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EVALUATION OF NJROTC INFLUENCE ON NAVY ACCESSIONS

W. Thomas Callahan, et al

Operations Research, Incorporated

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Navy Personnel Research and Development Center

30 September 1973

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OPERATIONS RESEARCH, Inc.

SILVER SPRING, MARYLAND

EVALUATION OF NJROTC INFLUENCE ON NAVY ACCESSIONS

30 September 1973



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Prepared under ONR Contract No. N00014-73-C-0422 for the Navy Personnel Research and Development Center, San Diego, California

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Members of the ORI staff who completed the project were Michael W. Brown, W. Thomas Callahan and Oedies W. Davis. Thomas N. "yle of ORI was senior technical advisor to the study.

SUMMARY

BACKGROUND

The Naval Junior Reserve Officers Training Corps is a program for senior high school students which attempts to promote orderliness, precision, respect for authority, patriotism, personal honor, self-reliance, self-discipline and leadership. The program also provides a means for students to become better informed on national security affairs and the role of the U.S. Navy in the national defense. Neither the legislation establishing NJROTC nor any of the program documentation mentioned recruiting as an objective of NJROTC. Reports of enlistments, however, indicated that a positive relationship between NJROTC and Navy recruitment apparently did exist.

PURPOSE

The objectives of this study were to verify and explain the apparent positive relationship between NJROTC and enlistment, and to develop a plan for a more extensive evaluation of NJROTC.

FINDINGS AND RECOMMENDATIONS

The apparent positive relationship between NJROTC and enlistment was not verified. NJROTC units were located in 91 ZIP Code areas in the

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school year 1971-1972. In only 13 of those areas was the NJROTC-related percentage of total enlistments higher than the NJROTC-related percentage of total students. In 66 areas, the NJROTC-related percentage of total enlistments was lower than the NJROTC-related percentage of total students. In 22 of these 66 areas, the NJROTC-related percentage of enlistments was zero. No useful estimate could be made for 12 of the 91 ZIP Code areas.

Based on a review of NJROTC files and interviews with a small number of NJROTC instructors and students, additional tentative conclusions can be drawn. NJROTC units appear to vary greatly; they appear to be fully integrated with the overall pattern of courses in the schools that offer them; they appear to be subject to the same community pressures that other voluntary courses and activities suffer; NJROTC instructors appear to be sensitive to the total school program and to community trends and adopt their programs accordingly.

Although the NJROTC instructors interviewed did report that they would be pleased if students entered the Navy, and one actively assisted and supported the processes of enlistment, all appeared to be oriented to the needs of the individual student, <u>not</u> to the needs of the Navy. Such an orientation does not, in ORI's opinion, reflect an interest in "recruiting" as that word is usually construed.

The N)RO1C program is heavily concentrated in eleven southern states, which have about 25% of the total U.S. population and about 56% of all NJROTC units (1971-1972 school year).

Less than 30% of NJROTC units are located within 25 miles of a raval installation.

Of the schools that have NJROTC units, about 61% are urban. 20% suburban and 17% rural.

Only 7 4% of NJROTC units are found in schools which are college preparatory only. Over 86% of NJROTC units are found in comprehensive high schools that offer a variety of college preparatory, vocational and general courses. For the remaining 6.4%, no data reflecting their type were available.

During the 1971-1972 school year, about 17% of schools which have NJROTC units had predominantly or significantly black enrollments. About 2% had predominantly Mexican-American or American Indian enrollments, and the remainder, 1%, had predominantly white enrollments.

The average number, per school, of 1972 graduates who had completed one or more years of NJROTC was approxir taly 19.

Comparison of enrollments in NJROTC units that were one, two, three, four and live years old did not short conclusively that enrollment increases as the age of the unit increases.

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I. BACKGROUND AND PURPOSE

THE NJROTC PROGRAM

The Naval Junior Reserve Officers Training Corps NJROTC was established by Public Law 88-647, "Reserve Officers' Training Corps Vitalization Act of 1964," dated 13 October 1964. It is a program for senior high school students, and attempts to achieve the following objectives:

> To promote habits of orderliness and precision and to develop respect for constituted authority

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- To promote patrictism
- To develop a high degree of personal honor, selfreliance, individual discipline and leadership
- To provide a means for students to become better informed citizens on matters of national security and to develop a knowledge and an appreciation of the U.S. Navy's role in the national defense structure.

Those objectives are important for this study because they omit, intentionally, the subject of recruiting from the mandate of the NJROTC program.

That is, NJROTC was designed in the legislation and implemented by the Navy and participating schools as an integral part of the educational and overall personal development of its participants. Nothing was found in NJROTC plans or program documents to suggest that NJROTC is criented to recruiting persons to the Navy, although increased awareness of the Navy is clearly intended. $\frac{1}{}$

Several aspects of the NJROTC program actually guard against the use of an NJROTC program in a school as a vehicle for recruiting. First, the program parallels the college NROTC program and focuses primarily on the concerns of officers, not of enlisted personnel. Second, the Naval Science Instructors (NSI) and Assistant Naval Science Instructors (ANSI), although they are Navy retirees, are employed by the local school systems and are hired and supervised, not by the Navy, but by their respective school principals. Third, local Navy recruiters do not visit NJROTC units except with the approval of the NSI. Since the NSI is the employer of the school, the presumption is that the ASI would not allow a visit by a recruiter if he had not obtained the approval of the principal.

In 1963, the Department of Defense advocated the discontinuation of all JROTC programs specifically because they did not appear to encourage participants to obtain commissions or to enter enlisted ranks. Because of strong Congressional opposition, JROTC was retained and JROTC units were established for the Navy, Air Force and Marines. This had the effect of expanding the authorization for JROTC from 255 units, all operated by the Department of the Army, to 1200 units shared among the four services.

Thus, the absence of recruiting as an objective in the current obtained legislation is partially the result of Congressional reaction to an Executive Branch attempt to discontinue JROTC. P.L. 88-647 essentially says that the value of JROTC cannot be estimated from a count of enlistees or newly commissioned offices because recruiting is not the goal established for the program by the founding legislation.

Despite the apparent separation of NJROTC operations from recruiting efforts, data collected in FY 1973 by the Bureau of Naval Personnel and the Navy Recruiting Command suggested that the presence of NJROTC programs and the JROTC programs of the other service branches may have a heavy influence on Navy enlistments.

If a high percentage of Navy enlistments were coming from NJROTC schools, NJROTC administrators would be required to raise important questions. Why was this occurring? Were NJROTC instructors actually acting as recruiters? Were the schools that housed NJROTC programs coincidentally located in regions where enlistment is common, even without NJROTC. Did NJROTC enlistees come primarily from cities where naval installations are located? Did these enlistees come from families with a history of naval service? Did they intend to enlist in the Navy even before they were exposed to the NJROTC experience? Other questions concerning NJROTC as a program for developing human resources were also raised. If so many NJROTC students were enlisting, did this mean that NJROTC had dissuaded them from seeking a higher education which may have prepared them for service as an officer? Did the NJROTC experience, a less rigorous than actual Navy or Naval Academy training, mislead students and, thus, adversely affect their performance in the Academy or in the Navy? Or, rather, is there any evidence that NJROTC experience provided preparation for excellence in academic and military endeavor? PURPCSE OF THE STUDY

ORI contracted with the Naval Personnel Research and Development Laboratory to: (1) conduct a preliminary evaluation to verify and explain the relationships between NJRCTC experience and Navy enlistment; and (2) develop a plan for a more complete evaluation that could be undertaken if necessary and desirable. Such a complete evaluation would reflect NJROTC influence not

only on accessions but on NJROTC participants' and non-participants' knowledge of and attitudes toward the Navy, on NJROTC participants <u>performance</u> in the Navy, and on retention of NJROTC participants in the Navy beyond the first term of service.

II. DATA COLLECTION PROCEDURES

REVIEW OF NJROTC BACKGROUND INFORMATION

Although ORI staff had some basic knowledge of NJROTC, the necessary first step of this study was to achieve a more complète understanding of the NJROTC program. ORI reviewed five types of basic information concerning the program.

> A large folder, entitled, "Reference Material for Members of the Ad Hoc Committee Charged with Reviewing the Junior Division ROTC and the National Defense Cadet Corps Programs." This folder was prepared in 1963 and contained voluminous backup material and historical documents that preceded the introduction of H.R. 9124 in 1963 (which became P.L. 88-647 of 1964.) the legiclation which established NJROTC as it now exists.

This historical material demonstrates the constancy of the armed services concern with JROTC, and the parallel, although slightly different interest, of legislation in sustaining and fostering patriotism, respect for authority and sensitivity to national defense requirements. The memoranda, letters, speeches and reports from the pre - 1964 period also show that the same research questions faced by ORI in 1973 were under discussion in 1963.

"Naval Junior Reserve Officers Training Corps (NJROTC) Fact Sheet," dated 1 Augusted 1972. This is a brochure which school atnistrators use in considering the implementation of an NJROTC program. It supplies a complete description of the history and development of the program; its aims and objectives; Navy support for and supervision of the program; selection criteria for schools which apply; the program curriculum; the amount of and administration of instructor pay; classroom and supply room space requirements; NJROTC unit equipment authorizations; NJROTC uniform authorizations (per enrollee) and answers to most frequently asked questions about NJROTC.

The importance of the Fact Sheet for the purposes of this study can be summarized as follows: (1) It is a relatively complete statement of the restrictions which the Navy places on the program and operation of any NJROTC unit. Its brevity and generality allow for considerable variation in NJROTC instructors, their goals and attitudes, and additional variations in the ways that schools can administer, sustain or foster their NJROTC units. (2) It provides a full explanation of the administrative relationship between the school

systems and the Navy. (3) It does not mention recruiting at all, nor does it refer to the NJROTC as a means of attracting students to the Navy.

- Various address lists, telephone lists and other information pertinent to individuals involved with NJROTC.
- Monthly tabulations (July 1, 1972 to January 1, 1973) of the number of Navy enlistees who had (or had not) attended high schools housing JROTC units of each of the service branches. The source of these tabulations is the enlistment contract, which when completed by Navy personnel at the Armed Forces Enlistment Centers (AFEC's), includes a code indicating the type of JROTC unit, if any, that was present at each enlistee's high school and if the enlistee participated in an JROTC program.

REVIEW OF NJROTC PROGRAM INFORMATION

NJROTC, like many other public programs, has never been the subject of a systematic data collection and updating effort that would provide an easily accessible information base sufficient for evaluation. As anticipated, before the present study began, the only available program information is in the NJROTC files (Chief of Naval Training, Code N-122, Pensacola, Florida). This information consists of: (1) school application sheets, filed at the time the school requested a NJROTC unit; (2) annual inspection sheets on the NJROTC units; and (3) miscellaneous materials, including correspondence, newspaper clippings, school catalogs and military ceremony announcements. ORI staff determined that the school application sheets were the only available source of data on the schools, and that the inspection sheets were the only available source of information on the NJROTC units.

Files on 172 high schools were manually searched. Of these, 46 were eliminated because they were from schools that provided NJROTC for the first time in September of 1972, and thus could have had virtually no effect on accessions during 1972. Of the remaining 126 schools, 95 had complete or nearly complete files which included both school applications and program inspection sheets; 18 had program inspection s eets, but no school application sheets; six had school applications but no inspection sheets. The remaining seven files, the last seven in the alphabetical file, were included in the inspection sheet search. These were excluded, because of ORI staff error, from the school application search.

