# A STUDY OF THE CUIDANCE RESOURCES OF STUDENTS IN HIGH SCHOOLS AFFILIATED WITH THE NATIONAI UNION OF CHRISTIAN SCHOOLS IN MICHIGAN AND ILLINOIS 

Thesis for the Degree of Ph. D. MICHIGAN STATE UNIVERSITY<br>L. James Harvey<br>1960

This is to certify that the

## thesis entitled

## A STUDY OF THE GUIDANCe RESUURCES Ur S'IUDENTS IN HIGH SCHOOLS AFFILIATED wI'H THE NAIIONAL UNION OF CHRISIIAN <br> SCHUULS IN MICHIGAN <br> AND ILLINOIS <br> presented by

> L. James harvey
has been accepted towards fulfillment of the requirements for

Ph. D. degree inEducation


Date Qet. $21-1960$

4. There will be no differences between Christian school leaders and teachers perceptions of guidance sources the students should use and the students report of sources utilized in the eleven problem areas.
5. There will be no dif'ferences between the Christian school students on the basis of grade level, sex, and size of school concerning the sources of guidance they report they use in each of the problem areas.

## THE METHODOLOGY

The Mooney Problem Check List, High School Form, 1950 Revision, and a Sources of Guidance Questionnaire, developed for this study in Adult and Student rorms, were the two criterion instruments employed. Each instrument was administered to a $12.5 \%$ stratified random sampling of tenth, eleventh, and twelfth grade students in nine "Christian" high schools in Vichigan and Illinois. the questionnaire was also given to a sample of students irom four public schools matched on the basis of size and location with Christian schools in the study. The Adult Form of the questionnaire was administered to a $25 \%$ sampling of the Christian school teachers and to a leader group delineated by the Christian school administrators. The eleven problem areas of the liooney Froblem Check List formed the structure for the development of the questionnaire and for the comparisons made within the study. 'Ihe comparisons involving the students' problems were carried out through the use of the median test ior two samples. l'he Sources of Guidance Guestionnaire data were contrasted by
employing the chi square test and $2 \times 2$ contingency table. The .05 level of significance was used to accept or reject hypotineses.

## RESULTS S

1. There were significant differences between the sexes concerning problems marked but differences were not apparent between students on different grade levels or in different sized schools.
2. There were significant differences between Christian school males and public school males concerning problems checked but only one area of difference between Christian school females and public school females.
3. Christian school leaders and teachers agree concerning the "ideal" primary sources of guidance for Christian school students in ten of the eleven problem areas.
4. There are significant differences between the "ideal" sources of guidance listed by the leaders and teachers and the sources of guidance the students report they do use in over half of the Mooney problem areas.
5. Students of different sexes, grade levels, and sized schools do not differ basically in the sources of guidance they report using.

A STUDY OF IHE GUIDANCE RESOURCES OF STUDENT'S IN
 UNION OF CHRISTIAN SCHOOLS IN MICHIGAN AND ILLINOIS

by<br>$t e^{r}$<br>Lé James Harvey

## A THESIS

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        suomitted to
        michigan state University
in partial fulfillment of the requirements
            for the degree of
        DOCTOR OF FHILOSOHKIY
        College of Education
        Guidance and rersonnel Services
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Dedicated to my wife
Jackie

# L. James Harvey <br> Candidate for the degree of <br> Doctor of Philosophy 

Final Examination: October 19, 1960, College of Education
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The writer is deeply indebted to a number of people who have aided in the development and execution of this thesis. Acknowledgment and thanks are therefore extended to the following people:

To Dr. John E. Jordan, the Chairman of the doctoral committee, who was generous with his time and very helpful in his guidance throughout the study.

To the other members of the doctoral committee; Drs. Clyde Campbell, william Kell, and Buford Stefflre for their constructive criticisms and helpful suggestions.
''o Dr. William Farquhar for his aid in planning the study.

To vir. John VanderArk and especially ilir. Sidney Dykstra of the IVational Union of Christian Schools for their aid in carrying out the study.

To iverry Gregory for her help in editing the thesis.
To the Christian and public high school oificials who permitted the study to be carried out in their schools.
'Io the writer's wife and family without whose aid and support this study would not have been possible.

## TA LLE OF CONIENTS

I. THE PROBLEN ..... 1
Statement of the Problem ..... 1
Background of the Christian Schools . . . ..... 2Justification of the Study
Hypotheses ..... 4
Hypotheses Concerning Student Problems ..... 5
Hypotheses Concerning Guidance Resources ..... 6
Assumptions ..... 6
Limitations and Scope ..... 7
Definition of 'lerms ..... 9
Organization of Thesis ..... 10
II. REVIEN OF RELATED RESEARCH ..... 11
Studies Concerning the inooney Froblem Check List ..... 11
Related Studies of Adolescent Problems and Sources of Guidance ..... 20
summary ..... 31
III. METHODOLOGY AND PROCEDÜRE ..... 32
Description of Sample ..... 32
Classification of High Schools in the Sample ..... 32
High Schools in the Sample ..... 33
Individuals of the Sample ..... 36
Adequacy of Sample Generalization ..... 43
Evaluating Instruments ..... 44
ifooney Problem Check List ..... 44
Guestionnaire ..... 46
Pilot Study ..... 48
Instrument Administration ..... 49
Christian School Students ..... 49
Public School Students ..... 51
Christian School Leaders ..... 52
Christian School Teachers ..... 52
Analysis Procedures ..... 53
Mooney Problem Check List Data Questionnaire Data ..... 53
Summary ..... 59
IV. AN ANALYSIS OF DIF'FERENCES IN THE STUDEINTS' PERCEPTIONS OF THEIR PKOBLEMS ..... 61
Introduction ..... 61
Significant Findings ..... 62
Test of Sex Differences ..... 62
Test of Grade Differences ..... 64
Public-Christian School Contrasts ..... 64
School Size Contrasts ..... 65
Summary ..... 68
V. AN ANALYSIS OF THE DIFFERENCES IN CHRISTIAN STUDEINTS, LEADERS, AND TEACHERS PERCEP- TIONS OF PRIMARY SOURCES OF GUIDANCE ..... 70
Introduction ..... 70
Significant Findings ..... 71
Highest Frequency Responses ..... 71
Statistical Test Results ..... 74
Summary ..... 79
VI. SUIMivary Aivd CONCLUSIONS ..... 81
The Froblem ..... 81
The Findings ..... 86
Conclusions ..... 94
Implications ..... 96
BI BLIOGRAPHY ..... 111

## LIST OF TABLES

Tables ..... Page
III.l Location, Size of City, Size Classification, Enrollment, Number of Teachers, and Administrator Estimations of Percent of Rural-Urban, and College-Bound S'tudents in Christian and Pubiic high Schools in the Study • . . . . . . . . . . . . . . ..... 35
III. 2 A Summary of the Characteristics of theChristian School Sample by IndividualSchools, Sex, Grade Level, 'lotal Enroll-ment, with the Number and rercents ofEach Group in the Mooney and duestion-naire Sample . . . . . . . . . . . . 40-41
III.3 A Summary of the Characteristics of the Fublic School Sample by Individual Schools, Sex, Grade Level, 'lotal enroll- ment, with the Number and Percents of Each Group in the Mooney Sample . . . . . 42
III. 4 Sample $2 \times 2$ Contingency Table Used forinedian Test of Mooney rroblem CheckList Data54
III. 5 Sample Chi Square $2 \times 2$ Contingency Table Used for 'lests of Questionnaire Data with iist of Comparisons Nade ..... 57
IV. 1 Summary of Median Test Results of MooneyProblem Check List Data for ComparisonsBetween Christian School Males andFemales, Nale Seniors and Male Sophomores,Christian School ivales and Yublic Schoolviales, Christian School Females andrublic School Females on 'lotal andSerious rroblems in each of Eleven NooneyYroblem Areas . . . . . . . . . . . . .63
l'able ..... Page
IV. 2 Summary of Nedian liest Results of Mooney Froblem Check List Data for Compari- sons Between Christian School Students in Class A Schools and Class C-D Schools on Total and Serious Problems in each of the Eleven Mooney Problem Areas ..... 66
V.l The Primary Sources of Guidance as Selected by the Cinistian School Leaders, leachers, Total Students, Nales, Females, Seniors, Sophomores, Class A and Class C-D Groups with the Fercentage or Each Group Select- ing the Frimary Source rirst in each of cileven iviooney froblem Areas . . . . . . . ..... 73
V. 2 A Summary of the Kesults of the lini Square test Comparing Frimary Sources of Guid- ance Contrasts Between Christian School Leaders and Ieachers, Leaders and Seniors, Leaders and Sophomores, Teachers and Seniors, l'eachers and Sophomores, Seniors and Sophomores, Niales and remales, and four Class $A$ and Llass C-D Groups in each of the Eleven inooney Problem Areas ..... 75-76
Graphs Fage
I Public and Christian School Student Re- sponses on "inooney"-Total Froblems ..... 128
II Public and Christian School Student Re- sponses on "iriooney"-Serious Froblems ..... 129
III Public and Christian School Student Re- sponses on "iiooney"-Total Problems by Sexes ..... 130
IV Public and Christian School Student Re- sponses on "iiooney"-Serious Problems by Sexes ..... 131
V Christian School Student Responses on "ivooney"-Total rroblems by Grades ..... 132
VI Christian School Student Responses on
"inooney"-serious Problems by Grades ..... 133

## LIST OF ArPEivDICES

Pase
APrendix A "Letter Questionnaire" ..... 114
ArPENDIX B "Mooney Problem Check List" ..... 116
APFENDIX C "Sources of Guidance Questionnaire" ..... 120
APPENDIX D "Graphs of Nooney Problem Check List Data ..... 127
APPENDIX E "Statistical Work Sheets - Median liests" ..... 134
APPENDIX $F$ "Statistical Work Sheets - Chi square Tests 153

## CHAPTER I

THE PROBLEM

The Christian schools in this study, due largely to their conservative religious background, have been cautious and slow to accept innovations in education. This Christian school program is typified by a traditional educational philosophy. Because of this conservative philosophy, the Christian schools have done little in the field of guidance. Currently, there has been an expression of concern about the guidance role of the Christian school system. Christian school leaders are discussing the roles of the school, the home and the church in the guidance of their young people. This study grows from the need for basic information about the guidance of these young people which will aid the leaders in doing a more adequate job of thinking and planning.

