.9	47.ľ	47.8			
V 36	Remediation a part of vocation-		(°_	•				
	al education courses	34.9	36, 5,	34.1	47.8			
7 38	Counseling prior to taking the	•		,				
	FSSAT	62.8	60.6	59, 3	58.6			
739	Counseling for students who fail	•	, ø		•			
	the FSSAT	71.8	63.1 -	68.4	69.0			
740	Received information about the		. ^ 1					
	FSSAT prior to taking the test	76.1	74.7	68.2	62.8			
763	Dropped out of vocational educa-		, γ					
	tion courses to prepare for re- '			nn ~				
~	take of FSSAT	13.2	. 17.4	23.3	20.0			

Although vocational education courses are not primary sources of remediation, 19 percent of all the students in this study enrolled in vocational education courses in order to learn the basic skills. In fact, 22 percent of the vocational education students and 16 percent of the non-vocational education students indicated that they enrolled in vocational education courses in order to acquire the basic skills required for graduation.

Vocational education teachers and county vocational education directors believed that each of the remedial reactices were employed with essentially the same frequency; however, principals rate the frequency of use higher in most cases. This may be due to the fact that the principals are considering the total school population and not just vocational education students.

The withdrawal of students from vocational education courses for remediation has leen cited as one of the more common practices occurring in Florida schools. It seems logical to inquire about the feasibility of using vocational education courses as a source of remediation, while at the same time continuing to develop specific vocational skills in the students. While only a few vocational teachers (23%), principals (37%), and vocational education directors (11%) stated that students could receive remediation in vocational courses, more teachers (54%) believed that remedial practices could be incorporated in existing vocational education courses.

In fact, 36 percent of the vocational teachers stated that students chose to enroll in vocational courses in order to learn the basic skills required to pass the FSSAT. Thirty percent of the vocational education directors concurred with the teacher's position, however, only 11 percent of the principals sampled agreed.

Remedial Practices as Predictors of Enrollment

The data afforded an opportunity to explore the possibility that the remedial practices considered in this study might serve as predictors of future vocational education enrollment trends. Thirteen commonly employed remedial practices were identified for analysis. They are:

- V 5 Students who fail the FSSAT are permitted to enroll in vocational education classes
- V 8 Students are encouraged to participate in remedial programs offered at area vocational education centers
- V17 Counseling prior to taking the FSSAT



- V29 Students are withdrawn from vocational education classes for remediation
- V32) Remediation is provided during regularly scheduled classes
- V33 New teachers are hired to conduct remediation classes
- V34 Volunteer aides are utilized to provide remediation
- V35 Teachers are released from regular duties in order to provide remediation
- V36 Remediation is offered outside regular class time
- V38 Questions comparable to those on the FSSAT are used in preparing students for the FSSAT
- V40 County schools cooperate to provide remediation
- V46 Vocational courses are used to provide remediation

Stepwise regression analyses were conducted in which percentage of enrollment change between 1977 and 1978 was the criterion variable and the thirteen remedial practices were the predictor variables. The data were derived from the responses to the thirteen questions addressing types of remedial practices which appeared on the questionnaire administered to the school principals and county vocational education directors. The percentage of change in enrollment between 1977 and 1978 was coded as 1, 0, -1 (enrollment increase, n. change, enrollment decrease respectively). The stepwise regression procedure was used in order to isolate variables (remedial practices) that might serve as predictors of enrollment trends. In this procedure the variable that explains the greatest amount of variance about enrollments is identified first. The remaining predictor variables (remedial practices) are introduced in the order of their importance, that is, each predictor variable that is introduced accounts for a portion of the variance about enrollments. The variables accounting for the most variance are introduced first and therefore are the important variables.

The results of the analyses on the responses of the principals and vocational education directors differed markedly. For the ratings of remedial practices of principals, the single best enrollment change predictor was V29(students are withdrawn from vocational education courses for remediation) (r = .43, p < .05). The second step indicated that V29 and V38 (questions comparable to those on the FSSAT are used to prepare students for the FSSAT) ($R^2 = .27$) was the best combination. Thus, adding V38 to V29 raised the R^2 values from .19 to .27 with the remaining variables accounting for an additional

54

20 percent of the variance. All thirteen of the variables accounted for 47 percent of the variance.

As previously stated, V29 (students are withdrawn from vocational education courses for remediation) is the single best predictor of enrollment change. This information is obtained from the beta weight (-.3560). In this study, a negative beta weight is interpreted to predict an enrollment increase; whereas a positive beta weight reflects an enrollment decline. Therefore, based upon the responses of principals, withdrawing students from vocational classes in order to take remediation (V29) was predictive of enrollment increases; however, using questions comparable to those found on the FSSAT in order to prepare students for the test (V38) was predictive of enrollment decreases.

The extent to which a particular remedial practice contributes to enrollment increases or decreases can also be ascertained. The values appearing in the "additional variance" column under the heading Principals in Table 25 reflect the percentage of variance enrollment that can be accounted for by V29 and V38. Withdrawing students from vocational education courses for remediation accounts for 18.94 percent of the variance in enrollment increases, while 7.81 percent of variance in enrollment decline was associated with the remedial practices of providing students with questions like those found on the FSSAT in order to prepare them for the test (V38). The R² values are cumulative; that is, adding .0781 to .1894 results in .2673. Therefore, V29 and V38 in combination account for 26.7 percent of the variance in vocational enrollment.

The single best enrollment change predictor for the ratings of remedial practices obtained from the vocational education directors was also V29 ($R^2=.27$). The second step added V34 (volunteer aides are used to provide remediation) ($R^2=.36$), the third step added V38 (questions comparable to those used on the FSSAT are used in preparing students for the FSSAT) ($R^2=.47$), the fourth step added V21 (remedial materials are developed by teachers) ($R^2=.67$), and the fifth step added V33 (new teachers are hired to provide remediation) ($R^2=.79$). The remaining steps explained an additional 20 percent of the total variance.

The beta weights for two of the five variables (V29 and V38) presented in Table 25 are negative. Therefore, based upon the response of county vocational education directors, withdrawing students from vocational classes for remediation (V29), and using questions comparable to those found in the FSSAT in order to prepare students for the FSSAT (V38), resulted in enrollment increases. The remaining three remedial practices: V34 (volunteer aides are used to provide remediation), V21 (teachers prepare their own remedial materials), and V33 (new teachers are hired to provide remediation) were predictive of enrollment declines.

Table 25

Remedial Practices as Predictors of Enrollment in Vocational Education Courses
Based Upon Responses by School Principals and County Vocational Directors

_			Princ	ipals			County Vocational Education Directors					
	edictor	Beta Weights	Additional Variance	R ²	Probabil- ity of F to Enter	Significance	Predictor Variables	Beta Weights	Additional Variance	R ²	Probabil- ity of F to Enter	Significance
	V29	3560	.1894	.1894	5.13	.034	V29	4134	. 2693	.2693	5.53	.033
,	V38	.4246	.0781	.2673	2.24	.038	V34	.3052	.0877	.3570	1.90	.045
							V38	5387	.1179	.4749	2.91	.034
							V21	.6081	.2017	.6767	7.48	006
							V33	.3582	.1164	.7931	6.19	.002

Thus, two of the thirteen remedial practices were found to be predictors of enrollment when data obtained from principals were employed in the analysis; however, the other remedial practices in combination did not contribute significantly as predictors of future enrollment trends. On the other hand, all of the variance (99%) in enrollment is accounted for by the ratings of the remedial practices given by vocational education directors. This would imply that the remedial practices are additive in accounting for variance in enrollment change. The precision in predicting the direction of enrollment change is more reliable based upon responses made by the vocational education directors than by the principals. Thus, beta weights can be used in the process of selecting remedial practices that will enhance enrollments. That is, as beta weights, (regression coefficients) of a partic lar variable (remedial practice) increase or decrease there will be a corresponding increase or decrease in vocational enrollment.

An additional stepwise regression analysis was performed using percent enrollment change as the criterion variable and the remedial practices as the predictor variables. The responses provided by the principals and vocational education directors served as the data source. In this analysis the remedial practices were used to predict vocational education enrollment. While only one remedial practice was identified as a predictor variable for vocational education enrollments based on response data gathered from principals, three remedial practices were identified as enrollment predictors using the response data of the directors. The single best vocational education enrollment predictor was V8 (students are encouraged to participate in remedial programs offered at area vocational education centers) (r = .53, p < .05). The second step added V34 (volunteer aides are utilized to provide remediation) ($R^2 = .49$) and the third step added V21 (remedial materials are developed by teachers themselves) ($R^2 = .62$). All thirteen variables accounted for 98.9 percent $(R^2 = .9891)$ of the total variance. The results of the second regression analysis are presented in Table 26.

In the second regression analysis the beta weights for the predictor variables (remedial practices) were positive. Therefore, V8 (students are encouraged to participate in remedial programs offered at area vocational centers), V34 (the use of volunteer aides), and V21 (teachers preparing their own remedial materials) were predictive of enrollment declines.

The second regression analysis was based on percent change in enrollment as opposed to the coded (1, 0, -1) enrollment changes used in the first regression analysis. Only V34 (use of volunteer aides) was a common predictor of enrollment changes for vocational education enrollments using principal and director response data. Variable 34 did not appear as a predictor variable in the first analysis using



Table 26

Remedial Practices as Predictors of Enrollment in Vocational Education Courses

Based Upon Responses by School Principals and County Vocational Education Directors
by Percent Changes in Enrollments

			Principa	ils	_			County Vocation	onal Educ	ation Directors	
Predictor Variables	Beta Weights	Additional Variance	R ²	Probability of P to Enter	Significance	Predictor Variable	Beta Weights	Additional Variance	R ²	Probability of F to Enter	Significano
V34 ·	3.159	-2889	.2889	8.94	.007	v 8	6.4763	. 2830	. 2830	5.92	.028
		•				V34	7.1414	.2088	.4918	5.75	.031
						V21	5.9775	.1277	.6195	4.36	.057

responses by principals. Four variables (V8, V21, V33, and V34) appeared in both analyses as predictors of enrollment based on response rating of county vocational education directors. As in the first analysis, the precision in predicting the direction of enrollment change is more reliable using vocational education director responses than those made by principals.

Holding Power of Vocational Education Programs

Principals and vocational education teachers from the schools participating in this study were requested to rank order the three most outstanding vocational education programs in their school. County vocational education directors were requested to do the same for the programs in their county. The program rankings were to be analyzed in conjunction with enrollment changes in order to determine the "holding power" of vocational education programs; that is, are students who enroll in a "strong" vocational education program more likely to reenroll in that program after failing the FSSAT, than are students who enrolled in "weak" programs?

The vocational education programs ranked as outstanding by vocational education teachers (Table 27), by principals (Table 28), and vocational education directors (Table 29) were redefined as "strong" and coded (1). The programs that were not ranked were defined as "weak" and were coded (0).

Enrollments in seven vocational education program areas were computed for 1977 and 1978, and the percent change coded (1) for enrollment increases and (0) for enrollment decreases. A computer analysis (SPSS) was performed in order to assess program strength on enrollment by using the coded program strengths (1,0), enrollment changes (1,0), and the outstanding program rankings (1, 2, 3) by the principals, teachers, and vocational education directors (Table 30). The results of this analysis showed that among programs rated as "strong" by school principals, those programs appeared to have little influence in maintaining or increasing enrollment in vocational education. However, of the programs ranked "weak" by the same principals, enrollment increases occurred in over twice as many programs as decreases. The "trong" rank was assigned by principals more often than a "weak" rank to the vocational programs.

The programs rated as "strong" by vocational teachers did not appear to influence enrollments. Enrollment increases were double the enrollment decreases in programs rated as "weak" by vocational teachers. The Business Office program experienced the greatest enrollment decrease among those programs rated as "strong", while Home Economics increased significantly.

Programs rated as "strong" by vocational education directors were comparable to those of principals, and also appear to have little influence on enrollment changes.



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Table 27

Vocational Program Ratings by Vocational Teachers and Enrollment Changes

by Program Strengths

	Program	Ratings by	Number	Enrollment Changes by reogram Strength					
Vocational Programs	Vocational Teachers		of	No. of Wea	k Programs.	ro. of Strong Programs			
, 	Weak	Strong	Teachers	Decrease	Increase .	Decrease	Increase		
AG	55 '	53 .	108	4	51	. 17	36		
во	64	141	205	50	14	96	45		
HE	51	· 158	209	19	32	43	115		
ŊΕ	. 80	38	118	25	35	7	31		
НО	41	, 19 .	. 60	10	31	8	11		
IA `	76	60	136	42	34	41	19		
T&Į	64 -	94	158	13	, 51	20	74		
		*		•					

Table 28

Vocational Program Ratings by Principals and
Enrollment Changes by Program Strengths

Vocationa Programs	l Princ	Ratings by cipals	Number of		ent Changes lak Programs	by Program Strengths No. of Strong Programs		
	Weak	Strong	Principals	Decrease	Increase	Decrease	Increase	
AG	6	8	14	1	5	2	6	
ВО	1	26	27	0	1	19	7	
НЕ	8 5	٠ 19	27	3 э	5	5	14	
DE	11	4	. 15	2	· 9 ·	2	2	
но	5	2	7	2	3	, 0	2	
IA .	6	10	16	3	3	7	3	
T&I	• 7	11	18	2	5	2	· 9	

Table 29

Vocational Program Ratings by County Vocational Directors and Enrollment Changes by Program Strengths

	Program Ratings by			Enrollment Changes by Program Strength						
Vocational	County Vocational Directors		of · County	No. of Wea	/	No. of Strong Programs				
Programs	Weak	Strong	Vocational Directors	Decrease	Increase	Decrease	Increase			
AG	12	6	18	5	7	0	6			
B O .	0	19	19	0 、	· 0	17	2			
HE	9	10	19	2	7	2 ,	8			
DE	9	4	13	4	5	1	3			
НО	6	4	, 13	4	2	1	3			
IA	. 11	6	17	4	7 -	4 .	2			
T&I	2	12	14	1	1	3	9			

() <u>1</u>

bo

Table 30

Vocational Education Programs Ranked as Outstanding by Vocational Teachers,
County Vocational Directors, and Principals in Three Choices

Choice	Program ^a Rankings by Vocational Teachers				gram Rank ational D		Program Rankings by Principals			
	11	2	3	1	2 .	3	11	2	3	
1	BO (34)	T&I (18)	HE(16)	BC(42)	T&I (26)	IA(11)	BO (56)	AG (19)	DE(7)	
2	BO(33)	HE (23)	DE (10)	BO(32)	T&I(26)	HE (11) - HO (11) - IA (11)	HE(26)	BO (22) T&I (22)	DE (7)	
3	BO(21)	HE(18) IA(18)	G(9) DE(9)	HE(37)	T&I (21)	Others(5)	HE(33)	BO(19) IA(19)	T&I (7)	

Note: Numbers in parentheses represent percent of times program chosen to be ranked

aprogram abbreviations are bo(Business Office), HE(Home Economics, T&I (Trades and Industry), AG(Agriculture), HO(Health), IA(Industrial Arts), DE(Distributive Education).

The results of the Chi Square analysis (program strengths by enrollments) (Table 31) indicate that vocational programs perceived as "strong" do not appear to influence vocational enrollments or reenrollments. Actually, more enrollment increases occurred in programs identified as "weak" by respondents. The one program rated "strong" by all respondents which experienced the greatest declines in enrollment was Business Office. However, enrollment increased in AG, DE, and T&I although these programs had been ranked as being "weak" by a number of vocational education teachers.

Vocational teachers, principals, and county vocational directors responded affirmatively (77%, 96%, and 95% respectively) when asked if students who failed the FSSAT were permitted to enroll in vocational education courses. However 55 percent of the vocational education students who failed the test indicated that they would not enroll in vocational education courses again, and 61 percent of the non-vocational education students who failed indicated that they would not enroll in any vocational education courses. In fact, 78 percent of vocational education students stated that remediation was unavailable in vocational education courses. This might contribute to the perception that vocational education courses do not appear to possess a "holding power" that will influence enrollment positively.

Students Deterred from Vocational Education Courses

The question of whether or not students are deterred from enrolling in vocational education courses because of the anticipated need to prepare for the FSSAT revealed that only 5.1 percent of the students participating in the study were deterred. This result appears to agree with the perception of teachers, principals, and county directors who reported that not many students were deterred, the percentages being 76.4, 82.5, and 74.1 respectively.

Preparation requirements for taking the FSSAT accounted for 40 percent of the reasons why students were deterred from continuing in vocational education programs. Students indicated that requirements to prepare for the FSSAT left insufficient time to prepare for vocational education courses (item 19), to complete vocational courses (item 22) to work in Cooperative education programs (item 21). Consequently, some students (the 18.8 percent who failed the FSSAT) dropped vocational education courses, while other students (10%) decided not to enroll in vocational courses, in order to satisfy preparation requirements for a re-examination on the FSSAT. Included among those who dropped vocational education courses were some non-vocational education students who had enrolled in one, or even two, vocational courses to satisfy elective requirements. These data are summarized in 1 e 32.



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Table 31

Chi Square Analysis of the Influence of Program Strength on Vocational Enrollments

Based on Program Rankings by Vocational Teachers, Principals

and County Vocational Directors

			_						Prog	rams a	and Par	ticipa	nt Rank	ings								
Statistics		AG		ВО НЕ			DE		НО			<u>IA</u>		T&I								
ì _		T (108)	P (14)	D (18)	т (205)	P (27)	D (19)	т (209)					D (13)	т (50)						T (158)		D (14)
-	x ²	9.0	0	0	1.7	20	0.	1.4	.01	0	1.5	0	0	1.1	0	0	1.8	0	0	0	0	0
	Significance	.00	0	0	.19	. 64	0	.23	.90	0	.21	0	0	. 27	0	0	.16	0	0	1.0	0	0

Note: Abbreviations: T (Teacher), P (Principal), D (Vocational Director)

Numbers in parentheses represent the number of respondents

AG (Agriculture), BO (Business Office), HE (Home Economics), DE (Distributive Education), HO (Health), IA (Industrial Arts),

T&I (Trades and Industry)

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Table 32

Percentage of Student Determent from Vocational Education Courses by Total Enrollment, by Student Category, and by Level of Urbanization

			Stu	Levels of Urbanization			
Vari- able	Reasons for Student Determent From Vocational Education Courses	Total	Vocational	Non-Vocational	Low	Medium	High
v3	Dropped vocational courses	4.4	3.4	5.4	3.1	3.6	4.9
V6	Voluntarily withdrew from vocational courses	18.8	18.4	19.2	13.3	15.8	20.5
V19	Insufficient time to prepare for vocational courses	9.5	8.9	10:4	7.8	6.6	10.5
V21	Unable to work on cocperative vocational programs	5.9	7.8	4.1	3.2	5.3	6.4
V2 2	FSSAT preparation requirement	8.0	8.5	7.6	.6.2	6.2	3.8
V.26	FSSAT requirement interfered with training opportunities	16.6	17.1	16.0	10.2	19%4	18.6
V49	Unable to continue in vocational course in order to prepare for the FSSAT	5.4	5.8	5.1	4.8	6.2	5.3
V50	Did not enroll in vocational course	4.0	3.9	4.1	0	3.1	4.98
v63 į	Dropped vocational course to take remediation	18.8	16.5	21.1	J1.8	17.9	20.7

^{*}Students who failed FSSAT (N=191)



Effectiveness of Remedial Practices

Teachers, principals, and vocational directors differed in their evaluation of the effectiveness of remedial practices used in the schools. Pearson product-moment correlations were computed relating the extent of remedial practices when used to the survey responses of the teachers, principals, and vocational directors. The correlations between remedial practices and the response were generally low. Counseling prior to the FSSAT, releasing teachers from their regular duties in order to provide remediation, and conducting remediation outside of classes were considered to be moderately effective. The correlations for the effectiveness of the remedial practices are presented in Table 33.

Repetition of Remedial Practices.

Pearson product-moment correlations were computed relating the extent of use of remedial practices to the response by the participants as to whether or not the remedial practices employed by the school will be repeated the following year. The correlations were generally low (Table 34). Based on a comparison of the data in Tables 33 and 34 it appears that some of the remedial practices even though considered to be effective, e.g., releasing teachers from regular duties in order to provide remediation, or providing remediation outside of regular class time, might not be repeated the following year.

Discussion

The purpose of this study was to assess the impact of the FSSAT and subsequent remediation practices upon enrollment in vocational education programs at the secondary level. The study was specifically designed to investigate types of remedial practices utilized as a consequence of the FSSAT, whether or not students were deterred from taking vocational education courses in order to prepare for the FSSAT, if disproportionate enrollment increases of decreases occurred in vocational education as a consequence of the FSSAT, if enrollment increases or decreases in vocational education were dependent upon practices employed for remediation, if the "strength" of vocational education courses was sufficient to entice students who failed the FSSAT back into vocational education courses, and if the remedial practices worked, would they be worth repeating in the following year.