In order to test the reliability of the data on the application and inspection sheets, and to fill in gaps in the data collected, questionnaires (Appendix A) were mailed to 68 schools requesting data that was identical to that found on the school application and unit inspection sheets. Within one month subsequent to the date of questionnaire mailing (May 4, 1973), 41 responses were received. Of these 41 responses, 18 were from schools that had NJROFC units before 1972; thus, the total number of schools with complete data was increased from 95 to 113. Certain tabulations were made on the original 95 schools, and time did not permit a repetition of the tabulations with 113 schools as a base.

Quality of the Data

Based upon an analysis of 22 of the 41 schools for which there were both questionnaire data and school application (file) data, it can be concluded that the file data may not, in all cases, reflect the <u>current</u> conditions of the schools. For example, one data element on both the in-file application and the questionnaire was "Male enrollment - Grades 10-12." The average male enrollment of the 22 schools, as indicated on the applications submitted between 1966 and 1971 was 554. Based on responses to the questionnaires, the average male enrollment in the school year 1971-1972 was 480.

The quality of the data is also corrupted, to some extent, by the form of the application itself. (The form of the mail-out questionnaire was exactly the same.) Successive questions on the form were:

- (1) Percuntage of recent graduates entering college
- (2) Percentage of recent graduates furthering their education.

ORI, s'aff could find no instructions interpreting question (2). Thus, if the person filling out the form interpreted (2) literally, he would conclude that "furthering their education" would apply to all graduates who went on for more schooling, including the percentage recorded in (1). Thus, the answer to (2) would always be equal to or greater than the answer to (1). ORI staff Found, however, that this was not always the case. Answers to (2) were sometimes of lower value than those to question (1). ORI staff concluded that some applicants interpreted (2) to mean:

"Percentage of recent graduates furthering their education,

other than by entering college."

> On that basis, ORI determined that the data provided in response to (2) was unreliable, and that responses to question (1) were the only useable data that would reflect the tendency of a school to prepare students for further education.

It must be concluded that even for merely descriptive purposes, some of the file data are only partially reliable. It was clear from the quality of the file data and from personal conversation with NJROTC personnel that the program management function has historically had two goals:

(1) Administrative support for the initiation of new NIROTC units.

(2) Administrative and logistical support for existing units. Systematic data collection to support full-scale evaluation of the NJROTC program has not been an objective, and the current size of the NJROTC staff would probably not allow for adoption of statistical evaluation as a program task. The function that is most clearly related to evaluation is the annual unit inspection. These inspections suffice for individual school unit review and for overall performance evaluations, but do not provide enough data for in-depth analysis of the relationship of NJROTC to variables affecting Navy enlistment, Navy knowledge and/or Navy performance.

Data Obtained From the Files:

The data on each NJROTC - affiliated school which ORI staff collected from the application files were the following:

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- Name and location
- Type of community served (rural, urban, suburban)
- Male enrollment
- Number of classroom teachers
- Pupil to teacher ratio
- Percent of recent graduates entering college
- Percent of recent graduates furthering their education
- Number of courses in total curriculum (noting the presence or absence of business and technical courses)
- Percent of faculty that is male
- Number of faculty that are former service persons.

From the yearly inspection sheets, school year 1971 to 1972, the following data were ollected:

- Number of NJROTC program participants, grades 10 to 12, as of the date of the inspection
- Number of 1972 graduates who had some experience in theNJROTC program (one, two, or three years)
- Number of 1972 graduates who were certified, or were to be certified, as having completed the full three year NTROTC program successfully

- Number of 1972 NJROTC graduated who entered, or were to enter, the U.S. Naval Academy
- Number of 1972 NJROTC graduates who entered, or were to enter, the academy of either the U.S. Army, the U.S. Air Force or the U.S. Coast Guard
- Unit racial composition (percentages of total unit enrollment by American Indian, Caucasian, Mexican American, Negro and other).

The NJROTC program staff in Pensacola also provided lists of schools that had significant (30% to 49%) and predominant (50% or greater) Negro enrollments.

File Data Findings

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As described in Appendix B, the NJROTC program information on 95 of 126 schools provides the basis of the following findings:

- The NJROTC program is heavily concentrated in eleven southern states, which have about 25% of the total U.S. population and about 56% of all NJROTC units (1971-1972 school year).
- Less than 30% of NJROTC units are located within 25 miles of a naval installation.
- Of the schools that have NJROTC units, about C1% are urban, 20% suburban and 17% reral.
- Only 7.4% of NJROTC units are found in schools which are college preparatory only. Over 86% of NJROTC units are found in comprehensive high schools that offer a variety of college preparatory, vocational and general courses.
 For the remaining 6.4%, no data reflecting their type was available.

- During the 1971-1972 school year, about 17% of schools which have NJROTC units had predominantly or significantly black enrollments. About 2% had predominantly Mexican-American or American Indian enrollments, and the remainder, 81%, had predominantly white enrollments.
- The average number of 1972 graduates per school who had completed one or more years of NJROTC was approximately 19.
- Comparison of enrollments in NJROTC units that were one, two, three, four and five years old did not show conclusively that enrollment increases as the age of the unit increases.

SITE VISITS

CRI conducted site visits to four NJROTC units in the Pensacola, Florida area. The purpose of these visits was to interview NSI's and, if possible, students, to achieve some familiarity with the practical realities of NJROTC unit operations, and to obtain first-hand observations of NJROTC units' accomplishments, needs, and shortcomings. Interview outlines were prepared for the site visits and are found in Appendix C.

The sites visited were not intended to comprise a statistically valid sample. The information obtained from them should not be generalized to NJROTC units in other geographic areas, or to the national NJROTC program. The four site visits, however, do illustrate that NJROTC units vary greatly for a number of reasons, even though their basic texts, syllabi and objectives are very similar.

Attitudes Toward NJROTC

It was found that all four NSI's interviewed considered the NJROTC programs to be generally well accepted in the surrounding community, and, generally well accepted by school officials. ORI's search of the NJROTC files confirmed this opinion for virtually all programs nationwide.

NSI's and NJROTC program administrations cited several reasons why school administrators may favor NJROTC. The units represent the school to the community, not only in parades and drill exhibitions, but in a variety of public service and charitable efforts. It is also believed that NJROTC may stimulate learning in other subjects or provide a context in which otherwise disaffected students find enough educational interest to encourage them so complete high school. In this way, MJRCTC may improve student graduation rates. The NJROTC syllabus itself allows for a field trip to a naval installation. Educators understand that this field trip itself is a form of educational enrichment, especially for certain students that otherwise might be confined to their local communities.

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The NSI's reported that students not participating in NJROTC treated the NJROTC unit either passively or with verbal scorn. They reported no active hostility toward their units or property. The ORI staff file search turned up only a small number of units that have suffered significant vandalism or theit. <u>ระสังใญให้ผู้สืบให้ส่วนจะเพรียว่า สารระบว</u>ะทับ เร่า "สารัย"

Two NSI's visited did report, however, that their NJROTC units declined in enrollment because of racial tension in the school community overall. In each case, whites and blacks dropped out of NJROTC, reportedly in an effort to avoid voluntary contact with a large number of persons of the other group who were entering the school as the result of specific desegregation actions. This is an important finding. It demonstrates the extent to which each NJROTC unit is controlled by the social environment of the community in which it operates. Declines or growths in a voluntary school program like NJROTC probably result from many factors over which NSI's have little control. Furthermore, enrollment figures may be affected by events which have only temporary influence. As a political controversy over desegregation may dissipate over time, for example, reluctance to join NJROTC may also tend to decline. The small number (13) of students interviewed reported that their classmates who do not participate in the NJRÖTC program generally tolerate the program, but that a small number heap verbal abuse upon it at times. Male NJROTC students expressed the opinion that girls admired their uniforms and that some non-NJROTC male students envied the NJROTC unit. Some NJROTC students reported that epitnets had been hurled at them. For example, because of their NJROTC participation they had been referred to as "liberals" or "commie freaks." ORI staff probed to see if the students could explain the choice of these specific epithets. The students could not, nor could the NSI.

NSI's Objectives for NJROTC

The NSI's interviewed each reported their basic objective was to develop characteristics of leadership, self-reliance, and self-respect. The promotion of patriotism and imparting an appreciation of the U.S. Navy role in the national defense were somewhat lesser emphasized. One NSI added that he saw his most important function as teaching his students to solve problems of all kinds. Students s_{--} they thought the most important benefits of NJROTC to them were development of leadership ability and responsibility. Some were seeking information about the Navy with hope of securing employment in the Navy or educational opportunities in the Naval Academy or in Naval Reserve Officer Training Corps (NROTC) programs at the college level. A smaller number said they valued the self-discipline, self-confidence and selfrespect that the program seemed to help them develop.

Recruiting Generally Not an Objective

Three of the four NSI's stated that they did not see Navy recruiting as an objective of their NJROTC program. They indicated however, that entry of their graduates into the Navy would make them feel that their program was a success, or that it would please them.

One NSI was devoted to helping his NJROIC students enlist in the Navy or secure U.S. Naval Academy appointment, NROTC scholarships, or to enlist in another armed sorvice branch. As far as ORI staff could determine, this NSI was molivated primarily by his desire to help his students achieve the training, employment, education and other experiences that he knew the Navy could provide. His view of the Navy was that it was the best career development experience that many of the local NJROTC students were likely to achieve, given their economic and social situation. new rith half trainfiller

Sources of Information About NIROTC

NSI's believed that most of their students learned about the NJROTC program from peers, and during briefings given at assemblies of ninth graders or of eighth graders in feeder schools.

Students said that their friends and the school assemblies stimulated their interest in NIROTC. Thus, they confirmed the opinions of the NSI's on this subject.

Reasons for Joining NJROTC

The NSI's believed that most students joined the program to be with friends, to satisfy Navy parents, to earn credits for graduation, and to seek Navy service or Navy college education opportunities.

Students reported that their reasons for joining the program initially were to examine the opportunities for Navy employment, to face a challenge or satisfy curiosity, to satisfy their parents, or to advance overall learning goals.

Reasons Why Students Drop Out of NJROTC

NSI's believed that the primary reasons that students drop out of NJROTC were immaturity or lack of self-discipline, withdrawal from school, and parental pressure.

Students expressed the opinion that students who dropped out tended to have a poor understanding of the program when they entered. Others left because they became apametic or unwilling to comply with the program dress code or with "orders".

For the four schools visited, the average attrition rate was 13.2% per year.

Implications of Site Visits

The four site visits suggest that NJROTC units vary greatly; that they are fully integrated with the overall pattern of courses in the schools which offer them; that they are subject, furthermore, to the same community pressures that other voluntary courses and activities suffer; that Naval Science Instructors and Assistant Naval Science Instructors appear to be sensitive to the total school program and to community trends, and adapt their programs and attitudes accordingly. The result is that the only common aspect among the units observed seems to be the curriculum itself.