## STATEMENT OP THE PROBLEM

The present study is concerned with several basic questions related to the guidance of students in high schools affiliated with the National Union of Christian Schools. What types of problems do the students report having in adjustment? How do the problems of the Christian school students differ from those reported by comparable public high schooi students? Where do Christian school leaders and teachers perceive that
the students should receive aid in solving their problems? Where do the students report they receive their help in the different problem areasi The study will be concerned with the investigation of these questions.

## BACKGROUND OF THE CHRISTIAN SCHOOLS

To aid in the orientation to the present study, a brief historical review of the Christian school movement follows. The data for the review has been gathered from two source materials; The Christian Reformed Church by John Kromminga (15) and The Netherlanders in America by Henry S. Lucas (17).

In 1847 a group of Dutch immigrants came to America and settled in Holland, Michigan. One of the primary reasons they came was because of state opposition in the Netherlands to establishing denominational education for their children. Soon differences arose within the group as to whether they should unite with the Dutch Reformed Church in America and whether they should set up denominational schools, or attempt to control the public schools in the settlement. The majority decided in favor of uniting with the Dutch Reformed and against setting up denominational schools. A minority group strongly dissented and founded a new denomination called the Christian Reformed. They established their first denominational school in Holland, Michigan, in 1857.

Currently, this system of Christian education includes 221 school units, 42,980 pupils, (kindergarten through twelfth grade) and 1015 teachers in 22 states and three provinces of Canada (5:20). It also includes Calvin College and Seminary located in Grand Rapids, Michigan.

The Christian Reformed denomination in 1947 numbered 31,770 families and 134,608 individuals including baptized children. Though the denomination is found in approximately half of the states in the country, about $50 \%$ of the total membership is located in the state of Michigan.

The school system is closely related to the Christian Reformed Church; however, only the college and seminary are administered by the church. The Christian day schools are controlled by parent school societies which are, in fact, non-profit corporations incorporated under state law. The model constitution for these school corporations or societies provides active membership in a society for anjone over twentyone who contributes at least $\$ 12.00$ a year to the society. Memberships are left to the discretion of each society, though they frequently follow the pattern of the model constitution. The basic reason that control of the day schools resides with the school societies rather than the church is a belief that education is the primary responsibility of the parent.

The school societies are autonomous and each has the final authority for its own school. The societies elect a school board which is given authority to carry out the day-to-day business of running the school. In general, the school boards have responsibility for minor policy decisions, with major policy decisions being reierred to the school society. The actual delegated power of the board may vary from school to school though in general it follows the above pattern.

The Christian school population is composed of children from the Christian Reformed Church, the Protestant Reformed Church, the Dutch Reformed Church, the Orthodox Presbyterian Church, and a few from other fundamental evangelical cnurcnes. Most teachers in this Christian school system receive their training at Calvin College.

The Christian schools are afifiliated with the National Union of Christian Schools which has its headquarters in Grand Rapids, Michigan. The main purposes of this organization are to coordinate and promote the Christian school movement. The National Union pubiishes a monthly magazine, The Christian Home and School, sponsors a scholarship program, conducts research, disseminates information, promotes the writing of textbooks, helps establish new schools, and aids in teacher placement.

JUSTIFICATION OF THE STUDY

There are several justifications for the present study. No adequate description of the problems and sources of help of Caristian school students has been made. Nevertheless, there has been extensive discussion within the schools of their role in guidance which necessitates a clarification of the issues involved. When the study was first conceived, it met with the approval of many within the Christian schools and has had the support of the National Union of Christian Schools in the form of supplies, office help, postage, and requests for cooperation in the study. The National Union has agreed to publish the results in The Christian Home and

School. The results should help clarify possible discrepancies between where adults feel the Christian school students should get help with their problems and where the students report they do ootain their help. The study should have implications for the development of school guidance services; it may further aid in curriculum development, parent-child relations, pastoral counseling, and the church instructional program. Lastly, because the study is the first of this type to explore the problem of guidance in the Christian schools, it may provide a basis for further similar research.

## HYPOIHESES

Because no similar study has been done in these schools, and because of the lack of specific theory to indicate the direction of differences, a two-tailed test is appropriate. The following broad null hypotheses will be tested: Hypotieses Concerning Student Problems

1. There will be no differences in the number of total problems and serious problems indicated in each of the eleven Miooney problem areas among Christian school students when compared on the basis of grade level, sex, and size of school.
2. There will be no differences in the number of total problems and serious problems marked in each of the eleven viooney problem areas between the Christian school students and comparable public school students.

## Hypotheses Concerning Guidance Resources

1. There will be no difference between where Christian school leaders and Christian school teachers perceive the students should receive their guidence in the eleven problem areas on the Mooney Problem Check List.
2. There will be no differences between the students on the basis of grade level, sex, and size of school and where they report they do receive their guidance in each of the eleven Mooney problem areas.
3. There will be no differences between where Christian school leaders and teachers perceive the students should receive their guidance and between where the students report they do receive their guidence in each of the eleven Mooney problem areas.

## ASSUMPTIONS

It is always necessary to base a study on certain assumptions. In the present study it is assumed:

1. That adolescents face a number of important problems (i.e., problems of vocational-educational choice, per-sonal-social adjustments, etc) during this formative period of life.
2. That adolescents are not capable of solving all of these problems without adult guidance and help.
3. That as adolescents receive better information and guidance, they are more likely to solve their problems in such a manner as to provide fewer anxieties and a happier and more useful life.
4. That in order to provide a workaole guidance program, it is necessary for the leaders of a group, those dealing with the students, and the students themselves to be in consistent agreement as to the approved sources of guidance so as to clarify responsibilities and channels of communication.

## LImITATIONS AND SCOPE

Any study of this type has basic limitations. The major limitations of the study are:

1. A questionnaire has inherent limitations. Problems of communication and accurate reporting are recognized. The questionnaire used in this study is anonymous so as to remove the bias of threat; however, while overcoming certain difficulties of signed questionnaires, the anonymity of the instrument added a further limitation in that students could falsify and treat the material in a light manner if they so desired.
2. A student's own report is subject to deficiencies due to possible difficulties in analyzing his experiences and reporting them accurately.
3. A check list may give undue emphasis to trivial problems or to problems that have been temporarily dismissed from the student's mind.
4. A dificiculty exists a so in the ract that student problems are grouped in eleven areas, and as problems frequently appear in clusters rather than singly, the grouping presents a problem of classification to the stuadent. for instance, an emotional problem of some intensity will not be
self-contained but may make itself felt in the areas of "Personal-Psychological Relations" and/or "Home and Family" as well.
5. A limitation is contained in the fact that for purposes of the study the eleven Mooney problem areas must be summarized for use in designating sources of help and inherent semantic difficulties arise in communicating these areas to the student.
6. The possibility also exists of sampling error inasmuch as sampling techniques were applied. A description of the nature of the limitations of the sample are discussed in Chapter III.

The study will be limited to nine of the ten Christian high schools in Michigan and Illinois. The study originally called for all ten high schools in these two states, but one school asked that they not be included in the study. The study was limited to Michigan and Illinois because a personal administration of the questionnaire was deemed advisable. The study does encompass over $50 \%$ of the nation-wide Christian high school students even though restricted to the Midwest. While the study is limited to Michigan and Ilifnois, the results should have relevance for those Christian high schools in other atates. This can be stated because the Christian high schools are much alike wherever they are found. They enroll students from similar social, economic, and racial backgrounds; the large majority of teachers are trained in one college; the curricula are similar and the real leadership within the schools is provided by a few
people in Grand Rapids, Michigan. For these reasons, a study conducted in the Middle West should have applicability to some extent in the Christian schools in other states.

## DEFINITION OF TERMS

For purposes of clarification cortain terms should be defined. The following definitions will aid in understanding the present study:

1. The Christian schools are defined as those schools affiliated with the National Union of Christian Schools.
2. Christian school leaders are defined as those people perceived to be outstanding leaders in the Christian school movement as determined by a poll of the school administrators within the Christian schools.
3. Christian school teachers are defined as being those involved in teaching (half time or more) within the Christian schools in grades ten, eleven, and twelve.
4. Christian school students are defined as those students in grades ten, eleven, and twelve in regular attendance at one of the nine high schools in michigan and Illinois affiliated with the National Union of Christian Schools.
5. The problems and problem areas will be those designated on the Mooney Problem Check List, High School Form, 1950 revision.
6. The schools in the study are classified by size into ciasses A, B, C, and D based on the Michigan High School Athletic Classifications for the year 1958 (19). See Chapter III for a further description of classification procedure.

## ORGANIZATION OF THESIS

The thesis is organized according to the following plan:

Chapter I includes a statement of the problem and a delineation of the study.

Chapter II will consist of a review of related studies.
In Chapter III the methodology and procedure involved in the study are described.

Chapter IV and V are devoted to the analysis of the data. A summary of the Mooney Problem Check List data and the hypotheses regarding student problems will be found in Chapter IV. In Chapter V the questionnaire data and the hypotheses concerning the sources of student guidance will be discussed.

The summary and conclusions of the study are contained in themequintrorg Chapter VI.

## CHAPTER II

## REVIEK OF RELATED RESEARCH

The Mooney Problem Check List has been used extensively since its development in the early 1940's. The Check List is published in three similar forms: College, High School, and Junior High School Forms. In 1950 the instrument was revised, and it is this revision of the High School Form that is used in the current study: In this chapter certain selected studies are reviewed concerning the Mooney Problem Check List and its uses which are relative to the present study. ${ }^{1}$ A review of selected studies of student sources of guidance will also be undertaken to aid orientation to the study.

STUDIES CONCERNING THE MOONEY PROBLEM CHECK LIST

Mooney, in reporting the validity and reliability of the Mooney Problem Check List (20), makes the point that both are difficult to assess. Because the Check List has many uses, its validity should be studied in the light of the use to be made of it, and for this reason no validity coefficients are computed or quoted in the Mooney Manual (20).

