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AUTHCR <u>}</u> Whinfield, Richard W. TITLE A Study of the Characteristics of Students Who Sought Admission to Connecticut Regional Technical Schools in 1971. Bureau of Adult, Vocational, and Technical Education SPONS AGENCY (DHEW/OE), Washington, D.C.; Connecticut State Dept. of Education, Hartford. Div. of Vocational Education. ١Ŧ PUBDATE Mar 73 NOTE. 87p. EDRS PRICE MF-\$0.65 HC-\$3.29 DESCRIPTORS *Admission Criteria; *Area Vocational Schools; Comparative Analysis; *School Surveys: Secondary Grades; State Surveys; *Student Characteristics; *Student Enrollment

*Connecticut

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ABSTRACT

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A.

Concerned with those students in Connecticut who had completed eighth grate and sought to be admitted to regional vocational-technical schools, this study had as its objectives to: (1) determine the general characteristics of students being served by Regional Vocational Technical Schools in the State, and (2) determine to what extent the schools were serving the range of students seeking enrollment. A random sample from each of 14 schools of the 15 in the State was used. For analytical purposes, students were divided into two categories: those actually enrolled and those not enrolled. Findings include: (1) A significant difference was found between the enrolled and non-enrolled applicants on their trade choice, (2) There were no significant differences between the two groups on age, grade last completed, race, or sex, (3) Significant differences in family background were found between the enrolled and non-enrolled applicants, (4) Significant differences were apparent between the two groups in intelligence test scores, achievement test scores, grades repeated, personal characteristics, grades obtained, days absent, times tardy, and recommendations from the sending schools. Much of the difference evidenced between the enrolled and non-enrolled students can be traced to the inadequacy of information from the sending school as well as the failure of students to appear for testing and cannot all be attributed to the selection process. (Author/SN)

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A STUDY OF THE CHARACTERISTICS OF STUDENTS WHO SOUGHT ADMISSION

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TO CONNECTICUT REGIONAL TECHNICAL SCHOOLS IN 1971

Richard W. Whinfield Richaru . School of Education The University of Connecticut Storrs, Connecticut

March 1973

CONNECTICUT STATE DEPARTMENT OF EDUCATION DIVISION OF VOCATIONAL EDUCATION. RESEARCH AND PLANNING UNIT HARTFORD, CONNECTICUT

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Richard W. Whinfield School of Education University of Connecticut Storrs, Connecticut

March 1973

Points of view or opinions stated do not necessarily represent official opinion or policy of state or federal governmental agencies, as the writers are encouraged to express freely their professional judgement in the conduct of the project.

> CONNECTICUT STATE DEPARTMENT OF SOUCATION DIVISION OF VEGATIONAL SOUCATION 2000 AUGU AND PLANNING UNIT NACTION, CONNECTICUT

Acknowledgements

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The researcher is indebted to a large number of persons for their assistance. 'Richard Wilson and Charles Bertagna of the Division of Vocational Education Research and Planning, worked hard to get the proposal approved. and Walter Bialobrzeski, Chief of the Bureau of Vocational Technical Schools who made it possible to get exceptionally fine cooperation from each of the regional vocational-technical schools. Because of space, the names of the regional vocational-technical school directors and counselors are not mentioned here, but deserve a special thanks for their cooperation. Special mention must be made of Alfred Dorosz, Director, Frank Enright and Edward Shine, counselors, of Windham Regional Technical School, who in the early stages, helped in the designing of the data collection instrument, and in . the training of the data collectors. Special thanks also go to Daniel Keefe and Walter Kopsick, counselors at Warren F. Kaynor Regional Vocational School, who spent several days working with the researcher and his staff in helping to identify important variables, acquainting them with the record systems, and interpreting information on the records. They also provided leadership in obtaining the important cooperation of the guidance counselors as a group.

The advisory committee of Robert Dorsey, Director of Wilcox Regional Vocational Technical School, Walter Kopsick, Don Thompson, Assistant Professor, University of Connecticut, Lewis Randall, consultant, Bureau of Vocational-Technical Schools, and Richard Wilson was of continuing importance.

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Numerous university students helped throughout the project including Nathan Tufts and Elmer Dickens, graduate assistants, both of whom provided important leadership in data collection, preparation and programming; Mary Ellen Dickens, Timothy Taylor, and Maria Samper took primary responsibility for the coding, and Evelyn Haddad did the key punching. Robert Lang, a graduate assistant, worked closely with the researcher in the final stages of the project.

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Finally, special thanks go to Mary Breen who did the first draft typing and much of the editing of the report, and to David Winzler who typed the final copy.

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Chapter One INTRODUCTION Background

The fifteen Connecticut Re;ional Vocational-Technical Schools make up a state-operated system of secondary trade schools providing primarily Trade and Industrial Education to students in all areas of the state. Students in eighth grade may opt to attend either a general or comprehensive high school or a Regional Vocational Technical School.

The basic purpose of this study is to describe some of the characteristics of the students who opted for enrollment in regional technical schools. The purpose for doing this study was to determine: 1) the general characteristics of students being served by Regional Vocational Technical Schools, and 2) to what extent the schools are serving the range of students seeking enrollment.

Cne must hasten to point out that the regional vocational-technical schools do not represent the sole opportunity for vocational education, or even the major opportunity for vocational education in Connecticut. There are also regional agricultural programs at the secondary level (also stateoperated, but as part of a regular high school). Many high schools offer other vocational opportunities in Trade and Industry, Business Education, Distributive Education, Cooperative Work Experience programs, Health programs, Home Education, and a variety of exemplary programs.

At the post-high school level, regional vocational-technical schools offer Trade and Industrial Education and Health Education programs.

Also at the post-high school level four technical colleges offer a variety of engineering technician training programs. A new community college system is rapidly expanding its offerings in occupational education. At the adult level, the Regional Technical Schools offer apprentice training, Trade preparatory and Trade supplementary programs. Three Skill Centers are providing job training for unemployed disadvantaged adults (one being operated for inmates of correctional institutions). Other programs include support to a variety of programs such as sheltered workshops, special programs for the disadvantaged, and others.

This study, thus, is concerned with a small but important aspect of Vocational Education in Connecticut: The students who have completed eighth grade and seek to be admitted to regional vocational technical schools.

All students who are accepted by these schools do not enroll (See Table I-A "Cancelled" and "Failing to keport"). Others who are qualified cannot be accepted. This is not because the regional schools do not want to serve them; rather, it is because the facilities, staff and finances are limited.

A less important restraint, but nevertheless a factor in limited enrollment, is the manpower needs of the state. The regional vocational-technical schools do not wish to train undully large surpluses of people in various trade and industrial areas.

Because there are more applicants than can be accommodated in the regional schools, schools have set up admissions procedures. These procedures vary from school to school for at least two reasons: 1) some schools are able to accommodate most of the applicants, primarily those schools in more sparsely populated areas; others, primarily those in heavily populated areas, have high numbers of applicants, and can accept only a small portion of the applicants; 2) all schools do not offer the same programs. Students are not just admitted to schools, but many schools make an effort to select students interested in the programs offered by the schools.

Because this need for admission policies exists, it could be important to know if these policies are discriminating in certain ways. Additionally, simply reporting the characteristics of those seeking enrollment would be of

Table I-A

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(Basis for Weighting Sample) STUDIT ADMISSIONS RUPORT

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Schoo1	Number of Applicants	Reported	Sample Weight (Enrolled)	Cancelled	Failed to Report	Qualified	Not Qualified	Total Non- Enrolled	Non- Enrolled Sample	Snrolled
	222	351	2.5	33	8	120	21.1.	767	r a line	
°**	255	115	1	6	Ċ	85	87		1•6	47.00
ო	12.1	170	1•2	16	76)	30	747	1 <mark>.</mark>	2.5
4	78E	172	€ • •	27	11	41 A1	122	915 015) u - c	7 70
Ś	\$15	338	2.4	36	67	384	0	212	2 Y	0.00
9	723	246	1.8	36	42	316	83	177	7 • / 2 • /	51.P
2	758	187	1.3	8	4	163	84	122		
tO	300	139	. 1.0	. 14	0	02	5 5	161	2 ° C	1.6.1
6	738	305	2•2	77	な	357	8	133	1.0	Kr. 2
10	272	146	1.0	31	9	07	67	126	1.5	1.10 A.71
11	504	285	2.1	35	82	63	92	219	2.6	57.1
12	362	189	1.3	19	10	146	18	193	5.3	6 0y
ដ	666	173	1.2	た	m	367	66	267	2.2	51.0
14	357	174	1.2	×19	m	125	36	183		30.0
15	302	131	1.3	21	9	86	00	121	1.4	68.9
	7166	3169		391	250	2367	1011	4019		

*Adopted from Report of Connecticut State Department of Education Division of Vocational Education. Series 1971-72 Vocational Research Letter no. RR-2 (Revised) **not included in the study

little value in determining who is served by the schools and making some comparison with some other groups. It must be kept in mind, however, that students who are classified as non-enrolled are not just those who are refused admission, but those who change their minds, those who move, or for other reasons choose not to come, or cannot come even though they may have been accepted for admission or are qualified for admission.

This study, then, while designed to describe students who seek admission, does so by making comparisons of those who actually enroll to those who were not enrolled.

In addition, because the study was conducted after the first semester of 1971-72, it was possible to obtain data on the progress of many of the admitted students in the school. This information is also reported.

To be more precise the two groups are as follows:

a. enrolled students: ninth grade students who reported and were enrolled in the regional vocational-technical schools September of 1971 b. non-enrolled students: ninth grade students who applied but were not enrolled in the regional vocational-technical schools. This group is made up of four catagories (See Table I-A)

*1. Students who were accepted but cancelled their enrollment before school started.
*2. Students who were accepted but failed to report to the school
3. Students who were qualified but could not be enrolled because of limited space and staff.
4. Students who were not qualified.

Procedures

The group under study were those students who sought admission into the regional vocational-technical schools for the ninth grade in the fall semester of the 1971-72 school year.

The study was started in February of 1972. It is based on data collected from the application form which is required to be submitted by each student

*In general replacements for the "cancelled" and "failed to report" were drawn from the pool of "ouslified." The replacement students are included in this report as "enrolled." and and the second s

(see Appendix A). Because of the large number of students who sought admission, it was decided to take a random sampling of the students. For each school, a random sample of thirty students who were enrolled and thirty students who did not enroll was developed. The sample for each school was generated through a computer program (a further discussion of the sample will be found later in this chapter).

In order to collect the data, a Data Collection Form was developed (see Appendix B). It was tested and revised twice in cooperation with administrative personnel of one of the regional schools and with guidance personnel from two regional schools. Data collection procedures were developed and a training program for five graduate students was held in one of the regional vocationaltechnical schools using actual data.

These five graduate students constituted the nucleous of teams which went to each of the regional schools. With the complete and generous cooperation of personnel in each of the schools the teams were given the application forms of students. These were divided into two groups: one group of students who were enrolled, and another group of students who applied but were not enrolled. Each group was numbered sequentially and the random sample selected. No names of students were recorded to assure anonymity.