All of these observations lead to the conclusion that NJROTC is an educational program that conforms with the needs of individual schools. Although the NSI's who were interviewed did report that they would be pleased if students entered the Navy, and one actively assisted and supported the processes of enlistment, all appeared to be oriented to the needs of the individual student, not to the needs of the Navy. None of the NSI's, including the one who thought that the Navy was an excellent opportunity for students' career development, ever mentioned the manpower needs of the Navy in connection with NJROTC. All seemed to focus on the personal development of students, which seems to reflect a self-perception of educator, not of recruiter.

At the same time, each of the retired naval personnel appeared to be proud of his naval experience, and presumably exhibited this pride to his students. It is possible that personal attitudes of this kind may have some influence on enlistment in the Navy, in the same sense that a mathematics teacher who is devoted to his subject may stimulate some of his students to become mathematicians. This phenomenon, if it occurs, does not, in ORI's opinion, equate with "recruiting," as that word is usually construed.

REVIEW OF NAVY ENLISTMENT DATA

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The Recruiting Data Systems of the Navy Recruiting Command provided ORI with a magnetic tape containing Bureau of Naval Personnel on each firstterm Navy enlistee who entered the Navy during the period 1 July 1972, through 31 December 1972. The data provided were recorded from the enlistment contracts or from codes entered on the enlistment contracts. The data on each enlistment contract provided, as requested by ORI, were the following: يا الموركة الإيراق المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع الم

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- Years of education
- Term of enlistment
- Number of enlistments
- Sex of enlistee
- Race of enlistee
- Ethnic Group of enlistee
- Religion of enlistee
- Type of enlistment
- Special program code
- Test score group

Zip code of residence of enlistee

• JROTC code.

Review of the data provided to ORI showed that a number of unreadable characters were found in the data field reflecting the JROTC code. The Recruiting Data System invistigated these unreadable codes and advised ORI that the data for the month of July, as regards JROTC, were not usable and that these data accounted for the unreadable codes. From that point on, ORI utilized data from only 48,034 of the 60,655 records that had originally been provided. ORI could find no means of determining any JROTC background of the 12,522 enlistees whose records were not utilized, nor was there any way for ORI to completely purge all July data from the file. Thus, it is known that all data reflecting August 1972 through December 1972 enlistments are included, and that some data from July 1972 enlistments are also included. 「ないたい」というないないないないないないないない。

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According to the Recruiting Data System, the period August through December includes months in which a very large number of persons enlist (August and September,) and months when a much smaller number enlist (November and December). The months with the lowest number of enlistments are not included. ORI staff judged that no further data were required since an analysis of any seasonal variation in NJROTC enlistments was not intended or anticipated. It should be noted, however, that the Recruiting Data System would have provided as many as 10 months of data if ORI had requested them,

REVIEW OF NAVY INSTALLATION DATA

One of the questions of interest in the study effort was whether or not NJROTC--related enlistments in the Navy were also related to the proximity to the NJROTC unit of major navy installations. This question focused on the possibility that young people who lived in a community in which Navy influence was great could be more inclined to enlist in the Navy than those who lived elsewhere.

ORI determined that it was not possible to designate the areas of the country where Navy influence is very great, except in a small number of obvious cases, such as Norfolk, San Diego, Pensacola, Corpus Christi, Memphis, Orlando and, perhaps a few others. Thus, ORI resorted to simply defining a locality with major Navy influence as one in which more than 1,000 uniformed Navy personnel are employed. Examination of the Bureau of Naval Personnel, Manpower and Personnel Management Information System (MAPMIS) Report of On-Board Count, dated March 1973, showed that there were 56 such areas in 25 states and the District of Columbia. These are listed in Appendix C.

REVIEW OF NATIONAL SCHOOL DATA

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In order to attempt to compare the enlistment rate of young people with NJROTC-related experience with the enlistment rate of young people in general in a given area, ORI attempted to calculate the total number of secondary school students in a given ZIP Code area, as well as the total number of students who attended NJROTC schools in that area. The only available printed source of the data required for such computations was a series of directories produced by the National Center for Educational Statistics (NCES) $\frac{1}{2}$.

U.S. Department of Health Education and Welfare, National Center for Educational Statistics, <u>Directory, Public Elementary and Secondary Day</u> <u>Schools</u>, <u>1968-1969</u>, by Diane B. Gertler, Washington, D. C., U.S. Government Printing Office, 1970.

- Volume I: North Atlantic Region
- Volume II: Great Lakes and Plains Region
- Volume III: Southeast Region
- Volume IV: West and Southwest Region and Outlying Areas
- Volume V: Nonpublic Elementary and Secondary Day Schools.

The data included in these directories reflec. enrollments in schools during the school year 1968-1969. Thus, they do not accurately reflect the enrollments of schools during more recent periods. Diane B. Gertler, the author of the directories, confirmed to ORI that the directories are outdated, that enrollments nationwide were generally lower in 1972 than in 1969, but that variations within that generalization could not be estimated with any reliability except by large-scale analyses of certain NCES magnetic data tapes. ORI determined that such an analysis was not justified within the resource constraints of the present study.

ORI decided to accept the data included in the directories, regardless of their known, but undefined, inadequacies. Accordingly, ORI used the data to calculate the total number of secondary students in 91 3-digit ZIP Code areas, as well as the total number, in the same areas, who attended schools with NJROTC programs. This calculation led to discovery of additional limitations in the data.

> Schools which taught students in grades 10, 11 and 12 (the grades of the NJROTC program) were listed in several different ways: 7-12, 7-PG (Post-Graduate) 8-12, 8-PG, 9-12, 9-PG, 10-12, 10-PG. Such variations occurred both between and within ZIP Code areas, and no way was discovered to standardize the estimates to include the same number of grades. Thus, ORI's calculation of the total number of high school students in a ZIP Code area or in NJROTC schools is really a calculation of students in all schools that had grades 10, 11 and 12, (ven though some schools had as many as four grades more than others.

 Some schools were specifically identified as being intended for the teaching of persons who are not

eligible for Navy service, such as the deaf, the blind, the crippled or the retarded. The possibility exists, however, that some schools intended for these persons were not designated as such by their title. ORI excluded only those that were specifically so designated.

Limitations in the school data also resulted in the elimination of 10 ZIP Code areas from the original list of 91. This was done because schools identified as having NJROTC programs in those areas

 (a) did not exist in 1958–1969, or (b) existed in 1968–1969 but were junior high schools at that time.

• Two additional ZIP Code areas were eliminated because the only NJROTC schools in those areas were private schools specifically designed to encourage students to career plans other than Navy entry immediately after high school.

III. PRELIMINARY ASSESSMENT OF NJROTC INFLUENCE ON NAVY ACCESSIONS

ORI believed that a positive relationship of NJROTC on Navy accessions could be shown only if, in a given time period and in a given area, persons with NJROTC experience or NJROTC-related experience comprised a percentage of total Navy enlistments from that area that was larger than the percentage of the NJROTC-related students in that area.

In this study, NJROTC experience is defined as self-reported completion of one or more years of the NJROTC course of instruction as indicated on Enlistment Contract (Form DD-4). NJROTC=related experience is defined as selfreported atiendance at a school with an NJROTC unit as indicated on the Form DD-4. Thus, persons with NJROTC-related experience include persons with NJROTC experience.

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As described above, 1968-1969 school enrollment data were used as an estimate of the number of students with NJROTC-related experience, as follows:

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•	Number of Secondary Students	13,722,000 <u>1</u> /
	Nationwide (1968–1969).	

- Number of Students (1968-1969) $178,074^{2/2}$ in schools that had NJROTC units.
- Students in schools with NJROTC 1.29%
 units as a percentage of all students.

On this basis, if the area chosen for analysis was the entire nation, a positive impact of NJROTC on Navy accessions could be shown if the enlistment of persons with NJROTC-related experience comprised greater than about 1.3% of Navy enlistments in a given time period.

During the period July 1972 through December 1972, the enlistment of persons with NJROTC-related experience comprised 1.02% of 48,034 Navy enlistments. Based on that overall estimate, therefore, it must be concluded that NJROTC, at the national level, had no perceptible positive relationship with Navy accessions.

ESTIMATE OF IMPACT FROM PERSPECTIVE OF ALL AREAS IN WHICH NJROTC UNITS EXIST

The only indication of the area of residence of Navy enlistees available on the magnetic tape which was used to identify NJROTC-related experience of enlistees is the ZIP Code of the home of residence. NJROTC units (1971-1972) existed in 91 of the 948 3-digit ZIP Code areas of the United States. School enrollment data (1968-1969) were used as an indicator of the number of students with NJROTC-related experience in each of 79 of the 91 ZIP Code areas in which NJROTC units were present in 1971-1972. As was described in Section II, the remaining 12 ZIP areas had to be excluded because no data were available on which to base a reasonable estimate.

 $\frac{2}{2}$ Of the 126 schools, enrollment data were available on only 120 schools.

U.S. Department of Health, Education and Welfare, National Center for Educational Statistics, <u>Projections of Educational Statistics</u>, 1981-1982, 1972 edition, Washington, D.C., U.S. Government Printing Office, 1972. The <u>Directory</u>, <u>Public Elementary and Secondary Day Schools</u>, 1968-1969, did not provide this aggregate estimate.

NJROTC presence is as follows:

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- Number of Sécondary Students in 1,632,038
 79-ZIP áreas having NJROTC units (1968-1969).
- Number of Students (1968-1969) in 169,228
 schools that had NJROTC units (1971-1972) in these 79 areas.
- Students in schools with NJROTC units 10.37% as a percentage of all students in 79 ZIP areas.

On this basis, if the area chosen for analysis consisted of only these 79 ZIP areas that had NJROTC units, a positive impact of NJROTC on Navy accessions could be shown if the enlistment of persons with NJROTC-related experience comprised greater than about 10.4% of Navy enlistments in a given time period.

During the period August 1972 through December 1972, the enlistment of persons with NJROTC-related experience comprised 353 out of 6,265 total enlistees from the 79 areas or 5.6% of the total. Based on this estimate, it must be concluded that NJROTC had no perceptible positive relationship with enlistments in these areas.

These 353 NJROTC-related enlistees comprised about 71% of all NJROTCrelated enlistees. In addition, 51 NJROTC-related enlistees indicated homes of residence in ZIP areas that were adjacent to the 79 ZIP areas that had NJROTC schools. It is possible, because of the imperfect conformity of ZIP Code areas with school district and other governmental boundaries, that students could commute across ZIP Code boundaries to ZIP areas with NJROTC schools in order to attend these schools. If it is assumed that certain NJROTC school communities overlap other ZIP areas, it may be useful to include the 51 students from adjacent areas in the computation of NJROTC impact. This estimate, then, would include 353 + 51 or 404 of the 6,265 total enlistees, or about 6.5% of the total. Thus, even if enlistees from adjacent areas are included, no positive relationship (relative to the 10.4% expected) can be discurned. ESTIMATE OF IMPACT IN EACH ZIP CODE AREA IN WHICH NJROTC UNITS EXIST

For each of the 79 areas, (1) the total number of secondary school students, (2) the total number of students with NJROTC-related experience, and (3) NJROTC-related students as a percentage of total students were computed. These computations are presented in Appendix E. A summary of these computations shows that in ten ZIP areas, the percentages of Navy enlistees who have NJROTC-related experience exceeded the percentage of NJROTCrelated students in the ZIP areas. In one ZIP area, these percentages were virtually equal. In 68 areas, the percentage of persons who enlisted and reported having NJROTC-related experience was lower than the overall percentage of NJROTC-related students in those areas; and in 22 of these, the NJROTCrelated percentage of enlistees was 0. If NJROTC-related enlistees from adjacent ZIP areas are added, NJROTC -related enlistments exceed the NJROTCrelated student population percentage in 13 areas, are virtually equal in none and are lower in 66.