Two recent studies have attempted to evaluate the vaIidity of the Mooney Problem Check List. Singer and Stefflre
$1_{\text {A more detailed description of the nature of the Mooney }}$ Problem Check List is reported in Chapter III.
(26) assessed the concurrent validity of the Mooney by comparing the results from 109 veterans on the GuilfordZimmerman Temperament Survey with those on the Mooney Problem Check List, Adult Form. The veterans were on unselected group who had come for vocational counseling to a counseling center in a large metropolitan area $(26: 299)$. The Adult Form is similar enough to the High School Form so that the findings are relevant. Singer and Stefflre found that "many" checks on the check List were apt to indicate undesirable temperament traits (26:301). They found a significant correlation between the veterans not deciding on a vocation during counseling and the number of problems they checked on the "Occupations" area of the Chock List $(26: 301)$. This seems to indicate that the Mooney Problem Check List has some validity in uncovering the vital areas of personal concern.

A more extensive study on the validity of the Mooney was carried out by Charies McIntyre (18). In the study, seven a priori hypotheses were constructed and tested. The hypotheses were:

1. The less intelligent students would have more problems in the "Adjustment to School Work ${ }^{\text {n }}$ problem area.
2. Seniors would have more problems than others in the "Future: Vocational, Educational" problem area.
3. Students of broken homes would have more problems in the "Home and Family" problem area. 4. Boys would have more problems in the "Adjustment to School Work" probiem area. 5. Boys would have more problems in the "Future: Vocational, Educational" problem area.
0 . Negroes would have more problems in the
"Finances, Living Conditions and Employment" problem area.
4. Girls would have more problems in the "Courtship, Sex and Marriage" problem area (18:270).

The High School Form of the Check List was given to 407 stadents in a medium sized Pennsylvania city. Following the administrations the students were grouped into the categaries called for by the hypotheses and correlations were computed. Hypotheses one and two were confirmed at the . 01 level of confidence; and hypotheses three, four, five, and six were confirmed at the . 05 level. Hypothesis seven was not confirmed (18:271). McIntyre concludes by saying, "It is concluded that these findings present prima facie evidence for the validity of the Check List (18:272)."

The calculation of reliability for the Mooney Problem Check List is perhaps more difficult than gaining evidence of validity. Because of the nature of the Check List, the usual forms of calculating reliability are of little value. The only possible test of reliability is the Test-Retest method. The weakness inherent in this method is that if the retest is given too soon, recall and memory will inffuence the results. If the retest is too far apart, then the problems of the person involved may change thus affecting the reliability coefficient unjustly. Mooney does, however, quote two studies using this method (20:9). Rank order correlations between . 90 and . 98 were found. Because of the limitations mentioned, these reliability coefficients at best represent onfy a qualified support for the reliability of the Check List.

The fact that a certain degree of validity seems to have been established would tend to support the reliability of the instrument. This, plus the fact that the Check List has been widely used and accepted, led to its being employed in the current study.

The question of whether check lists should be signed or unsigned when used in a survey was investigated by Robert P. Fischer (10). Fischer was attempting to confirm or disprove a study by W. C. Olsen (22) in which Olsen found that college women tended to report more symptoms on the Woodworth-Mathews Personal Data Report when the questionnaire was left unsigned. Fischer used the Mooney Problem Check List, College rorm, and administered it to 102 college women. It was first administered and signed by the women and one week later given anonymously to them. Through a special system of pin pricks in the anonymous Check Lists the tests of each woman were compared $(10: 222)$. The results showed that in the total problems marked, there were no statistically significant differences although a slight increase was noted for the Check Lists left unsigned. In the area of serious problems there was a statistically significant increase on the unsigned Check Lists (10:225). Fischer concluded that withholding signatures tended to elicit more serious problems and that on highly personalized items more returns would be forthcoming if names were withheld (10:225). Due to the study by Fischer in confirming Olsen's findings and the fact that Mooney himself suggests that anonymity is helpful in eliciting greater responses (20:5), the Check List was administered anonymously in the present study.

William H. Brown conducted a study at North Carolina College in Durham, North Carolina, with the College Form of the Check List (2). An attempt was made to compare a group of probationary students (probationary for academic reasons) and a group of honor students on the basis of their Check List results. Brown found that in the problem area "Adjustment to College Work" there was a significant difference in the number of problems checked between the two groups. The probationary students checked a greater number (2:16). This finding seems to confirm the validity of the Mooney in indicating true areas of concern. Brown also found that the probationary students checked a statistically significant greater number of total problems than did the honor students (2:15). This last finding is apt to be misinterpreted, and Brown does not clearly define its relevance. On the surface, it would seem to indicate a greater number of problems among the probationary students. However, the difference between the groups may be due to other factors. The probationera may have been more willing to admit their problems than were the honor students who may have been more defensive or selfreliant. This illustrates a point concerning the use of the Mooney. The total number of problems checked should not be a point upon which great weight is placed. In conducting group surveys where between-group comparisons are to be made, the merit in using the Mooney comes from testing for proportionate differences between the groups. In Brown's study the fact that the probationary students were more concerned about problems of school work (i.e. this problem area ranked higher
in their hierarchy of concern than it did that of the honor students) may be a significant finding, but the fact that they checked a greater number of problems per se has little proven relevance.

Buchanan and Bryan conducted a study in Iowa drawing on the Mooney Problem Check List responses in nine high schools (3). They used a sample of 764 students who were grouped and compared on the basis of grade, size of school, age, sex, residence, and occupation of father to test for basic differences in each of the eleven problem areas. The main criticism of this study is similar to the previous one. Though the authors of the study do not go into detail concerning their analysis, some shortcomings are obvious. Instead of a proportionate analysis, comparison was made and reported solely on the basis of the number of problems checked in each category. This is evidenced by the fact that in all of the eleven problem areas the students in the larger schools were stated to have more problems. This finding could just as easily mean that the students in the larger schools were more aware of their problems and more willing to check then. A proportionate comparison would have indicated the students relative concern in each problem area in comparison with the students from the other schools. This type of finding may have had greater significance. This study also may be criticized because the school-size divisions were less than 100, 100 to 200, and over 200 students. These enrollments do not seem to be sufficiently different to enable one to say that school size has been a dominant factor.

Fick conducted a study in 1952 of problem check lists and their possible uses (9). At least three of his conclusions bear on the present study. After surveying a number of check lists, Fick concluded two were better designed than the others. One was the Science Research Associates Youth Inventory and the other, the Mooney Problem Check List (9:411). One of the valid uses of the check lists, as stated by fick, is group surveys to determine student problems upon which to base curriculum changes and personnel programs (9:412). This is one of the purposes for which the current study was undertaken. Among the advantages Fick listed for the Mooney is its broad coverage of the students' problem world. This coverage insures a good sampling of the students problems. One of the limitations listed was that a check list is not a "depth" technique. It will not reveal unconscious needs or drives which the person does not wish to reveal. A further limitation is that the Mooney is not a scale to be mathematically manipuLated, and it cannot be used to classify mental disorders as can some clinical instruments (9:412). This study was reviewod because it presents the uses and misuses of the Mooney. It confirms that within limitations the Mooney can be used advantageously. It is within these limitations that the Mooney is used in this study.

The Southern States Work Conference on Educational Problems, which is sponsored by the State Educational Associations and State Departments of Education in fourteen southern states, in 1956 concluded a study of the needs of southern youth (13). To help assess the needs of their
students and the guidance services in the schools, this group used both the Mooney Problem Check List (High School and Junior High Forms) and the Science Research Associates Youth Inventory (High School Form). The Kiooney, Form H, was given to over 1000 students in the fourteen states in an attempt to got a representative sampling (13:11). The study does not report the details of the administration of the instruments nor does it contain any statistical analyses. The frequencies are the only figures reported. The most frequently checked problems are also listed. The problem areas and the Prequency with which the problems within them were checked is as follows (13:12):


This study illustrates a common use of the mooney and is one of the most extensive recent administrations of the High School Form that has been reported.

A further reason for including the Southern States work Conference Study in this review is that it presents a typical profile of responses. It is evident after critically reading a number of studies involving the Mooney that certain general characteristics in the responses can frequently be expected. This is a finding also mentioned by Singer and Stefflre (20:301) in their study. The problem areas that of ten rate high in the concern of young people are "Adjustment to School Work," "Social-Psychological Relations," and "Personal-Psychological Relations." The problem areas of "Home and Family," "Morals and Religion," and "Curriculum and Teaching Procedures" on the other hand, are frequentiy the lowest areas of concern. While these response patterns are often found, it also is apparent that differences in responses occur. Variance is evident between studies indicating there is a basis for comparison between groups. The fact that similarities in response patterns are found may be a reflection of a similarity of actual problem patterns among adolescents.

Leslie Parrot conducted a study in six Nazarene Colleges in 1958 using the Mooney Problem Check List, College Form (23). This study has contributed in large measure to the methodology of the current study. Parrot's investigation involves both the study of student problems and sources of guidance. It is reviered in detail at the ond of this chapter. A further orientation to the use of the Mooney Problem Check List in group surveys can be obtained by reading the Review of Literature in Parrot's dissertation (23).

## RELATED STUDIES OF ADOLESCENT PROBLEMS AND SOURCES OF GUIDANCE

Two of the studies in the area of adolescent problems which are frequently quoted in the literature are companion studies carried out among Roman Catholic high school students. One study by Sister Mildred Knoebber (14) deals with adolescent girls while the companion study by Urban Fleege (11) concerns adolescent boys.

Sister Knoebber conducted her study in twenty-two Roman Catholic and eight public high schools in twonty different states (14:184). A questionnaire which took twentythree to forty minutes to complete was given to the girls aged twelve to twenty-two with over $50 \%$ in the fifteen to sixteen age range. The sample included 3000 girls (14:185). The questionnaire contained sixty general questions and represented a comprehensive coverage of the girls' problems. Knoebber was mindful of the noed for good rapport and also the need to insure the girls that their responses would be kept in strict confidence (14:183). In general, Knoebber's study is comprehensive, but it has limitations concerning the girls' sources of guidance. One question Knoebber asked was, "To whom do you talk freely about anything and overything ${ }^{\prime \prime}$ This question seems to be too broad to gain valid and useful responses concerning guidance. A question such as this requires a generalization beyond the capability of adolescents. By asking about specific problem areas in which students have problems such as the area of vocational choice or the area of religion one is more apt to get a true picture
of the student's sources of guidance. Knoebber does ask about the areas of sex and vocational choice, two areas covered in nearly all the studies, but she neglects many problem areas which are of importance. The present study, attempting to gain a broader view of the help students receive, inquires into eleven different problem areas.