While total secondary level enrollments continue to decline in Florida, enrollments in vocational education programs rose although not at a pace comparable to that on the national level. The expected enrollment decline in vocational education programs anticipated by vocational education administrators did not materialize after the implementation of the FSSAT. In 1978, the first year after the

Table 33 Pearson Product Moment Correlations for the Extent of Use of Remedial Practices with the Overall Effectiveness of Remedial Practices Utilized

	Remedial Practices	Teachers (N=215)	Principals (N=27)	County Vocational Directors (N=20)
v 5	Students who fail the FSSAT are permitted to enroll in vocational education classes	.13*	. 29	10
v 8	Students are encouraged to participate in remedial programs offered at area vocational education centers	. 22***	08	.30
-V17	Counseling prior to taking the FSSAT	.44***	.38	.68***
V29	Students are withdrawn from vocational education classes for remediation .	04	. 29	39*
V 32	Remediation is provided during regularly scheduled classes	09	08	26
V 33	New teachers are hired to conduct remediation classes	.08	.31,	03
V34	Volunteer aides are utilized to provide remediation	.01	. 44	31
V 35	Teachers are released from regular duties in order to provide remediation	08	. 07	42
۱٬36	Remediation is offered outside regular class time	.07	.07	45
V 38	Questions comparable to those on the FSSAT are used in preparing students for the FSSAT	.33***	.11 •	24
V4 0	County schools cooperate to provide remediation	.15*	, • 00	.22
	Vocational courses are used to provide remediation	02	.15	25

^{*}P<.05
***P<.001

Table 34 Pearson Product Moment Correlations for the Extent of Use of Remedial Practices with the Repeat Ability of Remedial Practices Utilized

				County Vocational
	Remedial Pracéices	Teachers (N=215)	Principals (N=27)	Directors (N=20)
V 5	Students who fail the FSSAT are permitted to enroll in vocational education classes	.15*	.27	20
8 1	Students are encouraged to participate in remedial programs offered at area vocational education centers	01	11	.21
<i>1</i> 1.7	Counseling prior to taking the FSSAT	•09	.24	06
129	Students are withdrawn from vocational education classes for remediation	.03	.14	. 26
32	Remediation is provided during regularly scheduled classes	•09	38	.62
733	New teachers are hired to conduct remediation classes	.18	05	.12
734	Volunteer aides are utilized to provide remediation	13*	07	19
35	Teachers are released from regular duties in order to provide remediation	.08	19	,.1 <u>1</u>
736	Remediation is offered outside regular class*time.	05	-,17	.23
738	Questions comparable to those on the FSSAT are used in preparing students for the FSSAT	. 27***	04	. 20
740	County Schools cooperate to provide remediation	.19	15	.35
146	Vocational Courses are used to provide remediation	.12*	19	.16



^{*} P<.05 *** P<.001

administration of the FSSAT, Business Office enrollments increased while Home Economics and Trade and Industry enrollments declined across the state. Vocational education enrollment increases were spread across all vocational programs among the sample schools participating in this study. In fact, disproportionate enrollment changes did occur when vocational education enrollments were compared to total secondary level enrollments, that is, vocational education enrollments increased as total school enrollments declined.

It was also revealed that less than 20 percent of the students leave vocational education programs in order to prepare for the FSSAT, a larger percentage (55%) of those students who failed the FSSAT on their first attempt, indicated that they would not re-enroll in vocational education courses after retaking the FSSAT. This negative response supports the findings that even vocational programs rated as "strong" do not have sufficient "appeal" to entice students back into vocational education programs. In fact, vocational education teachers, county vocational education directors, and school principals appear to perceive the strengths of vocational programs to be of greater influence on enrollments than they were in reality.

A wide range of remedial practices are being utilized in Florida. While some remedial practices were reported to work by teachers and principals, there was no assurance that these practices would be repeated in the following year. The failure to repeat remedial practices suggests the need for continuation of, and standardization of, remedial practices. Variability in student performance on the FSSAT could be the result of the teacher, the instructional approach (remedial practice), or the remedial materials themselves. It is important that similar remedial practices be employed under comparable situations in order to identify learning problems for which new remediation can be prescribed. The effectiveness of individual remedial practices, as well as their influence on enrollment, needs to be investigated.

The quality and effectiveness of remedial materials is often influenced by situational factors; for example, by the number of students to be remediated in a class, by the complexity of the subject matter, by the learning environment, by the experience of the teacher as an instructional designer, and by the availability of resources. While 50 percent of the teachers indicated that they prepared their own remedial materials, approximately one-third of them believed that the Florida Department of Education should not be responsible for the design and development of the materials. Only 29.6 percent of the teachers indicated that the preparation of remedial materials was a source of extra work. While this may be the case, the effectiveness of these materials is subject to question. For instructional materials to be effective they should be designed systematically (Briggs and Wager, 1981). Such a syscematic approach

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virtually insures that the intended learning outcomes will be achieved. The effectiveness of the materials should be assessed periodically through formative evaluation in order to determine if revisions are necessary, if the materials are obsolete, or if new materials need to be developed (Dick and Carey, 1978).

One of the difficulties encountered in this study was the lack of consistency in recording enrollment data at the state level. Three different formats for collecting enrollment data were used during the five year period under consideration. It has been only recently that unduplicated enrollment data has been recorded. Unduplicated data would be useful in future efforts to investigate the influence of the FSSAT on enrollments.

Recommendations

It is only possible to speculate that enrollment trends in vocational education which occurred in Florida between 1975 and 1978 will continue. Vocational education enrollment data is often duplicated, inconsistent between state agencies, and current data are not always accessible. An inclusive data collection instrument (one that is not changed every three years) is needed. This instrument should be available to all high schools and should include space for comprehensive demographic data as well as unduplicated enrollment data for both the total school and the vocational education programs within each school. These data should be made available for use more quickly than is currently the practice. At this writing, Florida vocational education enrollment data for the academic years of 1979-1980 and 1980-1981 were not available.

Additional questions were generated as a result of this study which need to be addressed. For example, why are the views among vocational education personnel so divergent regarding the numbers of students enrolled in their course? Why don't vocational education teachers or principals repeat remedial practices from one year to the next? How is the effectiveness of remedial practices determined? Why do vocational education programs perceived to be "strong" (outstanding) by vocational teachers, principals, and county vocational education directors lack the "holding power" to attract students or to maintain enrollment levels. Each of these questions needs to be addressed in future studies.

The learning difficulties experienced by students who fail the FSSAT need to be identified so that appropriate remedial instruction can be prescribed. Remedial instruction designed by teachers is subject to considerable variability if the teachers are unfamiliar with the principles of instructional design, or if needed resources,

such as time, funds, and support services are not available. It is recommended that teams of instructional designers, rather than teachers, beeresponsible for developing and evaluating remedial instruction.

In addition to systematically designing remedial instruction, some consideration should be given to standardizing remedial practices within the schools. To accomplish such a task it would be necessary to determine under what learning conditions, and with what type of learner, the remedial practices are effective. While evidence is lacking that anyone of the remedial practices, which resulted in increased vocational education enrollment, is more effective than another, two practices were identified that were predictive of enrollment increases: (1) withdrawing students from vocational education classes to take remediation, and (2) using questions comparable to those found in the FSSAT to prepare students for the FSSAT. ➡It is recommended that those practices predictive of enrollment increases be continued, and that efforts be made to focus on only a few remedial practices that will lead to test success, rather than attempt to employ, a variety of remedial practices. While students may learn the skills to pass the FSSAT, one wonders what other remedial practices might be found that are effective for increasing test success and learning. Thus the standardization of remedial practices should result in the uniform implementation of those practices across the state; that is, certain types of learners possessing specific learning difficulties in particular subject matter areas will have equal opportunities to achieve success on the FSSAT. It is further recommended that most remediation occur outside of regularly scheduled class time. The ramifications of such recommendations are extensive.

Finally, the fact that a substantial portion of vocational education students decide not to re-enroll in vocational education courses after failing the FSSAT needs to be investigated. Possibly the idea of incorporating the learning of basic skills in vocational education programs should be reconsidered.

References °

- Briggs, L. J., & Wager, W. Handbook of procedures for the design of instruction (2nd ed.). Englewood Cliffs, NJ: Educational Technology Publications, 1981.
- Dick, W. & Carey, L. The systematic design of instruction. Glenview, IL: Scott Foresman & Co., 1978.
- Dryenfurth, M. J. Vocational data reports: The status of industrial arts. Man, Society, Technology, 1980, 40(2), 16-19.
- Evans, R. N., & Herr, E. <u>Foundations of vocational education</u> (2nd eds). Columbus, OH: Charles E. Merrill Publishing Co., 1978.
- Fisher, T. H. The courts and your minimum competency testing program A guide to survival. Measurement in Education, 1980, 11(1), 1-2.
- Kerlinger, F. N., & Pedhauzer, E. J. <u>Multiple regression in behavior</u> al research. New York: Holt, Rinehart, & Winston, Inc., 1973.
- State of Florida, Department of Education, Division of Public Schools, Management and Information Systems & Services Section. Tallahassee: 1979.
- State of Florida, Department of Education, Division of Vocational Education, Management and Information Systems & Services Section. Tallahassee: 1979.
- Tesolowski, D. G. The functional literacy test: Florida's approach to competency testing. A paper presented in a symposium on minimum competency tests at the Eastern Educational Research Association, Second Annual Conference. Kiawah Island, SC: 1979.
- The National Center for Research in Vocational Education, The Ohio State University. The status of vocational education: School year 1976-1977. Columbus, OH: 1979. (Research and Development Series No. 193).
- United States Department of Health, Education, and Welfare; National Center for Education Statistics; Statistics of Public Elementary and Secondary Schools; and unpublished data. Washington, D.C.: 1979
- Wheeler, J. D. The scope of vocational education. Module developed by the American Institutes for Research under support by the Bureau of Occupational and Adult Education, Office of Education, U. S. Department of Health, Education, and Welfare, Palo Alto, CA: 1979.



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Appendix A

Follow-up Letter to School Superintendent

College of Education
Department of Educational
Leadership
Vocational Education
206 South Woodward
(904) 644-6298

The Florida State University Tallahassee, Florida 32306



As promised at the conclusion of our recent telephone conversation, a brief written statement outlining the research endeavor we discussed is being provided.

The Department of Educational Leadership/Vocational Education from the Florida State University is conducting a research project under the direction of Dr. dollie B. Thomas. This research is being funded by the Division of Vocational Education of the state of Florida Department of Education. The purpose of this study is to assess the effect of the Florida State Student Assessment Test, and the differential impact of subsequent remediation practices in Florida, on changes in vocational education enrollment at the secondary level. Perceptions and experiences of students, vocational education teachers, principals, and county vocational education directors regarding the effects of the Florida State Student Assessment Test and remedial practices are also being sought.

Schools participating in this study throughout the state have been randomly selected. Twelfth grade classes, vocational education classes, and vocational education teachers will be randomly selected prior to the administration of the data collection instruments. Principals and county vocational education directors will be asked to complete the survey instrument. The survey instruments designed for each group of participants contain parallel items.

The individual responses provided by each participant will remain confidential; however, counties and schools will be coded for statistical purposes. A summary of the results of the study will be made available to the superintendent of schools and the principal of each participating school.



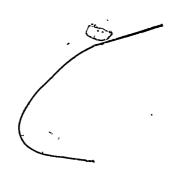
page -2-

This letter is to confirm our arrangements for an appointment on 1980 with you and other appropriate members of your staff to discuss the possibility of your participation in this activity.

Sincerely,

Henry Maher Research Assistant

/jks



Appendix B .

Manual Presented to County Vocational Education
Directors, School Superintendents, and Principals

IMPACT OF THE FLORIDA STATE STUDENT ASSESSMENT TEST
AND REMEDIATION PRACTICES ON ENROLLMENT IN
VOCATIONAL EDUCATION PROGRAMS AT THE SECONDARY LEVEL



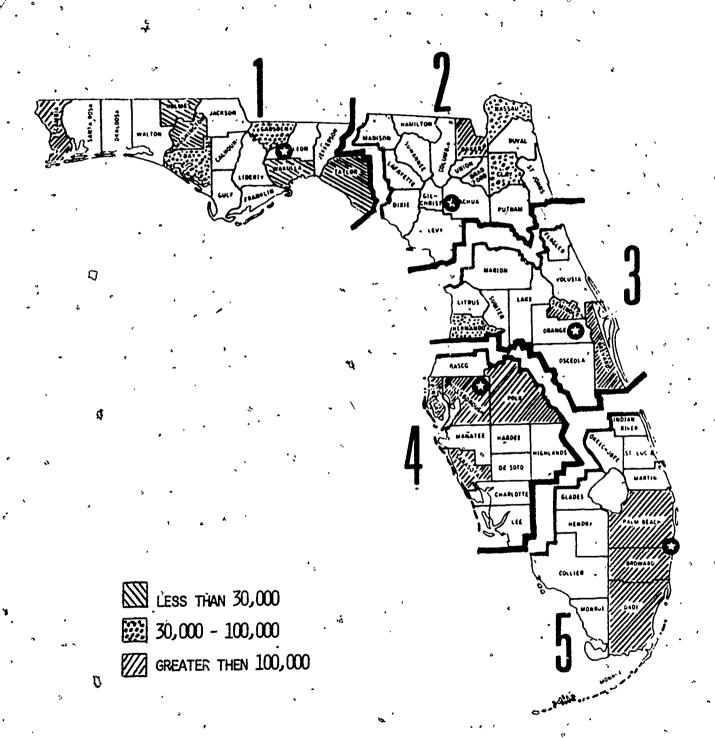
PURPOSE. OF STUDY

OF THE PURPOSE OF THIS STUDY IS TO DETERMINE THE IMPACT OF THE FLORIDA STATE STUDENT ASSESSMENT TEST, AND SUBSEQUENT REMEDIATION PRACTICES ON CHANGES IN VOCATIONAL EDUCATION ENROLLMENT AT THE SECONDARY LEVEL.

THIS STUDY IS BEING FUNDED BY THE DIVISION OF VOCATIONAL EDUCATION OF THE STATE OF FLORIDA DEPARTMENT OF EDUCATION.



POPULATION DISTRIBUTION



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TOTAL STUDENT POPULATION

COOPERATING SCHOOLS MAY CHOOSE FROM THREE ALTERNATIVE PRO-CEDURES FOR SELECTING STUDENTS TO PARTICIPATE IN THIS RESEARCH PROJECT. THEY ARE:

- 1) A RANDOM SELECTION OF STUDENTS FROM THE TWELFTH GRADE WHO HAVE TAKEN THE FLORIDA STATE STUDENT ASSESSMENT TEST (FSSAT).
- 2) TWELFTH GRADE STUDENTS WILL BE DIVIDED INTO TWO GROUPS, THOSE WHO PASSED AND THOSE WHO FAILED THE FSSAT. A RANDOM SELECTION OF STUDENTS FROM THE TWO GROUPS WILL BE ASKED TO RESPOND TO THE DATA COLLECTION INSTRUMENT.
- 3) A RANDOM SELECTION OF AN INTACT TWELFTH GRADE CLASS FROM THE CLASSES TO WHICH STUDENTS HAVE BEEN MORE OR LESS RANDOMLY ASSIGNED AND WHICH CONTAINS STUDENTS WHO PASSED AND FAILED THE FSSAT.



VOCATIONAL EDUCATION STUDENTS

COOPERATING SCHOOLS MAY CHOOSE FROM TWO ALTERNATIVE PROCEDURES FOR SELECTING VOCATIONAL EDUCATION STUDENTS TO PARTICIPATE IN THIS RESEARCH PROJECT. THEY ARE:

- 1) A RANDOM SELECTION OF AN INTACT TWELFTH GRADE .

 VOCATIONAL EDUCATION CLASS CONTAINING STUDENTS

 WHO HAVE TAKEN THE FSSAT.
- 2) A RANDOM SELECTION OF TWELFTH GRADE VOCATIONAL EDUCATION STUDENTS WHO HAVE TAKEN THE FSSAT.

VOCATIONAL EDUCATION TEACHERS

OPTIONS FOR SELECTING VOCATIONAL EDUCATION TEACHERS
TO PARTICIPATE IN THIS STUDY INCLUDE:

- 1) RANDOM SELECTION OF A SPECIFIC NUMBER OF PARTICIPANTS, FROM THE TOTAL VOCATIONAL EDUCATION
 FACULTY.
- 2) INVITING ALL VOCATIONAL EDUCATION TEACHING FACULTY TO PARTICIPATE IF THERE ARE FEWER THAN TEN VOCATIONAL EDUCATION TEACHING FACULTY AT THE SCHOOL.

VOCATIONAL EDUCATION DIRECTORS AND PRINCIPALS

COUNTY VOCATIONAL EDUCATION DIRECTORS, AND PRINCIPALS
OF THE RANDOMLY SELECTED SCHOOL WILL BE REQUESTED TO
PARTICIPATE IN THE DATA COLLECTION PROCESS.



SUBJECT PROTECTION

THE MATURE OF THIS STUDY DOES NOT REQUIRE IDENTIFICATION OF THE PARTICIPANTS. STUDENTS WILL NOT BE REQUIRED TO PROVIDE EITHER THEIR NAME OR SOCIAL SECURITY NUMBER. THE SEX, RACE, AND WHETHER OR NOT THE STUDENT PASSED THE FSSAT, WILL BE REQUESTED IN ORDER TO DETERMINE PERCENTAGES OF PARTICIPANTS BY CATEGORIES.

RESPONSES FROM VOCATIONAL EDUCATORS, VOCATIONAL EDUCATION DIRECTORS, AND PRINCIPALS WILL BE CODED IN ORDER TO IDENTIFY SCHOOL AND COUNTY. ONCE AGAIN NAMES AND SOCIAL SECURITY NUMBERS WILL NOT BE REQUIRED.

LENGTH OF TIME FOR SURVEY

THE ACTUAL TIME REQUIRED FOR RESPONDING TO THE SURVEY RANGES FROM 15 TO 50 MINUTES, DEPENDING ON THE RESPONDENT'S READING SPEED.



College of Education
Department of Educational
Leadership
Vocational Education
206 South Woodward
(904) 644-6298

The Florida State University
Tailahassee, Florida 32306



a bil to statement outlining the research endeavor we discussed is beilt wided.

The Department of Lower and Leadership/Vocational Education from the Florida State University is conducting a research project under the direction of Dr. Holling Thomas. This research is being funded by the Division of Vocational Education of the state of Florida Department of Education. The purpose of this study is to assess the effect of the Florida 5 The Student Assessment Test, and the differential impact of subsequent the mediation practices in Fibrida, on changes in vocational education enrollment at the secondary level. Perceptions and experiences the students, vocational education teachers, principals, and county to cational education directors regarding the effects of the Florida South Student Assessment Test and remedial practices are also being south.

Schools participating in this study throughout the state have been randomly selected. Twelfth grade classes, vocational education classes, and vocational education teachers will be assignments. Principals and county vocational education directors which be asked to complete the survey instrument. The survey instruments assigned for each group of participants contain parallel items.

The individual responses provided by each participant will read an confidential; however, counties and schools will be coded for statistical purposes. A summary of the results of the study will be made available to the superintendent of schools and the principal of each participating school.

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This letter is to confirm our arrangements for an appointment on 1980 with you and other appropriate members of your staff to discuss the possibility of your participation in this activity.

Sincerely,

Henry Maher Research Assistant

/jks



The survey instruments included in the administrators manual appear elsewhere in this report. The titles, recipients, and location of these instruments are listed below.

Instrument	Recipient	Location
Remediation Practices Implemented Following the Florida State Stu- dent Assessment Test	67 County Vocation- al Directors	Appendix C
Impact of the Florida State Student Assess- ment Test and Remediation Practices on Enrollment in Vocational Education Programs at the Secondary Level	Vocational and Non-Vocational Students	Appendix D
Impact of the Florida State Student Assessment Test and Remediation Practices on Enrollment in Vocational Education Programs at the Second- ary Level	Vocational Education Teachers, Principals, and County Vocational Education Directors from Sample Schools and Counties	Appendix E

Appendix C

Survey Instrument Administered to All

Sixty-Seven County

Vocational Education Directors

College of Education
Department of Educational

Leadership
Vocational Education
206 South Woodward
(904) 644-6298

The Florida State University Tallahassee, Florida 32306



The Division of Vocational Education, the state of Florida Department of Education, is interested in determining the impact of remediation practices on the changes in vocational education programs at the secondary level in each county. This research endeavor is being directed by Dr. Hollie Thomas, Department of Educational Leadership, Vocational Education, The Florida State University. I am responsible for the data collection procedures.

The enclosed questionnaire, one of four parallel data collection instruments being employed in this research, is being mailed to each district vocational education director. Your participation in this research effort is vital. It is not necessary that you identify yourself; however, the questionnaire is coded in order to track districts from which responses are not received. Results of the study will be made available to you at a later date.

A stamped self-addressed envelope is enclosed for your convenience. Please complete the questionnaire and return it by July 30, 1980. Thank you.

Sincerely,

Henry Maher Research Assistant

/jks

enclosure:



REMEDIATION PRACTICES IMPLEMENTED FOLLOWING THE FLORIDA STATE STUDENT ASSESSMENT TEST

11.		
No	_	

Please place a check in the space provided after each question indicating whether or not each practice was used in your county for remediating students who failed the Florida State Student Assessment Test (FSSAT).