The collected data was returned to the university where each student's data was punched on to cards and transferred to tape for analysis.

Analysis of data was done by computer using the Tele Storage and Retrieval Program* which is especially designed for social science research statistical treatment. Both non-parametric and parametric statistics were used as appropriate.

*<u>Tele Storage & Retrieval System</u>, Duke University, Durham, N.C., 1968, Révised, December, 1971.

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Limitations

A. Problems Related to Data Collection

Certain problems are inherent in the data collection and treatment procedure. The complete reliance on the application form and other school records resulted in the fact that:

- 1. There were considerable missing data. The application form is first completed by the student who gives certain personal and family data. It is then given to the administrators of the school in which the student was enrolled which supplies evaluative data of the student's records in school. The form then comes to the regional vocationaltechnical school which adds data-more specifically--any pre-admission test scores resulting from admissions testing. For a variety of reasons information on some students was either not reported or some responses to questions were ambiguous. This occured at each step.
- 2. Since each sending school selects, maintains, and collects its data in its own way, some of the information, particularly that regarding standardized tests, was reported in different ways. This same problem existed in admission testing programs of the Regional Vocational-Technical Schools.
- 3. Some of the evaluative data supplied by the sending school is subjective on the part of the person who completes the form. The degree of familiarity this party had with the student varied from "unknown" to "intimately known." A further unsolved problem is the bias of the evaluator-bias regarding the student as well as bias the evaluator had about the regional technical schools.
- 4. Data maintenance by regional schools varied considerably. Most schools maintained their records very well, but a few had been careless in completing their sections on the form. One school could not supply the records for non-enrolled students. This school was dropped from the study. Where there were great voids of data on a student's record, the record was not used at all.
- B. Problems Related to Data Collection and Preparation
 - 1. While there are steps taken to assure that the transfer of data from the student records to the data collection form was accurate (every fifth one was done twice and if numerous errors were found, others were rechecked), there were errors made in the transfer of data. This is estimated at about 1 per cent though certain items had higher errors than others.
 - 2. The coding process also was carefully checked, in a manner similar to the data collection; certain errors crept in and were undetected. This is estimated at about 1 per cent also.
 - 3. The key punching resulted in a third problem. The data was key punched and verified, but an error in the magnitude of .5 per cent can be expected even with verification.

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The total error in data collection is in the magnitude of 2.5 per centa tolerable error, since it extends over all students and all data. However, because of missing data the preciseness of the sample varies from variable to variable.

- C. Problems Related to Treatment
 - 1. The use of the random sampling procedure does not permit certain desirable applications. It does not permit such things as the determination of how many students come from each sending school. It does of permit any internal analysis of the school's student body as to www.many students enter each program. Treatment of this sort would equire a data collection of 100 per cent of the students who sought admission.
 - 2. Because there were great varieties of standardization tests administered both by the sending schools and by the regional schools, plus the fact that the results of these tests were recorded in different ways (some by percentile, others by stanine, still others by grade level), there is considerable restriction on the utility of this data for analytical or descriptive purpose.
 - 3. In order to treat certain data, information was categorized. Such categorization while not completely arbitrary provided some problem in placing responses in a correct category. For example, "comments" reported by sending schools were occasionally so ambiguous that the response could have been placed in two or even three categories.

There are, then, problems with the data, but no more so than any other social science research which relies on secondary sources of information. Within the framework of the data limitations, the data was carefully managed and is reliable. No efforts are made in this study to compare schools. Certain comparisons are not evaluative but descriptive as, for example, what schools used what tests for admissions. None of these comparisons are reported in this study.

D. Problems Related to the Sample

Thirty students who were enrolled and thirty students who were not enrolled as of September 9, 1971 were selected at random for each school. The sample technique was used principly because of time and money considerations. Peatman states:

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All statistics however are in a basic sense descriptive regardless of whether methods for the data to render are the data of sample or the complete data of census.

The technique to draw the sample was to use the information contained in Table I-A. This table is an adaptation of a report from the State Department of Vocational Education. It provided inexact data, but this could be expected since students change categories from time to time, particularly in the first two months of achool. The data was correct enough to serve the purpose of drawing a sample.

											_		the second s			Concernment of the second s	-
						Tab	ole 1	[- B									
	1	27.	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL	
Inrolled	30	30	30	30	29	30	30	30	29	30	30	30	29	30	30	1,1,7	
Non- Inrolled	30	0	2/F	30	29	30	30	30	30	30	23	31	30	30	31	408	
TOTAL															-	855	

*not included in the treatment

With a computer random selection program a special sample was drawn for each school for both enrolled and non-enrolled students. Table I-B represents the actual numbers in the final sample. Where there are less than 30 it was because of inadequate or doubtful data. In two instances there were 31 students due to overzealous data collection. They were kept in the sample to help compensate for some records which could not be used. Two schools had only 23 and $2l_{\rm b}$ student records respectively which were usable.

The decision to use the minimum number of 30 was to give adequate representation for each school. Peatman suggests:

> For a series of samples of less than 25 or 30 cases each, the form of the sampling distribution of any statistic derived therefrom will skew more and more from the normal curve, the smaller the size of the sample."

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¹Peatman, G.P., <u>Descriptive and Sampling Techniques</u>, (New York: Harper and Brothers, 1947), p. 283. Peatman, op. cit., p. 324.

Since the possibility existed that comparisons between schools might be desirable, it was felt that at least 30 cases should be obtained.

But this creates a problem. Since all the schools are not the same size, and since schools vary in their admissions procedure, it became necessary to have each school represented in proportion to its size as compared to the total. Since 30 cases is considered minimal for reducing skewness, the process of stratification was used whereby samples of each school were weighted in terms of their size as compared to the enrollment of each school with the school with the smallest enrollment. (See Table I-C)

This weighting has obvious disadvantages. If a skewness exists in a large school sample, it will be exaggerated in the total. Yet, since there are fifteen schools, the effect of such skewness is not great. By drawing samples from each school, chance skewness for the entire sample is reduced.

Statistical Treatment

A. Testing for Randomness of Sample

In one school a collection of data on <u>all</u> students was made. For this school the two samples drawn for the study were compared to the rest of the students who had applied. No statistically significant differences occurred for any variable tested. (Table I-D)

B. Treatment of Data

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Two types of treatment were given. Almost all variables, coninuous or categorical, were treated first with non-parametric data using the Chi Square test of significance. Continuous variables were also treated with a t-test, and a parametric test; both tests measure the significance of difference.

The reason for using the non-parametric statistical procedure on almost all data was because, first, it permits a visible tabular display of the data, more easily interpreted by persons with minimal training in statistics.

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Secondly, it is a test which does not assume normal distribution and, thirdly, it is easily weighted.

Complete reliance on this technique, however, is dangerous in that it can be inadvertantly distorting. A basic rule for the Chi Square measure is that there must be at least five observations in each cell to give credence to the statistic. This means either collapsing the cells or using a special technique. A technique devised by F. Yates¹ consists of adding one-half to the smallest frequency of the table and adjusting the others so that the marginal totals will remain the same. Both of these techniques were used. Tables which show cells with frequencies below five were treated with the Yates technique. A few others were collapsed, i.e. several categories were combined.

Continuous variables were treated additionally with a t-test. Since the data does not deal with matched pairs or with two measures of the same individual, if the variance showed a considerable difference, a 'Separate Variance t Model' was used, rather than a pool. Where variances were not considerably different, a 'Pooled Variance t Model' was used.² No weighting was used in the t-testing, yet the results show that variables treated with both the weighted x^2 and the unweighted t-test usually yeilded the similar results. When they did not agree it obviously places the results in a position of doubt. On the assumption that the randomness in each school is an accurate representation of the students, and that the weighting represents the students in all the schools, the investigator is inclined to accept the Chi Square results.

Since the Tele Storage and Retrieval computer program does not have the Yates technique for Chi Square, and uses the pooled variance t model, the use of the Yates technique and the separate variance model were done by hand.

¹Yates, F. "Contingency Tables Involving Small Numbers and the Chi Square Test" <u>Supplement to the Journal of the Royal Statistical Society</u>, Vol. 1 (1934), pp. 212-235.

²Popham, James W. <u>Educational Statistics; Use and Interpretations</u>, Harper and Row; New York (1967), pp. 148-149.

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*no enrollment data available

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School	H	2	ξ	4	5	9	t	S	6	IQ	11	12	13	14	15	TOTAL
Enrolled PCT.	39 •059	36 •055	54 •082	27	760 .	° 00	75 •114	36 •055	70 .106	3:) • 04:6	54 •082	39 •059	63 •096	36 •055	35 •053	658 •326
Non-enrolled PCT.	·43	24. •018	171 •126	45 •033	156 •115 [°]	° 00	153 •113	75 •055	165 • 122	57 •042	96 170.	71 •052	•0770 09	670 .	177 • 130	1359 •674
TOTAL PCT.	82 •041	•030	225 .112	72 •036	221 • 109	000	238 • 113	111 •055	235 • 116	87 • 043	150 •074	1,10 • 055	123 .061	102 •051	212	2017

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Table I-C

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Table I-D	
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SAMPLE (ON SELECTED VARIABLES) COMPARED TO TOTAL APPLICANTS OF ONE SCHOOL

Variable	Sample	Non- Sample <u>N</u>	<u>D.F.</u>	<u>x²</u>	Significance <u>level</u>
Live with	52 ·	125	9	4•75	N.S.
Grades					
English	35	91	6	5.846	N.S.
Mathematics	38	. 99	7,6	4.67	N.S.
Reading	24	50	6 ·	3.72	N.S.
Fathers' S.E.S.	47	95	10	2.31	N.S.
Mothers' S.E.S.	43	101	10	1.50	N.S.
Personality Chars.					
1. Effort	55	116	4	1.53	N.S.
2. Behavior	55	116	4	4.29	N.S.
3. Responibility	55	116	4	5.55	N.S.
4. Punctuality	55	116	4	4.80	N.S.
5. Cooperation	55	116	4	3.40	N.S.
I.Q.	27	69	8	7.42	N.S.

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Chapter Two

PERSONAL CHARACTERISTICS

The variables in this chapter relate to information about student's personal characteristics of age, race, sex, first and second choice of occupation, last grade completed, physical handicaps and hobby.

A. <u>Are</u>. Table II-A shows the distribution of ages as reported by the applicants. The bulk of students were 15 years of age as of September 5, 1973. This was calculated by determining the date of birth as reported by each student and subtracting the day, month and year from the date of September 5, 1971, the first day of school.

There is a significant difference between the two groups at the .001 level, the non-enrolled students being on the average older. The mean age of the accepted was $U_{1}.97$, ranging from 12.00 to 19.8 years. For the nonenrolled sample, the mean age was 15.16 years with a range from 12.08 years to 18.58 years. Forty-two students were not included because of inaccurate data (most put in the wrong year of birth, i.e. 1971). A t-test with a score of 5.34 on this variable showed no significant difference. However, on the Chi Square test (weighted) there was a significant difference at the .001 level.