The actual results of Knoebber's study are somewhat suspect at this time because the study is over twenty years old and was conducted during the depression. Since this study was conducted, the time element and the socioeconomic conditions may have changed the guidance picture.

One finding of Knoebber which seems to bave some validity was that girls tend to rely much more on their parents for their sex information and vocational guidance than do the boys (14:76-90). This is a finding also common to the studies of Bell (1), Landis (16), and Duvall and Motz (7).

In 1945 Urban Fleege followed Knoebber's pattern with a study of Roman Catholic boys (11). He developed a questionnaire and administered it to a sample of 2000 boys. The study is well done except the section in which Fleege investigates the sources of guidence used by the adolescent boys. Fleege followed the pattern of many of the early studies in this field. He asked the boys what their sources of guidance were in only the two problem areas of sex and vocational choice (11:101-272). Again, as in Knoebber's study, the criticism In regard to this is that while these are two important problem areas in which young people need good guidance, they are
not the only ones. These studies consequently lack breadth and do not allow one to obtain an over-all picture of the sources of guidance used by these young people.

Fleege did, however, find some facts that are representative of studies in this area. He found that the boys most important source of sex information was their companions (11:272). Fleege also found, when asking the students what worried them most, that school work and closely related problems ranked first (11:101).

The studies of Knoebber and Fleege consisted entirely of reporting in frequencies and percentages the returns of the questionnaire. They were typical of the vast majority of these studies because no sophisticated statistical procedures were employed.

Glenn Ramsey, as a preface to his study, reviewed the important studies relative to the sources of sex information for boys (25). He roviewod the studies of Exner (1915), Hughes (1926), Archilles (1923), and Peck and Wills (1923), all of which agreed that the boys' companions were their chief source of sex information (25:329). In his own atudy of 291 boys in early adolescence, Ramsey found that $90 \%$ of their flrst sex information came from male companions (25: 350). He divided the sex information into nine different areas, such as the origin of babies, masturbation, contraceptives, etc., and he found that in each area the companions provided the most significant information (25:350). Ramsey was also concerned with parental sex instruction. One
of his findings revealed that only $13 \%$ of the boys rated their parents' sex instruction as fair or adequate (25:352). The rest of the boys rated it as poor or nonexistent. The study of Ramsey is cited because it reviews and confirms a common finding in studies of sex information; namely, the companions of the boys are the most important source of information. The study is typical of the studies involving sources of guidance because it selects the area of sex information to study and does not include the many other important areas of adolescent guidance.

Paul Landis added a new dimension to this type of research when he conducted a study at Washington State College (16). He studied a group of 462 single girls. The girls and their mothers were given a questionnaire in an attempt to study differences between generations (16:155). The question was asked, "what is the best way for a child to learn about sex?" The two generations agreed by both choosing the parents as the best source. Ninety-three per cent of the mothers and $87 \%$ of the daughters listed the parents in answer to the question (10:150). The next most important source they felt should be systematic instruction in the schools with $55 \%$ of the mothers and $55 \%$ of the daughters marking this source (16:156). When asked where they had received their first sex information, "parents and relatives" was listed as the most important source with $48 \%$ of the mothers and $77 \%$ of the daughters mentioning it as the most important source of guidance (16:156). This difference in percentages may be indicative of an increase in the parental role in sex education. The
parents seemed to be more involved in the present generation than in the past generation in this respect. The study is again limited to sex information. However, it does attempt to study differences between generations, and it does confirm other studies in the finding that girls tend to rely more on their parents than on their companions for sex information. As one aspect of their study Luvall and Motz studied the guidance of girls in 1945 (7). They were particularly interested in finding the influence of age and educational level on social experience and personal-family adjustments. In the area concerning sources of sex information for girls, they found little influence as a result of these factors. A A1 the groups reported the parents being the most important source of guidance (7:417). Duvall and Motz did find that in the older groups there was a trend toward more reliance upon other children or companions (7:4l7).

A recent survey of this subject was carried out by Eugene Gilbert of the Gi」bert Youth Research Company (12). When asking 750 young recently married couples where they received their sex information, $23 \%$ of the husbands and $29 \%$ of the wives said from their parents, while $65 \%$ of the men and $55 \%$ of the women said from friends their own age (12). The figures for the men agree with the other studies, but the figures for the women do not agree with these studies. This latter finding may be due to an actual difference in the populations studied. It may also be explained by the fact that perhaps when husbands and wives were interviewed together the
wife tended to agree with her husband's answers. This study, while lacking controls and statistical analysis, is included because it is the most recently reported one in this area.

Howard Bell in his study of the youth of Maryland, for the American Council on Youth, included questions as to where the young people received their sex information as well as where they recelved their vocational guidance (1). Bell's sample was probably the most carefully selected of any of the studies as it was an attempt to gather a sample representative of the youth of America. The study included 13,528 students, ages sixteen to twenty-four, and data was collected by carefully standardized interviews (1:9). In the matter of sex information, $66 \%$ of the boys and $40 \%$ of the girls reported their sex knowledge was limited to what their companions had told them (1:270). Parents ranked first for girls ( $45 \%$ ) and second for boys ( $16.8 \%$ ). This agrees with earlier studies. In the matter of vocational guidance the school was listed as the most important source of guidance, though only $30 \%$ of the twelfth graders reported having received any guidance in this area at all (1:75). The study again deals with two aspects of adolescent guidance; however, it is one of the most extensive efforts in the area.

Edwin Peters in a study among 700 Missouri high school seniors, at a voluntary vocational conference, asked what had been the most important factors in influencing the selection of the vocation they were about to enter (24:428-4-29). The answers led to a conclusion by Peters that the home or parent is the greatest agency in determining the vocation of the
young person (24:430). This would seem to contradict Bell's finding. However, the difference in findings may be in the way the questions were asked. Bell's question refers specifically to "where" guidance had been received, while Peters asks "who" had influenced their choice of a vocation. It is quite compatible to believe that while parents do not provide much information about vocations, they are important in influencing a decision for a vocation by one of their children. Another contemporary study of Bell's was one by Waiter Eells who attempted to assess the school's role in providing guidance to adolescents (8). The study was carried out on a national basis and sampled 17,000 students in 198 representative public and private secondary schools. Eells broke with the tradition of these early studies and included six areas of guidance instead of the usual one or two areas. The study did not attempt to locate guidance sources but sought to determine from student perceptions the degree to which they had received helpful guidance in certain problem areas from the achool. The areas studied were the library, health, education, vocation, leisure, and personal problems (8:275). Eells studied the relationship of grade level, sex, I.Q. level, and type of school (private or public) to the amount of guidance the students had received from their school in the above six areas. Eells found that grade level had no affect upon the guidance received. He also found that the lower I.Q. levels, the private school students, and the girls tended to got slightly better help than the higher I.Q. levels, the
public school students, and the boys (8:267). Eells' general over-all observation was that the guidance received by the students was poor (8:275).

Ruth Strang reported a study which consisted of an analysis of 573 compositions of students in grades eight through twelve in carefully selected schools. The topic of the composition was "what help or guidance do persons my age want from adults?" (27). The study was carried out in a variety of institutions representing private, Roman Catholic, and public schools in which different economic levels were represented (27:523). The areas of help in which the students indicated they wanted assistance were in the order of importance as follows: (1) social relations, (2) educational guidance, (3) morals or religious questions, (4) vocational guidance, and (5) money problems (27:524). Only a small percentage indicated they wished no help at all. This study is somewhat limited because of its subjectivity. The students were allowed to write compositions on the previously stated question. The interpretation of this type of material and the derivation of valid generalizations become difficult. Howover, the atudy is of recent vintage, and it is important because it gives some indication of the areas in which young people would like help. Strang concluded her book with a discussion of why young people do not go to their parents for more guidance. In the discussion the following reasons were stated: (1) adolescent desire to be independent, (2) distrust of adult knowledge, (3) dislike of having serious problems
minimized, (4) resentment of incessant gratuitous advice, (5) feeling misunderstood, and (6) feeling parents are to blame for adolescent mistakes and delinquency (27:530-535). In 1958 Parrot conducted a study of personnel services In six church-related colleges (23). Of the studies cited in this review of literature, Parrot's is the most profound. The present study is largely based upon the methodology of Paprot's dissertation.

Parrot had three main objectives in his study. One objective was to obtain the administrator's perceptions of the personnel services functioning in the six colleges. Another objective was to test faculty and student awareness of the personnel program as perceived by the administrators. The final objective was to find the student's perceptions of their own problems (23:3).

To obtain his first objective Parrot sought the admin1strator's perceptions of the personnel programs from interviews and witeaps in the college catalogs.

The second objective of Parrot's study, to study faculty and student perceptions of the personnel program, was developed through the use of a questionnaire. The instructions on the instrument required the respondents to list the sources of help available on their campus in each of the eleven problem areas contained in the Mooney Problem Check List. Parrot then took the primary source listed by each group in each problem area and applied the chi square test of significance to the data. Within each college he compared
the faculty and seniors perceptions and the senior and freshmen perceptions. At this point Parrot could have strengthened his study by adding a faculty-freshmen comparison. It is important to contrast the faculty with the least sophisticated group (freshmen) as well as the most sophisticated (seniors) group. In Parpot's study this can only be done by inference from the two comparisons he did make. The present study has employed the procedure of making contrasts wif both the most and least sophisticated groups in the study.

Another point concerning Parrotis study is that he did not make clear how he derived the frequencies which he used in the chi square test. His questionnaire left four spaces below each problem area for the respondents to list sources of help, but they were not instructed concerning how many sources to list or if they should be listed in the order of importance. Just how Parrot catagorized them and developed his frequencies is left unexplained.