1.	New remedial courses were designed and implemented for students who failed the FSSAT.	Yes _·_No
2.	New teachers were hired to conduct remedial courses.	YesNo
3.	Volunteer aides were utilized to conduct remedial courses.	YesNo
4.	Existing teachers incorporated new remedial materials in their regular classes.	YesNo
5.	Existing teachers taught remedial courses after school.	YesNo
6.	Teachers developed their own remedial materials.	YesNo
7.	Students withdrew from vocational education courses in order to take remedial courses.	YesNo
8.	Students withdrew from elective courses other than vocational education courses in order to take remedial courses.	YesNo
9.	Students were offered remedial assistance outside of regular class hours.	YesNo
10.	Students who fail the FSSAT are permitted to enroll in vocational education courses.	Yes No
11.	Students who fail the FSSAT are permitted to enroll in elective courses other than vocational education courses.	YesNo
L2.	No remediation was offered because of budgetary constraints.	YesNo
.3 .	No remediation was offered because of the lack of qualified personnel.	YesNo
.4.	Please state briefly what other remedial practices are being in your district.	implemented

15. Indicate other remediation practices you would like to see implemented.

Appendix D

Survey Instrument Administered to Vocational and Non-Vocational Students IMPACT OF THE FLORIDA STATE STUDENT ASSESSMENT TEST AND REMEDIATION PRACTICES ON ENROLLMENT IN VOCATIONAL EDUCATION PROGRAMS AT THE SECONDARY LEVEL.

STUDENT QUESTIONNAIRE

A. Which of the following did you do to prepare for the Florida State Student Assessment Test (Functional Literacy Test)? (Circle one choice after each question)

		YES	<u>NO</u>
1)	Enrolled in a special (remedial) course in order to get help in preparing for the Functional Literacy Test.	1	0
2)	Enrolled in vocational education courses because they offered help in the basic skills required for graduation.	1	0
3)	Dropped the vocational education courses in which I was enrolled in order to take a special (remedial) course.	1	0
4)	Dropped an elective course other than a vocational education course in which I was enrolled in order to take a special (remedial) course.	. 1	0
5)	Received remedial assistance in a general education course.	1	0
6)	Decided to take a course other than a vocational education course in order to get ready for the Functional Literacy Test.	1	. 0
7)	Received remedial assistance in a general education course.	1	; ;:0
8)	I needed remedial assistance. •	1	, 0
9)	Needed remedial assistance and did not receive it.	1	0
10)	Studied and reviewed the material on my own.	1	0

B., Which of the following explains the effect the Florida State Student Assessment Test (Functional Literacy Test) has had on you? (Circle one choice after each question)

Code: Strongly Agree (SA); Agree (A); No Opinion (N); Disagree (D); Strongly Disagree (SD)

-		SA	A	ωN	D	SD
•		•				• -
11)	The Functional Literacy Test has not had any effect on me.	1	2	3 ·	4	5
12)	The Functional Literacy Test has caused a delay in my preparation for my career.	1	2	3	4	5
13)	Preparing for the Functional Literacy Test has prevented me from learning many other things except the basic skills required to pass the test.	1	2	· 3 ᢩ	4	. 5
14)	The Functional Literacy Test has prevented me from learning the skills I will need to get a job when I am out of school.	1	2	3	4	· ·5
15)	The Functional Literacy Test has helped me to become aware of the things I should learn in school.	1	2	3	. 4	5
16)	The requirement for passing the Functional Literacy Test has motivated me to learn the basic skills.	1	ź	3	4	5
17)	The Functional Literacy Test has kept me out of sports and/or social activities in which I would have liked to participate.	¬> 1	2	3	4	5
. 18)	The Functional Literacy Test has helped me to become more aware of the skills I need to learn in order to succeed in vocational education courses.	1	2	3	4	5
19)	Preparing for the Functional Literacy Test did not allow me the time I needed to prepare for my vocational education Courses.	1	,2		4	5
20)	The Functional Literacy Test helped me succeed in my vocational education courses.	1	2	3	4	5
21)	The Functional Literacy Test kept me from leaving school in the afternoons to work on a cooperative vocational education program.	1 ~	2	3	4	5

•		SA	<u>A.</u>	<u> </u>	D .	SD
22)	The requirements to pass the Functional Literacy Test will keep me from completing my vocational education courses in high school.	1	20	3	4	5
2.3)	The requirements to pass the Functional Literacy Test prevented me from learning many things I wanted to learn-in school about my future career.	1	2		4	5
2,4)	The Functional Literacy Test showed me the areas of study in which I am weak.	1	2 .	3	4 .	5
den	er reaction to the following statements will give us an its feel about the Functional Literacy Test. (Circle or stion)	idea ne <u>ch</u>	abou <u>pice</u>	t ho	ow st B¥C ea	tu- ach
	, , , , , , , , , , , , , , , , , , ,	SA.	Α	į4	D	SD
25)	The Functional Literacy Test has improved the quality of education in our school.	1	2	3	4	5
<u>\$</u> 6)	The requirements for the Functional Literacy Test keep a lot of students from getting the training they need.	1	2	3	4	5
27)	The Functional Literacy Test is a waste of time.	1	2	3	4	5
28)	Everyone should know how to do basic skills before they receive a diploma.	1	2	3	4	5.
29)	The Functional Literacy Test is a good test.	1	2	3	4	5
30)	Students should learn a skill or prepare to enter college rather than have to worry about passing a test.	1	2	3	4	5
31)	Students should enroll in a vocational education course if they fail the Functional Literacy Test.	1	2	3	4	5
32)	The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills.	1	2	3	4	5

D. Please answer the following questions regarding the way your school has helped prepare for the Functional Literacy Test.

	•				•	
Mv	school has:	SA_	_ <u>A</u> _	<u> </u>	<u>D</u>	. SD
2				•		• .
′33) •	Offered remedial assistance to all students who needed help.	1	2	3	4	` 5
34)	Offered the necessary remedial assistance during regularly scheduled academic classes.	1	2	3	4	. • 5
35)	Offered students who failed the test special remedial classes outside regular class time.	1	. 2	3	4	5
36)	Offered remedial assistance as part of the vocational education courses:	·1 '	2	3 ,	4* t -	· 5
37)	Offered after school classes for those who failed the Functional Literacy Test.	1	Ž	.3	4'.	- 5
38)	Offered counseling about how to pass the Functional Literacy. Test before students took the test.	i ·	2.	3	4	5
39)	Offered counseling for those students who failed the Functional Literacy Test.	.1.	· 2	3 ′	4	5
40)	Provided information about the Functional Literacy Test to all students before they ever took the test.	1 .	2	3	4	^ ,5
	•	-		•	3	

E. How do you rate your school on the following. (Circle one choice after each question)

Code: Very good (VG); Good (G); Average (A); Poor (P); Very Poor (VP)

•		VG	<u> </u>	<u> </u>		A E
41)	Preparing students to take the Functional Literacy Test.	.1	2.	3	4	5
42).	Counseling before the Functional Literacy Test.	1	2	3 0	- 4	5
43)	Counseling after the Functional Literacy Test.	1	· 2	3,	4	.5
44)	Quality of counseling for students preparing for the Functional Literacy Test.	i	2	3	4	5
, 45·)	Quality of counseling for the Functional Literacy Test.	1	2	3	4	5

		VG	G	A	P	.VP	10
46.)	Providing vocational education courses that are adequate for career preparation.	, 1	2	3	4	5	
47)	Providing programs to help students prepare for a retake of the Functional Literacy Test.	1.	. 2	3	4	5	
48)	Quality of the program provided students who are preparing for a retake of the Functional Literacy Test.	1	2	3	4	5	
	ational Education Enrollment (Answer each question as le).	accui	cat _i el	Ly as	po	g− ◆	,
•	·		7	ES		<u>NO</u>	
49) ,	Were you enrolled in a vocational education course wh you were unable to continue because you needed to pre for the Functional Literacy Test?	ich pare		1		0	·
•	Name the vocational course you were unable to continue	in:		¢			
50)	Is there a vocational education course that you did n roll in because of your need to prepare for the Funct Literacy Test.	ot en ional	ı L	1		0 •	
	Name the vocational education course you were never a enroll in:	ble-	to			••	

Appendix E

Survey Instrument Administered to County Vocational
Education Directors, Vocational Education Teachers,
and Principals in Participating Counties and Schools

IMPACT OF THE FLORIDA STATE STUDENT ASSESSMENT TEST AND REMEDIATION PRACTICES ON ENROLLMENT IN VOCATIONAL EDUCATION PROGRAMS AT THE SECONDARY LEVEL

Please circle the choice following each statement which you feel best answers that statement.

CODE: Strongly Agree (SA); Agree (A); Undecided (U); Disagree (D); Strongly Disagree (SD).

		SA	Α.	U	D	SD
1)	Enrollment in vocational education classes in this school has declined as a consequence of the Florida State Student Assessment Test (FSSAT).	1	2	3,	4	5
2)	Enrollment in vocational education classes has declined in this school because students who fail the FSSAT must participate in a remediation program.	1	2	. 3	4	5
3)	Enrollment in vocational education courses has decreased at a greater rate then the enrollment in other elective courses since the implementation of the FSSAT.	1	2	3	4	5
4)	Enrollment in vocational education courses has increased at a greater rate than the enrollment in other elective courses since the implementation of the FSSAT.	1	2	3	4	5
5)	Students who fail the FSSAT are permitted to enroll in vocational education courses.	1	2	3	4	5
6)	Students who fail the FSSAT are permitted to enroll in elective courses other than vocational education courses.	í	2	3	4	5



	•	SA	A	U	D	SD
7)	The increase or decrease in vocational education enrollment has been due to factors other than the FSSAT.	1	2	3	4	5
8)	Our school has encouraged students to participate in remedial opportunities offered through area vocational education centers.	1	2	3	4	5 ,
9)	The FSSAT is an appropriate test for measuring basic skill competencies.	1	2	. 3	4	4
10)	As a result of the FSSAT, students in this school have improved their performance in basic skills.	1	2	3	4	5
11)	The FSSAT has helped teachers to develop more effective courses for their students.	1	2	3	4	5
12)	The FSSAT as a diagnostic tool influences the programming efforts in this school in a positive way.	1	2	3	4	· 5
13)	The quality of instruction has improved in this school as a result of the implementation of the FSSAT.	1	2	3	4	5
14)	The quality of counseling in this school for students preparing to take the FSSAT is excellent.	1	2	3	4 .	5
15)	The quality of counseling in this school for preparing students who failed the FSSAT for a retake is excellent.	. 1	2	3	4	5
16)	The quality of remediation programs in this school that prepare students for a retake of the FSSAT is excellent.	1	2	3	4	5
17)	The counseling procedures used in this school to assist students in preparing for the FSSAT have been successful.	1	2	3	4	5
18)	Students should be counseled into vocational education courses if there is a likelihood that they will fail the FSSAT.	1	2	3	4	5

		SA	Ā	U	Ð	SD
19)	Students from this school who have been counseled on how to prepare for the FSSAT have been successful in their retake exam.	1	2	3	4	5
(20)	Students choose to enroll in vocational education courses to learn basic skills rather than remain in regular academic classes.	1	2	3	4	5
21)	Remediation materials are developed by the teachers in this school.	1	2	3 ′	4	5
22)	The Florida Department of Education should be responsible for preparing all remedial materials.	1	2	3	4	· 5
23)	Teachers always have sufficient budget for preparing remedial materials.	1	2	3	4	5
24)	Sufficient qualified teaching personnel are available to conduct remediation classes.	1	2	3	4	5
_. 25)	The FSSAT deters many students from obtaining the vocational training they need for job entry.	1	2	3	4	5
26) -	Providing remediation for students who failed the FSSAT has interfered with course goals established by teachers.	1	2	3	4	5
27)	The FSSAT has interfered with the overall curriculum goals of this school.	1	2	3	4	5
28)	The FSSAT has created more work for me.	1	2	3	4	5
29)	Students who fail the FSSAT are withdrawn from vocational education classes in order to take remedial work.	1	2	3	4	5
30)	The rate of student withdrawal from electives other than vocational education courses has increased in this school since the implementation of FSSAT.	1	2	3	4	5
31)	The rate of student withdrawal from vocational education courses has increased in this school since the implementation of FSSAT.	1	2	3	4	5

	•	SA	A	U_	D	SD
32)	Teachers are expected to teach remedial classes during regularly scheduled hours.	ì	2	3	4	5
<u></u>	New teachers are hired to conduct remedial classes in this school.	1	2	3	4	5
34)	Volunteer aides are utilized to assist teachers in conducting remedial classes.	1	2	3	4	5
35)	Teachers are often released from regularly assigned classes in order to conduct remedial classes.	1	2	3	. 4	. 5
36)	Students are offered remedial assistance outside of regular class hours.	ì	2	3	4	5
37)	Practices used for remediation are reviewed routinely with appropriate revisions made.	1	2	3	4	5
38)	Teachers in this school provide practice sessions using questions comparable to those on the FSSAT to assist students in preparing for the FSSAT.	, 1	2	.3	4	5
. 39)	*Our school has encouraged students to participate in remedial opportunities offered through area vocational education centers.	1	2	3	4	5
40)	Our school works cooperatively with other schools in the area (county) to develop and provide quality remedial assistance for students who failed the FSSAT.	1	2 2	3	4	5
41)	Some students are delaying their vocational preparation until after high school in order to allow time for preparing for the FSSAT.	1	. 2	3	4	5
42)	Remedial practices used in this school year will be repeated again next year.	1	2 .	3	4	5
43)	The remediation procedures utilized in this school are successful.	1	2	3	4	. 5
44)	The requirement for remedial instruction for students to pass the FSSAT will cause vocational education course offerings to be reduced at the				,	
	high school level.	1.	2	3	4	5

~			SA	A	U	D	SD	
45)	Vocational education teachers in this seconduct most of the remediation classes students who fail the FSSAT.		1	`	3	4	5	
46)	Vocational education courses are often ized in this school to teach the basic necessary for students to pass the FSSA	skills	1	,2	3	4	5	
47)	More vocational education courses should added to the curriculum in this school order to meet the needs of students who the FSSAT.	in	i	2	3	4	5	
48)	Vocational education programs, because their ability to provide "real world" eiences, are able to facilitate the devement of competencies needed in the basiskills more readily then regular academ classes.	exper- elop- c			3		5	
	Clusses.		_		J	47	,	
49)	Remediation for the FSSAT can be incorpinto the existing vocational education grams in this school.		1	2	3	4	5 `	
50)	Students are now able to receive the reinstruction they need to pass the FSSAT rolling in vocational education courses	by en-	1	2	3	4	5	
in y	se rank order the TOP THREE OUTSTANDING our school from the list below using most outstanding program.	vocationa	al ed	duca	tion	pro	grams	;
	Agriculture ,B	usiness 🧟	and C	Offi	ce		•	
	Home EconomicsI	ndustrial	LArt	s		•		
	DistributionT	echnical						
	Health T	rades and	l Ind	lust	rv			

G. THE FOLLOWING QUESTIONS ARE ABOUT THE FUNCTIONAL LITERACY TEST (Circle One Choice after each statement)

	•	•	YES	NO
`	The	preparation I had for the Functional Literacy Test has		,
	51)	Improved my performance in other classes.	1	0
	52)	Improved my performance in vocational education courses.	1	0
•	53)	Made me think more about basics.	1	0
	54)	Turned me off about school.	1	0
	55)	Helped me decide to go to an area vocational education center:	1	0
	56)	Helped me decide to drop out of vocational education courses.	1	0
	57)	Helped me decide to take vocational education courses instead of regular courses.	1	0
	58)	Helped me make a clearer decision about vocational education courses I need in order to obtain my career goals.	1	0

H. THE FOLLOWING QUESTIONS ARE ABOUT YOU (Circle One Choice after each question)

	YES	<u>,000</u>
59) Are you now enrolled in vocational education courses?	1	0
60) Have you ever enrolled in vocational education courses?	1	0
61) Were you successful in passing the llth grade Functional Literacy Test?	1	0

NOTE: IF YOU ANSWERED "NO" TO QUESTION 61, THEN GO TO THE NEXT PAGE

IF YOU ANSWERED "YES" TO QUESTION 61, THEN STOP HERE...

IF YOU WERE UNSUCCESSFUL IN YOUR ATTEMPT TO PASS THE FUNCTIONAL LITERACY TEST, PLEASE ANSWER THE FOLLOWING QUESTIONS. (Circle One Choice after each question)

		YE	s	<u>NO</u>
62)	Were you able to stay in the courses you planned to take even though you were unsuccessful on the 11th grade Functional Literacy Test?			0
63)	Did you drop out of vocational education courses in order to prepare for a retake of the Functional Literacy Test?	1		0
64)	If you were enrolled in vocational education courses before you took the Functional Literacy Test, do you plan to enroll in any future vocational education courses?	, l	•	0.
65)	Have you ever enrolled in a course to help pass the Functional Literacy Test?	1		0



Appendix F

The Frequency and Percentage of Responses by

Vocational and Non-Vocational Education Student

on Items Concerning the FSSAT

in the Student Questionnaire

Secondary Level Vocational and Non-Vocational Education Students Responses

to Questions Concerning the FSSAT by Prequency and by Percentage

,				,		,		STU	DENTS	·							•
	X.	-~		Items	٠,		ional 545)	<u> </u>	, 'N	on-voca				Tot	al	<u> </u>	
	٠			, "	¥ E	es	No.	<u>-</u>	y e	25	No.	, <u> </u>	Ye f	<u> </u>		No	· .
,	·	λ.	Whi Sta	ch of the following did you do to prepare for the Florida te Student Assessment Test (Functional Literacy Test)?			•	,	•					, >	•	•	
·	 ^ ,	•	1)	Enrolled in a special (remedial) course in order to get help in preparing for the Functional Literacy Test?	Ĭ12	- 20.9	425	79.1	136	21.5	498	78.5	248	21.2	923	78.8	
- (A B		2)	Enrolled in vocational education courses because they offered to help in basic skill required for graduation.	118	22.0	419	78.0	103	16.2	531	83. है.	221	18.9	950`	81.1	
	4	,	3)	Dropped the vocational education courses in which I was enrolled in order to take a special (remedial) course.	18	3.4	519	96.6	34	5.4	600	94.6	52	4.4	1119	95.6	
u •			4)	Dropped an elective course orther than a vocational education course in which I was enrolled in order to take a special (remedial) course.	53	9.9	325	60.7	241	38.4	387	61.6	114	9.8	1052	90.2	
			5)	Received remedial assistance in a general education course.	210	39.3	325	60.7	241	38.4	387	61.6	451	38.8	712	61.2	100
• `			6)	Decided to take a course other than a vocational education course in order to get ready for the Functional Literacy Test.	98	18.4	436	81.6	121	19.2	510	80.8	219	18.8	. 946	81.2	133
13	2		7)	Received remedial assistance in a general education course.	215	40.2	320	59.8	241	38.3	388	61.7	456	39.2	708	60.8	•
			8)	I needed remedial assistance.	143	26.8	390	7362	192	27.2	461	72.8	315	27.0	851	83.0	,
			9)	Meeded remedial assistance and did not receive it.	31	5.8	505 -	94.2	39	6.2	592	93.8	70	6.0	1097	94.0	
		:	10)	Studied and reviewed material on my own.	267	49.7	269	50.3	282	44.5	351	55.5	549	46.9	650	53.1	,

Appendix F (continued)

								STUD	ENTS					<u> </u>			
	Items		Ve	ocational		*****	Non-	-vocat	ional			-		Total	1		
	•	, <u>f</u>	- , ,	F &	f D	£	₹_	f	7	f D	, 3	<u>ئے</u> ک		E N	<u> </u>	f	<u> </u>
the	ch of the following explains the effect Florida State Student Assessment Test notional Literacy Tests) has had on you		•				t		•								
Cod	er Agree,(A): No Opinion (N); Control (N)									, ,				• .	,		
11)	The Functional Literacy Test has not had any effect on me.	<i>-</i> 307	·56.9	97 18.0	136 25.	L 387	50.8	,95	15.0	152	24.2	693	59.1	192	16.4	288	24.
12)	The Punctional Literacy Test has caused a delay in my preparation for my career.	67	12.4	84 lš.5°	390 , 72.	l 81	12.8	92	14.5	461	72.8	148	12.6	176	15.0	, 851	72.
13)	Preparing me for the Functional Literacy Test has prevented me from learning many other things except the basic skills required to pass the test.		,14.5	85 15.7	378 69.	9 127	20.0	73	. 11.5	434	68.5	205	17.5	158	13.4	812	. 69.
.14)	The Functional Literacy Test has prevented merfrom learning the skills I will need to get a job when I am out of School.		, 11.3	69 12.9	405 75.	8 78	12.3	80	12.7	474	75.0	138	11.8	149	12.8	879	75.
,15) _.	The Functional Literacy Test has help ed me to become aware of the things I should learn in school.		71.0	83 🎉 💰	6 73 is.	: 5 410	65.6	. 98	15.7	117	18.8	792	68.11	.81	15.6	190	16.
16)	The requirement for passing the Functional Literacy Test has motivated me to learn the basic skills		59.1	169 20.1	112 _, 20.	7 346	54.6	137	21.6	.150	23.7	. 666	, 56.7°	.246	21.0	262 4 .	22