Table II-A AGE (Weighted)

Enrolled vs. Non-enrolled

nge	12	13	14	15	16	17	18	19	25	TOTAI
Enrolled	6	2	116	348	126	26	1	2	4	631
Pct.	• 1•0	0•4	18•4	55•0	20.0	14•1	0.2	0•3	0.6	32•9
Non-Anrolled	6	10	110	567	436	128	25	5	5	1292
Pct.	0•4	0.8	8.5	43•9	33•7	9•9	1.9	0•4	0•4	67•1
TOTAL	12	12	226	915	562	154	26	7	9	1923
Pct.	0.5	0.6	11•7	147.6	29•2	3•0	1.14	0•1;	0•5	
CI	II SAUA	RE = C	41.286	8 8	DF, L	EVEL OI	F SIGH	IFICAN	E 🌔	• 001

B. <u>Race</u>. Eight schools collected data on race. Table II-B-1 represents the race distribution for these schools only. There is no significant difference between the ratic of enrolled to the ratio of non-enrolled. Seven and rinetonths per cent of those who sought admission were black, and 7.8 per cent of the total enrolled were black. For Spanish-speaking, 4.7 per cent sought enrollment and 3.7 per cent were enrolled.

The percentage of Blacks in Connecticut was 16.73 as derived from the 1970 census. Spanish-speaking represented 9.75 per cent (estimated as of 1973 from data in the State Vocational Plan), and Caucasian represented 73.52 per cent of the Connecticut population of 1970. The schools are not attracting, nor enrolling in these proportions. But there is no apparent discrimination. A non-Caucasian has just as good a chance of being enrolled as does a Caucasian.

The distribution by schools differ. Some schools accepted a larger proportion of non-Caucasian than Caucasian, others acted in reverse. This is related to the geographical location in racial groups. But for the system there is no significant difference in proportion between the various groups applying, and proportion enrolled.

It is likely that these percentages would decrease if all schools reported race, for those not reporting race tend to be rural schools where there are few or no Blacks or Spanish-speaking people and thus there would be for the total sample, a smaller percentage of non-Caucasians.

To illustrate this, a test of significance was applied to the entire sample. If we assume that schools not reporting race had <u>no</u> Black or Spanishspeaking people enrolled (which is untrue), the figures show a different picture (Table II-B-2).

Since this assumption is not accurate, we can merely report that enrolled Blacks constitute something between 5.6 per cent and 7.8 per cent, non-enrolled Blacks between 6.8 per cent and 7.9 per cent; enrolled Spanish-speaking

Table II-B-1

RACE-REPORTING SCHOOLS (Weighted)

Black Enrolled vs. Non-Enrolled

Enrolled	38	17	429	485
Pct.	07 . 8	03.7	88 . 5	29.6
Non-Enrolled	92	62	1004	1158
Pct.	87•9	05•3	86.8	70•4
TOTAL	130	89	1433	1643
Pct.	07.9	04.7	87 . 4	

CHI SQUARE = 5.30 4 DF, SIGNIFICANCE LEVEL = N.S.

Table II-B-2

RACE-ALL SCHOOLS (Weighted)

	Black	Spanish- Speaking	Caucasian	TOTAL
Enrolled	38	18	628	684
Pct.	05•6	02.6	91 . 8	32 . 1
Non-Enrolled	92	62	1206	1360
Pct.	06.8	04.6	88 . 7	67.9
TOTAL	130	89	1433	1643
Pct.	07.9	04 . 7	87 . 4	

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CHI SQUARE = 5.83 LEVEL OF SIGNIFICANCE = N.S.

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students between 2.6 per cent and 3.7 per cent, non-enrolled Spanish-speaking between 4.6 per cent and 5.3 per cent.

C. <u>Sex</u>. The schools are by nature male-oriented in the programs they operate. Yet, some females do enroll. They tend to opt for programs with greater opportunities for girls such as chef training. A few opt for such nonmechanical jobs as drafting. There are beauty culture and fashion design programs as well. It is not clear whether or not this group is included in this report. The percentage of women enrolled is 4.6 per cent. There is no significant difference between those enrolled and those not enrolled. (Table II-C)

Table II-C

SEX Anrolled vs. Non-Enrolled

Sex	Male	Female	TOTAL
Enrolled	628	29	657
Pct.	95•6	04•4	32.6
Non-Enrolled	1293	64	1357
Pct.	95•3	04•7	67•4
TOTAL	1921	93	2014
Pct.	- 95•4	07.6	

CHI SQUARE = 0.9129 1 DF, LEVEL OF SIGNIFICANCE = N.S.

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D. <u>Trade Choice</u>. When seeking enrollment students are asked to report their first and second trade choices. Their responses to this question vary greatly. Many of the choices are for occupational courses not offered by the schools. A Chi Square test was performed for the groups and showed a significance level of .001 for the weighted group and .05 for the non-weighted set. However, because of many cells with less than five, the tests are in doubt.

It does appear that this is not an important factor in enrollment. One might expect that students who experience interests related to the occupations taught. But this is not the case. For example of those who, for their first choice, chose auto mechanics, a larger percentage was rejected than was accepted. The same is true in architectural drafting, carpentry, machine, air conditioning, printing and others. This cannot be construed that this item wasn't considered in enrollment, for each of these occupational areas have limited space which would restrict acceptance if large numbers expressed this as an interest. It is not at all clear what this table represents.

Table II-D

TRADES

First Trade Choice

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Second Trade Choice

Auto Mechanics	Enrolled 118 208	<u>Enrolled</u> 384 •315	<u>Total</u> 502 281	Enrolled 98 •200	Enrolled 22	<u>Total</u> 120
Architectural Drafting	9	25	34	10	8	18
	•015	•020	•019	•020	•009	•013
Carpentry	126	309	435	109	212	321
	•223	•256	•243	•222	•258	•245
Electrical	98	141	238	. 87	210	297
	•173	•115	• 134	.177	•255	•226
Electronics	104	127	231	65	101	166
	•181	• 104	•129	•132	•123	•126
Hachine	23	47	70	36	67	103
	•040	•038	•039	•073	.081	•078
lechanical	20	23	43	21	36	57
Drafting	•035	•018	•024	•042	•043	•043
Air	7	57	64	2 9	80	109
Conditioning	•012	•046	•035	•059	•0 9 7	•083
Printing	10	43	53	16	45	61
	•017	•035	•029	•032	•054	•046
Food	20	26	46	4	8	12
Services	•035	•021	•025	•008	•009	•009
Hair	0	3	3	0	0	0
Dressing	000•	•002	•001	•000	•000	000.
Dental	2	0	2	0	3	3
Assistants	•003	000	•001	000.	•002	•002
Home	4	3.	7	0	0	0
Economics	•007	•002	•003	•000	•000	000.
Auto	2	24	26	2	6	8
Body	•003	•019	.014	•004	.007	•006
Airplane Mech-	<i>l</i> +	1	5	2	0	2
anics	•007	•000	•002	•004	000.	•001
Baking	8	5	13	3	11	14
	•014	•044	•007	•006	•013	•010
Beauty	6	0	6	5	12	17
Culture	•010	000•	•003	•010	•014	•012
Indus trial	4	0	4	2	0	2
Chemistry	•007	000	•002	•004	000.	•001
TOTAL	565 •316	1218 •683	1783	489 •3'13	821 •626	1310

E. Last Grade Completed Before Application. The usual practice is for a student to enroll in the ninth grade, yet openings do arise at other levels and some students may choose to enroll in the regional schools even though they have completed one or more years of high school (9-12). (A few students reported that the last completed was seventh grade. This probably was because they were in eighth grade, answering the question "grade last completed," which would have been seventh. These responses were dropped from the test of significance.)

Table II-E shows no significant differences between enrolled and nonenrolled students.

Table II-E

GRADE LAST COMPLETED (Weighted)

Enrolled vs. Non-Enrolled

8	9	TOTAL
541 99•5	3 0•5	544 48 . 8
601 96 . 4	11 3.6	612 51.2
1142 98.8	14 1 . 2	:156
	8 541 99•5 601 96•4 1142 98•8	$\begin{array}{cccc} 8 & 9 \\ 541 & 3 \\ 99.5 & 0.5 \\ 601 & 11 \\ 96.4 & 3.6 \\ 1142 & 14 \\ 98.8 & 1.2 \\ \end{array}$

CHI SQUARE = .72 1 DF, LEVEL OF SIGNIFICANCE = N.S.

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F. <u>Physical Handicaps</u>. Schools from which students come are asked to report any physical handicaps. A variety of eight handicaps were reported. These included overweight, hearing, dental, asthmatic, allergy, nosebleeds, nervousness, and cerebral palsy. The analysis, however, is reduced to non-handicapped vs. handicapped for there were relatively few applying students who were reported as being handicapped. This is probably inaccurate, for schools frequently are unaware of handicaps unless they are obvious or reported. The report is based on school information, not medical reports, so it probably leaves much to be desired. Yet there is a significant difference between enrolled and non-enrolled. Only 1.2 per cent of those applying had reports c. physical handicaps, but the school accepted less than half of these. This should not necessarily be considered as a negative attitude on the part of the school. Some handicaps are such that they result in some students being refused enrollment for their own protection.

Table II-F

PHYSICAL HANDICAPS Enrolled vs. Non-Enrolled

Groups	Non-Handicapped	Handicapped	TOTAL
Enrolled	651	3	654
Pct.	99•5	0.5	65•4
Non-Enrolled	1313	20	1333
Pct.	98•5	1•5	67 . 1
TOTAL	1964	23	1987
Pct.	98.8	1.2	

CHI SQUARE = 39.2443 1 DF, SIGNIFICANCE LEVEL <= .001

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G. <u>Hobbies</u>. Even though there is a significant difference between the groups, there is no particular pattern which emerges which could be related to enrollment or non-enrollment. If this were an important factor in the selectivity performed by counselors, one might expect students with hobbies somewhat related to the trades would be selected. This is not the case. Model Building, for example, would suggest an interest in mechanical skills. Yet the percentage difference between the two groups is only 4 per cent. The same observation can be made about mechanical hobbies. (Table II-G)

Nor are the schools selecting athletes. The percentage of enrolled who had competitive sports as a hobby is about 3 per cent less than those not enrolled.