The questionnaire employed in the present study, while basically similar to Parrot's in nature, was more highly stractured. A list of sources of guidance was included, and the directions were more inclusive. Five spaces were left beneath each problem area. The respondents were asked to list the sources in the order of importance if more than one was listed. This was done to better fit the questionnaire to the abilities of the high school students and to make the data adaptive to the statistical test employed. The current study also uses both the questionnaire and Mooney as anony-
mous instruments. Parrot uses both with the students signing their names. On the basis of the research cited earlier In this chapter, it is believed that more accurate perceptions are revealed if students are not required to be identified.

The last objective of Parrot's study involved studying the problems of the college students. This he did through the use of the Mooney Problem Check List, College Form. The chi square test for $K$ related samples was applied to the results (23:54). Parrot compared five student groupings among the six colleges to test for basic differences in problem patterns. They were male freshmen; male sophomores, juniors, and seniors; female freshmen; female sophomores, juniors, and seniors; and all married students. It is conceivable that in putting the sophomores, juniors, and seniors together in the comparisons that Parrot lost an opportunity to observe some distinctions which may have been present.

A question also should be raised concerning Parrot's use of the chi square test for $K$ related samples. In his tables Parrot compared simultaneously several groups of students of varying size on the basis of the number of problems they had marked. In this manner, independence was lost in the cells. The current study, to avoid this error, has used the median test.

In general, Parrot's study was a sophisticated approach to the study of student problems and their sources of guide ance. In addition to the previously mentioned factors, Parrot visited each college being careful to obtain an ade-
quate sample as well as to standardize the instrument's administration procedures. The latter point is one few studles have reported.

SUMMARY

Selected studies have been reviewed which use the Mooney Problem Check List and which deal with student problems and sources of guidance. The studies reviewed help to present a background and orientation to the present study. The studies deal with various aspects of the problem being investigated and were selected to be representative of the type of study that has been done in this general area. The studies involving the Mooney Problem Check List show it to be an instrument which has some validity in uncovering the problems of people. The studies involving sources of guidance in general do not cover the subject thoroughly but only concern themselves with one or two specific problem areas. Only Parrot's study develops a breadth and methodology suitable to the problem at hand.

## CHAPIER III

## INELHODOEOGY AND PROCEDURE

The development of this design was based on the research of the previous chapter. the details of the research design involving a description of the sample, evaluating instruments, data collecting procedures, and method of analysis follows.

## DESCRIPTION Or THE SAMPLE

The study is based upon responses of $\mathrm{f}^{\prime}$ our separate groups: Christian school students, public school students, Christian school leaders, and Cinristian school teachers. 'ine Christian school students, leaders, and teachers were all asked to designate sources of guiaance for eleven basic problem areas of youth. A survey was made of the nature of the problems of the Christian school stuaents by administering the iriooney Froolem Check List, Ligh School rorm, 1950 Revision. L'he same form or the Check List was aoministered to a sample of public school students for comparative normative purposes.

## Classification of High Schools in the Sample

To determine what relationship, if any, existed between school size and the problems under study, it was necessary to categorize the high schools according to size. A three-class system based on student enrollments in grades nine through twelve was used.

Class A--900 or more students
Class B--400-899 students
Class $C$ and Dr-399 students or less ${ }^{1}$
Three of the Christian schools have only grades ten, eleven, and twelve. For these schools, the standard procedure of adding one-third to the total enrollment of the three grades was used to adjust the over-all classification (19:213).

The usual Class $C$ and $D$ categories were combined in the study because of extreme limitations in the Class D Christian school onrollments.

## High Schools in the Sample

As stated previously both Christian and public high schools were involved in the study. A further orientation to the study is provided in a description of the high achool sample.

Christian High Schools Ten high schools affiliated with the National Union of Christian Schools in Michigan and Illinois were originally selected to be included. One of the schools (Holland Christian High School) preferred not to
$l_{\text {This is an adaptation of the Michigan High School }}$ Athletic Classification System for Lower Peninsula Schools (19).
participate. The enrollments in the nine remaining schools represent slightly over $50 \%$ of the national Christian high school enrollment.

The Christian schools differ in a number of characteristics which have been sumarized in Table III.l. They are found in communities which range in population from 500 to over 3,500,000. The enrollments range from 99 to over 1100 students in grades ten, eleven, and twelve. The smallest school employs six teachers and the largest forty-five teachers. According to the estimations of the administrators In one extreme, $99 \%$ of the students in one school live on farms in contrast to another school where all students live In a large city. In one community only $10 \%$ of the high school graduates go on to college in contrast to another community where $65 \%$ attend college. While the characteristics of the individual schools vary, the philosophy, curriculum, and teaching procedure of the schools are similar, reo flecting the conservative nature of the sponsoring religious groups. Emphasis is on traditional education, stressing the liberal arts and college preparatory programs.

Public High Schools In order to hold community differences to a minimum in the Christian-public school comparisons, four public high schools identical in size and location to a Christian school were selected. The Christian high school principals listed all area public high schools which Were in the same size category as their schools. The list of public high schools was divided into the four size categories,
TABLE III. 1

| LOCATION, SIZE OF CITY, SIZE CLASSIFICATION, ENROLLMENT, NUMBER OF TEACHERS, AJ ISTRATOR ESTIMATIONS OF PERCENT OF RURAL-URBAN, AND COLLEGE-BOUND STUDENTS IN CHRISTIAN AND PUBLIC HIGH SCHOOLS IN THE STUDY |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| High Schools | Location | Size of City | Class | $\begin{aligned} & \text { Enroll. } \\ & 10-12 \end{aligned}$ | No. of Teachers | \% of Rural Students | \% of Urban Students | $\%$ Going on to College |
| Christian |  |  |  |  |  |  |  |  |
| 2. Unity | Hudsonville | 1,500 | B | 326 | 19 | 40 | 60 | 45 |
| 3. Chicago | Chi cago, |  |  |  |  |  |  |  |
|  | Illinois | 3,600,000 | B | 392 | 19 | 0 | 100 | 35 |
| 4. South | G. Rapids | 175,000 | B | 339 | 15 | 50 | 50 | 40 |
| 5. Illiana | Lansing, |  |  |  |  |  |  |  |
|  | Illinois | 15,700 | C | 264 | 14 | 5 | 95 | 30 |
| 6. West. Mich. | Muskegon | 50,000 | C | 199 | 12 | 10 | 90 | 50 |
| 7. Kalamaz00 | Kalamazoo | 60,000 | C | 259 | 15 | 15 | 85 | 40 |
| 8. Timothy | Cicero, |  |  |  |  |  |  |  |
|  | Illinois | 55,000 | D | 130 | 9 | 3 | 97 | 55 |
| 9. North Mich. | McBain | 500 | D | 99 | 6 | 99 | 1 | 10 |
| Public |  |  |  |  |  |  |  |  |
| 1. Creston | G. Rapids | 175,000 | A | 1143 | 40 | 27 | 73 | 60 |
| 2. Hudsonville | Hudsonville | 1,500 | B | 333 | 17 | 75 | 25 | 35 |
| 3. University | Kalamaz00 | 60,000 | C | 209 | 30 | 1 | 99 | 90 |
| 4. MicBain | McBain | 500 | D | 120 | 10 | 90 | 10 | 25 |

The data for this table was collected in interviews with the school administrators. The last All cities are in Michigan unless otherwise indicated.
( $A, B, C, D$ ), and one school was then randomly selected from each classification. In each case, the public school selected agreed to cooperate in the study. As with the Christian high schools, the Class C and D schools were combined into one category.

The descriptive data of the public high schools is summarized in Table III.l. The largest public high school has an enrollment of 1143 , and the smallest 120. Ninety per cent of the students in one school live on farms while in another school only $1 \%$ come from rural areas. Approximately $90 \%$ of the University High students go to college in contrast to McBain's $25 \%$ college matriculation. At one extreme a school is located in a small country town of 500 people, and another in a large city with a population of 175,000 people. It is recognized that all the variables could not be controlled between the public and Christian schools allowing unqualified generalizations to be made from the study. The selection of schools was as precise as possible under the circumstances and was an attempt to hold constant the school size and community location.

## Individuals of the Sample

The Christian and public school students and the Christian school teachers were selected randomly. In the fourth group of the study, the Christian school leaders, a total sample was obtained. A description of the exact procedures employed in selecting each group follows.

Christian School Leaders Theoretically, every group has a core of: leaders which either form or direct philosophy and policy: The identification of these leaders is not always an easy task. One functional method of identification is to have the administrators of policy designate who they think the leaders are. This plan was followed by having all Christian school principals in the study nominate their outstanding school leaders. To facilitate the nominations a letter-questionnaire was sent to each principal. ${ }^{2}$ In the letter the Director of the National Union of Christian Schools added his endorsement to a request for cooperation in nominating the leader group. The following instructions were used:

Please list at least 12 people whom you feel are at present the outstending leaders in the Christian school movement in the United States. If you can list more, please do so. If you cannot list 12, please list as many as you can.

Of the 196 principals polled, eighty-one (41\%) re-
sponded. A total of 192 different names were nominated. The twenty-two ( $10 \%$ ) receiving the most votes were arbitrarily designated as leaders.

Christian School Teachers .. Teacher opinions of the sources of guidance for Christian school Jouth were obtained by giving the Sources of Guidance Questionnaire, Adult Form, to a $25 \%$ random sample of each of the nine Christian high school teaching staffs.

[^0]In the correspondence with each school arranging a date for student testing, a request was made for an alphabetized list of the teaching staff in grades ten through twelve. A table of random numbers was used to determine a starting point on each list, and thereafter every fourth name was selected to obtain a one-quarter sample. Alternate names were chosen in case a teacher was not able to complete the questionnaire. ${ }^{3}$ This biasing procedure was employed only once. All thirtyseven ( $97 \%$ ) teachers selected for the sample, plus the one alternate, responded making a total of thirty-eight. Christian School Students... The original goal of the study was a $12.5 \%$ stratified random sample of Christian high school students for each of the two questionnaires. The strata were the tenth, eleventh, and twelfth grades for each sex. The operational steps for obtaining the sample were as follows:

1. The cooperating high schools were asked to supply an alphabetized class list for each of the upper three grades separated by sex.
2. A table of random numbers was used to determine a starting point in each of the six lists. Thereafter, every four th name was selected. As the names were selected they were alternately placed in two groups. This, in effect, split by sexes each of the six groups, seniors, juniors, and sophomores into two equal $12.5 \%$ samples.
3. A coin was flipped to determine which of the two samples in each of the six groups would take either the Mooney Problem Check List or the Sources of Guidance questionnaire, Student Form.