On this basis, it must be concluded that NJROTC appears to have a positive relationship with enlistment in only a small number of areas. These areas, and the enlistment percentages computed, are shown in Table 3.1.
TABLE 3.1

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Zip Code	Location	Percent Expected	Percent Actual	Percent Difference
287	Canton, NC	6.0	6.1	+ 0.1
290	Cayce (Columbia), SC	6.2	6.4	+ 0.2
701	New Orleans, LA	1.8	2.4	+ 0.6
841	Kearns (Salt Lake City), UT	11.7	13.4	+ 1.7
040	Old Orchard (Portland), ME	2.6	4.5	+ 1.9
843	Brigham City (Ogden), UT	35,6	40.0	+ 4.4
366	Mōbile, AL	14.0	19.7	+ 5.7
327	Titusville (Orlando), FL	11.5	20.2	+ 8.7
611	Rockford, IL	4.8	14.6	+ 9.8
875	Santa Fe, NM	18.1	30.0	+11.9

ZIP CODE AREAS WITH GREATER THAN EXPECITD PERCENTAGE OF ENLISTEES FROM NJROTC SCHOOLS

Additional ZIP Code areas with greater than expected percentage of enlistees from NJROTC schools if NJROTC-related enlistments from adjacent ZIP Code areas are added. 1/

871	Albuquerque, NM	27.0	27.9	+ .9
500	North Chicago, Wheeling, IL	4.9	9.3	+ 4.4
298	Aiken, SC	13.8	20.6	+ 6.8

Adjacent ZIP Codes were identified from the <u>Rand McNally ZIP</u> <u>Code Map of the United States</u>.

Other information obtained from NJROTC files shows that 19 NJROTC schools were present in these 13 areas. These 19 schools can also be described as follows:

Proximity to Navy Installations

	Number of Schools
Within 25 miles	3
Outside 25 miles	16
(Of the total group of NTROTC	schools, 29%

(Of the total group of NJROTC schools, 29% are located within 25 miles of a Navy installation that employs more than 1,000 uniformed Navy personnel.)

Racial Composition

	Number of Schools
Predominantly Black	2
Significantly Black	4
Predominantly Mexican-America American-Indian	in 1
Predominantly White	12

(As previously stated, of all NJROTC schools, 17% were predominantly or significantly black, 2% were predominantly or significantly Mexican-American, and 81% were predominantly White.)

Size of Male Enrollment

<u>1</u>	Number of Schools
300 - 500 students	3
501 - 1,000 students	8
1,001 - 1,500 students	5
1,501 - 2,000 students	0
2,001 + students	1

(The average male enrollment for all schools was 728 students.)

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Age of NJROTC Program

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-	Number of Schools
Less than one year	3
One year	1
Two years	. 3
Three years	4
Four years	5
Five years	3

Regional Location

	Number of Schools
Northeast	1
South	9
Midwest	3
West	6

(Of the total number of NJROTC units operating in 1971-1972, about 56% were in the South, about 18% were in the West, 15% were in the Midwest and 10% were in the Northeast.)

It should also be noted that when the Spearman rank-difference correlation test was applied to state populations and Navy enlistments, <u>rho</u> was equal to .96. Such a high correlation between state population and enlistment indicates that no region of the country was exceptionally productive of firstterm recruits during the period studied.

ESTIMATE OF IMPACT IN EACH SCHOOL IN WHICH NJROTC EXISTS

From data collected from NJROTC program files, ORI determined that the average male enrollment (grades 10-12) in schools that had NJROTC units was 728. This figure, however, is not completely reliable, since it is based on data which varied in age from two to six years. As was described in Section II, male enrollment figures for 1971-1972 obtained from the questionnaire survey of units showed that, on the average, 1971-1972 enrollments were 13.4% lower

than for the entire period 1966-1972. Thus, the average male enrollment for all NJROTC schools can be estimated to range from 728 down to 630 students.

Data obtained on NJROTC units themselves are much more reliable because they were obtained from inspection sheets for the 1971-1972 school year only. These data showed that the average number of NJROTC participants in 1971-1972 was 83 per school. Using that figure, it is possible to estimate the average proportion of NJROTC participation in a school to be between 10.6% $(83 \div 728)$ and 13.2% $(83 \div 630)$ of the overall male population. It is then possible to say that a positive relationship of NJROTC <u>participation</u> with Navy enlistment would be indicated if persons who participated in NJROTC comprised greater than 10.6% or 13.2% of total NJROTC-related enlistments.

Review of Navy enlistment data showed that 492 enlistees reported on the enlistment contract that they had attended a high school with an NJROTC program. Of these, 179 reported participating in NJROTC for one or more years. These participants comprise 36.4% of total NJROTC-related enlistments, as compared with the expected 10.6% or 13.2%. It appears, then, that NJROTC participants are more likely to enlist than their fellow students. The numbers involved are so small, however, and the apparent overall impact of NJROTC on enlistments is so insignificant, that it can not be concluded that the NJROTC course of instruction was the primary reason for this increased enlistment behavior. It is noted, for example, that the difference between 10% of 492 (total NJROTCrelated enlistees) and 36% of 492 is only 127, or about one person per NJROTC school (126 schools). In ORI's opinion, this is not sufficient grounds for attributing a complex decision like Navy enlistment to the NJROTC program itself. It is equally likely that an additional one person per school intended to enlist even before joining NIROTC. ORI's site visits, described in Section II. identified that such behavior does occur.

COMPARISON OF NIROTC INFLUENCE ON NAVY ACCESSIONS WITH INFLUENCE OF OTHER JROTC PROGRAMS

The possibility exists that the Junior Reserve Officer Training programs of other services may have some impact on Navy enlistments. Enlistment data showed that 2,889 Navy enlistees during the period August 1972 through December 1972 reported that they had attended schools with JROTC programs of either the Army, the Air Force or the Marine Corps. When compared with the 492 who were NJROTC-related, this figure seemed relatively large.

From the Navy Recruiting Command, ORI obtained an estimate that all four services had a total of 952 JROTC units in the school year 1971-1972. The 126 NJROTC schools, expressed as a percentage of that total number represents 13.24% of the total, which means that the other services had 86.76%.

The 492 NJROTC-related enlistees, similarly, comprise about 14.5% of all JROTC-related Navy enlistments, while JROTC-related enlistees from programs of other branches comprise about 85.5%. Thus, students who were exposed to NJROTC were slightly, but not significantly, more likely to enlist in the Navy than were those that were exposed to JROTC programs of other services, assuming that the JROTC's of the other services are in schools of about the same size as NJROTC schools.

Apropos of that assumption, ORI found that the number of NJROTC schools does not present an accurate reflection of the percentage of NJROTC-related students in the national school population. NJROTC units were found in 126, or about .4%, of the 29,000 public and non-public secondary schools nationwide. As was stated previously, these 126 schools had enrollments totalling about 1.3% of all students in the nation.

In the 91 ZIP Code areas where NJROTC schools were located, the average enrollment of all 1,985 secondary schools was 939 students. The average enrollment of the 120 (of 126) NJROTC schools on which data were available was 1,484. This apparent tendency of NJROTC schools to be found in larger than average schools may be the result of the requirement that the

school must have a high probability of maintaining 100 students in the NJROTC unit. Since that requirement also applies to the JROTC's of the other services, the assumption that NJROTC schools are similar in size to other JROTC schools are similar in size to non-JROTC schools.

IV. IN-DEPTH EVALUATION PLAN $\frac{1}{2}$

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As was described in Section I, the preliminary evaluation undertaken by ORI was devoted only to assessing NJRCTC influence on Navy accessions. This was, admittedly, contrary to usual evaluation practice, because an increase in Navy accessions is not included within the objectives of NJROTC as stated in the founding legislation and NJROTC program documents. Further, recruiting was not stated as an objective in the limited number of ORI interviews with NJROTC personnel and Naval Science Instructors during the study. Thus, the preliminary evaluation intentionally left major gaps to be filled in evaluating the success of the NJROTC in achieving its stated objectives. This section of the report will describe a plan for filling these gaps, and will discuss alternatives for implementing this evaluation plan. រំបើស្តេសិន "សេតាសេសសេសសេស" ។ សេសសេសាមិសេស។ ។ ។

ORI acknowledges that some of the ideas included in this plan were present in or anticipated by a Naval Personnel Research and Development Laboratory Research Plan "Influence of NJROTC Program Participation on Navy Recruiting Effort Effectiveness," dated January 1973. ORI takes complete responsibility, however, for any errors or weaknesses which may inhere in the present plan.

SPECIFICATION OF DEPENDENT VARIABLES

Based upon the objectives of NJROTC, the variables which the program is intended to affect may be stated as follows:

- Knowledge of naval affairs and naval skills within the context of overall requirements for national security;
- Behaviors reflecting orderliness, precision and respect for constituted authority, or attitudes which might correlate with such patterns of behavior;
- Behaviors reflecting personal honor, self-reliance, individual discipline and leadership, or attitudes reflecting such behaviors;
- Behaviors or attitudes which demonstrate patriotism.

OBSERVABILITY OF DEPENDENT VARIABLES

Knowledge of naval affairs and naval skills and the requirements of the national security could be measured by a standard test. Similarly, attitudes toward military service and toward efforts and expenditures to insure national security could also be measured, relative to pre-defined standards, using a test or questionnaire.

Behaviors reflecting orderliness, precision and respect for constituted authority could be inferred from a number of surrogates. Performance in school, in employment including military employment, in civic affairs, and with respect to evidence or lack of evidence of criminal convictions are examples of such surrogates. A questionnaire that would measure orderliness, precision and respect for constituted authority might also be developed, but this would require extensive design and validation efforts. Similarly, certain behaviors may be interpreted to demonstrate per-35

sonal honor, self-reliance, individual discipline and leadership. School, employment, civic and criminal (or non-criminal) behaviors, mentioned above might indicate these qualities or their lack. Furthermore, performance in specifically identifiable positions of leadership, even in family relationships, might be observable. ORI does not forsee a means of measuring self-discipline or leadership with a standard instrument. ORI also perceives patriotism to be a characteristic that is so sub-

jective and so relative to circumstances that any definition of it, or scale designed to measure it, would by tainted by arbitrariness and caprice. This is not to say that patriotism is an unreal concept, but only to confess that ORI cannot suggest ways of discerning with confidence the effects of patriotism on behavior. Utilization of any standard instrument in an attempt to observe patriotic attitudes would appear to be equally difficult.

In summary, it appears that the dependent variables of interest can be observed through a standard written test of naval knowledge; and behaviors reflecting orderliness, precision, respect for constituted authority, personal honor, self-reliance, individual discipline and leadership could be inferred from substantive questionnaire responses, or in the case of any persons who were employed by the Navy, from examination of their performance and advancement in the Navy.

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In addition, in order to study any effect of NJROTC on Navy enlistments, attitudes toward, or intentions of enlisting in the Navy should also be included on the questionnaire.