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Table II-G

Hobbies

brolled vs. Hon-Brolled (Meighted)

	Enrolled	Non-Enrolled	TOTAL
Nodel	1.66	265	451
Building	• 27/÷	•231	•245
Collecting	43	70	11 3
	•071	•057	•061
Electricity	25	63	88
	•0/41	•051	•0/+8
Moodworking	23	60	93
	•05/;	• 0!;9	•051
Mechanical	50	109	15 9
	•083	1088	•086
Competiti ve	161	360	521
Sports	•266	• 292	•283
Individual	<i>l</i> +5	118	163
Sports	•07 <i>l</i> +	•096	•089
Arts and	11	30	41
Crafts	•018	• 024	•022
Intellectual	53	11.6	169
	•087	•09/4	•092
C ther	19	22	41
	•0 3 1	•081	•022
Total	606 •330	1233 • 670	1839

CHI SQUARE = 15.29 DF 9, LEVEL OF SIGNIFICANCE = .05

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Chapter Three FAMILY BACKGROUND

Data about the families is collected on the application form which is signed by the parent or guardian, and schools were asked to report certain information about the home environment. Variables considered in this chapter are: number of siblings, home characteristics, with whom does the student live, father's occupational status, and mother's occupational status. A. <u>Number of Siblings</u>. It would not be expected that the number of siblings would have any relationship to enrollment or non-enrollment. The mode for the total group is two siblings per applicant. It can be seen (Table III-A) that the students enrolled tend to come from smaller families. Seventy-one per cent of those enrolled come from families where the students had three or less brothers and sisters as compared to sixty one per cent of the non-enrolled having three or less brothers and sisters. This is a significant difference.

Table III-A

NUMBER OF SIBLINGS (Weighted)

Enrolled vs. Non-Enrolled

Groups	0	1	2	3	4	5	6	7	8	11	TOTAL
Enrolled Pct.	49 •078	109 •173	166 •265	123 •195	66 .1 05	51 •082	15 •023	25 •040	14 •022	10 016	628 •332
Non- Enrolled Pct.	76 •060	145 •115	295 •234	250 •198	191 •151	132 •105	68 •054	34 •027	21 •017	49 •031	1261 •668
TOTAL Pct.	125 •066	254 •134	461 •244	373 •197	257 •136	183 •097	83 •044	59 •031	35 •019	59 031	1889
с	HI SQUA	RE =	419.749	10 9 DE	P. STCI	TRTC AND	E LEVEL	. . .	001		

Mean:Enrolled = 2.85, Non-Enrolled = 3.38

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B. <u>Home Characteristics</u>. Sending schools were asked to report whether or not the home environment was "not typical." This, for the most part, would be a subjective evaluation which would vary from school to school and student to student.

There is a significant difference between the groups-(See Table III-B). A larger percentage of students with "not typical" homes were not enrolled than were enrolled. This is probably not a function of admissions, and if not, suggests there may be some relationship between the variables used for admissions and home environment. A home environment may be related to grades, behavior and several other problems.

Table III-B

HOME ENVIRONMENT (Weighted)

Enrolled vs. Non-Enrolled

Groups	Typical	Not-Typical	TOTAL
Enrolled	601	. 56	657
Pct.	•915	•085	•326
Non-Enrolled	1194	166	1360
Pct.	•878	.122	•674
TOTAL - Pct.	17 95 •890	.110 ···	2017

CHI SQUARE = 24.204 1 DF, SIGNIFICANCE LEVEL <= .001

C. <u>With Whom Does a Student Live</u>? Students reported whom they lived with. Here, too, there is a significant difference at the .001 level (See Table III-C). The most notable difference is that of the percentage living with both parents; the enrollees at 79 per cent with non-enrollees at 71 per cent. This, like home environment, probably cannot be interpreted as having any direct relationship to admission, but again, may be related to school grades, behavior and other factors used for acceptance.

Table III-C

WITH WHOM IS STUDENT LIVING? (Weighted)

•	Enrolled vs. Non-Enrolled										
•	Both.			Grand- M	loth.Step	Fath.St	ep		Foster		
Groups	Parents	Mother	Father	Parents	Father	Mother	Guardian	Adopted	Parent	TOTAL	
Enrolled	475	76	16	2	22	3	3	3	1	601	
Pct.	•790	.126	•026	•004	•036	.005	•005	.005	.002	•336	
Non-Enrolled	847	215	25	14	53	4	7	6	13	1:84	
Pct.	.715	. 181	.021	.012	•045	•003	•006	.005	.011	•664	
TOTAL	1322	291	41	16	75	7	10	9	15	1786	
Pct.	•740	•163	•023	•009	•042	•004	•005	.005	.008	.100	

Compacting this table to four categories (Both parents, Mother, Father, and "Other" to eliminate the cells with less than 5, the Chi Square test with 3 degrees of freedom is 16.15. The level of significance is .001.

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D. <u>Fathers' Occupational Status</u>. Fathers' occupations were reported by each student. These occupations were coded using the National Research Opinion Center socio-economic status ratings. There were considerable missing data on this item (662 of 822). The missing data were scattered throughout the schools for both enrolled and non-enrolled. It is therefore believed that this table is representative. Table III-D shows a significant difference between the two groups, while a t-test score of 1.64 shows significance at the .10 level.

The mean fathers' socio-economic status for enrollees is 62.77, for nonenrollees 60.78, with a smaller variance for enrollees than for non-enrollees. (See Table III-D).

Table III-D

FATHERS' SOCIO-ECONOMIC STATUS (Weighted)

Enrolled vs. Non-Enrolled

	Below 29	3 9	49	59	69	79	89	TOTAL
Enrolled	20	5	28	107	196	157	37	550
Pct.	•038	•009	•051	•194	•355	•284	•068	•278
Non- Enrolled Pct.	38 •037	5 •004	45 •043	273 •265	406 •395	215 .210	47 •046	1029 • 6 52
TOTAL	58	10	73	380	602	372	84	1 579
Pct.	•038	•006	•046	•240	•381	•235	•053	

CHI SQUARE = 19.94 6 DF, SIGNIFICANCE LEVEL = .001 Mean: Enrolled=62.74, Non-Enrolled=60.78, Total=61.83

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E. <u>Mothers' Socio-Economic Status</u>. As with fathers' economic status, there was considerable missing data, again scattered throughout the schools for both enrollees and non-enrollees. There is a significant difference on this variable. Substantial numbers of mothers were reported as engaging in no economic employment.

The mean of the economic status of enrollees' mothers was 32.34, for nonenrollees 27.94. The variance of mothers of enrollees, unlike fathers' economic status, shows a larger variance (187.46) than for the non-enrollees' mothers (172.97). The t test showed a significant difference at the .07 level.

Table III-E

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MOTHERS! SOCIO-ECONOMIC STATUS (Weighted)

Enrolled vs. Non-Enrolled

Enrolled Pct.	0 278 •498	29 12 •021	49 5 •008	59 68 •122	69 89 .15 9	79 107 •192	TOTAL 559 •328
Non-Enrolled	600	31	49	143	201	120	1144
Pct.	•537	•028	•020	•128	•180	•107	•672
TOTAL	878	43	54	211	290	227	1703
Pct.	•524	•026	•017	•126	•173	•135	

CHI SQUARE = 56.94 5 DF, SIGNIFICANCE LEVEL = .001

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Chapter Four

SENDING SCHOOL INFORMATION

A. <u>Intelligence Test Scores</u>. Fifteen different IQ tests were reported by sending schools. 60.1 per cent of the students had taken the Lorge Thorndike Test. These were well distributed throughout the schools. The variation in numbers of students in schools was from 38 per cent to 89 per cent. The other tests were arbitrarily distributed among the students with Otis being the second most frequently used. Only two schools had ten or more students taking this test with no students from two schools having taken it, and five schools with less than three students having taken the Otis. Therefore, only scores on the Lorge Thorndike are used here.

The dates upon which the Lorge Thorndike was administered were also studied. Seventy-eight per cent of the students who took this test had taken it in 1968, 1969 and 1970. A test to determine whether or not the two groups had significant differences regarding the year administered indicated no significant difference. Dates were scattered throughout the schools randomly. Therefore, all students who had taken the Lorge Thorndike are included in this study.

Table IV-A-1 shows these scores and the comparison of enrolled and nonenrolled. There is a significant difference. The mean IQ score for enrollees was 103.7 and for non-enrollees 90.8. For both groups, the average IQ was 96.6.

A simple one-way analysis of variance was also run. (Table IV-A-2). This also shows a significant difference between the groups.

As reported, this represents only 60.1 per cent of the students and it is possible, though not likely, that sending schools discriminate on the selection of their tests, possibly based on the location, character of student body, kind of school (middle or eighth-graded) or some other characteristic. This was not

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studied, but it could result in a bias if, for example, only non-urban schools used this test.

Table-IV-A

IQ SCORE-LORGE THORNDIKE ONLY (Weighted) Enrolled vs. Non-Enrolled

IQ Score	75	80	85	90	95	100	105	110	115	1 20	125	140	TOTAL
Enrolled Pct.	1 •004	3 .010	12 •034	3 7 •111	36 •106	46 • 136	62 •186	41 • 123	44 • 130	25 •075	22 .067	6 018.	335 •392
Non- Enrolled Pct.	31 •060	58 •112	68 • 130	90 •173	109 .210	56 • 108	40 .078	36 •069	8 .015	15 •028	6 •011	3 •006	520 •608
TOTAL Pct.	32 •038	61 •072	80 093	127 • 149	145 •169	102 .119	102 .120	77 •090	52 •060	40 •047	28 •033	9 •010	855
	Ċ	' HI SQU	ARE =	900.	1848	11 DF,	SIGNI	FICANC	e leve	L =	.001		

Table IV-A-2

IQ SCORES-LORGE THRONDIKE ONLY (Non-Weighted)

Group	N	Mean	Standard Deviation	Variance
Enrolled	206	103.703883	11.481679	131.828960
llon-inrolled	169	90 . 792 899	11.786733	138.927092
TOTAL	375	97.885333	13.268118	176.042966
SOURCE	DF			
Between	1	1 14.6 1	0400360	
Within	373	* 10.70	95624706 = T	
*Significant	at .001			

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B. <u>Achievement Test Scores</u>. Thirteen different achievement tests were reported by the sending schools. These were widely distributed. The most frequently administered test was the Iowa Test of Basic Skills. But this represented only 38 per cent of the total students, and 52 per cent of those who had tests reported. All schools are represented, but one school had only one student who had taken this test, another only eight students. The rest varied from 15 to 45. Table IV-B shows mean, standard deviation, T scores and Chi Square test scores on a comparison of enrolled and non-enrolled students.

The test was administered for 42 per cent in the seventh grade and 39 per cent in the eighth grade and 19 per cent earlier, so that one would expect a mean around seventh grade. For all tests, the enrollees scored either just below or just above the seventh grade; but the non-enrollees had mean scores around the sixth grade level. All mean scores are generally below grade level for the total group.

On all the subtest scores and the total there were significant differences on both the t test score and the Chi Square.