3 Because this procedure merely increases the available sample rather than the representations of the sample, it is not recommended in future studies of this nature.

Where fractions were involved in the sampling, they were rounded off to the next highest number resulting in an actual sampling of slightly over $12.5 \%$ for most groups. 4 This was done in the anticipation that some students would misunderstand directions or in other ways invalidate their instruments. On each list one or two alternates (depending upon the size of the school) were selected. If the original person selected was absent on the day of the administration, the alternate was used. The Mooney Problem Check List was administered to 420 students ( $13.5 \%$ of the total enrollment). Nine of the Check Lists were filled out incorrectly, thus leaving a sample of 411 ( $13.2 \%$ ). The Sources of Guidance Questionnaire, Student Form, was also taken by 420 students. Thirteen of these were invalidated and removed, leaving a group of 407 (13.1\%). Public School Students ... To obtain an approximate random sample of public school students, each school was asked to provide one class from each of the upper three grade levels to be given the Mooney Problem Check List. It was stipulated that the class should be in a required course and as much as possible represent a cross section of that grade. Each school complied with the request, and a total sample of 272 public school students was secured. 5

[^1]
## TABLE III. 2

A SUMMARY OF THE CHARACTERISTICS OF THE CHRISTIAN SCHOOL SAMPLE BY INDIVIDUAL SCHOOLS, SEX, GRADE LEVEL, TOTAL ENROLLMENT, WITH THE NUMBER AND PERCENTS OF EACH GROUP

IN THE MOONEY AND QUESTIONNAIRE SAMPLE

Total No. In \% In No. In \% In Name of School Sex Grade Enrolled Sample Sample Sample Sample

| Grand Rapids Christian High School | M | 12 | 130 | 17 | 13.08 | 16 | 12.31 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | F | 12 | 161 | 20 | 12.42 | 20 | 12.42 |
|  | M | 11 | 167 | 21 | 12.57 | 21 | 12.57 |
|  | F | 11 | 219 | 28 | 12.79 | 30 | 13.70 |
| Class A | M | 10 | 206 | 25 | 12.14 | 25 | 12.14 |
|  | F | 10 | 22) | 29 | 12.95 | 28 | 12.50 |
| Totals |  |  | 1107 | 140 | 12.64 | 140 | 12.64 |
| $\begin{gathered} \text { Chicago } \\ \text { Christian } \\ \text { High School } \end{gathered}$ | M | 12 | 35 | 5 | 14.28 | 6 | 17.14 |
|  | F | 12 | 50 | 7 | 12.50 | 6 | 10.71 |
|  | M | 11 | 51 | 7 | 13.73 | 7 | 13.73 |
|  | F | 11 | 87 | 11 | 12.64 | 10 | 11.49 |
| Class B | M | 10 | 70 | 9 | 12.86 | 9 | 12.86 |
|  | F | 10 | 93 | 13 | 13.98 | 13 | 13.98 |
| Totals |  |  | 392 | 52 | 13.27 | 51 | 13.01 |
|  | M | 12 | 47 | 6 | 12.77 | 6 | 12.77 |
| Christian High School | F | 12 | 55 | 7 | 12.73 | 8 | 14.55 |
|  | M | 11 | 56 | 7 | 12.50 | 6 | 10.71 |
|  | F | 11 | 61 | 8 | 13.11 | 9 | 14.75 |
| Class B | M | 10 | 56 | 8 | 14.29 | 7 | 12.50 |
|  | F | 10 | 64 | 9 | 14.06 | 8 | 12.50 |
| Totals |  |  | 339 | 45 | 13.27 | 44 | 12.98 |
| UnityChristianHigh School | M | 12 | 39 | 5 | 12.82 | 5 | 12.82 |
|  | F | 12 | 44 | 6 | 13.64 | 6 | 13.64 |
|  | M | 11 | 56 | 7 | 12.50 | 9 | 16.07 |
|  | F | 11 | 61 | 9 | 14.75 | 8 | 13.11 |
| Class B | M | 10 | 70 | 8 | 11.43 | 8 | 11.43 |
|  | F | 10 | 56 | 7 | 12.50 | 7 | 12.50 |
| Totals |  |  | 326 | 42 | 12.88 | 43 | 13.19 |
| Illiana | M | 12 | 34 | 5 | 14.71 | 5 | 14.71 |
| Christian High School | F | 12 | 38 | 6 | 15.79 | 5 | 13.16 |
|  | M | 11 | 36 | 6 | 16.67 | 4 | 11.11 |
|  | F | 11 | 60 | 8 | 13.33 | 8 | 13.33 |
| Class C | M | 10 | 44 | 6 | 13.64 | 6 | 13.64 |
|  | F | 10 | 52 | 7 | 13.46 | 7 | 13.46 |
|  |  |  | 264 | 38 | 14.39 | 35 | 13.26 |
| KalamazooChristian | M | 12 | 35 | 6 | 17.14 | 7 | 20.00 |
|  | F | 12 | 46 | 5 | 10.87 | 5 | 10.87 |
| High School | M | 11 | 46 | 7 | 15.22 | 6 | 13.04 |
|  | F | 11 | 50 | 7 | 14.00 | 7 | 14.00 |
| Class C | M | 10 | 45 | 6 | 13.33 | 7 | 15.56 |
|  | F | 10 | 37 | 5 | 13.51 | 5 | 13.51 |
| Totals |  |  | 259 | 36 | 13.90 | 37 | 14.29 |

## TABLE III.2-Continued

A SUMMARY OF THE CHARACTERISTICS OF THE CHRISTIAN SCHOOL SAMPLE BY INDIVIDUAL SCHOOLS, SEX, GRADE LEVEL, TOTAL ENROLLMENT, WITH THE NUMBER AND PERCENTS OF EACH GROUP

IN THE MOONEY AND QUESTIONNAIRE SAMPLE

| Name of School | Sex | Grade | Total Enrolled | No. In Mooney Sample | \% In Mooney Sample | No. In Ques. Sample | \% In Ques. Sample |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Western Mich. Christian High School Class C | M | 12 | 30 | 4 | 13.33 | 4 | 13.33 |
|  | F | 12 | 35 | 5 | 14.29 | 5 | 14.29 |
|  | M | 11 | 30 | 4 | 13.33 | 4 | 13.33 |
|  | F | 11 | 40 | 5 | 12.50 | 5 | 12.50 |
|  | M | 10 | 34 | 5 | 14.71 | 4 | 11.76 |
|  | F | 10 | 30 | 4 | 13.33 | 4 | 13.33 |
| Notals |  |  | 199 | 27 | 13.57 | 26 | 13.07 |
|  | M | 12 | 10 | 2 | 20.00 | 2 | 20.00 |
| Northern <br> Mich. Christian High School | F | 12 | 17 | 2 | 11.76 | 2 | 11.76 |
|  | M | 11 | 17 | 2 | 11.76 | 2 | 11.76 |
|  | F | 11 | 20 | 3 | 15.00 | 3 | 15.00 |
| Class D | M | 10 | 17 | 2 | 11.76 | 2 | 11.76 |
|  | F | 10 | 18 | 3 | 16.67 | 3 | 16.67 |
| Totals |  |  | 99 | 14 | $14.1{ }_{4}$ | 14 | $\underline{14.14}$ |
| Timothy | M | 12 | 19 | 2 | 10.53 | 2 | 10.53 |
| Christian | F | 12 | 22 | 3 | 13.64 | 3 | 13.64 |
| High School | M | 11 | 18 | 3 | 16.67 | 3 | 16.67 |
|  | F | 11 | 26 | 3 | 11.54 | 3 | 11.54 |
| Class D | M | 10 | 25 | 3 | 12.00 | 3 | 12.00 |
|  | F | 10 | 20 | 3 | 15.00 | 3 | 15.00 |
| Totals |  |  | 130 | 17 | 13.08 | 17 | 13.08 |
| Christian School <br> Composite | M | 12 | 379 | 52 | 13.72 | 53 | 13.98 |
|  | F | 12 | 474 | 61 | 12.87 | 60 | 12.66 |
|  | M | 11 | 477 | 64 | 13.42 | 62 | 13.00 |
|  | F | 11 | 624 | 82 | 13.14 | 83 | 13.30 |
|  | M | 10 | 567 | 72 | 12.70 | 71 | 12.52 |
|  | F | 10 | 594 | 80 | 13.46 | 78 | 13.13 |
| $\frac{\text { Total by Sexes }}{\text { Totals }}$ | M |  | 1423 | 188 | 13.21 | 186 | 13.07 |
|  | F |  | 1692 | 223 | 13.18 | 221 | 13.06 |
|  |  |  | 3115 | 411 | 13.19 | 407 | 13.07 |

TABLE III. 3
A SUMMARY OF THE CHARACTERISTICS OF THE PUBLIC SCHOOL SAMPLE BY INDIVIDUAL SCHOOLS, SEX, GRADE LEVEL, TOTAL ENROLIMENT, wITH THE NUMBER AND PERCENTS OF EACH GROUP IN THE NOONEY SAMPLE


## ADEQUACY OF SAMPLE GENERALIZATION

There are certain limitations in the samples used in the study. Difficulty was encountered in selecting the public schools. In Class $C$ the only public school available was the University High school at Western Michigan University. This school is somewhat atypical in that the student body is selective and is above average in ability. The school officials stated that they attempted to balance out the student body with average and poor students. It was obvious, however, that this was not entirely accomplished. Because this was the only Class C school available, the school was sampled and included in the study. To a certain degree this school is not representative in its student composition when compared to the average public school which introduced a bias in the Class C-D classification. Purthermore, both the Christian school student and teacher samples had biases introduced because of absences, misunderstanding of directions, or inability of the sampled person to complete the instrument. One teacher had to be substituted because the selected teacher was not available. In sampling the students, fourteen of the alternates selected were used because those originally selected were absent. In addition, nine Mooney Problem Check Lists and thirteen questionnaires were removed because of obvious misunderstanding of directions. With the exception of the above limitations, the samples may be considered adequate and without distortion.