· 100

(Continued)

				•		,				STU	DENTS								
	items	·	v	ocatio	onal	·			Non-	-voca	ti <u>onal</u>			Total					 ,
		<u>_ A</u>		f N	, ,	f D	<u> </u>	· £		f N		f		£ A	3	<u>f</u>	<u>, , , , , , , , , , , , , , , , , , , </u>	f	 ,
17)	The Functional Literacy Test has kept me out of sports and/or social activities that I would have like to participate in.	37	6.9	72	13.4	429	79.7 .	33	5.6	61	9.7	536	84 8	72	6.2	. 133	. 11 4	965	82 4
18)							25.2					٠					•		c
19}	Preparing for the Functional Literacy Test did not allow me the time I needed to prepare for my vocational education courses.	48	8.9	104	19.3	386	71.8	411	26.4	160	37.3	63	36.3	111	9.5	264	22.5	797	68.0
20)	The Functional Literacy Test helped me succeed in my vocational education courses.	143	26.4	242	37.3	196	36.6	, 138	21.8	253	40.0	241	38.2	281	23.9	, 455°	38.8	437	37.3
21)	The Functional Literacy Test kept me from leaving school in the afternoons to work in a cooperative vocational education program.	42	7.8	103	19.0	396	73.2	26	4.1		24.1	456	71.8	68	. · 5.7.	256	21.8	852	72.4
22)	The requirements to pass the Functional Literacy						\$												
		46	8.5	70	12.9	425	, 78 . 5	48	,7.6	104	16.4	481	76.0	94	8.0	174	14.8	906	177.2

130

.90

Appendix F

(continued)

		•									ST	UDENTS	<u> </u>								-
,		Items			<u>'ocat</u>	ional			_	No.	n-voc	ationa	1		_		To	tal			
			<u> </u>	<u>'</u>	Ē	N	£	<u>, </u>	f	A	ī	N P	£	D_	. <u>-</u>	Δ.,	£	N	- £		
	23)	The requirements to pass the Functional Literacy Test prevented me from learning many things I wanted to learn in school about my future career.	55	10.2	73	13.5	412	76.3	86	13.6	83	13.1	466	72.2	141	12.0	156				
	24)	The Functional Literacy Test Showed me the areas of study in which I am weak.	410	82.0	46	8.6	51	9.5		79.8	49					80.8				74.7	. 4
111	c.	Your reaction to the following state- ments will give us an idea about how students feel about the Functional Literacy Test.								,,,,,	••	,,,	,,	12.4	,	80.8	95	8.1	130	11.1	
	25)	The Functional Literacy Test has improved the quality of education in our school.	278	51.4	118ر	21.9	143	26.7	317.	49.9	147	23.1	171	27.0	595	50.6	265	22.6	215	, .	
	26)	The requirements for the Functional Literacy Test keep a lot of students from getting the training they need.	108	20.1	132	. 24.5															
;	27)	The Functional Literacy Test is a waste of time.	122	22.7		16.5										17.8					
:	28)	Everyone should know how to do basic skills before they receive a diploma.	486	90.3		3.5	33			89.1		5.2				89.6					
2	9)	The Functional Literacy Test is a good test.	332	62.4	. , 115			•						3.0	2000	07.0	34	*••	69	5.8	

Appendix F

(continued)

										STU	JDENTS		_					- .		
	Items		\	/ocati	onal_			_	No	n-voca	tiona:	ı		_		То	tal	_		
٨	•	£	•	£	*	í		- [1	£	8	£	<u> </u>	£	<u>, , , , , , , , , , , , , , , , , , , </u>	£	<u>, , , , , , , , , , , , , , , , , , , </u>	í		
30)	Students should learn a skill or prepare to enter college rather than have to worry about passing a test.	193	. 35.7	148	27.4	199	36.9	225	35.5	154	, 24.3	254	40.1	418	35.6	302	26.7	453	34.9	
31)	Students should enroll in a vocational education course if they fail the Functional Literacy Test.	163	30.4	190	35.4	184	34.3	191	30.1	219	34.5	225	35.4	354	30.2	409	34.9	409	34.9	
32)	The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills.	.318	68.3	101	18.7	170	13.0	404	63.7	131	20.6	100	15.7	772	65.7	232	19.8	170	14.4	
D.	Please answer the following questions regarding the way your school has helped prepare for the Functional Literacy Test. My school has:																	:		>
•	Offered remedial assistance to all scudents who needed help.	459	84.9	50	9.2	32	5.9	537	84.6	53	8.3	45	, 7. 1	996	84.7	103	8.8	77	6.6	
-	Offered the necessary remedial assistance during regular scheduled academic classes.	391	72.3	87	16.1	63	11.6	465	73.2	98	15.4	72	11.3	856	72.8	185	15.7	135	11.5	a
35)	Offered students who failed the test special remedial classes outside regular class time.	273	50.8	156	29.0	109	20.2	300	37.3	185	29.2	149	23.5	573	48.9	341	29.1	258.	22.0	
36)	Offered remedial assistance as part of the vocational education courses.	199	36.3	230	42.7	113	21.0	241	38.1	304	48.0	88	13.9	439	37.3	534	45.6	201	17.1	
	D. 331)	30) Students should learn a skill or prepare to enter college rather than have to worry about passing a test. 31) Students should enroll in a vocational education course if they fail the Functional Literacy Test. 32) The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. D. Please answer the following questions regarding the way your school has helped prepare for the Functional Literacy Test. My school has: 33) Offered remedial assistance to all scudents who needed help. 34) Offered the necessary remedial assistance during regular scheduled academic classes. 35) Offered students who failed the test special remedial classes outside regular class time.	Students should learn a skill or prepare to enter college rather than have to worry about passing a test. 31) Students should enroll in a vocational education course if they fail the Functional Literacy Test. 32) The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. 318 32. Please answer the following questions regarding the way your school has helped prepare for the Functional Literacy Test. My school has: 33.) Offered remedial assistance to all scudents who needed help. 34.) Offered the necessary remedial assistance during regular scheduled academic classes. 35.) Offered students who failed the test special remedial classes outside regular class time. 273 36.) Offered remedial assistance as part of the	Students should learn a skill or prepare to enter college rather than have to worry about passing a test. 31) Students should enroll in a vocational education course if they fail the Functional Literacy Test. 32) The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. 318 68.3 32) D. Please answer the following questions regarding the way your school has helped prepare for the Functional Literacy Test. My school has: 33) Offered remedial assistance to all scudents who needed help. 34) Offered the necessary remedial assistance during regular scheduled academic classes. 35) Offered students who failed the test special remedial classes outside regular class time. 36) Offered remedial assistance as part of the	Students should learn a skill or prepare to enter college rather than have to worry about passing a test. 31) Students should enroll in a vocational education course if they fail the Functional Literacy Test. 32) The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. 33) Please answer the following questions regarding the way your school has helped prepare for the functional Literacy Test. My school has: 33) Offered remedial assistance to all scudents who needed help. 34) Offered the necessary remedial assistance during regular scheduled academic classes. 35) Offered students who failed the test special remedial classes outside regular class time. 273 50.8 156	Students should learn a skill or prepare to enter college rather than have to worry about passing a test. 31) Students should enroll in a vocational education course if they fail the Functional Literacy Test. 32) The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. 318 68.3 101 18.7 32) D. Please answer the following questions regarding the way your school has helped prepare for the functional Literacy Test. My school has: 33) Offered remedial assistance to all scudents who needed help. 34) Offered the necessary remedial assistance during regular scheduled academic classes. 35) Offered students who failed the test special remedial classes outside regular class time. 273 50.8 156 29.0	Students should learn a skill or prepare to enter college rather than have to worry about passing a test. 193 35.7 148 27.4 199 31) Students should enroll in a vocational education course if they fail the Functional Literacy Test. 32) The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. 318 68.3 101 18.7 170 329 D. Please answer the following questions regarding the way your school has helped prepare for the Functional Literacy Test. My school has: 330 Offered remedial assistance to all scudents who needed help. 341 Offered the necessary remedial assistance during regular scheduled academic classes. 352 Offered students who failed the test special remedial classes outside regular class time. 273 50.8 156 29.0 109 363 Offered remedial assistance as part of the	Students should learn a skill or prepare to enter college rather than have to worry about passing a test. 193 35.7 148 27.4 199 36.9 Students should enroll in a vocational education course if they fail the Functional Literacy Test. 163 30.4 190 35.4 184 34.3 The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. 318 68.3 101 18.7 170 13.0 D. Please answer the following questions regarding the way your school has helped prepare for the Functional Literacy Test. My school has: 330 Offered remedial assistance to all scudents who needed help. 459 84.9 50 9.2 32 5.9 341 Offered the necessary remedial assistance during regular scheduled academic classes. 351 Offered students who failed the test special remedial classes outside regular class time. 273 50.8 156 29.0 109 20.2	A N D D F t v t v t v t v t Students should learn a skill or prepare to enter college rather than have to worry about passing a test. Students should enroll in a vocational education course if they fail the Punctional Literacy Test. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Please answer the following questions regarding the way your school has helped prepare for the Functional Literacy Test. My school has: Offered remedial assistance to all scudents who needed help. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional Literacy Test is an accurate way to evaluate educational achievement in the basic skills. The Functional L	A R D A R D A R C	Items Vocational Non-vocational Non-vocational	A N D D A N F T T T T T T T T T T T T T T T T T T	Non-vocational Non-	Students should learn a skill or prepare to enter college rather than have to worry about passing a test. 193 35.7 148 27.4 199 36.9 225 35.5 154 24.3 254 40.1	Students should learn a skill or prepare to enter college rather than have to worry about passing a test. 193 35.7 148 27.4 199 36.9 225 35.5 154 24.3 254 40.1 418	Students should learn a skill or prepare to enter college rather than have to worry about passing a test. 193 35.7 148 27.4 199 36.9 225 35.5 154 24.3 254 40.1 418 35.6	Tems Vocational Non-vocational To Non-vocational To Non-vocational To Non-vocational To Non-vocational Non-vocational	Students should learn a skill or prepare to enter college rather than have to worry about passing a test. 193 35.7 148 27.4 199 36.9 225 35.5 154 24.3 254 40.1 418 35.6 302 26.7	Students should learn a skill or prepare to enter college rather than have to worry about passing a test. 193 35.7 148 27.4 199 36.9 225 35.5 154 24.3 254 40.1 418 35.6 302 26.7 453	Students should learn a skill or prepare to enter college rather than have to worty about passing a test. 193 35.7 148 27.4 199 36.9 225 35.5 154 24.3 254 40.1 418 35.6 302 26.7 453 34.9

<u>Appendix F</u>

(continued)

	•	•	-								ST	JDENTS								
		Items			ocat	ional				Nor	n-voca	ationa.	1		_		To	tal		
			£	***	f	<u>N</u>	, f	_ ,	ī	*	<u>f</u>	3	£	3	f	<u>*</u>	£	N 8	f	8
	37)	Offered after school classes for those who failed the Functional Literacy Test.	162	30.0	176	32.6	202	37.4	159	25.1	250	39.5	395	35.4	321	27.3	426	36.3。	426	36.3
	38)	Offered counseling about how to pass the Functional Literacy Test before students took the test.	332	61.7	130	24.2	76	14.1	374	58.9	150	23.6	485	17.5	706	60.2	280	23.9	187	16.0
	39)	Offered counseling for those students who failed the Functional Literacy Test.	361	66.8	117	21.7	62	11.5	436	68.7	127	20.0	72	11.3	797	67.8	244	20.8	134	11.4
ັ້ນ	40)	Provided information about the Functional Literacy Test to all students before they ever took the test.	403	74.5	73	13.5	65	12.0	415	65.6	110	17.4	108	17.1	818	69.7	183	15.6	 1.73	14.8
	E.	How do you rate your school on the school on the following? Code: Good (G); Average (A); Poor (P)	G f		£	A B	f		f	8	<u>.</u>	A	, P	<u>`</u>	. G		£	A 8	· · · · · · · · · · · · · · · · · · ·	· ·
	41)	Preparing students to take the Functional Literacy Test.	429	59.4	169	31.2	51	9.5	334	52.6	224	35.3	77	12.2	655	45.7	393	33.4	128	10.8
	42)	Counseling before the Functional Lit- eracy Test.	234	43.4	208	38.6	97	18.0	242	38.2	247	`39.0	144.	22.8	476	40.6	455	38.8	24)	20.5
	43)	Counseling after the Functional Literacy Test.	274	50.7	177	32.7	-90	16.7	318	50.1	216	34.1	100	15.7	59,2	50.4	393	33.4	189	16.2
	44)	Quality of counseling for students pre- paring for the Functional Literacy Test.	240	44.3	215	39.7	86	15.9	° 252	39.9	252	39.8	129	20.4	_492 [*]	41.9	467	39.8	215	18,3

										STU	DENTS								
	Items -e		v	ocat:	ional				Non	-voca	tional					_Tot	al		
		£	8	£	1.	<u> </u>	- "	ſ	•	£		£	1	G f	•	£		f	P .
, 45)	Quality of counseling for the Functional Literacy Test.	264	48.9	197	36.5	79	14.6	259	40.8	267	42.0	109	17.1	523	44.5	464	39.5	188	16.0
46)	Providing vocational education courses that are adequate for career preparation.	360	66.5	128	23.7	53	9.8	358	56.4	200	31.5	76	11.9	, 718	61.1	328	27.9	129	10.9
47)	Providing programs to help students pre- pare for a retake of the Functional Literacy Test.	570	63.9	144	21.7	51	9.4	384	60.8	186	29.4	62	9.8	728	62.2	330	28.2	113	9.6
48)	Quality of the program provided students who are preparing for a retake of the Functional Literacy Test.	281	50.1	198	38.0	53	9.8	330	52.3	227	36.0	73	11.6	611	52.3	432	36.9	126	10.8

	<u>Items</u>			tional			Non-vo	ationa 636)	<u> </u>		Tot	al "	_
		£	Yes	No E	•	Y £	es 1	£	No 1	Ý £	eà (No f	
F.	Vocational Education Encollment					_							_ , '
49)	Were you enrolled in a vocational education course which your were unable to continue because you needed to prepare for the Functional Literacy Test?	31	5.8	507	94.2	32	5.2	- 595	94.7	, 63	5.4	1103 94.6	
50).	Is there a vocational education course that you did not en- roll in because of your need to prepare for the Functional Literacy Test?	21	3.9	515	96.1	26	4.1	601	95.9	47	4.0	1116 96.0	145

STUDENTS

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Appendix F
(continued)

	•		_					STU	DENTS		,			
•		, Items ,	_		10nal -545)		_	N=	ational 636)	<u> </u>		Tot	al	
	·		- F	es_	No f		<u>Y</u>	es	No.	<u> </u>	Y	es .	f	No -
	G.	The following questions are about the Functional Literacy Test.	 =_											
•		The preparation I had for the Punctional Literacy Test has:				•								
`	(51)	Improved my performance in other classes.	272	50.3	269	49.7	293	46.1	342	53.9	`565	48.0	611	52.0
11	52 <u>)</u>	Improved my performance in vocational education courses.	194	35.9	346	64.1	161	25.4	472	74.6	355	30.3	818	69.7
5	53)	Made me think about basics.	416	76.9	125	23.1	460	72.7	193⊷	27.3	876	74.6	288	25.4
	54)	Turned me off about school.	65	12.1	474	87.9	60	9.4	575	90.6	125	10.6	1049	89.4
	55)	Helped me decide to go to an area vocational education center.	101	18.7	440	81.3	83.	13.1	551	86.9	184	15.7	991	84.3
	56)	Helped me decide to drop out of vocational education courses.	29	5.4	510	94.6	32	5.1	600	94.0	61	5.2	1110	94.8
	57) ·	Helped me decide to take vocational education courses instead of regular courses.	99	18.3	441	81.7	73	11.5	560	88.5	172	14.7	1001	85.3
	58)	Helped me make a clearer decision about vocational education courses 1 need in order to obtain my career goals.	229	42.3	312	57.7	235	37.1	399	62.9	464	39.5	711	60.5
	н.	The following questions are about you.												
	59)	Are you enrolled in vocational education courses?	415	76.7	126	23.3	184	29.1	399	62.9	599	51.1	574	49.9
	60)	Have you ever enrolled in vocational education courses?	468	75.6	132	24.4	319	50.5	313	49.5	727	62.0	445	38.0
•	61)	Were you successful in passing the llth grade Punctional Literacy Test?	458	84.7	83	15.3	522	82.7	109	17.3	980	, 83.6	192	16.4

Appendix F

(continued,

	•						_	STU	ENTS					_	•
		Items			tional =545)	_	_1	Non-voca		1		70t	<u>a)</u>	.	
			. <u> </u>	1	No f	-	Y	1	f	<u> </u>	. <u>Y</u>	<u>es .</u>	<u>£</u>	No.	
	If you	ou were unsuccessful in your attempt to pass the Functional racy Test, please answer the following questions. (N=196)	-		,				-6	ور			,		-
	62)	Were you able to stay in the course you planned to take even though you were unsuccessful in the 11th grade Functional Literacy Test?	61	70.9	25	29.1	29	73.6	81	[,] 26,4	142	72.4	54	27.6	
	.63)	Did you drop out of vocational education courses in order to prepare for a retake of the Functional Literacy Test?	14	16.5	71	83.5	23	21.1	86	78.9	37	19.1	157	80.9	
•		If you were enrolled in vocational education courses before you took the Functional Literacy Test, do you plan to enroll in any future vocational education courses?	45	54.2	38	45.8	42	38.9	- 66	61.1	87	45.5	104	5 4. 5	
	65)	Have you ever enrolled in a course to he'p pass the Functional Literacy Test?	43	50.6	42	49.4	51 .	46.8	58	53,2	94	48.5	100	51.5,	

Appendix G

The Frequency and Percentage of Responses by

Vocational and Non-Vocational Education Students

on Items Concerning the FSSAT in the

Student Questionnaire by Sex

Appendix G

Percentage of Responses of Secondary Revel vocational and Non-Vocational Education Students to Questions Concerning the FSSAT by Sex

	*				STUI	ENT3_			
	* •		Vocat	ional			Non-Vo	cational	L
	Item	Ma	le	Fem	ale	Ma	le	Fer	sale
		Yes	No	Yes	No	'Yes	No	Yes	No_
	ich of the following did you do to prepare for the Florida State Stage At sessment Test (Functional Literacy Test)?					•	<i>[</i>	•	•
1)	Enrolled in a special (remedial) course in order to get help in preparing for the Functional Literacy Test.	20.3	79.7	22.4	77.6	16.9	83.1	25.8	74.2
2)	Enrolled in vocational education courses because they offered help in the basic skills required for graduation.	19.9	80.1	23.9	76.1	.16.0	84.0	16.3	83.7
3)	Dropped the vocational educational courses in which I was envolved in order to take a special (remedial) course.	2.4	97.6	4.4	95.6	5.5	94.5	5.2	94.8
4)	Dropped an elective course other than a vocational education course in which I was enrolled in order to take a special (remedial) coA_{ij} .	11.8	88.2	7.7	92.3	7.5	92.5	11.7	88.3
5)	Received remedial assistance in a general education course.	37.6	62.4	41.3	58.7	34.8	′65 . 2 `	41.7	58.3
6)	Decided to take a course other than a vocational education course j^{n} order to get ready for the Functional Literacy Test.	18.9	81-1	18.8	81.2	15.4	84.46	22.5	77.5
7)	Received remedial assistance in a general education course.	41.0	59.0	39.7	60.3	36.0	64.0	40.4	59.6
8)	I needed remedial assistance.	22.3	77.7	31.1	68.8	19.9	80.1	34.3	65.7
9)	Needed remedial assistance and did not receive it.	7.3	92.7	4.8	95.2	5.9	94.1	6.5	93.5
10)	Studied and reviewed the material on my own.	51.4	48.6	49.5	50.5	44.8	55.2	44.6	55.4

Appendix G

(continued)

	•				•		STUDE	NTS					
	Item			Vocat	ional					Non-Vo	cationa	1	<u>.</u>
			Male			Female			Male-			Female	
		A	N.	D	A	N	D	A	N	D	Α	N	D
Sta	ch of the following explains the effect the Florida te Student Assessment Tcst (Functional Literacy t) has had on you?			•				3		•			
Cod	e: Agree (A); No Opinion (N); Disagree (D)	ant.											
11)	The Functional Literacy Test has not had any effect on me.	57.8	17.1	25.2	56.3	17.8	25.8	66.5	13.7	19.9	55.7	16.3	27.6
12)	The Functional Literacy Test has caused a delay in my preparation for my career.	15.0	15.0	70.0	10.5	15.6	73.9	14.7	17.3	68.0	11.0	12.0	77.0
13)	Preparing for the Functional Literacy Test has prevented me from learning many other things except the basic skills required to pass the test.	18.7	17.9	63.4		14.1	75.4	21.6	13.4	65.0	18.7	÷.8	71.5
14)	The Functional Literacy Test has prevented me from learning the skills I will need to get a job when I am out of school.	13.2	17.7	69.2	9.2	8.8	82.0	15.0	13.7	71.3	9.9	11.7	78.4
15)	The Functional Literacy Test has helped me to become aware of the things I should learn in school.	67.2	18.9	13.9	58.5	17.9	23.6	58.5	17.9	23.6	72.1	13.6	14.3
16)	The requfrement for passing the Functional Literacy Test has motivated me to learn the basic skills.	53.6	22.8	23.6	64.5	17.8	17.7	45.8	23.2	31.0	62.8	20.3	26.9