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Table IV-B

ACHIEVEMENT TEST SCORES-IGMA TEST OF BASIC SKILLS (Unweighted)

Enrolled vs. Non-Enrolled

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Score		77	Hann	Domotion	m	Significant	ce Chi			Total
		10	rican	DEVIACION	1	Level	Square	DF	Sig.	Group
Reading	e N	141 116	6.8 5.8	1.648 1.383	5.25	•001	200.472	6	•001	6.65
Vocabulary	e N	121 107	7.2 5.9	1•583 1•527	6.08	•001	179.637	6	•001	6.1
Language (Total)	3 N].,1 120	6.7 5.3	1.503 1.257	7.80	•001	92.492	6 .	•001	6.6
Work Study	e H	136 118	7•1 6•1	1 • 464 1 • 249	5•79	•001	66.315	6	.001	6.5
Hath (Total)	E H	137 118	6.9 5.9	1.352 1.236	6.22	•001	85 •75 4	6	.001	6.7
Social Studies	e N	47 55	6.7 5.8	1.268 1.3/13	3.49	•001	(Variance	too	small)	6.2
Science				Sam	ple too	small				
Mat! Problems	: 11	43 54	6.9 5.8	1.117 1.164	4.65	•001	10.018	<i>l</i> ŧ	•05	6.3
Nath Concepts	e N	46 27	5.6 5.6	1.689 1.631	2.50	•006	23.171	2	•001	6.3
Spelling	e e e	141 116	6.9 5.8	1.65 1.39	5.25	•001	24.066	5	•001	6-3
Grade Equivalent (Total)	e N	147 121	6.9 5.9	1•369 1•369	6.24	•001	61.188	5	•001	6.3

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C. <u>Grades Repeated</u>. The reporting on this question by the sending schools was not clear. Some responses reported the number of times a student repeated a grade, others reported which grade had been repeated. If anything was reported, the student was considered to have repeated one or more grades. Table IV-C illustrates the number of students who did or did not repeat grades. There is a significant difference—non-enrollees have a higher percentage of students who repeated grades.

Table IV-C

GRADES REPEATED (Weighted)

Enrolled vs. Non-Enrolled

	IIo Repeats	Repeated 1 or Nore Grades	TOTAL
Enrolled	534	120	654
Pct.	81.3	18.7	32.6
Non-Enrolled	890	4,70	1360
Pct.	65.5	34.5	67.4
TOTAL	1424	590	
Pct.	70.6	29.4	

CHI SQUARE = 12.54 1 DF, SIGNIFICANCE LEVEL = .001

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D. <u>Personal Characteristics</u>. Schools were asked to give a subjective evaluation of each student seeking enrollment. This was done on a five point scale using five different criteria: 1) effort, 2) behavior, 3) responsibility, 4) punctuality, and 5) cooperation.

On each of the personal characteristics the mean of the enrolled group was higher than the mean of the non-enrolled group (See Table IV-D). Tests of significance of difference, both the t test and the Chi Square show significance of difference between the group on each criteria.

Table IV-D

PERSONAL CHARACTERISTICS

Enrolled vs. Non-Enrolled

Unweighted

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Weighted

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		N	Mean	Variance	т	Level of T Significance	otal Gr Mean	roup x ²	DF	Significance
fort	e N	342 325	3•35 2•88	•72 •66	7.29	•001	3.13	48.71	4	•001
havior	e P	342 326	3.56 3.08	-499 -618	8.23	•001	3.33	81.98	4	•001
sponsibility	e N	342 327	3.49 2.96	• 50 • 60	9•19	•001	3.23	75•44	4	•001
nctuality	e N	31;1 327	3.51 3.13	•47 •54	7.04	•001	3.32	58.07	4	•001
operation	e N	339 326	3.61 3.15	• 54 •72	7•33	•001	3•39	60.39	4	· •001

School Grades. The method and time of reporting school grades varied from school to school. The school is asked to indicate a grade by marking period or give a final grade. The grade recorded for purposes of analysis was the last marking period reported by the sending school. Since the different marking periods occurred over the whole group, one may assume that their differences are distributed randomly over the whole group and grades can be examined. Mean grades for each subgroup are reported in Table IV-E.

Schools have different ways of marking. The schools also report the lowest passing grade. Using this information, a scale of one to five was set for each school with five being the highest grade. For schools with letter grades, A was assigned five, B assigned four, etc. F was assigned one as were grades under the passing grade in other marking systems.

Schools offer different courses so that there are varying numbers of students represented for each subject. English, Science, Mathematics (arithmetic), and Social (cience have the largest numbers of student grades reported.

Only Music showed no significant differences on both the t test and Chi Square. Art and physical education showed no significant difference on the t test, but did show a significant difference on the Chi Square test. All other grades showed a significant difference on both tests of significance. Where significant differences occured, the enrollees had higher mean values than the non-enrollees.

Table IV-E

SCHOOL GRADES

Enrolled vs. Non-Enrolled

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	Unweighted					"leighted			
	1.	Mean	S.D.	Vari.a nc e	Т	Level of Significanc	e x ²	DT	Level of Significance
Reading	191 174	3.33 2.95	0.90 .131	0.80 1.73	3.26	.001	39•75	4	•001
Mglish	3 62 3 24	3.18 2.76	0.88 1.17	0.77 1.38	5•34	.001	54.17	4	•01
Spelling	110 90	3.62 3.08	1.16 1.27	1.3 / ₊ 1.62	3.13	.001	20.86	4	•001
Science	362 318	3.17 2.86	0.90 1.26	0.82 1.59	3.70	.001	44.19	<i>l</i> +	•001
liath	367 325	3. 19 2.62	1.01 1.17	1.03 1.38	6.82	.001	56 .93	4	•001
Social Science	339 310	3•16 2•92	1.02 1.23	1.03 1.50	11 . 20	•001	24.95	4	•001
Geogr a phy	60 37	3.42 2.65	1.13 1.09	1.29 1.17	3. 28	•001	1/+•1/+	4	•C1
Music	114 115	3. 32 3. 59	1•16 1•56	1•3/+ 2•/+2	1.47	N.S.	11.31	4	.02
Art	1 30 126	3 .77 3.66	1.10 1.30	1.2 3 1.68	•73	N.S.	8.614	4	N.S.
I n dust rial Arts	170 157	4.05 3.81	1.02 1.22	1.01; 1.51	1.91	.028	12.69	4	•05
Phys ical .Aucati on	172 184	3.92 3.83	1.14 1.40	1 .3 0 2.26	0.65	N.S.	16.46	4	•01

F. <u>Days Absent</u>. Table IV-F illustrates the difference between the two groups regarding absence. While there is a significant difference between the groups, a larger percentage of non-enrolled students had <u>no</u> absences than did the enrolled. Yet the mean number of days absent for non-enrolled is 4.57, for the enrolled 3.41.

Table IV-F

DAYS ABSENT (Weighted)

Enrolled vs. Non-Enrolled

)ayc .bcent 0 1 2 3 l÷ 5 6 7 3 9 10 11 12 13 16 TOTAL inrolled 350 30 41 14 22 40 18 22 15 12 26 5 9 18 21 643 .546 .047 .062 .063 .022 .025 .028 .034 .023 .041 .019 .007 .013 .028 .032 .330 'cl. ion-736 82 50 145 147 145 140 29 26 16 22 28 28 145 71 1310 •565 •063 •038 •034 •036 •031 •022 •020 •012 •017 •021 •021 •035 •054 •670 Inrolled 'ct. 1086 112 90 06 61 67 58 51 41 42 34 33 37 63 92 •559 •058 •046 •044 •032 •034 •030 •026 •021 •022 •018 •017 •016 •032 •047 DTAL. 1953 'ci. CHI SQUARE = 468.10 14 DF, SIGNIFICANCE = .001 T = 1.81 L.S. = .03 Mean: Enrolled = 3.46, Non-Enrolled = 4.56 A t test reveals a t score of 23.6, significant at the .001 level.

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G. <u>Tardiness</u>. Tardinesses were reported by the sending schools and are illustrated in Table IV-G.

Table IV-G

NUMBER OF TIMES TARDY (Weighted)

Enrolled vs. Non-Enrolled

Times Tardy	1	2	3	4	5	6+	TOTAL
Enrolled	560	11	9	8	7	1.9	614
Pct.	91•2	1.•7	1•4	1•3	1•1	3.0	3.12
Non-Enrolled	1169	45	47	15	19	58	1353
Pct.	86 . 4	3•5	3•4	1•1	1•4	4 .2	68•8
TOTAL	1729	56	56	23	26	77	1967
Pct.	87•9	2.8	2. 8	1.1	1•3	3•9	

CHI SQUARE = 15.30 DF 4, LEVEL OF SIGNIFICANCE = .01 Mean: Enrolled = 0.659, Mon-Enrolled = 0.92

While the weighted Chi Square test shows a significant difference at the .01 level, an unweighted t test of 1.022 is not significant. If the weighted scores are more representative of the students than the unweighted scores, it probably is a reflection of some interaction with variables used for selection. It is doubtful that this varible would have much weight in the admission process, unless a student showed the frequency to be so high as to indicate habitual tardiness.

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H. <u>Recommendation of Sending School</u>. Schools were asked to check whether a student was highly recommended, recommended with qualifications or not recommended. Table IV-H-1 shows the reports for enrollees or non-enrollees. There is a significant difference between the two groups; the enrolled students were likely to come from the highly recommended, or recommended with qualif-ications. The non-enrolled had only 39.1 per cent in the highly recommended category.

Reversing the table we see that 50.3 per cent of those who were "highly recommended" were accepted while 80.2 per cent of the "recommended with qualifications" and "not recommended" respectively, were not admitted. (Table IV-H-2).

Table IV-H-1

RECOMMENDATION OF SENDING SCHOOL (Weighted)

Enrolled vs. Non-Enrolled

	Highly Recommended	Recommended With Qualification	Not Recommended	TOTAL
Enrolled	372	130	2	504
Pct.	73•8	25.8	00•4	34•9
Non-Enrolled	367	522	49	938
Pct.	39•1	55•7	05•2	65 . 1
TOTAL	739	652	51	1442
Pct.	51.2	45 . 2	03 . 6	

CHI SQUARE = 180.88 2 DF, SIGNIFICANCE LEVEL = .001

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Table IV-H-2

	MING OF RECOMMENDED TON		
Enrolled	Non-Enrolled	TOTAL	
372 50•3	367 49•7	739 51 . 2	
130 • 198	522 80•2	652 45•2	
2 14•7	49 95•3	51 3.6	
504 •349	938 •651	1442	
	Enrolled 372 50.3 130 .198 2 14.7 504 .349	Enrolled Non-Enrolled 372 367 50.3 49.7 130 522 .198 80.2 2 49 14.7 95.3 504 938 .349 .651	

Recommendation of Sending School: Kinds of Recommendation

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I. <u>Sending School Comments</u>. Schools are asked to write comments about each applicant. The number and kinds of comments made varied widely. These were catagorized as seen in Table IV-I-1. No test of significance was made for this table since there were too many cells with small numbers. The table was further reduced to two catagories, positive comments—those which suggested good attitudes, hard work, high motivation, etc., and negative comments—emotional problems, behavioral problems, poor study habits and similar statements. This is displayed in Table IV-I-2.