The Mooney Problem Check List, High School Form, and an original questionnaire designed to sample the respondent's opinion of the sources of guidance constituted the two criterion instruments of the study. The questionnaire was developed in two forms; one was for the students, and the other for the leader and teacher groups. Because the two questionnaire forms are similar, they will be considered together in the following description.

## Mooney Problem Check List

The Mooney Problem Check Lists were developed during the 1940's to help students express their personal problems (20:3). The Check List is designed to sample a variety of concerns. A total of 330 problems is listed in the following eleven general areas ( 30 problems in each area).

1. Health and Physical Development (HPD)
2. Finances, Living Conditions and Employment (FLE)
3. Social and Recreational Activities (SRA)
4. Courtship, Sex and Marriage (CSmi)
5. Social-Psychological Relations (SPR)
6. Personal-Psychological Relations (PPR)
7. Morals and Religion (MR)
8. Home and Family (HF)
9. The Future: Vocational, Educational (FVE)
10. Adjustment to School Work (ASiw)
11. Curriculum and Teaching Procedure (CTP)

The administration of the Mooney Problem Check List is simple. The students read the list of problems contained in short statements and check those items that concern them. The present study, due to the large number involved, employed a machine-scored answer sheet with a reusable booklet. ${ }^{6}$
${ }^{\circ}$ A copy of the Mooney Problem Check List and answer sheet are found in Appendix $B$.

Problems of concern are indicated by shading in a special space below the number on the answer sheet, and the problems of most concern (serious problems) by shading in a similar space above the number.

The original Mooney Problem Check Lists were developed from the open-ended responses of 4,000 students who had been asked to briefly describe their problems. The phrases were edited, checked against other surveys, given in pilot studies, and finally presented in the present form (21:08).

In 1950, a revised edition of the Check Lists was published. In the revision, several items had minor changes in wording, other items were replaced, and the order of some items was changed (20:4). Mooney summarizes the 1950 revisions as, "The result of extensive research based on large surveys, coupled with expert judgment and long experience with these instruments ${ }^{n}$ (20:3).

The validity and reliability of the Mooney are difficult to estimate and have not, for this reason, been carefully studied. The few studies centering on precision and consistoncy are reviewed in Chapter II.

The Mooney is administered with certain assumptions: the majority of students will be responsive to the items; they will accept the task with a constructive attitude; and they will find the Check Lists cover reasonably well the range of personal problems with which they are concerned (20:7). As far as could be ascertained, the students of the present study approached the task with a constructive attitude, several ex-
pressing their interest in the instrument. The students were also asked to check whether they believed the Check List gave a well-rounded picture of their problems, and $92 \%$ of the students replied that it did.

Harold Jones in reviewing the Mooney Problem Check Lists stated, "They can only be expected to provide data as to conscious and willingly expressed problems of students" (4:132). The instrument is not intended to give a deep look into the unconscious, to provide complex data for analyzing and classifying personality disorders, or to serve as a basis for predicting behavior. When used as a summary indicator of problems, however, the Mooney can be a valuable instrument. It is within these limitations and purposes that the Mooney is used in the study.

## Questionnaire

As stated previously, the Sources of Guidance Questionnaire was developed in two forms. 7 The Student Form was designed to assess the present sources of help used by the Christian school students. The Adult Form was given to teachers and leaders in the Christian schools to obtain their opinions of the sources of guidance the students should use. Sources of Guidance Questionnaire, Student Form The Sources of Guidance Questionnaire was based on the Mooney Problem Check List. Questions were constructed asking where the student had or would seek help for problems typical of each of
$7_{\text {Copies }}$ of the two forms of the questionnaire can be found in Appendix C.
the eleven areas of the Mooney. Nine sources of guidance were arbitrarily selected and listed with clarifying examples. 'lhe sources listed were:

1. School classes and organizations (includes classroom work, career clubs, 4-H, future teacher's clubs, or other school groups). 2. School Personnel (individual teachers, advisers, etc).
2. Parents (father, mother, or guardian).
3. Friends (young people of same age or near the same age).
4. Other adults (neighbors, aunts, uncles, older brothers or sisters).
5. Church (minister, Sunday School teachers, classes, or groups connected with the church).
6. Family Doctor
7. Approved books, pamphlets, newspapers,
and magazinos (those approved by parents and church including Bible).
8. Non-approved books, pamphlets, and magazines (those not approved by parents and church).

If the students had no problems in an area, they were asked to indicate sources of help they would use if they did have this type of problem. Spaces were provided beneath each problem area for the student to select five of the nine sources of guidance. All students were asked to list at least one guidance source for each area. A request was made that multiple listings be ranked in the order of importance. If the nine sources of guidance listed were not appropriate, the student could add other sources in the blank spaces left for that purpose.

A page of instructions was included which covered the purpose, description, and marking of the questionnaire. Sources of Guidance Guestionnaire, Adult Form The Adult Form of the Questionnaire was the same as the Student Form except that one source of guidance (No. 9 in previous sec-
tion) was deleted and the adults were asked to indicate where they thought the students should obtain help in each of the eleven problem areas.

## PILOT STUDY

After the Sources of Guidance Questionnaire was developed, a pilot study was conducted. Through the help of the National Union of Christian Schools a Christian junior high school was selected which would not be in the final sample (only senior high schools were used).

A group of thirty-five ninth-graders in the Cutlerville Christian Junior High school, near Grand Rapids, Michigan, constituted the pilot sample.

Before administering the questionnaire, the students were instructed to circle any words they did not understand and any problem areas which were confusing. The instrument was given anonymously as was the final form. It took from twenty to twenty-five minutes for all students to finish.

Also, prior to the administrations, five students were asked to obtain their peers' reactions to the questionnaire. These students were later interviewed. The general finding was that the questionnaire's use was producing the type of data desired. The students mentioned three or four words that gave them trouble and two problem areas which were not clearly differentiated from each other.

The Sources of Guidance Questionnaire was also given to five of the Cutlerville teachers to help clarify further the Adult Form of the instrument.

As a result of the administration to the Cutlerville teachers, three semantic changes were made on the questionnaire. The wordings of problem areas ten and eleven were altered to clarify and differentiate between the two areas. The other change was made in the description of source number one in the Sources of Guidance listing. In this instance, further examples were added to help clarify the meaning of the source.

It is recognized that the questionnaire has some obvious limitations; the language involved in summarizing the eleven Mooney problem areas may not commanicate to some students and adults the meaning of the comparable area; it is possible that some students and adults found it difficult to generalize and choose the most important "one source" for a particular area; and the possibility of honesty or distora tion is also present. The anonymous administration of the instrument had the advantage of obtaining frank and truthful answers which may not have been given in more threatening circumstances. On the other hand, it is easier for students to give ludicrous answers when there is no chance to identify the respondent.

## INSTRUMENT ADMINISTRATION

The instrument administration procedures were held constant for all aspects of the study.

## Christian School Students

The investigator went to each school, carried out the sampling procedures, and administered the instruments with the
one exception listed at the end of this section. After the sample was chosen, the principal notified the selected students to report to a designated room. Prior to the administration, the students were not informed of the nature of the study or of the instruments employed. In all schools, the students were divided into two groups according to the instruments they were to take. The writer administered the Sources of Guidance Questionnaire. A staff member was asked to administer the Mooney Problem Check List after receiving detailed instructions.

All students were given a brief introduction to the study and were asked to read the instrument directions. ${ }^{8}$ Following this, the directions were explained orally and questions solicited in order to clarify the procedure. The anonymous aspect of the study was emphasized. The written instructions on both the Mooney Problem Check List and the Sources of Guidance Questionnaire, Student Form, are detailed and contain examples making the instruments nearly self-administering. In all cases, the students were encouraged to ask questions about anything they did not understand.

The few students who did not finish the Mooney Problem Check List within the one hour usually allowed were permitted to continue until their responses were completed. The Sources of Guidance Questionnaire, Student Form, was finished by all respondents within a twenty to twenty-five minute period. All

[^2]Christian schools were tested within a one hour period except the Grand Rapids Christian high school. Here, because of the large number in the sample and because of the lack of a room large enough to accommodate the students, the testing was done on two consecutive days (one hour each day). In this case, the students were unaware that the instruments would be given on the second day.

As stated previously, the writer took part in all administrations with one exception. After arriving at McBain, it was found that both the Christian and public high schools were not in session because of a broken water main. To prevent a return trip, the principals agreed to do the administrations. The administrative procedures were carefully explained to them. A bias may have been introduced at this point; however, as the McBain schools were small and both of the above schools contributed comparable parts to the public and Christian school samples, any differences which might occur because of this procedural deviance would be minimal.

## Public School Students

Only the Mooney Problem Check List was administered to the public school students. In each case, the investigator went to each school and administered the Mooneys in the selected classes with the one exception of McBain. The instructions were the same as those used for the Christian school sample. The cooperation of the students was enlisted by explaining the study and adding that the summarized results would be returned to their school to aid the faculty in better meeting their needs.

## Christian School Leaders

The Sources of Guidance Questionnaire, Adult Form, was sent to the twenty-two Christian school leaders with a letter from the Associate Educational Director of the National Union of Christian Schools requesting cooperation in the study. Complete directions were contained in the questionnaire which was self-administered. All responses were anonymous; however, a slip of paper with the respondent's name on it was included in the letter, and he was asked to return it wi th the completed questionnaire. The leader was told the slip of paper was for checking returns and would be destroyed. Two follow-up cards were necessary to obtain the full cooperation of all leaders.

## Christian School Teachers

The Sources of Guidance Questionnaires, Adult Form, were sent to each of the nine Christian school principals, along With the names of the faculty who had previously been selected for the sample. The principals were asked to distribute the instruments. The questionnaires were sent to each school two days prior to the administering of the student instruments there. This was done so that the faculty would have adequate time and opportunity to complete the questionnaires. The teachers were asked to return the questionnaires unsigned to the school office or to give them to the person administering the student tests. The average time reported for answering the Adult Form of the questionnaire was twenty to thirty minutes.