							STUD	ENTS					
	Item			Vocat	onal					Non-Vo	cationa	1,	•
	r		Male			Pemale			Male			Female	
		A	N	D	À	N	D	A	N	D	À	N	Ď
17)	The Functional Literacy Test has kept me out of sports and/or social activities that I would liked to have participated in.	11.1	14.8	74:1	3.3	10.9	85.9	7.6	10.8	81.6	3.7	8.6	87.9
18)	The Functional Literacy Test has helped me to become more aware of the skills I need to learn in order to succeed in vocational education courses.	46.9	24.1	29.0	54.4	22.8	22.8	36.5	26.1.	37.5	48.9	26.5	24.6
19)	Preparing for the Functional Literacy Test did not allow me the time I needed to prepare for my vocational education courses.	11.9	20.2	67.9	6.9	18.1	75.0	9.4	27.4	43.2	10.5	23.4	66.2
20)	The Functional Literacy Test helped me succeed in my vocational education courses.	26.0	34.1	39.9	27.5	39.1	33.3	18.8	41.0	40.2	24.2	39.3	36.5
21)	The Functional Literacy Test kept me from leaving school in the afternoons to work on a cooperative vocational education program.	8.5	20.7	70.7	6.9	18.1	75.0	4.3	26.4	69.4	4.0	22.1	74.0
22)	The requirements to pass the Functional Literacy Test will keep me from completing my vocational education courses in high school.	9.8	16.7	73.5	7.2	9.8	83.0	8.2	16.7	75.1	7.1	16.3	76.6
23)	The requirements to pass the Functional Literacy Test prevented me from learning many things I wanted to learn in school about my future career.	12.2	17.5	70.3	8.3	8.7	82.9	14.7	,14.1	71.3	12.2	12.3	75.4

(continued)

								_	STUDE	ENTS					
-			Item			Vocat	iona l					Non-Vo	cationa	1	
					Male		1	emale_			Male			<u>Female</u>	
				A	N	D	A	N	D	A	N	D	A	N	D
		24)	The Functional Literacy Test showed me the areas of study in which I am weak.	80.0	9.4	10.6	85.4	6.6	8.0	76.2	6.9	17.0	83.2	8.6	8.2
121	c.	us a	reaction to the following statements will give a idea about how students feel about the tional Literacy Test.								•				
		25)	The Functional Literacy Test has improved the quality of education in our school.	57.0	17.9	25.2	49.1	25.8	25.1	45.9	26.4	27.7	53.4	20.2	26.4
		26)	The requirements for the Functional Literacy Test keep a lot of students from getting the training they need.	21.2	30.6	48.1	18.3	19.0	62.8	15.3	26.5	58.1	16.3	26.7	57.0
		27)	The Functional Literacy Test is a waste of time.	20.0	16.7	6313	22.2	16.7	61.0	23.5	15.7	60.8	17.5	21.8	60.6
		28)	Everyone should know how to do basic skills before they receive a diploma.	88.9	4.1	6.9	\$1.2	2.9	5.9	89.9	4-6	5.5	88.3	5.8	5.9
		29)	The Functional Literacy Test is a good test.	64.4	17.4	18.3	62.7	25.3	12.1	- 56.2	26.8	17.0	57.1	30.€	12.3
	•	30)	Students should learn a skill or prepare to enter college rather than have to worry about passing a test.	35.0	28.9	36.1	35.2	26.9	37.8	36.4	25.2	38.3	35.0	23.6	41.4

Appendix G
(continued)

	•	•						STUD	ENTS						
		Item	_		Vocat	ional					Non-Vo	cation	al.		
	,		_	Male			Female			Male			Female		
			A	N	D	A	N	D	A		D	A	N	D	
•	31)	Students should enroll in a vocational education course if they fail the Functional Literacy Test	28.7	32.8	38.5	65.0	36.9	31.4	28.6	35.8	35.5	31.6	33.4	35.0	
	32)	The Functional Literacy Test is an accurate way evaluate educational achievement in the basic skills.	to 70.3	17.1	12.6	68.0	20.4	11.6	61.3	23.1	15.6	65.7		. 15.9	
122	way	se answer the following questions regarding the you school has helped prepare for the Functional cracy Test.									•		ı		
	My s	chool has:											•		
	33)	Offered remedial assistance to all students who needed help.	83.7	8.1	7.5	86.2	9.1	4.7	84.3	8.1	7.5	85.0	8.6	6.4	
	34)	Offered the necessary remedial assistance during regular scheduled academic classes.	70.3	17.5	12.2	75.4	14.1	10.5	72.0	16.3	11.7	74.6	14.7	10.8	*
	35)	Offered students who failed the test special remedial classes outside regular class time.	53.1	29.8	17.2	48.9	28.8	22.3	47.1	31.0	21.9	47.6	27.6	24.9	ĺ
	36)	Offered remedial assistance as part of the vocational education courses.	34.9	40.2	24.8	36.5	45.6	17.9	34.1	51.8	14.1	41.7	44.8	13.5	
, سب	37)	Offered after school classes for those who failed the Functional Literacy Test.	,	31.7	34.1	26.9	32.4	40.8	26.1						1

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Appendix G (continued)

1	•	,						STUDI	ENTS	_				
		Item			Vocat	ional			;		Non-Vo	cationa	1	
		•		Male			Female			Male			Female	
			_ A	N	D	A	N	D	A	N	D	A	. N	
•	38)	Offered counseling about how to pass the Functional Literact Test before students took the test.	62.8	24.1	13.1	60.5	24.5	15.0	59.3	23.8	17.0	58.6	23.6	17.8
		A	02.0		13.1	00.5	24.5	13.0	37.3	23.0	17.0	30.0	23.0	17.0
	39)	Offered counseling for those students who failed the Functional Literacy Test.	71.8	17.6	10.6	63.1	24.3	12.6	68.4	21, 2	10.4	69.0	19.0	12.0
7	40)	Provided information about the Functional Literac Test to all students before they ever took the test.	76.1	11.8	, 12.2	74.7	14.1	11.2	68.2		13.4	62.9	16.6	20.5
E.	How	do you rate you school on the following.				1	_							
	Code	e: Good (G); Average (A); Poor (P)	G	Α	P	G	A	P	G	<u> </u>	P	G	A	P
	41)	Preparing students to take the Functional Literacy Test.	64.7	28.0	7.3	58.0	32.6	9.4	53.1	34.5	12.4	51.8	36.2	12.0
	42)	Counseling before the Functional Literacy Test.	46.4	37.3	16.4	, 43.1	39.5	17.4	37.4	41.3	21.3	38.7	37.1	24.2
	43)	Counseling after the Functional Literacy Test.	53.2	31.3	15.5	50.3	33.7	16.0	50.0	34.0	16.0	50.0	34.4	15.6
	44)	Quality of counseling for students preparing to the Functional Literacy Test.	45.9	38.6	15.5	45.3	39.5	15.2	42.4	37.5	19.2	36.1	42.3	21.6
	45)	Quality of counseling for the Functional Literacy Test.	54.1	32.5	13.4	46.5	39.3	14.3	43.7	41.0	16.3	37.7	44.2	18.1

Appendix 3 (continued)

•							STUDI	ENTS					
	, Item			Vucat	ional		`	<u> </u>		Non-Vo	cationa	1	
			Male			Female			Male			Female	
			<u>A</u>	₽	G	A	P	G	A	P	G	λ	P
46	Providing vocational education courses that are adequate for career preparation.	68.7	28.0	7.3	58.G	32.6	9.4	53.1	34.5	12.4	51.8	36.2.	12.0
47) Providing programs to help students prepare for · retake of the Functional Literacy Test.	65.7	24.1	10.2	63.6	27.6	8.7	61\2	28.6	10.2	60.4	30.4	9.2
48	Quality of the program provided students who are preparing for a retake of the Functional Literacy Test.	57.2	32.7	10.2	49.4	40.7	9.8	50.8	36.3	12.9	53.7	35.9	10.4
E. Vo	Cational Education Enrollment.												
		Y	Male es 1	-	Yes	Female No		Y	Male s No	_	Yes	Female No	_
-) Were you enrolled in a vocational education cour which you were unable to continue because you needed to prepare for the Functional Literacy Test?	``.	.9 93.	. 1	5.5	94.5		6.	. 3 93	.7	3	95.:	 7

4.9 95.1

2.6

97.4

163

50) Is there a vocational education course that you did not enroll in because of your need to prepare for the Functional Literacy Test?

164

3.7

95.4

96.3

						STU	DENTS			
		Item	******		at _l onal_			Non-	Vocational	
			Yes	NO No	Yes Yes	male No	Yes	No No		emale No
G.	The Lite	following questions are about the functional eracy Test.								
	The	preparation I had for the Functional LIteracy								
	51)	Improved my performance in other classes.	52.0	48.0	51.8	48.2	43.0	57.0	48.8	51.2
	52)	Improved my performance in vocational education courses.	35.5	64.5	38.0	62.0	23.9	76.1	27.1	72.9
	53)	Made me think more about basics.	74.0	26.0	79.7	20.3	65.4	34.6	79.7	20.3
	54)	Turned me off about school.	15.9	84.1	8.4	91.6	9.1	90.9	9.8	90.2
	55)	Helped me decide to go to an area vocationar education center.	19.5	80.5	18.5	81.5	13.4	86.6	12.9	87.1
	56)	Helped me decide to drop out of vocational education courses.	8.2	91.8	2.5	97.5	5.9	94.1	4.0	96.0
	57)	Helped me decide to take vocational education courses instead of regular courses.	19.5	80.5	17.5	82.5	10.1	89.9	12.7	87.3
	58)	Helped me make a clearer decision about vocational education courses I need in order to obtain my career goals.	39.8	60.2	44.9	55.1	33.6	66.4	40.3	59.7

Appendix G

(continued)

		_				STU	DENTS			,	
		Item			tional			Non-	Vocational		
				NO NO	Yes Yes	NO NO	Yes	ale No		emale No	
H	. The	following questions are about you									
	59)	Are you now enrolled in vocational education courses?	81.7	18.3	72.5	27.5	29.6	70.4	28.8	71.2	
	` 60)	Have you ever enrolled in vocational education courses?	78.0	22.0	73.5	26.5	53.0	47.0	48.5	51.5	
	61)	were you successful in passing the 11th grade Functional Literacy Test?	85.0	15.0	83.7	16.3	86.8	13.2	79.1	20.9	
F-1	f you v inction restion	were unsuccessful in your attempt to pass the mal Literacy Test, please answer the following as.									
	62)	Were you able to stay in the courses you planned to take even though you were unsuccessful on the 11th grade Functional Literacy Test?	69.2	30.8	73.9	26.1	74.4	25.6	74.2	. 25.8	
	63)	Did you drop out of vocational education courses in order to prepare for a retake of the Functional Literacy Test?	13.2	86.8	17.4	82.6	23.3	76.7	,	•	
	64)	If you were enrolled in vocational education courses before you took the Functional Literacy Test, do you		3000	27.7	02.0	23.3		20.0	80.0	J
		plan to enroll in any future vocational education courses?	59.5	40.5	51.1	48.9	39.5	60.5	39.1	60.9	4
	65)	Have you ever enrolled in a course to help pass the Functional Literacy Test?	44.7	55.3	56.5	43.5					1

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Appendix H

Vocational Education Enrollments for the Total County
and for Sample Schools Within These Counties by
Program, by Race, by Sex

Tabla 35

Vocational Education Enrollment in Bakar County Compared to tha

Vocational Education Enrollment in Bakar High School

by Program, by Race, by Sax, and by Year

Year					,				ducatio	n Ento	Timent		_	•		
	AG "	BU	CH	HG	DC ,	DE	ES	HL	1	Α	IN	JE	PS	SP	WE	Tota
75-76	163	152	162	84	24	_					110			8	•	70
76-77	174	175	171	92	2 29		1				105			•		74
77-78	165	195	213	65	34	ċ	5				105		ď			78
78_79	155	155	222	62	42	,		•			83					<i>'</i> ≈ 71
79-80						2	,				_	_	_			
		, Sax	•		_			<u>R</u>	ace '			_				
	Male		Femi	ale	Total		w	В	н	A	1					·
75-76	367			336	703		570	132	0	0	1	•				
- 76 -7 7	378		;	369	747		586	161	0	0	0			,		
77-78	388		:	394	782		639	140	2	1	0				•	•
78-79	374		;	345	719	•	550	168		1						
					•										•	
79-80	<u> </u>		• •				_	.						<u>-</u>		
79-80 	<u>.</u>		·		Total Ba	ker High	School	Vocationa	l Educa	tion E	nrollmen	t				
	AG	BU	CH CH	нс		ker High	School 1	Vocationa HL		tion E	nrollmen	t `J&	PS,	" SP	, uz ·	Tota
', ser		BU 152	СН СН	HG 1	Total Ba		ES				.				, ue ·	
'. sar 75-76	AG		-`		Total Ba		ES	HL			IN			SP	WE -	62
7. zez 75-76 76-77	AG 163	152	182	1	Total Ba		ES	HL			IN 110			SP	NE ·	62 74
`, #BT 75-76 76-77	AG 163 174	152 175	182 171	1 92 65 62	Total Ba		ES 1	HL			IN 110 105 105		PS,	SP	NE ·	62 74 78
75-76 76-77 77-78	AG 163 174 165	152 175 195	182 171 213	1 92 65	Total Bai		ES 1	HL			110 105 105			SP	WE ·	62 74 78 71
79-80 75-76 76-77 77-78 78-79 79-80	AG 163 174 165	152 175 195	182 171 213	1 92 65 62	Total Bai		ES 1	HL			110 105 105		PS,	SP	ME ·	Tota 62: 74: 78: 71:
75-76 76-77 77-78	AG 163 174 165	152 175 195 155	182 171 213	1 92 65 62	Total Bai		ES 1	HL	' 1		110 105 105		PS,	SP	WE .	62 74 78 71
7.5-76 76-77 77-78 78-79	AG 163 174 165 155	152 175 195 155	152 171 213 222	1 92 65 62	Total Ba		ES 1 5	HL.	ace		110 105 105 83		PS,	SP	WE	62 74 78 71
; set	AG 163 174 165 155	152 175 195 155	152 171 213 222 Fense	1 92 65 62 °	Total Bai		ES 1 5	HL	H I		110 105 105 83		PS,	SP	ME ·	62 74 78 71
7.5=76 76=77 77=78 78=79 79=80	AG 163 174 165 155	152 175 195 155	162 171 213 222 Fense	1 92 65 62 °	Total Bai 0C 24 29 34 42 Total	DE	ES 1 5 5 5 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6	HL B	n I		110 105 105 83	`JŁ	PS,	SP	WE	62 74 78 71
75-76 76-77 77-78 78-79	AG 163 174 165 155	152 175 195 155	152 171 213 222 Fensa	1 92 65 62 **	Total Bai CC 24 29 34 42 Total 620 747		ES 1 5 5 5 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6	HL R B 1112	noce H	A	IN 110 105 105 83	`JŁ	PS,	SP	WE ·	62 74 78 71

Code: White (W)
Black (B)
Hispanic (H)
Asian (A)
Amarican Indian (I)



Table 36

Vocational Education Enrollment in Bay County Compared to the

Vocational Education Enrollment in A. Crawford Mosley High School

by Program, by Race, by Sex, and by Year

Year				· _	10021			10	Educat	on En	.011						
	AG	BU	СН	HG	DC .	DE	ES	н	L	IA	_	IN	JE	PS	SP	WE-	Tota
7576	71	91;	899	623	33	153			84	937			54	17	~ `	13	380
76-77	188	1016	917	652	44	181	•	1	07,	877		•	73	16			407
77-78	214	951	1932	658	51	137	4		89	936			102			14	418
78-79	232	1304	7.	628	56	7,6	7		37	800			74	8		18	399
, 79-80 				,							_		<u> </u>	<u> </u>			
		Sex							Race								
	Male		Fema	le	Total		ี พ	В	н		λ	1			_		
75-76	1661		21	40	3?01		3074	705	2		17	3					
16-77	1742		23	29	4071		3356	685	4		26	0					
7-78	1926	. '	22	62	4188		3389	757	8		28	6					
8-79	1832		21	65°	3997		3255	693	7	•	41	1		£			
				,			*										
79-80									<u> </u>					•			
					A. Crawic	ord Mos1	·	school .	Vocati	onal E	duca	ition En	rollment	<u> </u>			
?9 - 80	AG	BU	CH			ord Mosl	·		Vocati		Educa	ition En	rollment JE	PS	°SP	WE	Tota
79-80 Year				Total HG	A. Crawic	DE	ey High	_ 								·	
79-80 Year 75-76	AG	298	CH 325	Total HG	A. Crawic		ey High	_ 	IL è	IA			JE			·	135
79-80 Year 75-76 76-77	AG	298 522	325	Total HG 214 186	A. Crawico	DE 67	ey High :	_ 	IL è	1A 363			JE			·	13:
Year 75-76 76-77	AG	298	325	Total HG	DC 23 25	DE 67 63	ey High :	_ 	1L 2 47	1A 363 349			JE 14 24			·	135 125 98
79-80	AG	298 522 208	325	Total HG 214 186 42	DC 23 25 7 27	DE 67 63	ey High:	_ 	1L 2 47 57	363 349 262			JE 14 24 60			·	Tota 135 123 98
79-80 Year 75-76 76-77 77-78	AG	298 522 208	325 311 226	Total HG 214 186 42	DC 23 25 7 27	DE 67 63	ey High :	_ 	1L 2 47 57	363 349 262			JE 14 24 60			·	13: 12:
Year 75-76 76-77	AG	298 522 208 221	325 311 226	Total HG 214 186 42 14	DC 23 25 7 27	DE 67 63	ey High :	i i	47 57 36	363 349 262 298			JE 14 24 60			·	13: 12:
Year 75-76 75-77	AG	298 522 208 221	325 311 226 Fema	Total HG 214 186 42 14	23 25 7 27 31	DE 67 63 21	ey High:	B	1L 3 47 57 36 Race	363 349 262 298			JE 14 24 60			·	13: 12: 9(
Year 	AG	298 522 208 221	325 311 226 Fema	Total HG 214 186 42 14	DC 23 25 7 27 31	DE 67 63 21	ey High : ES 61 3 W 1157 1108	B 190	1L 3 47 57 36 Race	363 349 262 298	λ		JE 14 24 60			·	13 12
Year 25-76 26-77 27-78 28-79	AG , , Male , , , , , , , , , , , , , , , , , , ,	298 522 208 221	325 311 226 Fema 7 6	Total HG 214 186 42 14	23 25 7 27 31 Total	DE 67 63 21	ES 61 W 1157	B	47 57 36 Race	362 349 262 298	A 1	IN .	JE 14 24 60			·	13 12

Code: White (W)
Black (B)
Hispanic (H)
Asian (A)
American Indian (I)