Here there was a significant difference. The enrolled students were more likely to have positive comments than the non-enrolled.

Table VI-I-1

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Cending School Comments (Meighted)

Inrolled vs. Non-Inrolled

IVLOI	300 00.6	612 67.2	912
Other	N	6 . 00	، م.6
-1000	0.10	30	33
1000		04.9	03.6
Poor	34	80	114
Academically	11•3	13•0	12.5
Good	85	98	183
Academically	28•3	16•0	20 . 0
. Cor Study	7	26	33
	02.3	04.2	03 . 6
Toor		13	14
Jehavior		02•1	01•5
licchanically	32	97	129
Inclined	10•6	1.5 . 8	14•1
motional	12	17	29
Problem	04•0	02•7	03•1
legativo	25	65	3*60
ttitude	08•3	10•6	06
Positive	99	160	279
Attituie	33•0	29.4	30•5
Connert	Enrolled	licn-Ehrolled	Totel
	Pct.	Pet.	Pct.

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Table IV-I-2

Condensed Sending School Comments (Weighted)

Enrolled vs. Non-Enrolled

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Comments	Positive	Negative	Total
⊡nrolled	219	81	300
Pct.	73•0	27 . 0	32.8
Non-Enrolled	405	207	612
Pct.	66 . 1	33 . 9	67 . 2
TOTAL	624	288	912
Pet.	68•5	31.5	

CHI SQUARE = 4.742 1 DF, SIGNIFICANCE LEVEL = .03

Chapter Five

ENROLLED STUDENTS

In gathering the information used in this study, data about enrolled students after they were enrolled was also gathered. This information includes: 1) entrance test scores, 2) grades, 3) attendance, and 4) trade choice after exploration. No analysis of this data is attempted; rather, it is presented here as descriptive data. (See Appendix C for source of data form).

A. <u>Entrance Tests</u>. The most frequently used entrance test used by the Vocational Technical Schools is the Differential Aptitude Test (DAT). But different schools use different parts of the test. Only two scores are reported here, both with less than half of the total group. Therefore, the figures should be treated with care. Table V-A-1 shows the mean and standard deviation for the Mechanical and Numerical test score of the DAT.

The mean for the Mechanical Test scores is about that of the ninth grade population, but the group scored lower than the mean of the ninth grade population on the Numerical Test.

Table V-A-1

DAT TEST SCORES

	N	М	Deviation
Mechanical	156	49.03 %ile	24.78
Numerical	42	38.29 %ile	24.75

A variety of reading tests were administered by the school. The Gates reading test was most frequently administered. The results are shown in Table V-A-2.

These tests, administered at the beginning or even before the first semester, have a mean which is at or slightly above grade level. This includes only about one-third of the total and therefore cannot be considered representative.

Table V-A-2

READING TEST SCORES

	IV	Mean	S.D.
Speed	123	8.75	2.61
Vocabulary	141	8.43	2.48
Comprehension	141	9.12	2.73

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B. <u>Grades</u>. Grades were reported on a five-point scale, five being the highest, one being failure. Table V-B shows the spread on each course as well as the mean and standard deviation.

The reason for the small number of grades in "trade" is because at the time the data was collected most students were still in the exploratory program. The grades appear to be about where one would expect. Grades tend to skew a normal curve upward (it is usual that there are more A's than F's in schools with such a grading system).

Table V-B

GRADES FOR SUBJECT (Unweighted)

	1	2	3	4	5	Total	Mean	S.D.
Trade	1	9	36	18	12	76	3.42	0.99
Hath	47	78	106	83	70	384	3.16	1.33
Science	35	87	129	81	54	386	3.13	1.30
English	27	61	141	103	49	379	3•30	1.29
Social Studies	26	84	10 5	110	63	388	3.32	1.30
Blue Print Read	<i>1</i> +O	5 3	102	108	40	343	3.19	1.23
Physical Education	19	18	64	99	144	344	4.44	1.60

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C. <u>Attendance</u>. Since the collection of data occurred over a four-week period, the information regarding attendance is inconclusive. It represents roughly one and one-half semesters. The figures in Table V-C disclose the findings. There were 161 students or 40.9 per cent who had no absences reported and 299 or 71.7 per cent who had no tardinesses of a group of 417

Table V-C

ATTENDANCE

	N	Mean
Days Absent	394	3.63 days
Times Tardy	417	1.04 times



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D. <u>Consistency of Trade Choice</u>. Before entering the school, students are asked to indicate two trade choices. At the completion of the exploratory program they are again asked to make a first and second trade choice.

Table V-D shows there were only 189 of the students who had made a choice after the exploratory experiences, the other students were still in the exploratory period when the date was collected. The trade choice after completion does not necessarily mean that students are enrolled in that choice. It merely means they have made the choice. This table shows a high consistency between first and second choices. 50.3 per cent remained with their first choice, only 8 per cent made choices different than the two choices they made on entering school.

Table V-D

COMPARISON OF Y ADE CHOICE, FIRST AND SECOND

Criginal Choice	Second Choice		Percentage
First Selection	Same as First Selection	95	50.3
Second Selection	Same as First Selection	29	15.3
First Selection	Same as Second Selection	18	9•5
Second Selection	Same as First Selection	32	16.9
Selected Neither First Nor	Second Choice	<u>15</u>	
	TOTAL:	189	

Chapter Six

SUMMARY AND CONCLUSIONS

This study was undertaken to study students who applied to the Connecticut Regional Vocational Schools in September of 1971. According to the report of the State Divisior of Vocational Education entitled <u>Student Admission</u> Report-September 1971 (Vocational Education Letter No. RR-2, Revised), 7388 students applied for admission into the fifteen schools at that time. Cf that number, 3169 were enrolled and 4019 were not enrolled.

Because the study was limited in time and money, it was not possible to collect information on all students. It was therefore decided to take a random sample from each school. Students were divided into categories: 1) those actually enrolled, and 2) those not enrolled. Thirty students from each group were randomly selected for each school. Because one school could not provide data on students not enrolled, it was dropped from the sample. The study, therefore, involves fourteen schools.

To make the sample representative of the proportion each school had of the total enrollment, where possible, the data was weighted so each school's sample represented its proportion of the total.

The study is basically a comparison of the enrolled and the non-enrolled applicants. This was done to determine if significant differences existed between the two groups.

Because the schools have a limit to their enrollment (because of space, staff and finances), all students cannot be enrolled, even though many of the non-enrolled would qualify for admission. While only 3169 were enrolled, 209 of the qualified exacelled their acceptance and 205 failed to report. In most instances these were replaced by qualified students. These two groups represent 12.8 per cent of the 4019 who were not enrolled. Some 1011, or 25.3

per cent of the total applicants did not qualify.¹ There are, then, actually four groups of non-enrolled: 1) those accepted but cancelled (9.7% of the nonenrolled), 2) those accepted but failed to report (6.2% of the non-enrolled), 3) those qualified but because of space and other limitations could not be enrolled (59.0% of the non-enrolled), and 4) those who would not qualify (25.2% of the non-enrolled). These four groups were combined for this study as: "nonenrolled" students. Schools enrolled roughly three of every seven who applied and three of five who qualified. The result of the admissions process is the enrollment of those with the greatest chance of success (assuming that success in one school predicts success in subsequent schools). Almost all indications of this study confirm that this is what occured.

The study is broken down into three categories: 1) personal characteristics, 2) family characteristics, and 3) sending school information. A fourth part of the study is concerned with some of the characteristics of the students after they enrolled.

Summary of findings:

a. Personal characteristics

There was a significant difference between the enrolled and non-enrolled applicants on the trade choice which applicants made, and on enrollment of physically handicapped.

The differences of first and second trade choice is not particularly revealing. Differences probably arise from such items as the fact that some persons were choosing occupations which were not offered, and that large numbers were choosing occupations which had limited enrollment opportunities. What influence the trade choice had upon a

¹Student Admission Report: September, 1971, Vocational Research Letter No. RR-2 Revised.

student's being enrolled or not is not clear.

The significant difference between the groups relative to physically handicapped indicated that only 1.5 per cent of the total enrollment were physically handicapped. Of these only 15 per cent were enrolled. (One cannot fully explain the failure of physically handicapped to apply. It may be that youth with physical handicaps opt themselves out, recognizing their own limitations). The reason that few were selected is possibly related to safety, though this is not clear.

There were no significant differences between the two groups on "Age," "Grade Last Completed," "Race," or "Sex." This non-significance is important to note. It indicates, particularly for race and sex, that there is no discrimination taking place in the admissions process on these rather controversial variables. Another item of note, however, is that between 6.8 per cent to 7.9 per cent of Blacks and 4.6 per cent to 5.3 per cent Spanish-speaking students sought enrollment. This is below the percentages each of these groups is of the total population. Based on information received from the Social Science Data Center of the University of Connecticut Census Information, 16.7 per cent of Connecticut's population is Spanish-speaking. That more Blacks and Spanish-speaking do not seek enrollment may reflect the aspirations of Blacks or Spanish-speaking enrolled in grade school who may not be interested in trades as an occupational life, or it may reflect a perception they have of the schools. There are probably a variety of reasons why they do not apply. This is not clear. It is known that several schools have made extensive efforts to enroll Blacks and Spanishspeaking students.

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Only 4.6 per cent of those who sought enrollment were females. This seems very low but quite traditional, for most of the occupations being taught in the schools are traditionally male occupations. There are, however, a number of traditionally female courses offered by the schools but these do not start at the ninth grade. Health occupations, for example, are open to students who have graduated from high school.

In regard to age, since almost all applicants come from the eighth grade, there is no significant differences between the two groups. b. Family background

Family background is very infrequently, if ever considered in a selection process. Yet it appears that the admissions procedures are in some ways related to the family background. It was found that there were significant differences on:

- Size of family (enrolled averaged 2.9 brothers and sisters, while the non-enrolled averaged 3.38);
- 2) Home environment (91.5 per cent of the enrolled came from "typical" homes, while 87.8 per cent of the non-enrolled came from "typical" homes);
- 3) Adults with whom the student lives (79.0 per cent of the enrolled lived with both parents while 71.5 per cent of the non-enrolled lived with both parents);
- 4) Fathers' socio-economic status (the mean of 62.77 for fathers of the enrolled, and 60.78 for fathers of the non-enrolled);

 5) Mothers' socio-economic status (mean of the mothers of the enrolled was 32.34, and of the mothers of the non-enrolled 27.94).
 c. Sending school information

This information is probably the most influential in the admissions practice. It is supplemented by pre-admissions testing done in some of the regional vocational-technical schools. The testing programs of the schools are so diverse, however, that no meaningful data, representative of the system, could be used.