COMPARISON GROUPS

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In order to use the effects of NJROTC, it appears necessary to test the knowledge of and observe the behavior of three groups of people;

- NJROTC unit participants
- Persons who attend schools with NJROTC units, but who do not participate in the NJROTC unit
- Persons who attend only schools that do not have NJROTC units.

Use of these groups then allows a test of the hypothesis that NJROTC participants will advance most in terms of naval knowledge, in terms of the behavioral traits intended and, perhaps, in propensity to serve in the Navy in either an officer or enlisted capacity. Students who attend an NJROTC school, but do not participate in the unit, could be hypothesized to demonstrate smaller advances on these dimensions than do NJROTC participants, but greater advances than students who attend schools that have no NJROTC units.

SCHEDULE OF OBSERVATIONS

Baseline Period

In order to establish a means for discerning changes in the dependent variables within and among the three comparison groups, an in-depth evaluation should gather baseline data (knowledge of naval affairs, attitudes to the Navy) on a sample of students before they have an opportunity to experience NJROTC, i.e., at the beginning of the tenth grade. This would permit observation of students who intended to enlist in the Navy before they had considerable experience in NJROTC. (Other base line data should also be collected at this time, and will be described later under <u>Classification Variables</u>.) Identical questionnaires would be administered to students who enter NJROTC in the eleventh and twelfth grades, to establish a base line of their knowledge of the Navy, attitudes toward the Navy and orientation to enlistment, if any. Subsequent observation of the students who will complete two years of NJROTC or less will establish a basis for comparison with those who complete the entire three-year program. This comparison may suggest whether the NJROTC curriculum could be shortened without reducing its impact on the dependent variables of interest.

High School Period

> Before the end of the senior year, the same data elements observed during the base line period should be updated in both NJROTC schools and non-NJROTC schools. At this time, in addition, data concerning overall school performance, participation in extracurricular activities and in civic affairs can be collected. It is also probable that some members of the sample will be identified at this time as having left school for academic, disciplinary, legal or personal reasons. Other members of the sample will probably have moved to other schools in the same community or to a different community.

> Analyses of these data collected at the end of high school will show, for each of the three comparison groups, their behaviors relative to the dependent variables and relative to each other. Conclusions concerning the relative impact of NJROTC can be based on these comparisons.

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The second data collection effort should also determine the post high school plans of the members of the sample, and as good an indication as possible of their post high school address. This will permit follow-up on the post high school activities of the students.

Post High School Period

Questionnaires can be mailed one year after graduation to members of the sample to determine their employment or school status. Based upon responses to this questionnaire, analyses will show, for each of the three comparison groups, their relative progress in work or school. Responses could also be used to assess the armed forces enlistment behavior of the three groups. Respondees who indicate employment in the Navy could be mailed an additional questionnaire to obtain more information on the pattern of their service.

The progress of members of the three comparison groups in the Navy may permit additional inferences about the impact of NJROTC.

Respondees (to the post high school questionnaire) who indicate attendance at a four-year college or university could be sent an additional questionnaire to identify their participation, if any, in a service academy, NROTC, other ROTC, or other military officer preparation programs. Those who respond and who indicate that they are not in an officer preparation program can be followed-up during their intended year of graduation to determine whether they will graduate on schedule and to ascertain their future plans.

Those that respond and indicate participation in any officer preparation program could be followed-up during their senior year and upon their entry into active or reserve duty. This would provide data on the officer service behavior of members of each of the three comparison groups. Further analysis of the performance of naval officers from the three groups would also be permitted.

CLASSIFICATION VARIABLES

ORI reviewed a number of studies of employment, job-training and job-seeking behavior in order to identify independent variables, other than NJROTC participation, which could affect the dependent variables of interest. This review produced the list presented in Appendix F. This list is so extensive that no feasible methodology is readily available that will isolate the impact of NJROTC from all of these other variables. As a feasible alternative, the members of the three comparison groups can be classified according to certain of these variables. Other than NJROTC, which have been identified as having a relationship to the dependent variables. These "classification" variables are listed below:

) Sex

Race

Physical or Mental handicaps

• Socioeconomic status

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- School grade completed
- School grade point average
- Place of residence (urban, suburban, rural)
- Parental or sibling military experience.

Selection of these nine variables, when compared with the list which comprises Appendix F, may over-simplify the evaluation described here. Nevertheless, these nine variables are those that are most often identified, in the literature studied, to be related to the dependent variables of interest. Thus, if the three comparison groups could be further classified by these nine variables, analyses of variations in the dependent variables should provide sufficient basis for inferences concerning the impact of NJROTC. 「「「ない」をないたいないないないないないないない、いった」、 いいいい、いい

ALTERNATIVE APPROACHES TO DATA COLLECTION

The longitudinal data collection plan described above under "Schedule of Observations" would give the greatest possible assurance of complete, valid, reliable, and interpretable evaluation results. Predictably, this plan would also be the most costly and would require data collection over approximately an eight year period. The remainder of this section describes evaluation alternatives which require more limited expenditures and which yield results in a shorter period.

As described to this point, the data collection plan has the following time dimension:



Reducing the Scope of the Data Collection

One possible option for reducing the scope of the evaluation would be to exclude the final data collection stage, i.e., the period from about $6\frac{1}{2}$ to 8 years from the start date. This reduction would make it impossible to achieve any measurement of the college performance and subsequent Navy service of members of the three comparison groups who attended four year colleges. This would allow completion of the study in about $5\frac{1}{2}$ years from the start date.

A further reduction could consist of eliminating the post high school data collection effort (from about $3\frac{1}{2}$ years to about 5 years after start). This would make it impossible to observe the employment behavior (including Navy employment) of the comparison groups as well as their higher education behaviors. This reduction in scope would permit the evaluation to be completed in about $3\frac{1}{2}$ years.

Reduction of the elapsed time of the study to a period shorter than $3\frac{1}{2}$ years is not possible. The high school data collection effort (from about $2\frac{1}{2}$ to about 3 years after start) is required if any measurement of NJROTC impact on knowledge or behavior is to be made. Reduction of scope to this period would mean that the only indicators of traits like precision, self-discipline, etc., would be behaviors during the high school years. These would probably be limited, in most cases, to activities highly related to school and to the peer group, although some part-time employment and civic activities might be observed.

Simulating a Longitudinal Study

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Another means of reducing the cost and elapsed time of an NJROTC evaluation would consist of simulating a longitudinal study. This would be accomplished by choosing four age group samples of each of the comparison groups:

- A group of 10th graders (school year 1973-1974, for example)
- A group of 12th graders (1973–1974)
- A group of high school graduates who completed school the previous year (1972-1973, for example), with oversampling of Navy personnel
- A group of college students in their senior year (1973-1974) with oversampling among those in the various officer preparation programs.

The data collections and analyses described above could then be implemented with these groups in order to produce results similar to those of a longitudinal study. A major weakness in this alternative is recognized. 1

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No real indication of progress can be observed because the behavior of different people, as opposed to changes of behavior of the same people, are compared. Only inferences of change can be drawn, based upon the assumption that each older age group probably was once similar to each younger group in terms of Navy knowledge, behavior, etc. The validity of this assumption can be strengthened by matching the members of each age group according to the classification variables described above. Nevertheless, the validity of the comparisons among the three comparison groups is probably still greatly weakened by the differences in age. For example, it may be true that the effect of the Vietnam war on the knowledge of the Navy among persons who are now 22 years old differs from the effect of the Vietnam war on the knowledge of the Navy among persons who are now 15 years old. Persons who are now 22 may have known much more about the Navy when they were 15 than the current group of 15 year-olds. By setting the knowledge of current 15 year groups as the base line, and comparing it with the knowledge of current 22 year-olds, considerable errors may enter the analyses of comparisons among the three basic comparison groups.

Studying Only Navy Servicepersons

If the study were greatly reduced in scope, it would be possible to evaluate only the behavior of persons in the Navy who had NJROTC experience and NJROTC-related persons. In this case, samples of the three comparison groups could be drawn from enlistees and from officers entering active duty. Upon entry, these personnel could be administered a retrospective questionnaire to attempt to develop a profile of the "classification variables" mentioned above subsequently, the performance of these personnel could be entered into the evaluation. This would show the relative performance in the <u>Navy</u> of the three comparison groups. On this basis, it would be possible to <u>infer</u> the effect of NJROTC on Navy knowledge, attitudes toward the Navy, self-reliance, self-discipline, etc. Once again, however, this limited design would provide an evaluation of NJROTC in terms of its effects on Navy service only, and Navy service is entirely outside the objectives of NJROTC as they are stated in the legislation and program documents. Thus, this design would, from its inception, fail to take account of the effect of NJROTC on persons who do not enter the Navy. Although an evaluation based on this design could be useful to the Navy or the Department of Defense, it would not represent an evaluation of NJROTC in terms of the objectives established for the program by the Congress.

APPENDIX A MAIL-OUT QUESTIONNAIRE

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SECONDARY SCHOOL DATA

General Information

- 1. Name and Address of School:
- 2. Type of Community (Rural, Industrial, Urban, etc.):
- 3. Male Enrollment Grades 10-12:
- 4. Number of classroom teachers:
- 5. Pupil Teacher Ratio:
- 6. Percentage of recent graduates entering college:

7. Percentage of recent graduates furthuring their education:

Curriculum - Mumber of Units Offered and Course Names in Math and Scier e: 1. English: . . .

ાર કે કે બેલ્ટ કે બેલે બેલે સંસ્થળો જે જાય છે. સાથવે સ્વેચ્યા અન્યોય વિદ્યુપ્ત અન્યોય વિદ્યુપ્ત અન્ય પ્રાયં સ્વ સંસ્થળ સંસ્થાર કે બેલે બેલે બેલે સંસ્થળો જે સ્વયત્વે સ્વોચ્યા અન્યોય વિદ્યુપ્ત અન્યોય વધા પ્રાયં સ્વેચ્યા પ્રાય

- 2. Social Studies:
- 3. Scienc :
- . Mathematics:

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SECONDARY SCHOOL DATA, CONT.

5. Languages:

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6. Business education:

7. Shop facilities: (Expand if a technical school)

8. Percent of faculty which is mare:

9. Number that are former servicemen:

NJROTC PROGRAM DATA SHEET

- 1. How many members of the 1972 graduating class were members of NJROTC during their senior year?
- 2. How many members of the 1972 graduating class were certified as having successfully completed the three year NJROTC program?
- 3. How many members of the 1972 graduating class who were NJROTC graduates entered the United States Naval Academy?
- 4. How many members of the 1972 graduating class who were NJROTC graduates entered the United States Military Academy, the United States Coast Guard Academy or the United States Air Force Academy?

કેન્દ્ર કે ઉક્સાલ અને કે ઉક્સાલ ઉઠ છે હેલું છે. સન્ય અને ભારત અને ભારત અને કેર્સ્ટ્રા અને છે. અને બેલ્ડાન સ્વીબલ અને વાયર કે સ્વાય અને ઉપયોગ પ્રાય અને પ્રાય અને ઉપયોગ સ્વાય અને ઉપયોગ સ્વ

- 5. What was the total enrollment (Grades 10-12) of the NJROTC program during the school year 1971-1972?
- 6. What was the composition of the total NJROTC program, 1971-1972, by ethnic group?