Table 37

Vocational Education Enrollment in Brevard County Compared to the

Vocational Education Enrollment In Herritt Island High School

by Program, by Race, by Sex, and by Year

Year					Total E	revard	County	Vocatio	nal Edu	cation E	r nrollment			÷		•
•	`AG	BU	CH	HG	DC	DE		rs '	HL	IA	IN	JE ,	₽s	SP	WE	Total
75 ~ 76	80	998	883	276,2	252	600			124	1192	2596	961	75	10	165	11058
76-77	101	1594	1170	2494	327	672		43	167	1159	2757	789	36	5	.1	11317
77-78	85	1964	941	2570	270	727		. 34	147	1354	2248	738		1	50	11129
78-79	64.	3812	796	2348	225	684		11	160	1279	1786	718			23	12142
79-80		-							G							
			·					<u> </u>			•		-			
		Ser	<u>ĸ</u> .					•	Race					_		
	Male		Pena	ale	Total		W	В	H	A	1					
75-76	5729		5:	329	11058		9538	1 471	3	26	18		•			
76-77	5586		57	731	11317		9681	1491	[*] 54	33	58					
77-78	5464	•	56	65	11129	٠	9563	- 1434	93	31	. 8					
78-79	5725		64	117	12142		10513	1438	96	87	8					
79-80					•	,									•	
							*									
Year				Tota	l Merritt	Island			oc#tiona	l Educat	ion Enrol	Lment				
Year	Ve	BU	сн	Tota	1 Merritt	Island DE	High s	ichool Vo	oce tiona	l Educat	ion Enrol	lment JE	PS		WE	Total
Year 75-76	ΛG	BU 32	СН				High s	ichool Vo	HL		_		PS	·		Total
	λG		•	HG		DE	High s	ichool Vo	HL		IN	JE		·	WE	-
75-76	γc	32	39	HG 341		DE 233	High s	ichool Vo	HL		IN 203	JE 182	•	·		1030
75-76 76-77	ΛG	32	39 86	HG 341 242		DE 233 269	. E	s	HL		IN 203 189	JE 182 11₹		·		1030
75-76 76-77 77-78	ΛG	32 182 277	39 86 64	HG 341 242 215		233 269 259	. E	ichool Vo	HL		IN 203 189 148	JE 182 11∜ 123	•	·	•	1030 1052 1066
75-76 76-77 77-78 78-79	λG	32 182 277	39 86 64	HG 341 242 215		233 269 259	. E	s	HL		IN 203 189 148	JE 182 11∜ 123	,	·	•	1030 1082 1086 941
75-76 76-77 77-78 78-79	ΑG	32 182 277	39 86 64	HG 341 242 215	DC .	233 269 259	. E	s	HL		IN 203 189 148 149	JE 182 11∜ 123	,	·	•	1030 1082 1086 941
75-76 76-77 77-78 78-79		32 182 277 199	39 86 64	HG 341 242 215 197	DC .	233 269 259	. E	s	HL		IN 203 189 148 149	JE 182 11∜ 123	,	·	•	1030 1082 1086 941
75-76 76-77 77-78 78-79		32 182 277 199	39 86 64 56	HG 341 242 215 197	DC .	233 269 259	E High S	s	HL Race	IA	IN 203 189 148 149	JE 182 11∜ 123	,	·		1030 1082 1086 941
75-76 76-77 77-78 78-79 79-80	Male	32 182 277 199	39 86 64 56	HG 341 242 215 197	Total	233 269 259	High s	s B	Race H	IA A	IN 203 189 148 149	JE 182 11∜ 123	,	·	•	1030 1082 1086 941
75-76 76-77 77-78 78-79 79-80	Hale	32 182 277 199	39 86 64 56 Femal	HG 341 242 215 197	Total	DE 233 269 259 193	High s	s B	Race H	IA A 2	IN 203 189 148 149	JE 182 11∜ 123	,	·		1030 1082 1086 941
75-76 76-77 77-78 78-79 79-80	Male 472 430	32 182 277 199	39 86 64 56 Pemal	HG 341 242 215 197	Total 1030 1082	DE 233 269 259 193	Η High ε	B 76 89	Race H	A 2 0	IN 203 189 148 149	JE 182 11∜ 123	,	·		1030 1082 1086 941

Code: White (W)
Black (B)
Hispanic (H)
Asian (A)
American Indian (I)



Table 38

Vocational Education Enrollment in Broward County Compared to the

Vocational Education Enrollments in McArthur and Dillard High Schools
by Program, by Race, by Sex, and by Year

	AG	BU [*]	Сн	HG	, DC	DE	Z S	HL		IA	IN	JE ,	PS	SP	WE	Total
					: 582	1188		26	- <i>P</i>	6273	1084	207	36	25	828	22148
-76	867	2809	4938	3041		1178	97	25		5354	1091	189	25	122	372	19722
5-77	1032	3359	3796	2346	508		46	29		4820	969	178	25	159	740	2224
-78	719	7366	3603	1658	. 549	1119	74	26		5059	638	107	24	1345	847	2274
-79	. 155	5532	2197	1608	272	690	,,	20	•	,,,,						•
-80			<u> </u>		- · ·											
,								•					_	-		
, ,		Sex							Race H	λ	1					
	Male		Pens	le	Total		<u> </u>	B 								
5-76	11489		106	559	22148		15998	5814	147	67	22				o	-146
5-77	9877		98	145	19722		14208	5085	364	51	. 14					- ;*
7-78	10483		113	149	22242		16331	5405	436	62						
											18					
	11147	•	116	00	22747		16749	5376	510	94	10					
3-79				500	22747		16749	5376	510							
0-79	11147					rthur Hi				-	on Enrollm	ent				
9-80	11147	BU	СН			rthur Hi			ional-I	-		ent JE	PS	SP	WE	Tota
9-80 	11147				Total McAi	935	gh School	Vocati	ional-I	Education	on Enrollm		PS	SP	58	145
9-80 		BU	СН	нд	Total McAn	DE SO	gh School	Vocati	ional-I	Education	on Enrollm	JE	PS	SP		145
9-80 Year 5-75	AG	BU 273	CH 296	н G	Total McAi	0E 76	gh School BS	, Vocati	ional I	IA 334	on Enrollm IN 75	JE 5		SP	58	145
2-79 9-80 Year 5-75 6-77 7-78	AG 64 75	BU 273 253	CH 296 304	нд 189 118	DC 46 41 43 - 52	76 70 87-	gh School BS	HI	ional 1	IA 334 262	IN 75 51	JE 5	PS	SP	58	145 123 154
3-79 9-80 Year 5-75 6-77 7-78	AG 64 75 46	BU 273 253 511	CH 296 304 305	HG 189 118 69	DC 46 41 43 - 52	08 76 70 87	gh School 8S 5	HI	34 28	IA 334 262 321	IN 75 51 57	JE 5 4 2		SP	58 - 27 64	145 123 154
9-80 Year 5-75 6-77 7-78	AG 64 75 46	BU 273 253 511 427	CH 296 304 305	HG 189 118 69	DC 46 41 43 - 52	76 70 87-	gh School 8S 5	HI	ional-1	IA 334 262 321	75 51 57	JE 5 4 2		SP	58 - 27 64	Tota 145 123 154 151
9-80 Year 5-75 6-77 7-78	AG 64 75 46	BU 273 253 511 427	CH 296 304 305 264	HG 189 118 69	DC 46 41 43 - 52	76 70 87-	gh School 8S 5	HI	28 x x x x x x x x x x x x x x x x x x x	334 262 321 417	75 51 57 4	JE 5 4 2		SP	58 - 27 64	145 123 154
9-80 Year 5-75 6-77 7-78	AG 64 75 46	BU 273 253 511 427	CH 296 304 305 264	HG 189 118 69 115	DC 46 41 43 - 52	76 70 87-	gh School 8S 5	HI	34 28 32 222	IA 334 262 321	75 51 57 4	JE 5 4 2		SP	58 - 27 64	145 123 154
3-79 3-80 Year 5-75 6-77 7-78 8-79 3-80	AG 64 75 46 38	BU 273 253 511 427	CH 296 304 305 264	HG 189 118 69 115	Total McAir DC 46 41 43 - 52	76 70 87-	gh School 8S 5 3 14	HI B B	Name	IA 334 262 321 417	75 51 57 4	JE 5 4 2		SP	58 - 27 64	145 123 154
5-75 6-77 7-78 8-79	AG 64 75 46 38 Hale	BU 273 253 511 427	CH 296 304 305 264	HG 189 118 69 115	Total McAi DC 46 41 43 - 52	76 70 87-	gh School 85 5 3 14	B 239	29 35	IA 334 262 321 417	75 51 57 4	JE 5 4 2		SP	58 - 27 64	145 123 154
9-80	AG 64 75 46 38 Hale	BU 273 253 511 427	CH 296 304 305 264	HG 189 11e 69 115	Total McAi DC 46 41 43 - 52 Total	76 70 87-	gh School 88 5 3 14 W 1182 1014 1308	HI B B	28 32 22 4 47	IA 334 262 321 417	IN 75 51 57 4	JE 5 4 2			58 - 27 64	145 123 154

Code: White (W)
Black (B)
Hispanic (H)
Asian (A)
American Indian (I)



Table 38

	,		_		,											
	1 AG	BU	CH	HG ·	DĆ	30 :	ES		HL	IA	IN	JE	PS .	SP	WE	Tota
75-76		_230	56	315	45	72			33	137	140	9			51	108
76-77		111	118	238	30	73	3		29	222	134	5		47	17	1027
77-78		215	152	140	21	65	1		34	305	197	9		99	46	1284
78-79		183	100	226	23	77	4		20	255	116	10	11		63	1088
79-80	5				٠.,											
4 4		_		_												
i	Þ	Sex					2		Race							
'	, Mále		Pema	le	Total		W	B	H	λ	1					
75-76	524		5	64	1088	•	471	608	8	. 1	0		_			
76-77 🥆	487	٠	5	40	1027		337	669	. 15	4	1					
7-78	, 650		6	34	1264		387	· '874	21	. 2	0			•	•	
78-79	467			21	1088		255	712	15	5	1					

Table 39

Vocational Education Enrollment in Clay County Compared to the

Vocational Education Enrollment in Clay County High School

by Program, by Race, by Sex, and by Year

Year					Total	Clay Co	unty Voca	tional:	Educat	ion Enr	ollment				- ,	
	AG	BU	СН	нс	bC	DE	ES	HL •	_	IA	IN	JįZ	PS.	SP	· WE /	Total
5-76	•	623	494	305	22	29		ູ 13	8	248	439			54 •	/38	2388
6-77	64	848	529	101	23	40	8	10	0.	89	458		-	39	42	2341
7-78	62	1031	560	92	34	66	2	10	9	84	460			47	54	2591
8-79	61	1264	572	48	30	67	2	. 6	0	59	467			71	62	2763
9-80														_		
		Sex							Race							
	Male		Fema	le	Total		w	В	H	٨	I		<u>/</u>			
5-76	1098		12	90	2388		2136	236	6	4	6					
5-77	1066		12	75	2341		2048	280	9	4	9					
7-78	1187		14	04	2591		2396	195	4	2	o					
					2763		2599	154	4	1	2					
	1171		15	92												
8-79	1171		15													_
3-79	1171	BU	Cil		otal Clay (County H	ligh Scho	ol Vocat		Educati	on Enroll	mant JE	PS	SP	WE	Tota
3-79 9-60 Year		BU	Cil	T o	otal Clay (ar					PS		WE 14	
3-79 9-60 Year	AG	BU 145		HG 62	otal Clay (DE			•		IN		PS			Tota
9-80 Year 5-76		BU	Cil	T o	otal Clay (DE	ES	91		IA	IN 72		PS	SP	14	Tota 65
9-80 Year 5-76 6-77	AG	BU 145	Cil 88	HG 62 89	otal Clay (DE	ES	91 6		IA	IN 72			SP 29	14	. Tota 65 . 65 52
3-79 9-80 Year 5-76 6-77 7-78	AG	BU 145 144 216	Cil 88	HG 62 89 72	otal Clay (DE	ES	91 6		IA	72 100 63		(SP 29	14 17 30	Tota 65
Year 	AG	BU 145 144 216	Cil 88	HG 62 89 72	otal Clay (DE	ES	91 6		IA	72 100 63		(SP 29	14 17 30	Tota 65
9-80 Year 	AG	BU 145 144 216	Cil 88 128 85	HG 62 89 72	otal Clay (DE	ES	HI.		IA	72 100 63		í 36	SP 29	14 17 30	Tota 65
3-79 9-80 Year 5-76 6-77 7-78	AG	145 144 216 265	Cil 88 128 85	HG 62 89 92 31	otal Clay (DE	ES	HI.	9	IA	72 100 63		í 36	SP 29	14 17 30	Tota 65
3-79 9-80 Year 5-76 6-77 7-78 8-79 9-80	AG 208	145 144 216 265	Cil 88 128 85	HG 62 89 92 31	DC	DE	ES	HI.	8 3 9 2 Race	IA	72 100 63		í 36	SP 29	14 17 30	Tota 65
9-60 Year 5-76 6-77 7-78 8-79 9-80	AG 208	BU 145 144 216 265	Cil 86 128 85	HG 62 89 92 31	DC	DE	ES	HI.	8 3 9 2 Race	IA	72 100 63	JE	í 36	SP 29	14 17 30	Tota 65
8-79 9-60	AG 208 Male	145 144 216 265	Cil 88 128 85	10 HG 62 89 92 31	DC Total	DE	ES 4	81 6 6 6 7 7 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2	Race	;	72 100 63 56	JE	í 36	SP 29	14 17 30	Tota 65

Coder White (H)
Slack (B)
Hispanic (H)
Asian (A)
American Indian (I)

ERIC Foundation by Eric

Vocational "ducation Enrollment in Dade County Compared to the

Vocational Education Enrollments in Hibleah and Miami Jackson High Schools

by Program, by Race, by Sex, and by Year

Yeas					.mta	l Dade Co	unty Voc	ational Zd	ucation z	nrol lme nt					•
	AG	80	СН	HG	DC	3C	ES	HL	IA	IN	JE	⇒ PS	6 P	WE.	Total
75-76	1325	7165	8579	6297	2887	1124	-	1119	13957	7380	`1071		869	,4795	56597
76-77	1186	10189	6218	5206	3080	~ 1192	1568	1270	12284	5687	, 1134		538	1425	50971
77-78	1235	13012	6807	5713	<i>©</i> 3077	1357	754	1526	15094	5544	1116	140	573	3646	59594
78-79	1005	24964	6139	6702	4262	,1165	3884	1619	16950	5576	1612	422	563	4386	79299
79-80			·							•					•
						_						4		•	
	Male	<u>. Sex</u>	Pena	١.	Total			Rac		_					
			2 (348.		10001	<u>,</u>			н х						
75-76	,29 802		267	65	56567		,	20298 4	794 18	9 135					
76-77	26045	i	249	32	50977			17185 15	148 35	4, 74			•		
77-78	30824		287		59594			19206 18			4				
78 - 79	37986	(413		79299	;	27576	24212 268	328 56	5 115		9			
79-80		<u></u>				•									
Year					Total Hia	leah High	School 1	Vocational	Education	n Enrollme	ent .		. 	-	
	AG	BU	СН	НG	DC	583	ES	HL	IA	In	JE	PS	SP ·	WE	Total
75-76		201	478	69	46	-			332	400	88			102	1716
16477		201	343	28	94	61	9	29	205	280				40	1290
17-78		625	333	14	75	43	14	17	255	268	63			42	1749
18-79 19-80	£	1309	196	47	147	56	84	30	472	193 °	107			50	2544
						_			_		•				,
	٠,	Sex				,		Race				•			æ
•	Male		Penale	· 	Total	<u> </u>	W	В 5	. A	ı			0		
5-76	924		792		1716	1	140	252 31	9 5	o	*				
6-77	631		659		1290		577	94 61	9 0	ö					
7-78	748		1001		1749		656	63 102	9 1	0					
8~79	1074		1470		2544	!	579	76 188	4 2	3					
9-80															
ie: White	(W)	-													

ERIC " A

Table 40 (continued)

Year				Tota	l Miami J	Jackson Hi	gh School	Vocation	nal Educat	ion Enrol	llment				
	AG	BU	CH -	!!G	DC	DE	ES	HL	IA	IN	_ JE [/]	PS	SP	WE	Tota
75-76		157	591	367	29				165	421	49			123	1902
16-77		107	253	434	274	28	24			347	52		107	53	167
17-78		259	144	281	344	35	41			436	95	•	106	112	185
18-79		706	215	271	522		201		17	327	51		47	192	202
19-80															

	<u>s</u>	<u>iex</u>				Race				
	Male	Female	Total	W	В	н	A	ı		
75-76	1023	879	1902	305	1566	27	4	0	1.	
76-77	773.	906	1679	68	1416	190	5	0		
77-78	917	936	1853	102	1486	265	0	0		
78-79	838	1189	2027	18	1639	370 -	0	0		
70-80										



Vocational Education Enrollments in Escambia, Penaacola, and W. J. Woodham High Schoola by Program, by Race, by Sax, and by Yaar

Year					Total I	scambia	County	Vocat:	lonal	Educa	tion :	Enrollmen	it'				_,
i	AG	BU	сн	HG	DC	DE	E	s	HL	-	IA	IN	JE	PS	SP	WE	7. 13
75-76	604	229	2724	1689	252	88					826	260	189				68,
76-77	811	272	2728	1488	204	159		8			702	246	168				678
77-78	761	299	2981	1649	204	169		14		•	825	287	255				744
78-79	553	3146	3396	75	220	144		22			671	243	235		,		6 70
79-80													,				
i										•				1			
		Se	ĸ						Rac	:0							-
	— Male		Pem-	ale	Total		W	В		н	A	1					
75-76	2536		4:	325	6861		4654	2178		22	0	. ,					
76-77	2512		41	L74	6786		4578	2179		15	7	7				,	
77-78 ;	3095		43	349	7444		4913	2381		16	23	111					
78-79	3 3 7 2		, 53	334	8706		6158	2451		32	54	11					
79-80 i					,			,				ě					
			1								_					<u> </u>	
eat.				T	otal Escam	bia High	Schoo	1 Vocat	iona]	Educ	ation	Enrollme	nt				
	AG	BU	СН	HG	DC	DE	ES	<u>.</u>	HL	1	Ά	IN	Je	PS	SP	WE	To :al
5-76		32	609	151	50					2	27	82	35				
6-77		66	` 489	92	23		1				74	, 52	27				1186
ار 78–7		82	520	268	29		3				02	99	54	,			924 1257
8-79		520	446	21	32		3	i			03	101	56				1382
9-80								1									.,,,,
		<u>Sex</u>				_			Race								
	, Hale		Femal	e	Total		W	В	н		A	1	?	;			
i~76	473		71	3	1186		926	255	0			0					
-77	382		54:		924		622	301	0		0	0					
-78	535		72:	2	1257		802	424	6		3	22					
- 79	542		840)	1382		961	405	5		11	0					
-3q												-					

Code: White (W)
Black (B)
Hispanic (H)
Asian (A)
American Indian (I)

Table 41 (continued)

Year				•		COIA III	, • • · · · · ·		onal	Education _	Enrolla	ent				
	AG	BU	СН	HG	ρċ	DΕ	ES	HL	,	ĬŸ	IN	JE	PS	SP	WE	Tota
75-76		39	, 325	355	21	62		_	•		100	36				93
76-77		32	399	278 2	24	80					131	36				96
77-78		34	355	316	20	87					111	49				97
78-79	204	388	480	34	29	61	1			16	89	42				124
74-80		•		\$,									
		^														
		Sex							Race							
	Hale		Fena	le	Tutal		w	В	H	λ	· 1	_		_		-
75-76	228		7	08	939		489	442	0	5	0					
76-77	315		6	65	980		563	404	10	3	0 ′					
77-78	305		6	67	972		593	368	3	7	1	•				
			,	43	1244		779	428	9	24	4					
78-79	501		•													
78-79 79-80	501															
	501															;
79-80					al W. J. W	oodhan i	High Sch	ool Voca	tiona:	l Educati	on E· tol	lment				
79-80	AG	ви	СН		al W. J. W	DE	High Sch ES	ool Voca		l Educati	on E rol	lment JE	Pt.	SP	¥E	Tota
79-80 Year		BU 73		Tot	~c	.						JE	Pt		WE	
79-80 Year 75-76	AG		СН	Tot	, ^c	DE				IA			PL	SP	WE	137:
79-80 Year 75-76	AG	73	CH 592	Tot. HG		DE.	ES			1A 173			Pt.	SP	NE .	137: 141:
	AG	73 85	CH 592 581	Tot. HG 377 341	°C 24	DE.	ES 4			1A 173 168	IN		PL	SP	WE .	137; 14 <u>1</u> ; 161;
79-80 Year 75-76 76-77 77-78	AG 100 177 247	73 85 90	CH 592 581 669	Tot. HG 377 341	24 24 29	DE.	ES 4			173 168 185	IN		Pt	SP	WE .	Total
79-80 Year 75-76 76-77	AG 100 177 247	73 85 90	CH 592 581 669	Tot. HG 377 341 335	24 24 29	DE.	ES 4			173 168 185	IN		Pt	SP		137; 14 <u>1</u> ; 161;
79-80 Year 75-76 76-77 77-78	AG 100 177 247	73 85 90	CH 592 581 669 665	Tot. HG 377 341 335	24 24 29	DE.	ES 4			173 168 185	IN		PL	SP	ие	137; 14 <u>1</u> ; 161;
79-80 Year 75-76 76-77 77-78	AG 100 177 247	73 85 90 632	CH 592 581 669 665	Tot. HG 377 341 335	24 24 29	OE	ES 4	HL.		173 168 185	IN		PL.	SP		137 141 161
79-80 Year 75-76 76-77 77-78	100 177 247 125	73 85 90 632	СН 592 581 669 665	Tot. HG 377 341 335	24 24 29 43	OE	4 4 7	HL		173 168 185 143	56 .		Pt	SP		137 141 161
79-80 Year 75-76 76-77 77-78 78-79 79-80	AG 100 177 247 125	73 85 90 632	СН 592 581 669 665	Tot. HG 377 341 335	24 24 29 43	OE	ES 4 4 7 7	Race S		1A 173 168 185 143	56		PL.	SP		137 141 161
79-80 Year 75-76 76-77 77-78 78-79	AG 100 177 247 125 Male 476	73 85 90 632	СН 592 581 669 665	Tot. HG 377 341 335	7C 24 24 29 43 Total 1372	OE	ES 4 4 7 7 W 924	Race	. н	1A 173 168 185 143 A	IN 56		PL	SP		137 141 161