There were significant differences on almost all variable studied. These include:

- Intelligence test scores; Lorge Thorndike (enrolled students* mean score was 103.7; for non-enrolled students, 90.79);
- 2) Achievement tests---the Iowa Test of Basic Skills showed significant differences on:
 - a) Reading (enrolled grade equivalent 8.0; non-enrolled
 5.8);
 - b) Vocabulary (enrolled grade equivalent 7.2; nonenrolled, 5.9);
 - c) Language (enrolled grade equivalent 6.7; non-enrolled, 5.3);
 - d) Math total (enrolled grade equivalent 6.9; non-enrolled, 5.9).
 - e) Math problems (cnrolled grade equivalent 6.7; non-enrolled, 5.8);
 - f) Math concepts (enrolled grade equivalent 6.7; non-enrolled, 5.8);
 - (c) Spelling (enrolled grade equivalent 6.6; non-enrolled, 5.6).

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There were two areas of the test which had so few students the results cannot be considered as representative. These were Social Studies and Science. The "Total Grade Equivalent" was significantly different on both the t test and Chi Square test (enrolled grade equivalent 6.9; non-enrolled, 5.8).

All sections of the tests had the enrolled students with a higher grude equivalency than the non-enrolled. The mean for the enrolled group on each of the tests varied from 6.6 to 7.2; for the non-enrolled, from 5.3 to 5.9. Since the tests were generally administered over a range from the sixth grade or beginning of the eighth grade, the means, particularly of the enrolled students, are approximately at the norm for the group.

- 3) Grades repeated; 84 per cent of the enrolled had not repeated any grade while 65.3 per cent of the non-enrolled had not repeated any grade;
- 4) Personal Characteristics; a five-point scale on the characteristics of Effort, Behavior, Responsibility, Punctuality, and Cooperation was used. On all these items there were highly significant differences on both the t test and the Chi Square test. The enrolled group had consistently higher averages than the non-enrolled group.
- 5) On grades obtained in the sending school the enrolled consistently scored higher than the non-enrolled on all but one subject, Music, where there was no significant difference. Physical Education and Art were not significantly different on the t test but were on the Chi: quare test. On all others there were significantly different scores on both the t test

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and the Chi Square test. The enrolled scored higher on every subject.

- 6) Days absent; enrolled students had a mean of 3.46 days of absence, while the non-enrolled had a mean of 4.56. This was a significant difference between the groups.
- 7) Times tardy; enrolled students had a mean of .65 times tardy, while the non-enrolled had a mean of .92 times. There was a significant difference between the groups.
- 8) Each school was asked to make a recommendation regarding enrollment on a three-point scale: a) highly recommended, b) recommended with qualifications, and c) not recommended. 50.3 per cent of those highly recommended were accepted, while 95.3 per cent of those not recommended were not enrolled. To report this another way, 74.7 per cent of those who were enrolled were highly recommended, while only 39.1 per cent of the non-enrolled were highly recommended.

Enrolled students

 Entrance tests—Two tests were studied, two parts of the DAT and three parts of the Gates reading test. While these tests are not given in all schools, they are the most frequently used. On the mechanical part of the DAT, the students scored a mean percentile of 49.03, while on the mathematics test they scored a mean of 38.29. The latter is below the mean of the general population.

On the Gates reading test the enrolled group scored a mean equivalent of 8.75 on speed, 8.43 on vocabulary, and 9.12 on comprehension. This is within the expected range based on the time the test was taken, immediately after or shortly before

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completing eighth grade.

- 2) On grader in the regional vocational-technical schools, students averaged slightly above what could be interpreted as a "C".
- 3) Attendance—At the time of data collection, which extended over four weeks in the middle of the second semester, the students were averaging 3.63 days absent and 1.04 times tardy. 40.9 per cent of the students had had no absences and 71.7 per cent had no tardinesses.
- 4) Consistency of trade choice—When students enrolled they were asked to make two occupational selections. Upon completion of the exploratory program they were asked to make three job choices. The study, however, concerned itself with only the first two of these three choices. The results show that there is a high consistency of occupational choice. Only 8 per cent of those occupations chosen the second time were different from either of those they chose on enrollment.
- e. A word about missing data-

Non-enrollees consistently had more data missing on almost all variables. This was generally randomly spread among the schools so it would not seriously influence the findings. But the significance may lie in the fact that if critical data is missing (data used for selection) it could adversely influence the selection decision, particularly if the information from the sending school was missing.

Other missing data also varies but at a lower level, in the

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order of 3-8 per cent with differences of 2-3 per cent between enrolled and non-enrolled. There was more missing data for the nonenrolled.

Table VI-A compares the two groups on data missing on variables based on data from the sending schools. No tests of significance were made. It is displayed here merely to indicate that a problem may exist.

Table VI-A

MISSING DATA

	Enrollees: N = 414 % Missing Data	Non-Enrollees: N = 44 % Missing Data	08 Diff. in %
IQ Test Scores	17.8	29•9	12.1
Achievement Test	21.9	30.1	8.2
Recommendation of Sending School	23.1	31.1	8.0
Personal Characteristic	s 17.6	19•8	2.2
Grades	11.3	20.6	9.3

Some of the regional vocational-technical schools have a pre-testing program requiring all applicants to take selected tests before they enroll. These testing programs vary so much from school to school that no meaningful data could be drawn from them. It was found, however, on the DAT Mechanical, that 156 enrolled students had taken the test, but only 40 non-enrollees had taken the test. We do not know to what extent the DAT Mechanical test was administered as a pre-entrance test. Some schools

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may administer it after students are enrolled, which would account for much of the difference. But this does give rise to the possibility that students who do not take the entrance test may reduce their chance of enrollment.

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Considering these and other problems, differences between enrolled students and non-enrolled students are not the sole result of the selection processes of the schools. First, 12.8 per cent of those admitted do not actually enroll. When substantial amounts of data are missing from the application forms, the schools cannot give an adequate evaluation. Finally, if students fail to appear for pre-enrollment testing, significant data needed for admission is missing.

Part of the problem of many students not being enrolled can be traced to the inadequacy of information from the sending school, as well as the failure of students themselves to appear for testing.

CONCLUSIONS

The students who are weeking enrollment in vocational-technical schools are, in general, students below or equal to the mean of all high school students on various variables (IQ and achievement test scores were slightly below the mean for all high school students; grades were at about the mean for all high school students; fathers' and mothers' socio-economic status at about average for society).

From the group of students who seek enrollment in Vocational Regional Technical Schools, the ones which might be termed the "better" students are enrolled. These "better" students more nearly strike the norm for the general population than the group of applicants.¹ This is not too clear since we have little definitive data about the whole minth grade population in Connecticut. What we can say with considerable assurance is that on a large number of variables, particularly those of school achievement, test scores. familial environment, and personality characteristics, the enrolled students score significantly higher than the non-enrolled students. Yet it appears that as compared with the total population, the enrolled students are not · "clite" as a group. Contrarily, they seem to represent a fairly normal distribution of high school student bedies. In some ways they represent some differences. For example, only 14.6 per cent go on to post-high school education, uhile for the state, while 41 per cent of high school students go on to a four-year college. 69.2 per cent of the 1970 high school centors in Connecticut high schools reported that they planned to go on to school.2

2 . Report of Task Force 1 to Connecticut Commission for Higher Education, 1971. 58

^{&#}x27;In a study comparing minth grade vocational students from Connecticut Neglonal Technical Schools to minth grade students of surrounding high schools, it was found that no difference existed between the two groups on fathers' socio-economic status or upon students' self-concepts.

Minfield, R.N., and Purvis, W.E., An Investigation of a Comparison of <u>Ninth Grade</u> Migh School Students and Vocational School Students on Self Concept and Family Bocio-Sconomic Status in Northeastern Connecticut, University of Connecticut, 1970.

The enrollment process, though varying from school to school, seems to recult in a rather consistent pattern of the better academic students being enrolled. It cannot be said that the results of this study can be generalized to every school. In all likelihood they can't. A comparative study of schools could show the degree to which each school varies from the norms established in this study. No effort had been made to do this, however.

An important observation about the data is that there appear to be positive relationships between variables. This is not unexpected. One would expect that students with high grades would have high achievement test scores. There would also be reason to believe that students with high achievement would be absent or tardy less frequently than lower achievement students, that they would be more highly recommended by the sending schools and be ranked on personality characteristics at higher levels than the lower achievers. Less expected, though, is that family characteristics would be so interrelated with success in school. The enrolled students came from homes where fathers and mothers had higher socio-economic status than the non-enrolled. Enrolled students were also more apt to come from smaller, more cohesive families than non-enrolled students (more cohesive in the fact that enrolled students were more likely to live with both parents than the non-enrolled).

This suggests that the admissions process creates a situation in which there is an unintentional discrimination against youth who live in environments where potentials of personal and social problems are high.

Prior to making any judgments about the clearly selective processes (only part of which is done by the school, numerous applicants select themselves "out" by not appearing-approximately 18 per cent-even though they were accepted for acmission), one must understand the mission of these schools.

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Unlike regular high schools regional vocational-technical schools have a much more definitive responsibility. That mission is to prepare students to enter into clearly defined occupations. Most of these occupations are fairly sophisticated and technical requiring workers of competence with average or better intellectual and performance capability. To maximize the fulfillment of that mission requires that entering students have the potential of fulfilling these criteria.

To argue that schools should change the admissions process and criteria to permit less talented students to enroll suggests not necessarily a change in mission, but that the schools modify their mission, providing for occupational training for less sophisticated, less technical jobs, thereby providing opportunities for the less talented students. This, then is a philocophical matter. Should the schools continue to fulfill their present miscion which requires a selective procedure, or should they modify their mission and serve a wider range of student needs? These are only two alternatives. There are undoubtedly others. One might be a change in operation, possibly eliminating the totally self-contained program and combining forces with the regular high school. Another might be limiting enrollment to eleventh and twelfth grades. Still another might be to increase the opportunities for untalented.

A further problem which was not within the framework of this study but is exemplified by other studies is the relatively high non-completion rate.² This problem also raise: questions about the admissions process, and the com-

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²Non-completion is not synonomous with dropout. It is presumed that most of these students return to a regular high school. Actual figures on non-completion are not available. We know that in 1971, 3169 ninth graders were admitted. That same year 2290 graduated, some of these being post-graduate students. If the enrollment had been relatively constant over the past four years there is a school-leaving rate of somewhere around 28 per cent.

bination of these two problems (enrollment of the more talented and the dropout rates) raises questions about the school's curriculum, atmosphere, extracurricular activities, as well as the admissions procedures themselves, or the expectations school and bureau personnel have for students. A high level of selectivity coupled with a relatively high rate of school leavers suggests that there are problems which need to be identified and studied.

It is relatively simple to search out negative factors about a school. It is also relatively easy to find benefits derived from the school's services.

The record of job placement as reported each year by the Bureau of Regional Vocational Technical Schools is indeed impressive.³ In addition, this study shows that the schools are serving Blacks, Spanish-speaking students, and females, at least in the same proportion as they seek enrollment. The schools have made strong efforts to attract Blacks and Spanish-speaking students. These efforts, however, have not resulted in a high percentage of these groups seeking enrollment.