APPENDIX B

FILE DATA TABULATIONS

REGIONAL LOCATION OF NJROTC UNITS (1971-1972)

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	Number	Percent
Northeast and Middle Atlantic States	13	10.3
Southern States	71	56.3
Middle Western States	19	15.1
Mountain and Western States	_23	18.3
	126	100.0

The following states had no NJROTC programs: Vermont, Connecticut, Deleware, Oregon, Nevada, Hawaii, North Dakota, South Dakota, Nebraska, Alaska, Minnesota, West Virginia, and the District of Columbia.

LOCATION OF NJROTC UNITS RELATIVE TO MAJOR NAVY INSTALLATIONS

	Number	Percent
Units 25 miles or less distant	37	29.4
Units more than 25 milés distant		70.0
	126	100.0
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Measurement of distance was accomplished using <u>The International</u> <u>Atlas</u>, published by Rand McNally and Company, Chicago, 1969, and the scales of statute miles presented on the appropriate maps in that book. Because of the innacuracy in the measurement process, it was decided to resolve doubtful distances always in favor of the units being <u>within</u> 25 miles. Thus, the number of units stated above as being 25 miles or less distant is a <u>maximum</u> estimate.

The distance of 25 miles was chosen based on information provided by the U.S. Department of Transportation, Federal Highway Administration. That agency is conducting the <u>Nationwide Personal Transportation Study</u>. Volume 8 of that study, not yet put ished, will show that more than 97% of drivers nationwide have a one-way commuting distance to work of 25 miles or less. On this basis ORI concluded that students who attend schools outside that distance from a Navy installation would be unlikely to live in a community that had a high population of Navy employees. LOCATION OF NJROTC UNITS BY URBAN, RURAL, SUBURBAN APEA

	Number	Percent
Urban	58	61.1
Rural	19	20.0
Suburban	16	16.8
No information	_2	2.1
	95	100.0

Data came from the 95 schools for which files on schools and NJROTC units were available.

SCHOOLS WITH NJROTC UNITS BY TYPE

	Number	Percent
College Preparatory Only	7	7.4
Comprehensive	82	86.3

	Number	Percent
Vocational/Technical	0	0.0
No information	_6	6.3
	95	100.0

SCHOOLS WITH NJROTC UNITS BY ETHNICITY

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		Number	Percent
Predon than 5	ninantly (greater 0%) Black	8	8.4
Signifi 50%) E	icantly (30% to Black	8	8.4
Predon than 5 or Ame	ninantıy (greater 0% Mexican Americ erican Indian	can 2	2.1
Predon than 7	ninantly (greater 0%) white	<u>77</u>	81.1
		95	100.0

NJROIC UNITS BY NUMBER OF YEARS IN OPERATION (as of june 1972)

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Years in Operation	Number	Percent
l year	18	18.9
2 years	14	14.7
3 years	20	21.1
4 years	21	22.1
5 years +	21	22,1
No information	1	1.1
	95	100.0

Number of Graduates	Number of Units
0-10	18
11-20	42
21-30	17
31-40	1
41-50	8
51+	3
No information	_6
	95

NJROTC UNITS BY NUMBER OF GRADUATES, JUNE 1972

Graduates in this table include persons who were certified to have completed all three years of the NJROTC program and others who were in the NJROTC unit at the time of graduation, but had not completed three years.

The mean number of graduates per school was 18.9.

From these 95 schools, 29 NJROTC graduates, certified or uncertified, were appointed to one of the service academies. Of these, 24 were appointed to the U.S. Naval Academy.

NJROTC STUDENTS AS A PERCENTAGE OF ALL MAIZ STUDENTS BY AGE OF NJROTC UNIT

Age of Unit	Percentage	
l year	13.2	
2 years	8.6	
3 years	8.3	
4 years	8.3	
5 years	9.3	
Average male enrollment	t (95 schools) 728.4	

Average NJROTC enrollment (95 schools) 82.6.

This table seems to indicate that NJROTC programs do not necessarily grow, as a percentage of the total male enrollment. It seems likely that the relatively large percentage (13.2%) in the first year may be the result of heightened interest in a new program or the result of a newly participating school trying to achieve the 100 student NJROTC enrollment required by the NJROTC program.

APPENDIX C SITE VISIT INTERVIEW QUESTIONNAIRES

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	PART ONE	
	SCHOOL AND PROGRAM INFORMATION	I
Name of Scho	ol	Public
		Private
Location	(City) (State)	Urban
		Suburban
Total Paulin		Rural
Iotal Enrollme	ent	
* * * * *	* * * * * * * * * * * * * *	* * * * * * *
I. CHARACTE	RISTICS OF STUDENT BODY (OVERALL)	
	Q	
A.	Sex:	
D	remale%	
в.	Ethnicity:	
	Black %	
	Other %	
C	Disadvantaged:	
0.	<u>»</u>	
D.	Is the student body representative of the	ke-up of the sur-
	rounding neighborhood (i.e., in the	service area)?
	Socioeconomic:	
	Yes No	
	Racial:	
	Yes <u>No</u>	
E.	Percent of 1972 graduates who entered colle	ege%
F.	Percent of 1972 graduates who entered other	r post-secondary
	schools%	
	F 0	
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. CHARACTERISTICS OF THE SCHOOL	± ź
A. <u>Curriculum</u>	1 1 1
1. Number of courses by type:	**
Vocational	
College Prep	ē.,
General	
2. Is an Occupational Information Course offered?	≡ ¥
Yes <u>No</u>	ann ~4 _ 5 _ 4
3. What achievement tests are presently in use by the schools	a i
and what is the mean score of all students on these tests?	به مع - تر
Name of Test Mean Scores	4. ř
	- - -
	** 4
	tan san
	र्षे <i>स</i>
B. Faculty	
1. Number of faculty members	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
2. Males% Females%	
3. Number of occupational guidance counselors	
II. NAVAL JUNIOR ROTC PROGRAM	2000 A 10 - 1 11 - 2 11
A. How long has the program existed in the school? Years.	• •
B. Number of students presently enrolled in the program, by grade	
level:	
Sophmores Juniors Seniors	trans trans
C. Sex of participants in NTROTC Program (overall)?	- ~s
Males %	n serie Maria Maria
Females %	
	-
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60	- :
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D. Ethnicity (overall):

White ____% Black ____% Other ____%

E. <u>Disadvantaged</u>:

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%

F. What percent of the 1972 NJROTC graduates entered:

College _____ No ROTC _____

NROTC _____

Other Service Branch ROTC

Navy Active Duty

Naval Reserve

Other Service Branches Active Duty only

G. How does the grade point average of most students in the NJROTC Program compare to the grade point average of the student body overall? galaatay aharah daha dahada daha

NJROTC higher

NJROTC lower

NJROTC about the same

K. What is the overall average of students in NJROTC on the achievement tests given by the school?

ATTOMP/

Name of Test	Mean Score

I. What are the basic requirements for graduation from the NJROTC Program?

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Name of Naval Science Instructor

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Rank

Date

20 April 1973, DRAFT NJROTC

PART TWO

NSI INTERVIEW

(Please answer the following questions based on your experience and knowledge as a Naval Science Instructor in this school).

I, AJCEPTANCE OF THE NJROTC PROGRAM

.

A. What is the general attitude of school administrators and faculty towards the program?

B. How does the administration view NJROTC courses?

As vocational

- As college prep
- Other (Explain)

C1. Generally, how is the program accepted by the neighborhood in which the school is located?

C2. By the parents of students attending this school?

D1. What is the general feeling of the students toward the program?

D2. Of non-participating students?

63

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11. METHODS OF AND REASONS FOR PROGRAM ENTRY

A. How do students initially find out about the program?

- 1. Navy family
- Other siblings in the program _____
- 3. Peers
- 4. Counselors
- 5. Media/advertisement ____
- 6. Navy installation near school
- 7. Cther (specify)
- P. Which of the above do you feel influences the student most?
- C. Within the school, how are students introduced to the program?
 - 1. Assemblies ____
 - 2. Counselors
 - 3. Naval Science Instructors
 - 4. Self-initiative ____
 - 5. Other (specify)
- D. Are students allowed to substitute NJROTC for any required course, such as physical education?
- E. What do you think are the reasons most students have for joining the program?

- 1. Navy family ____
- 2. Peers ____
- 3. Interest in Navy as an employer _____
- 4. Other (specify)

III.	SELF-EVALUATION	OF PROGRAM	CONTENT AND	PARTICIPATION
------	-----------------	------------	-------------	---------------

- A. What are the most frequently reported occupational preferences of the students in the NJROIC Program?
- B. Is the Navy included as a part of the classroom Occupational Information Course or career guidance program of the school? Yes _____ No ____

C. To what extent do you perceive the success of your program to be determined by the number of students who join the Navy?

- D. Does the program attempt to develop interest in:
 - 1. United States Naval Academy ____
 - 2. College NROTC

- Service in Navy as officer _____
- 4. Service in other branches as officer ____
- 5. Service in Navy an enlisted rating
- E. Which of the following course objectives receive the greatest emphasis in the NJROTC course as you present it?

1. Developing respect for constitued authority

- 2. Promoting patriotism
- 3. Developing leadership and self-reliance
- Developing an appreciation for U.S. Navy's role in the national defense structure
- 5. Employment ____
- .6. Other (specify)

F.	What is the attrition rate of students from the program?
G.	What generally are the characteristics of the terminees?
H.	What are the reasons most frequently given for leaving the
. CHARA	CTERISTICS OF NSI
. CHARA	CTERISTICS OF NSI - How long have you been a Naval Science Instructor in this
. CHARA A. B.	CTERISTICS OF NSI . How long have you been a Naval Science Instructor in this school? Other experience as NSI:
A.	CTERISTICS OF NSI - How long have you been a Naval Science Instructor in this school? Other experience as NSI:
A.	CTERISTICS OF NSI . How long have you been a Naval Science Instructor in this school? Other experience as NSI:
A.	CTERISTICS OF NSI . How long have you been a Naval Science Instructor in this school? Other experience as NSI:
A.	CTERISTICS OF NSI - How long have you been a Naval Science Instructor in this school?
A.	CTERISTICS OF NSI - How long have you been a Naval Science Instructor in this school?
A.	CTERISTICS OF NSI . How long have you been a Naval Science Instructor in this school? Other experience as NSI: Name Rank
A.	CTERISTICS OF NSI . How long have you been a Naval Science Instructor in this school? Other experience as NSI: Name Rank

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20 April 1973, DRAFT NJROTC

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PART THREE

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	NJROTC STUDENT INTERVIEW
Name o	of School
Studen	t's Classification: Sophmore Junior Senior
* * * *	* * * * * * * * * * * * * * * * * * * *
1.	How did you find out about the NJROTC program?
2.	Why did you join the program?
3a.	What do you intend to do after high school?
3b.	If Navy, how long have you thought of the Navy as your employment objective?
4.	What is the most important thing you are learning in NJROTC?
5.	What is the attitude of non-participants toward the program?
	67
6.

Why do you think students drop out of the NJROTC Program?