Table 42

Vocational Education Enrollment in Gadeden County Compared to the

Vocational Education Enrollments in Greensboro and Chattahochhem High Schools

by Program, by Race, by Sex, and by Year

Year					Total (Gadsden Co	ounty V	ocationa	.1. Educ	ation En	rollment					•
•	AG	BU	CH	HG	œ	DE	ES	F	HL	IA	IH	JE	PS	SP	WE	Ťot
75 -76	326	227	. 448	402		55			-	82	254		,	, 29		16
76-77	266	246	631	288		~ 46°		•		64	256			48		18
7-78	299	349	507	106		64				82	195			46		17
18-79	196	673	383	200		59				80	171			24		17
79-80									·				<u></u>			
						•		- 							•	
	wale.	Sex	_		·- · · · · · · ·		•		Race		_					
	Male		Penal	·• ———	Total		и .	в .	Н Н	A	1					·
5-76	1911		81	12	1823		368	1454	1	0	Ó		•			
6-77	933		91	.2	1845		358	1487	o '	, ₀	0					
7~78 <	e35		, 90.		1738		312	1422	1	3	0					
8-72	831		95	5	1786		354	1423	2	0	, 2					
9-80																
							1									
ear				T 0	tal Green	sboro High	a School	1 Vocati	onal E	ducation	Enrolime	int			·	
	AG	BU	СН	HG	DC .	DÉ	ES	HL		IA	IN	JE	PS	SP	WE	τổε
5-76	77	24	17	31			_									1
6-77	65	17	40	25					•				v			1
7-78	82	14	,38 ×	14				ti					•			1
8-79	28	79	25	. 7												14
9-80 ^										_						
 -		Sex							Race							
	Male		Pemale	,	Total		м	B	н	A	ı					
5- /,6	70		79	,	159		75 .	74	a	0	0					
6-77	74		73	į	147		65	82	0	0	0					
7-78	58		90	,	148		53	94	0	1	0					
8-79	55		94	,	149		60	89	0	0	0					
							•									
9-80							_									

ERIC Founded by ERIC

Table 42 (continued)

Year				Tot	al Chattah	oochee High	Schoo.	l Vocat	ional E	ducati	on Enrol	llment		_	
	,1G	BU	Сн	DC	DΕ	ES	HL	IA	I	N	JE	PS	ŞP	WE	Total
-76		19	50	26	-										95
-77		58	49												107
7-78		42	40												82
3-79		114	32												146
-80															
		_	· ·	_											
		Sex						Race							
	Male		Pema 1	e	Total	w		В	н	λ	Ī				
5-76	42		5	3	95	42	!	53	0	0	0				
6-77	26		8	1	107	63	3	44	0	0	0				
7-78	23		5	9	82	46	1	32	1	1	0				
8-79	56		9	n	146	79)	65	0	2	0				
-80															



Table 43

Vocational Education Enrollment in Hernando County Compared to the

Vocational Education Enrollment in Hernando High School

by Program, by Race, by Sex, and by Year

Year			· <u>.</u>	•	Total :	lernando	County \	ocation	1 Edu	cation E	nrollmen	t				
	AG	BU	СН	HG	pc	ĎΕ	ES	н		IA	IN	JE	PS	SP	M.S.	Total
75-76	156	211	271	357		99		10	16	196	228		•	185		1809
76-77	, 212	202	250	142	27	121	6	•	7	278	172	•		80	,	1557
77-78	228	233	105	163		122		1	.7	227	140			75		1310
78-79	186	354	159	117		109		27	•	258	77		1	64		1352
79-80		•														
	<u>-</u>	Sex		_					Race		<u> </u>	<u> </u>				<u> </u>
	Male		Pea	ale	Total		ห ๋	В	н.	, A						•
75-76	985			824	1809.		1441	361	4	2	1					
76-77	889			668	1557		1312	244	1	0	0					
77-78	731			579	1310	c	1102	201 •	5	2						
78-79	684			668	1352		1178	167	6	0	1	,				
79-80												,				
		4				_							-			e
Year				_	otal Hern	ando Hig	h School	Vocatio	nal Ec	ducation	Enrollms	nt				
	Ai"	BU	СН	HG	DC	5.2	es	HL		IA	IN	JE	PS	SP	WE	Total
75-76	99	139	251	237		49		41)	127	170			30		1202
76-77	173	187	241	35	27	53	6	3	3	138	172			24		1089
				52		48				140	140			18		870
77-78	173	194	105			10										
77 -78 78-79		257	155	48		67				149	76			9		887
	173		155	48										9		. 887
78-79	173	257		48			•		tace `					9		•
78-79	173	257	155	48	Total		· W	<u>I</u>	H H					9		
78-79	,126	257	155	48					_	149	76			9		•
78-79 79-80 	173 ,126	257	155	48	Total	67	W	В	н	149 A	76			9		•
78-79 79-80	173 ,126 Male	257	Peme 5	48	Total	67	₩ 956	B 240	1	149 A	76 I	-		9		•

Code: White (W)
Black (B)
Hispanic (H)
Asian (A)
American Indian (I)

79-80



Table 44

Vocational Education Enrollment in Hillsborough County Compared to the

Vocational Education Enrollmant in Jefferson High School

by Program, by Race, by Sex, and by Year

Year					Total Hil	laborou	agh Count	ra Aoc	ational E	ducation	Enrollm	ent				
	PG	BU	СН	HG	DC .	DE	ES	5	HL .	IA	IN	JE	PS	SP	, WE	Tota
75-76	1861	6189	2934	3183	686	803	3		252	5005	1801		141	49	1866	2477
76-77	2294	7385	2864	3261	589	932	2 43	31	232	5086	1628		85	2	765	2555
77-78	2775	8118	2848	3174	757	1013	39	4	266	5725	1588		96	3	1366	2813
78-79	2528	83225	2930	2732	805	1017	. 33	9,	264	5656	1519		* 92	1	1356	2755
79-80					e .							•				
		Sex		•		٨	<u>-</u> _		Race							
	Male		~ Femal	e	Total		W	В	н	A	I			·		
75-76	12243		12527		24770		19705	4863	998	70	114					
76-77	12524	•	13030		25554		19073	4959	, 1417	79	25					
778	13902		14221		28123		20732	5409	1727	118	137					
78-79	13496		14060		27556		202°3	 5071	1944	231	27		Q			
79-86				۵			`									
۵.	·	-					_	115							-	
Yèar				Т	otal Jeffe	rs Hi	gh Schoo	l Voc	ational E	ducation	Enrollme	ent				
	AG	BU	СН	HG	DC	DE	ES		HL	IA	IN	JE	PS	SP	WE	Total
75-76		460	253	36	49	122			39	195	226		34		124	1538
76-77		576	208	48	44	<i>?</i> 97	31			263	210		21		75	1573
77-78		596 `	234	37	54	84	17			271	186		21	•	53	1553
78-79		567	228	45	61	80	11			^55	151		14		81	1493
79-80									<u> </u>							
2		· Sex								_	Race					_
	Male		Female		Total		W	В	н	A	I			,	3	
75-76	707		831	-	1538		875	438	220	5	0			·		٠
76-77	693		1880		1573		858	393	319	2	1					•
77-79	640		913		, 1553		795	417	335	5	1					
8-79	644	•	. 049		1493		738	387	365	3	0			.*		
														•		
9-80		_														

oder white (W) Black (B) Historic (H) Asian (A) American Indien (I)



Table 45

Vocational Education Enrollment in Holmes County Compared to the

Vocational Education Enrollment in Holmes County High School

by Program, by Race, by Sax, and by Yazz

Year					Total I	dolmen Cod	unty Voc	ational	Educa	tion En	rollment		· .			
	λG	ви	CH	нG	DC	DE	ES	HL		IA	~IN	JE	PS	SP	WE	Tot
75-76	341	79	203	105		_							Ś			7
76-77	337	101	200	173			۲,							2.		(
77-78	168	50	196	133.		-1								6		
78-79	346	152	242	. 33			,						•	5		°.
79-80																
-				-	_		J				•		•		•	
-		Sex						_		-	Race		د،			
,	Male		Penu	ale	Total		N ,	В	н	A	t I					
75-76	370	- I	, :	358	728		705	18	2	0	3					
76-77	411		•	121	832		813	19	0	0	0	•			•	
77-78	382		:	369	751		710	37	1	1	2		•			
78-79	423	,	:	355	778		764	14	0	0	0					
79-80										_						
				_										·		
Year				Tot	al Holmea	County Hi	igh Scho	ol Vocat	ional	Educa t	ion Earoll	ment				
	AG	BU	СН	HG	DC:	DE	es	HL		IA	IN .	JE ———	PS	SP	4E	70
75-76	117	62	77	52											,	
76-77	126	76	80	66			3						,	,15		;
77-78 .	125	22	100	53										6		
78-79	125	120	112	3										5		:
79-80																

	<u>s</u>	ex				Rice		٠.					
	Male	Female	Total	ĸ	В	H	٨	I		•	_		
75-76	137	171	308	192	24	0	1	1					
76-77	173	100	363	348	15	0	٥,	0			•	,	
77-78	140	166	306	289	10	1	1	0	•				
78-79 .	176	189	365	353	12	0	<u> </u>	0					
79-80				,	•								· <u>·</u>

Coda: Whita (W; Black (B) Hispanic (H) Asian (A) American Indian (I)



Table 46 Vocational Education Enrollment in Nassau County Compared to the Vocational Education Enrollment in W. Nassau County High School

by Program, by Race, by Sex, and by Year

Year		_					County Voc								
	AG	ΒU	CH	HG	DC	DE	ES	HL_	IA	IN	JE	PS	SP	WE	Tota
75-76	199	319	306	177	18			61	229	285	35	•	•	66	169
76-77	328	331	306	145	'		9	37	205	169	139			4	167
77-78	268	418	356	169		, ,	4	. 66	145	187	137		4	12	170
78-79	241	443	400	223			1	67	122 ,	276	96		17	10	18
79-80	1				8				· ·					_	
							<u> </u>								
	ノ	Sex	•					Ra	<u>ce</u>	ů.					
	Male	•	Pe	male	Total	٠	W	В	H · - /	ı	•				
75-76	953	_	•	742	1695		1361	334	0 (0					
76-77	910			763	1673		1397	273 [°]	3	0					
77-78	917	K.	- 1	849	1766	.,·	1479	282	1	. 3				,	
							1560	335	0	1					
78-79	993			903	1896		"200	333	•						
78-79 79-80	993			903	1896	_	,				,				
	993			903	1896						•				
	993					u Count	y High Sch								
79-80	993	BU	СН			u Count						PS	SP	we*	Tot
79-80 Year	AG			Total	L W. Nazaa		y High Sch	ool Vocat	ional Edu	cation En	rollment	PS	SP	we"	Tot
79-80 ************************************	λG 114 ^{-?}	106	1.1	Total	L W. Nazaz		y High Sch	HL	ional Edu	ration En	rollment		SP	we"	- , -
79-80 ***ar 75-76 76-77	AG			Total	DC		y High Sch	HL 31	ional Educ	ration En	gollment JE		SP	WE S	- ;
79-80	AG 114 ² 200	106	1.1	HG 12 22	DC		y High Sch	HL 31	ional Educ	IN 60	JE 40		SP	WE"	
79-80 Year 75-76 76-77 77-78	AG 114 ² 200 137	106 146 128	1.1 150 194	Total HG 12 22 47	DC		y High Sch	HL 31 37 46	ional Educ	IN 60	JE 40 27		SP	WE S	
79-80 ******	AG 114 ² 200 137	106 146 128	1.1 150 194	Total HG 12 22 47	DC		y High Sch	HL 31 37 46	ional Educ	IN 60	JE 40 27	,	SP	WE	4
79-80 YNAT 75-76 76-77 77-78 78-79	AG 114 ² 200 137	106 146 128	1.1 150 194 188	Total HG 12 22 47	DC		y High Sch	HL 31 37 46	ional Educ	IN 60	JE 40 27	•	SP	WE"	
79-80 Year 75-76 76-77 77-78	AG 114 ² 200 137	106 146 128 132	1.1 150 194 188	Total HG 12 22 47	DC		y High Sch	HL 31 37 46	IA 31	IN 60	JE 40 27 29	,	SP		6 6
79-80 75-76 76-77 77-78 78-79 79-80	AG 114 ² 200 137 137	106 146 128 132	1.1 150 194 188	Total HG 12 22 47 60	DC		y High Sch	HL 31 37 46	ional Educ	IN 60 52 57	JE 40 27 29	,	SP		
79-80 Year 75-76 76-77 77-78	AG 114 200 137 137	106 146 128 132	1.1 150 194 188	Total HG 12 22 47 60	DC DC		y High Sch ES	31 37 46 '43	ional Educ	1N 60 52 57	JE 40 27 29	,	SP		6 6

Code: White (W)
Black (B)
Hispanic (H)
Asian (A)
American Indian (I)

79-80

Table 47

64

Vocational Education Enrollment in Palm Beach County Compared to the

Vocational Education Enrollment in Twin Lakea and Palm Beach Gardans High Schoola

by Program, by Race, by Sex, and by Year

														v		
Year					Total Pal	lm Baach	County	70cati	onal Ed	ucation E	nrollmen	Ė	_	•		
	AG	BU	CH	HG	DC	DŞ	ES		HL	IA	IN	JE	PS ·	SP	. WE	Total
75-76	723	2656	2786	1245	659	571			144	4098	912	80		84	692	14629
76~77	676	3458	2669	1443	606	599	129		117	4003	845	62		85	345	1501
27-78	490	3371	1973	1590	559	483	215		113,	3231	783	93		70	443	°13414
78-79	471	4220	1653	1083	496	510	32		100	2773	806	71		135	387	12737
79-80								_								 _
				 	<u> </u>	•	-	<u>. </u>								
	Mala	<u>Se:</u>	<u>x</u> Pemi	ale	Total		W	В	Race	٨	ı					
75-76	7924			696	14620		9686	4536	105	91	. 202	;		·-		
75-76 76-77	7866		•	151	15017		9348	4450	1054		6			3		
77-70	695Í			163	13414		8761	3849	759		9				-	
78-79	6524			213	12737		8444	3602	" 60 5		30					
79-80												. ~	•			
	.						 -			,					0	•
Year	۰	•			otal Twin I	Cakes' Hi	gh Schoo	1 Voca	tional	Education	Enrolla	ent	_			6
	AG	BU	СН	HG	DC	DE	ES		HL	IA	In	JE	PS	≥ĭs.	ine	Total
75-76		265	343	107	62	. 44				374		14			130	1339
76-77		360	297	119	68	43	76			423		2	į.		28	1416
77-78		355	156	125	57		1			,208		5			` 56	963
78-79		335	137	31	52		7			248		9			67	896
79-80																
													_		-	
	,	Sex	<u>t</u>						Race							
<u>.</u>	Male		Pana	le	Total		W	В	H		1					
75-76	697		6	542	1339		915	417	5	1	1					•
76-77	719		6	97	1416		856	50,1	57	• 2 ,	0					
77-78	431		5	32	963		675	252	34	2	0			,		• '
78-79	426		4	170	896		634	222	38	U	2		,		•	

Code: White (W)
Black (B)
Hispanic (H)
Asian (A)
American Indian (I)

79-80

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Table ^c47 (continued)

Year				Total	Palm Beach	Gardens	High S	chóol Vo	catio	nal Edi	JCA	tion En	ollment				
_	AG	BU	СН	HG	DC	DZ	ES	HL		IA	5	IŅ	JE	PS	SP	WE	Total
75-76		488	340	43	55	56		5	1	329			- 5			37	1404
76-77		553	273	142	46	, 76		5	3	360		•			c	35	1538
77-78		395	1 (9	131	66	82	13	5	5	161			9		20	31	1131
78-79		420	221	58	56	111		4	9	147			12			34	1108
79-80		·							_								. ,
		Sex							Race								
	Male	`	Femal	œ	Total		ĸ	Б	H		۸	<u> </u>			`		
75 - 76	711		69	3	1404	•	68 7	636	0		0	0					
76-77	764		7,7	4	1538		938	593	4		2	0	ı				
77 - 78	542		58		1131		. 686	429	12		3 _	1					
78-79	52-		58	5	1108		724	372	11		1	0					*
79-80				•											^_		

Table 49

Vocational Education Enrollment in Pinellas County Compared to the

Vocational Education Enrollments in Dirie Hollins and Clearwater High Schools

by Program, by Race, by Sex, and by Year

Year					Total P	inellas	County Vo	cation	al Educ	ation %	rollment					
	AG	BŲ	CH	HG	DC	DE	ES	н	L	38	IN	JE	PS	sr	ИЕ	Tote
75-76	95	9685	4799	576	749	1334	1	2	19	4114	1029	2		19	1538	2615
76-77	73	10005	4035	527	517	1183	84	1	25	2664	1039	2		64	676	2107
77-78	104	10861	3679	381	540	1062	46	1	53'	7635	1057	13	1	107	628	2126
78-79	120	11330	3323	248	614	1187	416	2	16	4546	1148	24		241	746	241
79-80	,															
		scx ⁰							Race	 .						,
	Male		Fone 1	•	Total		W	8	Н	λ						
75-76	11592		12567		24159		20201	3754	162	30	32					
76~77	973.9		11359		21077		17603	3336	44	78	16				_	
77-78,	9711		11556		21267		17503 ~	3305	68	75	16-		,		,	
18-79	11643		12326		24359		20222	3749	81	95	12					
79-80				_												0
79-80 Year				Tot	al Dixie	dellins	High Soh	ool Voc	ational	l Educeti	ion Enrol	lment				0
	AG	BU	СН	Tot HG	al Dixie	dellins DE	High Soh	ool Voc		L Educet:	ion Enrol:	lment JE	PS	SP	HE /	
	NG.	BU 1038 ,	CH 561					-			<u> </u>		PS	SP	¢ / 131	Tota
Year 75-76	MG			НG		DE		-	L	IA	in —		PS			Tota 287
Year	MG	1038 ,	561	HG 47		DE 148	ES	-		IA -451	IN 437		PS		131	Tota 283
Year 75-76 76-77	MG	1038 , 924	561	HG 47 27	DC .	DE 140	ES 1	-	L	1A .451 213	IN 437		PS		" 131 / 51	287 214 188
Year 75-76 76-77 77-78	<i>M</i> ₅	1038 , 924 748	561 334 322	HG 47 27 51	DC .	DE 148 161 98	ES 1	-	L	IA .451 213 235	IN 437		PS		" 131 / 51	282 214 188
Year 75-76 76-77 77-78	<i>MG</i>	1038 , 924 748	561 334 322	HG 47 27 51	DC .	DE 148 161 98	ES 1	-	L	IA .451 213 235	IN 437 435 411				" 131 / 51	Total 282 214 188 159
Year 75-76 76-77 77-78 78-79		1038 , 924 748	561 334 322	HG 47 27 51	DC .	DE 148 161 98	E5 1	-	L	IA .451 213 235	IN 437		PS		" 131 / 51	282 214 188
Year 75-76 76-77 77-78 78-79		1038) 924 748 953	561 334 322	HG 47 27 51 17	DC :	DE 148 161 98	E5 1	-	L Race	IA .451 213 235	IN 437 435 411				" 131 / 51	283 214 188
Year 75-76 76-77 77-78 78-79		1038) 924 748 953	561 334 322 283	HG 47 27 51 17	bc :	DE 148 161 98	E5 1	н	L Race	1A .451 213 235 262	IN 437 435 411				" 131 / 51	283 214 188
Year 75-76 76-77 77-78 78-79 79-30	, Male	1038 , 924 748 953	561 334 322 283	HG 47 27 \$1 17	DC :	DE 148 161 98	E5 1	. В	Race H	1A .451 213 235 262	IN 437 435 411				" 131 / 51	287 214 188
Year 75-76 76-77 77-78 76-79 79-30	, / Male 1415	1038) 924 748 953	561 334 322 283 Femalo	HG 47 27 51 17	Total	DE 148 161 98	E5 1	B 495	Race H	IA .451 .213 .235 .262	IN 437 435 411				" 131 / 51	28: 21: 18:
Year 75-76 76-77 77-78 78-79 79-30	, Malw 1415 1001	1038 , 924 748 953 <u>Sex</u>	561 334 322 283 Femalo 1390	HG 47 27 \$1 17	Total 2813 2146	DE 148 161 98	ES 1 2291 1753	B 495 376	Race H	IA .451 .213 .235 .262	IN 437 435 411 I				" 131 / 51	28: 21: 18:

ode: White (H)
Black (B)
Hispanic (H)
Asian (A)
-American Indian (I)

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Table 48 (continued,

Year				To	tal Clear	AFFET UI	1 301100									
	AG	BU _	СК	яG	ĸ	DE	ES	н	•	IA	IN	JE _	PS	SP	WE	Total
75-76		1247	393	46	168	117	,	•	10	338	110				243	270
76-77		1165	295	50	117	108	2	3	11	346	101		•		152	237
- 77-78		1309	293	23	88	61	2	• :	32	315	98				114	233
78-79		1305	197	32 kg	97	93	58	. 3	88 :	574		24			139	225
79-80			-													
, ,																
		Sex		,	`,				Race							
•	Male		Fens	le.	Total		W	В	H	A .	I					
75-76	1248		14	54	2702		2424	226	5	45	2					
76-77	1132		_1	135	2371	;	2123	224	3	` 19	2					
77-78	1100		12	:35	2335		2055	253	10	15	2					
78-79	1256		ĭš	101	2057		2240	281	10	23	3					

Table 49

Vocational Education Enrollment in Polk County Compared to the
Vocational Education Enrollments in Bartow and Mulberry High Schools
by Progress, by Rece, by Wex, and by Year