³Fourteen and six-tenths per cent of the 1971 graduates went of to posthigh school, 6.6 per cent went into service, .07 per cent could not be employed due to health or other reasons, 4.8 per cent could not be found and 74.1 per cent were available for employment. Of the 74.1 per cent, 74.8 per cent were employed in the occupation for which they received instruction, or a closely related occupation, 18.2 per cent were employed in other occupations, 1.5 per cent were employed part time, and 6.6 per cent were unemployed. This was three months after graduation. Data is from <u>Graduate Follow-up: Statistical Data on Connecticut Students Completing Vocational Programs in 1971 (in press).</u>

The findings of this study do not cry out for quick change. They do indicate that changes might be considered. But before quick decisions are made, a good deal of more study needs to be done.

Recommendations for further study:

- Since the schools are providing an important service to the manpower of the state, a study should be made of whether they are serving the most important needs in Trades and Industry and perhaps some other non-industrial occupations as well.
- 2. More needs to be known about the students, those enrolled and those not enrolled and <u>those who do not seek enrollment</u>. Such questions as what are their aspirations, how well equipped are they to make occupational choices are two samples of information which could be of value in determining the future roles of the school.
- 3. A continuing study of the enrolled ninth graders, following them through school and onto the job, should reveal what activities or environment in the school are related to the relatively high leaving rate. What are the strong points of the school which result in successful completion on job placement?
- 4. An experimental research project which would permit typically non-enrolled students to enroll would help identify whether the present selective processes are really appropriate.
- 5. Because the school can serve less than half of those who apply, some experimental programs should be attempted which would serve the non-enrolled students. Such a project should have a research aspect built into it (some such programs are underway).

- 6. Since schools serve different occupational needs in different geographical locations, a continuing research program regarding students, curriculum, staff and manpower needs, ans as well as some other variables, should be established for each school.
- 7. A study of why non-Caucasians, females and students with special needs (in this case handicapped) do not seek enrollment in the schools needs to be made. Experimental recruitment programs might be tried.
- 8. If pre-enrollment testing is to be done by the schools, some devices need to be developed which will make it possible to study the influence of the tests on selection. This does not mean a
- ¹ uniform testing program needs to be initiated; rather, that a study be made of how influential this program is in the selective process, and its relationship to successful completion of the students. It should also be conducted so that every applicant has the chance to take the test.
- 9. Data from this study needs to be further analyzed to determine the interrelationships of variables, with the view of recommending selection procedures which will not unintentionally favor one group of students over another.
- 10. Since selection of students is not solely the province of the vocational-technical school's, a comparative analysis of the students who apply but change their minds with students rejected by the school would give more definitive information of the impact of the admissions processes on the nature of the student body.
APPENDIX A APPLICATION FORM

Division of Voca	tional Education			For Technical
APPLICATION FOR ADA	AISSION - D	AY COL	JRSE	School Use Only
Howell Cheney Regional Vocatio 791 W. Middle Turnpike Manchester, Connecticut 06040	nal-Technical S <u>ETHNIC C</u> CUBAN MEXICAI NEGRO	ichool BROUP N-AMER.	RACE WHITE BLACK AM. INDI	Trade Class Accepted Wolting List Deferred
PART I (To be Printed IN INK by the APPL	ICANT)		י זגידר	
Name (Lest) (First) Address Town	(Middie)	In what o	wish to learn ther trade are you	a interested
Present School	•••••	Date of b	with	• • • • • • • • • • • • • • • • • • • •
GradeTown	•••••	Hobbies .	••••••	•••••••••••••••••••••••••••••••••••••••
lí not in school:	•	•••••••••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Highest grade completed School	••••••	Number of Number of	brothers (older)	(younges)
Town		Mart livin	g with parents, w	ith whom are you living
Date left	• • • • • • • • • • • • • • • • • • •	Name	• • • • • • • • • • • • • • • • • • • •	•••••••••••••••••••••••••••••••••••••••
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Form VT SO-Rev '65

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PART II (To be completed IN INK by parents or guardian with whom applicant lives)

CONNECTICITY CRITE DEDIMENTE ON THIS

Within the limits of its training facilities, the school accepts applicants who show promise of being able to do the work and to complete the vocational education program. The data requested on this form, together with the test which the applicant may be asked to take, will provide the information needed to act on this application.

I approve this application and agree to encourage punctuality and regular attendance.

FR

I agree to permit the required physical examination which may include blood and tuberculosis tests and vaccination against small-pox.

I understand that the school assumes no responsibility for accidental injury suffered by a student at any time. Student Accident Insurance is available through the school.

I understand that each student is to have shop and gym clothing as prescribed and to have by a specified time certain tools as listed for his trade. Such items are the personal property of the student and are taken with him when he leaves school.

Signature	Relationship
Kind of work	Employer
Signature	Relationship
Kind of work	Employer

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PART III (To he filled in by sending school)

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The information below will assist us in making tentative acceptance. A record of final marks will be requested at the end of the school year for those accepted.

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Intelligence Tests Achievement Test Date AREA 	Total G Gree Equinational Control of the second	rade Ex rde IV.	Dat		Percentile	Orade Equiv.	Effort Bebavior Responsibility Punctuality Cooperation TRANSCRIPT Subject	ACHIEVED		RECO	RD forking finel	Peric grade	tage	Unsatis jactory
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APPENDIX B

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DATA COLLECTION FORM

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30DE	ITEM	<u>COL</u> #	
ECK	Deck	1	
(DNC)	Stud.#	2-5	
ESCH	Tech.School	6,7	
EX	Sex 1. mele 2. female	8	
TATS	Status 1. admitted 2. not admitted	9	
PDAT	Application-date rec'd. <u>mo.</u> <u>yr</u> .	10-13	
ACE	Race 1. black 2. Puerto Rican 3. Caucasian	14	
	· blank	15	
.Ome	Town(res.) zip code	15-20	
NDSC.	Sending School	21-25	
RADE	Crade at applic.	26	
NSCH	Town of school	27-31	
RDCP	Last Comp. grade	32	
EASL	Reason for Leaving	33,34	L_L_I.
RADI	Trade(1st choice)	35,36	L'II
RAD2	Trade(2nd choice)	37,38	Ĺ
	blank	39,40	LL
THPL	Birthplace (zip code)	41-45	
IRDA	Birthdate	46-51	
38Y1	Hobby 1 1.model bldg	52-54	
05 Y2	Hobby 2 3. electricity		
0 8¥3	Hobby 3 5. music		
LDBR	No. of older brothers	55	
LDSR	No. of older sisters	56	
NGOR	No. of younger brothers	57	
NGSR	No. of younger sisters	58	

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	Stud.	2
LIVW	Living with whom? 1. parents 5. m.&stepfath. 59,60 2. mother only 6. f.&stepmoth. 3. father only 7. guardian 4. grandparents 8. sdopted	
FATOC	Fether's occupation61,65	
FATEN	Father's employer66,67	
MOTOC	Mother's occupation68-72	
motèm	Mother's amplayer73,74	
HONOT	Home environment not typical75	
•	Intelligence Test Name Date Grade IQ	
		•,
IQTNA	Name of IQ test8-12	
IQDMO	Date of test (month)13,14	
IQDYR	Date of test (year)15,16	
TQGRD	Grade IQ test taken in17	
IQSCR	10 score18-20	
ACNAM	Achievement test name21-25	11111
ACCRD	Grade achievement test taken in 26	
ACDMO	Date of test (month) 27.28	
ACDYR	Date of test (year) 29.30	
ACTGE	Total grade equivalent 31,32	

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Student;		•	• •
GRAPT Grade(s) repeated		53	 / ·
PHSHA Physical handicaps 1. E	yesight 2. Heering	3. Limbe	
4. Other	•	54	L!
ENVIA Environmental factors		55, 56	hand
		······	
CHARA Personal characteristic	•	57-61	
Effort 5. Sup Behavior 4. Abo Responsibility 3. Ave Punctuality 2. Bel Cooperation 1. Uns	prior ve everege rage pw everege atisfactory		
Achievement Records - Se	anding School		
GRADE Grade	• •	· 62	<u> </u>
READ Reading		. 63	<u>.</u>
ENG English (Language arts)	and and a state of the state of	·? 64	
SPELL Spelling		65	
SCI Science .	· ••••••••••••••	·66	
MATH Math (Arithmetic)	••••••••••••••••••••••••••••••••••••••	67	
SS Social Studies (History)	· ····································	68 `	
GED Geography		69	
MUSIC Music		70	
ART Art		71	L. *
IA Industrial Arts		72	
PHYED Physical Education		- 73	L_/
		74	Lund
		74 75	

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Student	#		
DAYAB	Deve absent	77,78	
TTRDY	Times tardy	79,60	
LPCR	Lowest pessing grade		
			•
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TYPPR	Type of program 1. General 2. College 3.		
RCC55	Recommendations of sending school 1. highly 2. qualified 5. not recommend	9.	Ľ
	Commonts:	 .	
ENTGR	Entered at grade 9, 10, 11, 12	10	
ENTMO	Date entered (month)	11,12	4.4.1
ENTDA ENTYR	Day of entry Year of entry	15,14	
LEFMO	Date left (month)	17,18	4-4-1,
LEFYR	Year of leeving	21,22	
PEASL	Resson for leaving	23,24	
•	61ank	25	
ENTEN	Entrance test name	26	L/,
DE TMD	bate of entrance test (mo.)(ý	7=)27,28	
D/ TYR		29,30	
PARAM	Paragraph meaning	\$ 31,32	
ARTHM	Arithmetic comprehension	\$ 33,34	
ENTET.	Entrance test name		
DENMY	Date of entrance test (mo.)(y	r.)	
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Minth Grade Marks - 9/71 to 3/72

Trade_____ TRADE 35 L S Trade performance TPER 36 • · ____ TATT 87 Trade attitude .. 38 TTPER Trade theory L_I. TTATT 39 L./ **MPER** 40 Neth L • • 41 MATT Ľ 42 SPER Science Έ. 43 SATT 44 EPER English EATT 45 Social Studies 46 SSPER <u>....</u> SSATT 47 48 BRPER Blueprint reading_ 49 BRATT <u>f....</u> PEPER 50 Phys. ed. L 51 PEATT 52 EExtra L__/ 53 Extra <u>___</u> 54,55 DYABS Days absent TTRDY 56,57 Times terdy HNRR Honor roll Try Trade choice after exploration Lind TCAE1 5**6,**54 L_' TCAE2 :59 RFTCC Reason for trade choice change 60,61

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:GRD .Counseling record .

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Parent conferences

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Activities and Awards

GLIN General information

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APPINDIX C

CUMULATIVE RECORD FORM

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GENERAL INICRA.ION ACTIVITIES AND AWARDS i CATE i ł COULNELING RECORD i i ------.ļ . . -----**İ** ; 1 1 1 1 1 • : : • ••••• i i 1 , *.*.. ...

CULHULATIVE RECORD

(PART I)

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CUMMULATIVE RECORD

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