(Date)

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. APPENDIX D

NAVY INSTALLATIONS SELECTED BASED ON MAPMIS REPORT OF ON-BOARD COUNT AS OF MARCH 1973 BUREAU OF NAVAL PERSONNEL

CALIFORNIA

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San Francisco Area

Alameda

San Francisco

Moffet Field

Concord

Val' v

Mare Island

Los Angeles - Long Beach Area

Long Beach

Port Hueneme

San Diego - Imperial Beach

Monterey

China Lake

Lemoore

CONNECTICUT

Groton New London

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WASHINGTON, D. C. AREA

FLORIDA

Jacksonville

Key West

Mayport

Orlando

Pensacola

GEORGIA

Albany

HAWAII

IDAHO

Idaho Falls

ILLINOIS

Glenview - Great Lakes

LOUISIANA

New Orleans

MAINE

Brunswick

MARYLAND

Annapolis Bainbridge Ft. Meade Patuxent River

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MASSACHUSETTS

Boston

MISSISSIPPI

Gulfport Meridian

INIGI IGIGII

NEVADA

Fallon

NEW HAMPSHIRE

Portsmouth

NEW JERSEY

Lakehurst

NEW YORK

Brooklyn

Schenectady

PENNSYLVANIA

Philadelphia Willow Grove

RHODE ISLAND

Davisville

Quonset Point

Newport

SOUTH CAROLINA

Charleston

TENNESSEE

Memphis-Millington

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TEXAS

Chase Field Corpus Christi Dallas Kingsville

VIRGINIA

Newport News

Norfolk

Portsmouth

Virginia Beach

Little Creek

Oceana

WASHINGTON

Puget Sound Seattle Whidbey Island . .

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NJROTC-RELATED ENLISTMENT DATA BY ZIP CODE AND LOCATION, JULY 1972 THROUGH DECEMBER 1972

APPENDIX E

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NJROTC-RELATED ENLISTMENT DATA BY ZIP CODE AND LOCATION, JULY 1972 THROUGH DECEMBER 1972

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ZIP Code	Location	Total No. of Secondary Students (o)	No. of NJROTC- Related Students (b)	Percent of NJROTC- Related Enlistees (b) + (a)	Actual Percent of NJROTC- Related Enlistees	Difference
363	Abbeville/Headland, AL	10.097	700	5 0	• •	
358	Huntsville, AL	6.720	2 322	24.5	3.4	- 3.5
352	Binningham, AL	30 402	2,363	39.0	1.7	-32.9
365	Mobile, AL	17.020	2 214	7.0	2.2	- 2.3
719	Hot Springs, AR	5,770	1 164	14.0	19.7	+ 5.7
900	Los Angeles, CA	72 438	2 202	20.2	16.7	- 3.5
907	Lakewood, CA	27 318	1 972	3.3	.4	- 2,9
921	San Diego, CA	31 563	3,072	17.3	5.9	-11.4
927	Santa Anna, CA	R Q01	2 220	5.8	3.4	- 3.4
926	San Clemente, CA	A1 050	2,339	26.0	4.8	-21.2
908	Long Beach, CA	13 700	2,000	4.9	1.8	- 3.1
814	Montrose, CO	19,799	3,020	21.9	6.1	-15.8
339	Punta Gorda, FL	9 094	534	49.1	17.4	-31.7
320	Green Cove Sp. /Live Oak, Ft.	17 209	2 444	/.0	5.0	- 2.6
326	Crystal River, FL	11 120	4,449	14.2	1.1	~13.1
325	Pensacola/Milton, FT.	14 07)	920	3.8		- 3,8
327	Titusville, FL	20 886	2,300	46.0	37.0	- 9.0
303	Atlanta, GA	40,000	2,390	11.5	20.2	+ 8.7
300	Marietta, GA	76 960	3,223	0.0	1.8	- 4.8
834	Idaho Falls, ID	6 763	1,199	4.5	2.4	- 2.1
832	Pocatello, ID	0,303	1,219	19.1	7.7	-11.4
611	Rockford, II.	1) 200	2,747	31.0	15.0	-16.0
600	North Chicago/Wheeling II	72 504	336	4.8	14.6	+ 9.8
511	Sioux City, IA	6 176	3,335	4.9	3.4	- 1.5
662	Shawnee/Mission, KS	10 049	1,123	23.2		-23.2
412	Paintsville, KY	2 1 2 2	. , , , , , , ,	85.8	42.6	-43.2
405	Lexington, KY	· 7 DAD	1,018	32.5		-32.5
401-02	Louisville/Valley Station, KY	52 007	2,132	20.3	6,1	-24.2
700	Marrero, IA	17 726	4,097	7.7	4.9	- 2.8
701	New Orleans, IA	11,120	550	2.8		- 2.8
705	Crowley, IA	30,330	074	1.8	2.4	+ .6 .
708	Baton Rouge, TA	14 205	874	2.7	1,1	- 1.6
712	Monroe, LA	27 422	1,400	9.8	***	- 9.8
040	Old Orchard, NE	12 252	2,110	9.4	4.3	- 5,1
207	Hvattsville, MD	16,233	324	2.6	4.5	+ 1.9
510	Barro, MA	25 725	2,333	14.4	1.4	-13.0
018	Woburn, MA	28 892	2 470	3.2		- 3.2
480	New Haven, MI	88 975	2,470 SEC	8.6		- 8.6
481	Livonia, MI	63 257	2 121		.3	3
390	Canton, MS	17,783	1 275	3.3	1.5	9
353	Meridian/Collinsville, MS	19 187	2,273	/.1	5.3	- 1.8
648	Carl Junction, MO	7 223	601	4.4 0 c	**	- 4.2
591	Billings, MT	4 498	3 062	0.3	**	- 9.5
031	Manchester, NH	7 202	1 225	20.1		-83.1
076	Montroso, NI	29 894	1 000	10.4	**	-18.4
871	Albuquorque, NM	10 500	5 310	3.4	1.7	- 1.7
875	Santa Fe, NM	7.502	3,360	27.0	27.0	
284	W1 mgton, NC	12.497	1 245	10.1	30.0	+11.9
282	Charlotte, NC	12,815	2,240	10.0	6.7	- 3.3
287	Canton, NC	15.071	074	70.0	3.6	-12.4
275	Smithfield, NC	24.515	1 075	0.U A 2	0.1	+ 1
	· - · -	*****	4,0/3	4.4		- 4 4

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up Code	Location	Total No. óf Secondery Students	No, of NIROIC- Related Students (b)	Parcent of NJROTC- Related Enlistees (b) + (a)	Actual Percent of NJROTC- Related Enlistees	Difference
281	Pineville, NC	16,373	1,948	12.0		-12.0
432	Columbus, OH	24,131	865	3.6	.6	- 3.0
443	Akron, OH	18,944	1,789	9.4	~~	- 9.4
445	Massillon, OH	18,748	970	4.3		- 4.3
451	Marion, OH	8,029	650	14.1		-14.1
745	Ponce City, OK	3,280	1,709	52.1	2.3	-49.2
151	McKeesport, PA	27,900	1,879	5.7		- 6.7
390	Levittown, PA	. 65.458	1,915	2.9	.4	- 2.5
JZ8	Tiverton/East Greenwich, RI	34,156	2,944	5.7	1.6	- 6.1
Z98	Aikens, SC	10,597	1,463	13.8	8.8	- 5.0
290	Cayce, SC	20,251	1.264	ô.2	6.4	+ .2
293	Anderson, SC	31,697	1,385	4.4	1.2	- 3.2
295	Florence, SC	29,168	1,456	5.0	1.6	- 3.4
294	Summerville, SC	31,239	681	2.2	1.2	- 1.0
379	Knoxville, TN	13,095	759	5.8	1.7	- 4.1
777	Beaumont, TX	7,636	3,533	46.3	20.4	-25.9
384	Corpus Chrissi, TX	12,172	9,671	79.5	63.3	-16.2
791	Amariilo, TX	7,368	2,336	31.7	18.4	-13.3
783	Kingsville, 7X	7,928	1,235	15.6	13.8	- 1.8
775	Pasadena, 1X	33,009	3,199	9.7	4.0	- 5.7
843	Brigham City, UT	5,072	1,807	35.6	40.0	4.4.4
841	Kearns, UT	19,361	2,319	11.7	13.4	+ 1.7
840	Bountiful, UT	20,111	1,689	8.4	2.7	- 5.7
235	Norfolk, VA	12,652	6,469	51.1	28.4	-22.7
733	Hampton VA	6,755	1 776	26 3	3 4	-77.0
234	Yorktown/Virginia Beach, VA	21,837	10,692	49_0	17.3	-71.1
825	Lander, WY	1,987	972	48.5	25.0	-23.5
	TOTALS	1,632,038	169,228	1.037	1.024	

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VARIABLES RELATING TO EMPLOYMENT IN THE NAVY AND OBJECTIVES OF NJROTC

TABLE F.1

Service Servic

VARIABLES RELATING TO EMPLOYMENT IN THE NAVY AND OBJECTIVES OF NJROTC

		<u>Variables</u>	Description	Source	Page
PERSON	nal c	HARACTER.JTICS		_	
A. Bac	crato	und			
1.	Sex	1.2/	Different combinations	ORI, Manpower Evalua-	62
2.	Tri.	$mc_{aloup} L2$	of these characteristics	tion Study, Proposal,	
3.	300		nay produce different propabilitie of success	Economic Opportunity,	
4.	Fm	ployment status, carnings, general skills 1.2/	la employment.	Washington, D. C.,	
5.	Ha	ndicap	2,	22 November 1965.	40.44
с. 6	Far	nity background	**	Tarks 1 to 5 of the	42+44
7		as of roeldance		Quantitative Analysis	
· · ·		lic assistance		Of the Concentrated Employment Program,	
с. 9	. 10. tx.			Technical Memorandum	
10	. <u>.</u>	ho Antitudae		156-58, prepared for Chief, Cost Benefit	
10.	, ça	ar aprilodes		Analysis, Division of	
		•		Planning, Manpewer Administration, Depart-	
				ment of Labor, 7 Nov-	
				ember 1953.	
<u>B. A:1</u>	titudi	nal Information			
:.	. Vn	satisfied objectives		ORI, <u>Manpower Evalua</u> - tion Study, Proposal,	63
2.	. Fe	elings toward work stluation		prepared for Office of	
٥.	. Ex	pected treatment in work situation		Economic Opportunity, Washington, D. C	
4.	. As	piration level		22 November 1968.	
٤.	. Ex	pected wages and advancement opportunity		•	
۲.	. Atl	itudes toward programs	-		
7.	. Att	itudo toward existing socia motes			
٥	Sc	holastic ability/school experience		Tohnston, J. & Bachman,	
	۵,	Scholestic ability		Young Men and Military	
	ь.	Glassroom grades	•	Service, Volume V, Survey Research Center, Institute	
	С,	School failure		for Social Research, Univer-	
	d.	School curriculum		sity of Michigan, Ann Arbor, Michigan, 1972.	
	۰.	Dolinquency in school			
	f.	Att/tudes toward school		•	
9.	. M	('llary-fit ()ob-fit)	•		
	a.	Need for self-utilization and sdvance-	Tasks in military life complement personal	* * * * *	34-35
	ь.	Roward	tatents and increase.	•	
	c.	Ease and independence	As Donald Super said;		
	đ.	Individual perception of environmental supply of things to satisfy need	"octupational choice Phoary - people seek out jobsmatch their personalitie	·····	
30.	. Vo	cational exploration			
	٤.	Unsure person a primitively to enlist than one with decision plat a	Age 16-23 - experimentation wi- ^ arious vocational	 . [.]	52-53
	b.	Environment pro Miss chance to think thinks through	ientities. Need for exposure to multitude of career pessi- bilities without lifetim.		