Year				-	Tota	l Folk C	County	Vocation	nal Educ		nrollment				· · · · · ·	1.
	AG	80	CH	HG	pc	35	 ;	 ES	HL	IA	IN	JE	PS	\$P	WE	,Tota
75-,76	2177	1268	2528	2675	501	333	- (-			1933		343	ra ra		· · ·	
76~77	2477	≺,. 1685	2646	1833	521	321	1	125		2188		322		•	439	12197
77-78	2600	4339	1966	2063	593	319	•	52		2292		¢ 415		16	240	1
78-79	2326	4574	2286	1391	547	293		34		1976		480		23	`j231.° - 353	15068
79-60			j						-			400		•,	. 333	14283
	-	7	<u>'</u>													
		<u>s•</u>	, ,						RACE			- ' ,				
	Hale	· 	7 en	ale	Total		W	B	н	A	1	-				
75-76	5863		6	334	12197		9287	2872	14	. 1	9 5					
76-77	6277		6.	373	12650		3492	3072	57	2	2 7					
77-76	7316		7:	772	15088		11547	3425	91	. 1	9 6			•		
78-79	6827		74	156	14283		11083	3007	130	2	y 34					
79-80																. •
<u> </u>							A								1	
Year				8 F1F74	Total Bart	tow High	Schoo	L Vocati	ional Ed	ucation	Enzollner	1t				٠,
	AG	BU	сн	HG	DC	DE	£	s	EL	.IA_	18	JE	PS	SP	WE	Total
75-76	136	112	251 •	32	23	26						23			21	624.
76-77	141	121	234	22	2	35		26		46		32			30	683
77-78	218	382	208	26	33	31	•			39		33			33	1903
75-79	214	369	277	23	20	25	۴.					63			34	1025
79-80																•
							·	ß	}							
		Sex	;		ŧ			C	Race							
	Hale		Fema)	l •	Totel		Ħ	8	К	. *	I					
75-76	258		36	56	624		376	245	1	2	. 0					
76-77	321		36	52	. 683		429	249	3	4	0					
77-78	426		\$7	17	.1003		.603 -	386	15	1	o		•			?
78-79	425		٠ 60	0,	1025		660	377	17	4	27					•
79~80						•						4	7			•
			· 60		1025	3 	600	377	17		27		-	7	7	7

Cods: White (W)
Black (B).
Hispanic (H)
Asian (A)
American Indian (I)

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Table 49

Q			_											3			•
Year .	•			•	T	otal Hull	erry Hi	ih School	Vocat	lonal E	ducation	Enrollme	nt				
	AG	BU	ø	СН *	HG	DC	DE	ES	1	iL	IA	IŅ	JE	P,S	SP	AE.	Total
75-76	115	76	_	78	171	28		-	_		182		67	•		16	683
76-77	236	60		128	75	. 22	,m.'	. 4		-	96	, '	25		7	6	652
77-78	ا م197	` 9 5 5	. 🕶	¹ 91°	92 *	`38		0 2		_	169		21	-		18	723
*. 78-79	74	134		71	71	31	•	5		. * .	86		52				524
79-430				e			,		•	7	:						
			0 *"											•		<u> </u>	
			<u>Sex</u>							Race		,			•		•
•	Male		-	Fema	le	Total	•	w	В	Н	λ	. I					
75-76	378		_		305	683		471	212	0	0	0		•			•
16-77	344			3	308	652		409	268	4	0	0 -					ş
77-78	38'0			:	343	723	~	472	247	> 4	0	٥					
^78-7 9	225				299	524		363	159	2	0	, 0	٠.				•
79-80			~	•	4		,								•		

Table 50

Vocational Education Enrollment in Sarasota County Compared to the Vocational Education Enrollment in Sarasota High School

by Program, by Race, by Sex, and by Year

Year		•		•	Total s	arasota	County	Vocati	onal Ed	ucation E	nrollmen	t '	٥		1	
\$,AG	` B U	CH	HG	DC	DE	E		HL	IA	IN	JE	PS	SP,	WE	Tota
75-76 .	40	586 .	874	513	196	89		•	17	574	397			60	473	. 380
76-77	83	763	1002	488	. 190	122		11	25	653	372			89	298	409
77-78	.19	881	. 899	633	150	120		11	•	575	49}		•	93	469	444
78-79	254	1749	703	462	178	128		6		ູ 637	. 235		•	117 (,	479	494
79-80				,		·							<u>. </u>			٠
. 3			-,							0	•					_
•	w.1.	Sex						_	Race				•	•		
	Male		Pema -		Total		₩,	B	н	^	. 1					
75-76	1746		, 20	63	3809		3212	594	0	23,	0				,	
76-77	1820	C4 ,	.22	76	4096		3413	620	53	, 8	2		•			۰
77-78	1961		24	83	4444	_	3764	645	. 24	10	. 1					
78-79	2126		28	22	4948	1	4278	626	30	13	1					
79-80-						_	_									
		•			Otal Saras	nota Hio	h Schoo	ol Vocat	ional E	ducation	Enrol Ime					
79-80°. Year	AG .	BU	СН	нG	Total Saras	ota High	h Schoo	ol Voçat	ional E	ducation IA	Enrollme:	nt HE	PS	, SP :	we	Total
Year			СН 340					ol Voçat			IN		PS		_	Total 1016
Year 75~76		BU		HG	DC	DE.		ol Voçat	HL -	IA	IN 240		PS		93	Total
Year 75~76 07 76~77		BU 208	340	HG 20	DC 58	DE [*]	2.2	ol Vocat	HL -		IN		PS		_	1016 1211
Year 75-76 0 76-77 77-78		BU 208	340 343	HG 20 33	58 6b	DE 57	2.9	ol Vocat	HL -	IA	IN 240 211		PS		93 87	Total
Year 75~76 076-77 77-78	AG .	BU 208 248 263	340 343 328	HG 20 33 21	58 6b	DE 57 66 61	2 7	ol Vocat	HL -	IA	IN 240 211 306		PS		93 87 62	1016 1211 1105
75~76	AG .	208 248 263 803	340 343 328	HG 20 33 21	58 6b	DE 57 66 61	2 7	ol Vocat	HL	. 160	IN 240 211 306		PS		93 87 62 .77	Total
Year 75~76 076-77 77-78	AG .	BU 208 248 263 803	340 343 328	HG 20 33 21 26	58 6b	DE 57 66 61	2 7	ol Vocat	HL -	. 160	IN 240 211 306		PS	, SP ·	93 87 62 .77	1016 1211 1105 1424
Year 75~76 076-77 77-78	AG .	208 248 263 803	340 343 328 186	HG 20 33 21 26	58 6b 57 66	DE 57 66 61	2 7 7 1	ol Vocat	HL Race	, 160 	240 211 306 .160		PS	, SP ·	93 87 62 .77	Total
Year 75-76 076-77 77-78 78-79 79-80	AG	208 248 263 803	340 343 328 186	HG 20 33 21 26	58 6b 57 66'	DE 57 66 61	2 2 7 1 1	B B	Race H	1A , 160 d'	IN 240 211 306 .160		PS	, SP ·	93 87 62 .77	Total 1016 1211 1105 1424
Year 75~76 076-77 77-78 78-79 79-80	45 Hale	208 248 263 803	340 343 328 186 Femal	HG 20 33 21 26	58 6b 57 66 Total	DE 57 66 61	2 7 7 1 W 795	B 219	Race H	1A . 160	IN 240 211 306 .160		PS	, SP ·	93 87 62 .77	Total 1016 1211 1105 1424
Year 75-76 76-77 77-78 78-79 79-80	AG	208 248 263 803	340 343 328 186 Femal 54 65	HG 20 33 21 26	58 6b 57 66	DE 57 66 61 60	2 2 7 1 1 W 795 907	B 219 269	Race H	1A . 160 6	IN 240 211 306 .160		PS	, SP ·	93 87 62 .77	Total

Code: White (H)
Black (B)
Hispanic (H)
Asian (A)
American Indian (I)

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Table 5#

Vocational Education Enrollment in Seminole County Compared to the Vocational Education Enrollment in Seminole High School

by	Program,	by	Race,	by	Sex,	and	by	Year
----	----------	----	-------	----	------	-----	----	------

•				•		-	0									
٠	, 	BU .	CH CH	HG	, x	DE	E	·	HL	IA	ın.	JE	PS '	SP	WE	Tot.
75-76	297	1261	611	798	123 ့	213			103	704	1049	133	60	i	160	54
76-77 -	307	1609	944	__ 699	125	244	2	:5	85	707	865	147	´ 61		. 79	58
77-78	290	1834	960	576	178	283	2	:8	77	751	926	224	49	170	162	65
78-79	287	2655	950	477	254	281	4	9	84.	783	879	234	37	38	188	72
79-80		<u>- </u>		•	•				^		•					
								_					•			
•		Sex		•		b	,		Race							_
	Male		Pemal	•	Total		W	• в	. н	A	I	3.	5			
75-76	2985	,	250	, 	5493	· · ·	4334	1100	10	0	49		_			
76-77	30Q7		1 .:89	, ``	5897	•	4674	1156	44	10	13					
77-78	3425		. 3083	3	6508	•	5093 ,	1201	75	20	119	•	,			
8-79	3659		3551	,	7216		5822	1189	125	67	43					
								**								
79-30	•		3	`,-`	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						*					
79-80 				·,÷	· · · · · · · · · · · · · · · · · · ·			•			•					
79-30 Year				<u></u> ÷	Cotal Semin	ole High	Schoo	••	ional Ed	ucation		nt	<u>~</u>			
	AG °	BU	,	<u></u> ÷	Cotal Semin	, oole High DE	Schoo	Vocat	ional Ed	ucation		nt JE	PS	SP	WE	Tota
Year				``	DC 24			Vocat	•		Enrollme			SP	WE 35	
Year 5-76	AG °	BU	сн	HG	DC .	DE		Vocat	•		Enrollme IN	JE	PS	SP		736
Year 5-76 6-77	AG °	BU 218 .	СН	HG 40	DC 24	0E	ÉS	Vocat	•		Enrollme IN 464	JE S6	PS 60	SP	35	Tota _126 144
Year 5-76 6-77 7-78	AG ° 128	BU 218	СН 219 300	HG 40 34	DC .24	DE 18	ĒS 5	Vocat	•		Enrollme IN 464 363	JE 56 52	PS 60 61	SP	35 36,	.126 144
Year 5-76 6-77 7-78 8-79	AG ° 128 151 176	BU 218 384 385	. CH 219 300 263	HG 40 34 35	.24	DE 18	ĒS 5 7	Vocat	•		Enrollme IN 464 363 326	JE 56 52 77	PS 60 61 49	SP	35 36, 22	.126 144 141
Year 5-76	AG ° 128 151 176	BU 218 384 385 442	. CH 219 300 263	HG 40 34 35	.24	DE 18	ĒS 5 7	Vocat	•		Enrollme IN 464 363 326	JE 56 52 77	PS 60 61 49		35 36, 22	.126 144 141
Year 5-76 6-77 7-78 8-79	AG 128 151 176 152	BU 218 384 385 442	CH 219 300 263 243	HG 40 34 35 43	24 	DE 18	ÉS 5 7 9	· Vocat	Race	IA	Enrollme IN 464 363 328 337	JE 56 52 77	PS 60 61 49	SP	35 36, 22	.126 144 141
Year 5-76 6-77 7-78 8-79	AG ° 128 151 176 152	BU 218 384 385 442	. CH 219 300 263	HG 40 34 35 43	.24	DE 18	ĒS 5 7	Vocat	HL Race		Enrollme IN 464 363 326	JE 56 52 77	PS 60 61 49		35 36, 22	.126 144 141
Year 5-76 6-77 7-78 8-79 0-80	AG 128 151 176 152	BU 218 384 385 442	CH 219 300 263 243	HG 40 34 35 43	24 	DE 18 62 29	ÉS 5 7 9	· Vocat	Race	IA	Enrollme IN 464 363 328 337	JE 56 52 77	PS 60 61 49		35 36, 22	144
Year 5-76 6-77 7-78 8-79 0-80	AG ° 128 151 176 152	BU 218 384 385 442	CH 219 300 263 243	HG 40 34 35 43	24 .47 73	DE 18 62 29	ES 5 7 9	^ B 553 589	Race H	, A	Enrollme IN 464 363 326 337	JE 56 52 77	PS 60 61 49 37		35 36, 22	144
Year 5-76 6-77 7-78	AG " 128 151 176 152 Male	BU 218 384 385 442	CH 219 300 263 243 Pemale	HG 40 34 35 43	DC	DE 18 62 29	ES 5 7 9	^ B 553	Race H	, A	IN 464 363 328 337	JE 56 52 77	PS 60 61 49 37		35 36, 22	.126 144 141

Code: White (W)
Black (B)
Hispanic (H)
Asian (A)
American Indian (I)



Table 52

Vocational Education Enrollment in Taylor County Compared to the Vocational Education Enrollment in Taylor County High School

рy	Program,	by	Race,	by	Sex,	and by	Year
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Year				•	Tota	l Taylor	County V	ocational	Education	Enrollme	ent				.
•	AG É	BÜ	СН —	HG	DC	DE	ES.	HL	ī,	IN	JE	PS	s P	WE	·Total
75-7§		67	21	195	•				122	26		-	31		462
76-77		22	56	105	18 ·				72				65		338
, 77~78		37	146	60	, 38	•	2.		107	,			29		419
78-79		56	46	34	32		1,		. 142				23		354
79-80															٠.

1 \		Sex			•		Race		•	
	Male	,	Female	Total	w	В	н	λ	1	ę
75-76	₃ 211		251	462	292	270	0	0	0	
76-77 <	126	0	212	338 ^	197.	141	0	0	0	, ,
77-78	193	•	226	419	285	133	0	0	1	
78-79	192		242	2"/4	236	98	0	٥	0	,
79-80				•						

Year			_	Tota	l Taylor	County H	igh School	l Vocation	1 Educat	ion Enro	llment	7	3	
	AG	BU	CH	НG	DC _	DZ	25	HL	IA	ţN	JE	PS	SP ,	WE Tota
75-76		67 ,	21	195		,	_		122	26		``	31 ~	46
76-77	-	22	>6	105	18				72				65	33.
77-78		37	38	60	38		2		107				29	n 27
78-79		56	46	34	32		1		142			•	23	33
79-80			۴.								•			

		ex	•			Race		-	<u> </u>	
	Male	Pemale	Total	W	В	H	. х	ĭ		
75-76	211	251	462	292	170	0	0	U		
76-77	126	212	338	197	141	0	0	. 0	ů.	
77-78	159	114	273	199	74	0	o	0		د.
78-79	192	142	334	236	98	` o	0.	0		
79~80°	•				•	•				

Code: White (N)
Black (B)
Hispanic (H)
Asian (A)
American Indian (I)

ERIC

Table 53

Vocational Education Enrollment in Wakulla County Compared to tha

Vocational Education Enrollment in Wakulla County High School

by Program, by Race, by Sax, and by Year

Year	•	-	•	•	Total Wa	kulla Co	unty V	cationa	l Educa	tion En	rollment			f		
	AG ,	BU	СК	н̀G	DC	DE ,	, ES	н	L	IA	IN	JE	· PS	SP	ME	Tota
75-67 *	77	132	64	- 72	_		•			2	192				26	56
76-77	11	128	42	672	^ 31		5			43	150				15	49
77-78	11	77	43	113	46		8			46	150				. 23	, 51
78-79	35	.141	9	94	43		6			48	127				31	53
79-80					3)							•			•	
							(>			,					
_		Sex				•		•	Raca							
	, Hala		Fema	10	Total		W	В	н	A	1		•	•		_•
75~76°	284		2	81	565		422	143	0	0	0					
76-77	248		2	:49 →	497		369	127	1	0	0		*			
77~78	262		2	55	517	•	380	137	0	0	0		}			
78-79	253		2	741	534		424	110	0	0	٥					
10-13			-													
79-80		_			,		,						_	_		
					ıl Wakulla	County H	igh Sch	ool Voc	stional	l Educat	ion Enrol	lment				<u>.</u>
79-80				Tota	l Wakulla								PS	CP	WF.	Total
79-80	AG	BU	СН		il Wakulla		igh Sch	ool Voc		I Educat	ion Enrol	lment JE	PS	SP	WE	Total
79-80		BU 132		Tota	l Wakulla								ps		WE	
79-80 'Year	AG		СН	Tota	l Wakulla				L	IA	IN		ps .		•	/ 565
79-80 Year 75-76 76-77	AG 77	132	CH 64 42 43.	Tota HG	1 Wakulla DC		o ES			1A 2	IN 192		PS .		26	/ 565 497
79-80 Year 75-76 76-77	AG 77 11	132	CH 64 42	Tota HG 72 72	DC 31	DE	s ES		L	1A 2 43	IN 192 150		PS .		26 15	Total / 565 497 517 534
79-80 Year 75-76 76-77 77-78	AG 77 11 11 35	132 128 77	CH 64 42 43.	Tota HG 72 72 113	DC 31 46	DE	s ES		L	2 43 46	IN 192 150		PS .		26 15 23	/ 565 497 517
79-80 Year 75-76 76-77 77-78 78-79	AG 77 11 11	132 128 77 141	CH 64 42 43.	Tota HG 72 72 113	DC 31 46	DE	s ES		. ,	2 43 46 40	IN 192 150		PS		26 15 23	/ 565 497 517 534
79-80 Year 75-76 76-77 77-78 78-79	AG 77 11 11 35	132 128 77	CH 64 42 43.	Tota HG 72 72 113 94	DC 31 46	DE	s ES		· ,	2 43 46	IN 192 150 150 127	JE	ps		26 15 23	/ 565 497 517 534
79-80 Year 75-76 76-77 77-78 78-79 79-80	AG 77 11 11 35 Hale	132 128 77 141	CH 64 42 43. 9	Tota HG 72 72 113 94	DC 31 46 43 Total	DE	p &S 5 8 6	В	. ,	1A 2 43 46 48	IN 192 150 150 127	JE	PS		26 15 23	/ 565 497 517 534
79-80 Year 75-76 76-77 77-78 78-79 79-80	AG 77 11 11 35 Male 284	132 128 77 141	CH 64 42 43, 9	72 72 113 94	DC 31 46 43 Total 565	DE	p ES 5 8 6	B 143	Race H	1A 2 43 46 48	IN 192 150 150 127	JE	PS		26 15 23	/ 569 499 517 534
79-80 Year 75-76 76-77 77-78 78-79 79-80	AG 77 11 11 35 Male 284 248	132 128 77 141	CH 64 42 43. 5 9	Tota HG 72 72 113 94	DC 31 46 43 Total 565 497	DE	p ES 5 8 6	B 143 127	Race	1A 2 43 46 48	IN 192 150 150 127	JE	PS		26 15 23	7 565 497 517 534
79-80 2 Year 75-76 76-77 77-78 78-79 79-80	AG 77 11 11 35 Male 284	132 128 77 141	CH 64 42 43, 5 9 Fema 2 2 2 2	72 72 113 94	DC 31 46 43 Total 565	DE	p ES 5 8 6	B 143	Race H	1A 2 43 46 48	IN 192 150 150 127	JE	ps		26 15 23	7 565 497 517 534

ode: Whita (W)
Black (B)
Hispanic (H)
Asian (A)
Amarican Indian (I)



Table 54 Vocational Education Enrollment in Washington County Compared to the Vocational Education Enrollment in Chipley High School

by Program, by Race, by Sex, and by Year

Year	<u></u>				Total Was	hington	County \	Vocation	al Edu	cation I	Enrollmen	it ,				
	AG	BU	СН	НG	DC	DE ^	25	н:		IA	ın .	JE	PS	, SP	, ME	Total
75-76	108	255	125						,	47					•	535
76-77	145	73	149							45						412
77-78	130	131	126							37				•		426
78 - 79	171	289	106							. 41						607
79-80													_			,
	-	<u>Sex</u>			_			• ,	Race			0				
ی	Male		Pena	10 .	Total		, W	В	н	A	I	; 				
75-76	`251		2	84	535		447	87	0	0	1	ι				
76-77	202		. 2	10	412		344	68	0	o.	0					
77-78	> 208		2	16	424		338	85	0	0	1					
78-79	294		3	13 .	807	•	468	139	0	0	0					
79-80						-	•		,					U		
							,		`		c					<u>.</u>
Year					Total Chip	oley High	School	Vocatio	nal Ed	lucation	Enrolime	nt				•
	AG	BU	Сн	HG	DC	DE	es	н	·	IA	IN .	JE	PS	5 P	, ME	Total
75-76	86	165	83													334
76-77	111	34	101								,					246
77-78	99	77.	77	•											•	253
78-79	96 ,	175	67			•	•								,	338
79-86		· 									,		_		•	
		Sex			•			_	Race							
	Male		Pemal	le	Total		W	В	н	A	1					
75-76	161	,	, 17	73	334		298	38	0	0	0					
76-77	119		12	27	246		216	30	0	0	0					
77-78	137		11	16	253		214	38	0	0	1					*
78-79	165		17	73	338		267	71	0	0	0					

79-80

Code: White (M' : Black (B) Hispanic (H) -Asien (A) American Indian (I)