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Variables	Description	Source	Page
C. Stx IJimensions of Well-Reing 1. Income 2. Basic service 3. Assets 4. Self-respect	These dimer ions may effect decisions to seek employ- ment with the Navy.	Miller, S. M. & Poby. P., <u>The Future of In-</u> equality, 1970	
 Opportunities for educational social mobility 6. Participation in decision making 			
 <u>D. Rarriers to Mobility</u> 1. Insufficient education 2. Insufficient training and skills 3. History of unreliable job performance 4. Personal risk attached to mobility 5. Lack of labor market information 	These barriers may apply to employment as well as to mobility.	Bluestone, B., "The Tripartite Economy: Labor Market and the Working Poor," <u>Poverty</u> and <u>Human Resources</u>	23
 <u>F. Special Characteristics and Problems of Disedvantaged</u> Members of poor family Unemployed, underemployed or hindered from seeking work Being one or more of the following: High school dropcut Minority group member Under ft Under ft Over 44 Handicapped 	All people, to some extent. have these characteristics and problems.	Ok. Interin Report on Tasks 1 LJ 5 of the Quantitative Analysis of the Concentrated Employment Program. TechnicsI Memorandum 156-68, prepared for Chief, Cost Benefit Analysis, Division of Planning, Menpower Administration, Depart- ment of Labor, 7 Nov- ember 1968	42-44
 Intersequence work experience Poor education and training Discrimination because of ethnic origin Lack of information about employer's hiring requirements Lack of knowledge of where to apply Lack of knowledge about working conditions, wages, application forms, interviews, references Lack of knowledge about private employment agencies or free public employ services Lack of knowledge application forms apply 		Posen, H., <u>Guidence</u> Sunselore <u>-A New</u> Activist Role	
tte Park at gagging abbetagries			

		<u>Variables</u>	Description	Source	Page
п.	INTER	PERSONAL CHARACTERISTICS			
	1.	Quality of home environment		Johnston, J. & Michman,	
	2.	Family size		J. G., Youth in Transition,	
	3.	hroken homo		Service, Volume V, Servay Rosearch Conter, Institute for Social Research, Univer- sity of Michigan, Ann Arbot, Michigan, 35/2.	
	4.	Family relations	Boys from family with poor relationships tend to enlist more frequently.		
	5.	Father's and brother's military experience	(Also related to closeness of lather and son).		
	6.	Individual perception of what parents and friends want him to do	Parents may encourage enlistment.		
	7.	Escape and opportunity	Service represents a choice to select one's self out of present environment into one that effers either escape or opportunity.		
	۶.	Perr group modeling:			
		a. Enlisting			
		b. Planning to enlist	•		
111.	EXTER L	NAL AND ENVIRONMENT FACTORS		OPI Manneyor Walue	65-66
	2.	Spatial configuration of the area		tion Study, Proposal,	03-00
	3.	Presence of institutional constituent?		prepared for Office 61	
	4.	Local political attitudes		Washington, D. C.,	
	5.	Local government structure		22 November 1968.	
	6.	Labor demand by city		Rosen, H., Guidance	
	7.	Employment level of area		Counselors-A Ne-	
	5.	Political and social environment		Activist Role	
	9.	Average yearly income			
	10.	Retention in jubs and advancement within the same organization or between organ- izations			
	11.	incleased opportunity for further adjust tion			
	12,	Effect of economic changes			17
	13.	Changes in structure of employment	From blue collar to white collar and service employ- ment opportunities.	Roten, S. M., "Man- power: Issue and Policy," <u>Poverty and Human</u>	19
	14.	Growth in importance of occupations in field of human services	•	<u>Resources</u> , Sertember- October 1970, Institute of Public Adm.	19
	15.	Lack of education which may widen access to good jobs			
	16.	Importance of and reliance on educational creduntials			
	;7.	Job security			25
	18.	Relatively low and rigid salary levels			25
	19.	Reliance on written testing for appointments and promotions			25

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		<u>Variables</u>	Description	<u>Saurco</u>	Page
	2ð.	Changes in set-ool enrolliment		Travis, Sophia C.,	3-4
	21.	Changes in occupational requirements		"The U.S. Labor Force:	
	22.	Changes in ratirement patterns		Monthly Labor Review,	
	23.	Changes in extent of women's dusire or need to work		May 1970.	
	24.	Effect of defense — generated employment	Increases or decreases in civilian employment.	Oliver, R. P., "Increases in Defense Related Lm- ployment During Vietnam Buildup," <u>Monthly Labor</u> <u>Review</u> , Fetruary 1970.	3
	25.	increased unemployment positively correlated with enlistment	Unemployment and crea wage levels might have	Johnston, J. & Bachman, J. G., <u>Youth in Transition</u> ,	
	26.	Wages in civilian job märket	become stronger determin- ants of enlistment as country extricated itself from in- volvement in Vietnam.	Young Men and Mill tary Satures, Volume V., Jurvey Research Center, Institute for Socit Research, Univer- sity of Michigan, Ann Arbor. Michigan, 1972.	
	27.	Region – enlistment more popular among Southerners	Enlistment more popular with Southerners. (Net confirmed		
	28.	Urbanicity	by present study.)		
•	29.	Socioeconunic	Enlistmen' more frequent with lower class.		
IV.	rrogi	RAMS AND SERVICE PARTICIPATION AND FOLLOW-U	P INFORMATION (Some of Which	Are Applicable to an NJROTC Stud	y)
).	Test scores 1.3/	1	ORI, Manpower Evalue-	
	٤.	Itaming received		tion Study, Proposal,	
	3.	Counseling received		prepared for Office of Economic Opportunity	
	4.	Education received 1.3/		Washington, D. C.,	
	s.	job placement		22 November 1968.	
	6.	Wages			
	7.	Job description			
	8.	Opportunity for further training & advancement			
	9.	Services received			
	10.	Dropsut point			
	11,	Reasons for dropping out			
	12.	Rocycles and reprats			
	13.	Changes in taxes paid/descreases in public assistance; waiting time; earning during tr ining phase			
	14.	Enrollee recruitment 2.3/	Job placement and banefits 2	Opt. Interim Penner on	17-11
	15.	Cosching and counseling services $\frac{2.3}{}$	are a function of the avali-	Tasks 1 to 5 of the	43-44
	16.	Vocational rehabilitation	services.	Quantitative Analysis	
	17.	Transportation		Employment Program,	
	18,	Orientation		Technical Memorandum	
	19.	Remodial education	•	Chief, Cost Benefit	
	20.	Ind opportunities		Analysis, Division of	
	23.	Follow-up services		Administration, Depart-	
	22.	Impace of program/project		ment of Labor, 7 Nov- ember 1968.	
	23.	pre-vocational and vocational training programs 2	ي لا	LISTON Broaksbouch for	
	24.	Job placement/creation		Disad-entaged Youth	
	25.	Use of nonprofessionals in MDTA programs		lispot Mars-ver Adm. in Poverty and vertain Relations. March-April 1970.	

Variables Description Source Page 26. Individual job training - combining skill Ramsey, W. R., "Prod-19-22 training and supportive services uction and Quality Control in Training, " Technical 27. Preparation for long-range productivity by Training for the Disa lyonstressing process and content of training taged, Poverty and Human Relations, August 1969. 28. Improving the quality of trainee's life Personal concern for each tectnee that will aid him in changing his self-image and foster good interpersonal relationships. Of the process of training 23. Institutionalization and its component parts without forming a rigid pattern which cannot be changed. A. School Counselling and Military Se ¢0 1. Course selction 2. Course work problems Trouble in school 3. Personal problems 4. S. Milltory plans and obilizations 6. Plans for educational training 7. Career or job choice 8. Procedure and application for getting a permanent job after high school V. INTERNAL ORGANIZATIONAL FACTORS WHICH CAN AFFECT EMPLOYMENT STABILITY (And Thus Have Effects on Recruitment in the Feedback 1.000) Rationalization of work and work hierarchies. 1. Rosen, S. M., "Man leading to the construction of career or power: Issue and Policy," promotional ladders Poverty and Human Resources, September-2. Preparation of incumbent workers to fiil future October 1970, Institute vacancies through in-service training (where of Public Adm. appropriate) formal edu -n 3. Utilization of supervisors and professionals employees as trainers with a career preparation responsibility to subordinates 4. Development of a system of motivation and reward for upward progress 5. Re-examination of standardized requirements for lobs in upper levels 6. Effects of systematic restructuring of promotional and upgrading links within employment system 7. Effects of built-in education as part of regular workday or work year 8. Education provided close to or on work site A. Organizational and Performance Variables 9. Organizational variables Palumbo, D. J., "Power and Role Specificity in a. Centralization Perception of members of Organization Theory," the organization. Salary Public Administration ratio of upper-to-lower-Review, Volume 29, echelon personnel. Time No. 3 Aay-June frequency of supervisory 1969. checks. b. · Formelization Arount of work covered by written rules.

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		<u>Varialsk z</u>	Description	Source	Panc	
	c.	Specialization	Percent of total employees in a program that work exclusively in that program.			
	d.	Span of control	Average number of persons supervised directly by major division heads			
	e.	Styles of management	Felt pressure. Number and usefulness of mertings. Supervisor empathy. Degree of uncertainty in work. Supervisory completence in administrative, technical, & personal matters. Openness of communications.			
	f.	Professionalization	Years of professional or gradu- ate school training.			
	g.	Role conflict	Differences in norms about what the role of the health officer is and should be.			
	ħ.	Morale	Satisfaction with work.			
	3.	Gual agréement	Amount of disagreement in a department about the proper kind of action that should be taken in clinics. treatment, and in regard to the wider community.			
10.	Qut	put of performance variables				
	å.	froductivity	Ratio of services performed to man-hours put into each of five programs.			
	b.	Per unit costs	The cost in dollars to deliver one unit of service in each of the five program areas.			
	c.	Self-evaluation	Rating of total department by members of the department.			
	d.	Scope of programs	Number of different services offered and amount of effort - in each.			
	e.	Innovation	Percent of total effort devoted to new programs.			
11.	Rea	sons for reenlistment		Johnston, J. & Bachman,		
	ð.	Destre for Navy Areer		J. G., Youth in Transition Young Man and Military		
	ь.	Navy career opportunity iclosed better than civilian life		Service, Volume V, Survey Research Center, Institute		
	c.	Desire to serve country		sity of Michigan, Ann Arbor,		
	d.	Technical training opportunities.		Michigan, 1572.		
	¢.	Desire to travel				
	ŧ.	Fulfill military obligation at own time of choice	•			
12.	Oth	er variables which could affect Navy enlistment	\$			
	۵.	Effectiveness of programs designed to help disedvantaged youth		Ginzberg, Eli, "Man- power — The Cutting		
	ь.	The extent to which high unemployment rates reflect a refusal to accept jobs at minimum wages		Poverty and Human Resources, March- April 1970.		

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