The following section will contain a description of the statistical tools and procedures used to analyze the data collected on the Mooney Problem Check List and the Sources of Guidance Questionnaire.

## Mooney Problem Check List Data

The appropriate statistical tool for the analysis of the Mooney Problem Check List data is the median test for two samples (6:295). This statistic tests the general null hypothesis that the two contrasted samples are drawn from two identically distributed populations.

For each student who took the Mooney twenty-two scores were derived. A score was obtained for total and serious problems in each of the eleven Mooney problem areas. The score indicated the number of problems the student had marked in each of these twenty-two sections. Each group that was to be tested was then tabulated on the basis of how many of the students had checked one problem, two problems, three problems, etc., in each of the twenty-two parts. Next, the two groups that were being contrasted were put together and the median of the combined groups was determined.

The final frequencies were entered in the $2 \times 2$ contingency table (see Table III.4) by taking the number of individuals in each group below the median (indicating more problems marked) and those equal to and above the median (indicating fewer problems marked) and placing the numbers in the appropriate cells. 9

[^3]SAMPLE $2 \times 2$ CONTINGENCY TABLE USED FOR MEDIAN TEST OF MOONEY PROBLERU CHECK LIST DATA

Equal to or fewer problems

Miore proilems

| Group I |
| :---: |
| Group II |
| $a$ |

The formula appropriate to the $2 \times 2$ contingency was used. ${ }^{10}$ The Yates Correctional Factor was included in the formula. This factor markedly improves the approximation of the $x^{2}$ distribution in cases involving one degree of freedom and amounts to reducing the absolute value of each cell by .5 (6:225-226). It is easily incorporated in the formula by subtracting $\frac{1}{2} N$ from $|a d-b c|$ in the numerator before the difference is squared. ${ }^{11}$

For example, assume that the Christian school males and females were being compared on the number of serious problems checked in the area of Morals and Religion. Each group would be tabulated according to how many of its members had marked zero problems, one problem, two problems, etc., in this particular area. Next, the two groups were combined to determine the median. Let us assume that the median falls on the individual or individuals who have marked two problems. The number of males who checked more than two problems were entered
in the lower cell of the $2 \times 2$ table. All those who marked two or less problems were placed in the upper cell. The same is done for the females. The formula is then applied and the test gives an indication whether there is a basic difference in the number of these serious problems marked by the males compared to the females in the area of morals and Religion.

The generalized statistical null hypothesis tested was as follows:

HO: the two contrasted groups will not differ significantly concerning the proportion of each group above and below the median.

The following groups were compared on the basis of the median test in testing the various hypotheses in this part of the study:

1. Christian school males compared to Christian school females on total number of problems checked.
2. Christian school males compared to Christian school females on number of serious problems checked.
3. Christion school male seniors compared to Christian school male sophomores on total number of problems checked.
4. Christian school male seniors compared to Christian school male sophomores on number of serious problems checked.
5. Christian school f'emale seniors compared to Christian school female sophomores on total number of problems checked.
6. Christian school female seniors compared to Christian school female sophomores on number of serious problems checked.
7. Christian school males compared to public school males on total number of problems checked.
8. Christian school males compared to pubic school males on number of serious problems checked.
9. Christian school females compared to public school females on total number of problems checked.
10. Christian school females compared to public school females on number of serious problems checked.
11. Male seniors Class A compared to male seniors
12. Males C-D on total number of problems checked.
sophomores Cless C-D on total number of
problems checked.
13. Female seniors Class A compared to female
seniors Class C-D on total number of problems
checked.
14. Female sophomores Class A compared to female
sophomores Class CaD on total number of
15. problems checked.
16. Class C-D on number of serious problems checked.
Malesophomores Class A compared to male sopho-
mores Class C-D on number of serious problems
checked.

A total of eighteen between group comparisons were made, each involving a separate statistical test in each of the eleven Mooney problem areas.

Because of the nature of the data and the intent to look for major trends, the .05 level of significance is appropriate for the acceptance or rejection of all hypotheses.

## Questionnaire Data

The appropriate statistical tool for this type of data is chi square. A $2 \times 2$ contingency table was used and the appropriate formula employed. ${ }^{12}$ See Table III. 5 for the contingency table model.

12
Ibid.


Comparisons wíade with $2 \times 2$ Table
In all cases the majority response of Group I was the basis of the comparison. All groups are from the Christian schools.


The generalized statistical null hypothesis tested was

## as follows:

HO:the two groups will not differ significantly concerning the proportion of each group with agree and disagree responses.

In each case, the Sources of Guidance Questionnaire responses were analyzed on the basis of the first or most important source of guidance listed in each of the eleven Mooney problem areas. This was appropriate because the first blank
was stipulated to be the most important source and was the only one of the five where an answer had to be given.

In order to facilitate the statistical procedure in each between group comparison, one group was arbitrarily designated Group I and the other Group II. The designation each group was assigned will be found in Table III.5. In each case, the comparison was based on the most important source of guidance as chosen by Group I. In each problem area, this majority response was called the "agree" response, and all other responses "disagree."

For example, if the Christian school leaders (Group I) chose the parents as the most important source of guidance in a problem area, then the parent responses were classified as "agree" responses, and all others in this problem area were "disagree" responses. To complete the comparison all parent responses in Group II were also called "agree" responses, and the remainder of Group II markings were classified as "disagree" responses. ${ }^{13}$

In three cases (see lable V.l) there were an identical number of responses within a group as to the most important source of guidance in a problem area. In these cases, one was arbitrarily selected upon which to make the comparison. The sources selected are starred in Table V.l.
when testing for class differences, seniors and sophomores were contrasted, assuming that likely differences in

13 A statistical work sheet will be found in Appendix F.
sophistication would be revealed in their responses. The contrast between school sizes was also tested by comparing the extreme groups, meaning that Class A schools were compared with Class C-D schools. Class and sex designation was held constant by testing differences in the response of senior males in Class A against the senior males in Class $C-D$ and the senior females in Class A against senior females in Class C-D. Identical procedures were followed when analyzing the responses of sophomores. The leader and teacher perceptions were compared to the senior and sophomore groups to determine if basic differences existed.

Other groups contrasted in the 2 x .2 tables were those of teachers and leaders and males and females. All 2 x 2 table comparisons using questionnaire data were only between Christian school groups. In all, eleven separate comparisons (one in each of the eleven Mooney questionnaire areas) were made in each of the eleven between group contrasts involving the use of 121 separate chi square $2 \times 2$ contingency tables.

## SUMMARY

Ihis chapter has contained a delineation of the methodology and procedures used to carry out the study. The Christian and public schools involved in the study were described along with the method used to select them. The individual sampling procedures were outlined for the student and the Christian school teacher groups. The selection of the Christian school leaders was also detailed.

The Mooney Problem Check List and the Sources of Guidance Questionnaire, the two instruments used in the study, were outlined along with the administrative procedures. The statistical analysis involving the chi square was explained, and the comparisons contained in the study were listed.

Having defined the problem, reviewed selected literature, and described the procedures for collecting and analyzing the data, the next step is to analyze the data itself. This is carried out in Chapters IV and V.

# AN ANALYSIS OF DIFFERENGES IN THE STUDENTS' PERCEPTIONS OF THEIR PROBLENS 

INTRODUCTION
The present chapter contains an analysis of the perceptions of the students problems as reported on the inooney Problem Check List. The Check List and procedure used for collecting and analyzing the data have been fully described in Chapter III.

As previously stated, the median test for two samples was appropriate for these data. The . 05 level of confidence was accepted for determining the acceptance or rejection of the hypotheses tested. There were eighteen between group comparisons. Each between group comparison involved eleven sub-comparisons, one for each Mooney problem area. The tests were used to ascertain whether differences existed between the various groups concerning the number of problems checked in each problem area. The generalized null hypothesis tested was:

[^4]The following findings are deemed significant on the basis of the statistical procedures used. Each of the eighteen general hypotheses is listed along with a report of the statistical test results. A summary of these results is found in Tables IV.l and IV.2. All contrasts involve only Christian school students unless otherwise noted.

## Test of Sex Differences

1. There will be no significant differences between the males and females concerning the total number of problems marked in each of the eleven Mooney problem areas. A significant difference in marking was evidenced between the groups in the Mooney problem area of "Social-Psychological Relations." Reference to the raw data indicates the males marked fewer problems in this area.
2. There will be no significant differences between the males and females concerning the number of serious problems marked in each of the eleven Mooney problem areas. Differences in problems marked were evidenced in the following areas: "Health and Physical Development," "Social Recreational Activities," "SocialPsychological Relations," "Personal-Psychological Relations," "Courtship, Sex and Marriage," and "Home and Family." In all of these areas the males marked fewer problems than the females.
TABLE IV.I
SUMMARY OF MEDIAN TEST RESULTS OF MOONEY PROBLEM CHECK LIST DATA FOR COMPARISONS BETWEEN MALE SENIORS AND MALE SOPHOMORES, FEMALE , CHRISTIAN SCHOOL MALES AND PUBLIC $\qquad$
FEMALES ON TOTAL AND SERIOUS PROBLEMS IN EACH OF
ELLEVEN MOONEY PROBLEM ARE'AS


## Test of Grade Differences

3. There will be no significant differences between male seniors and male sophomores concerning the total number of problems marked in each of the eleven Mooney problem areas. No significant differences were observable.
4. There will be no significant differences between male seniors and male sophomores concerning the number of serious problems marked in each of the eleven Mooney problem areas. No significant differences were observed.
5. There will be no significant differences between female seniors and female sophomores concerning the total number of problems marked in each of the eleven Mooney problem areas. No significant differences were indicated by the statistical test.
6. There will be no significant differences between female seniors and female sophomores concerning the number of serious problems marked in each of the eleven Mooney problem areas. No significant differences were evident.

## Public-Christian School Contrasts

7. There will be no significant differences between Christian school males and public school males in the number of total problems marked in each of the eleven Mooney problem areas. Disproportionate markings were evidenced in the following two Mooney problem areas:
"Finances, Living Conditions and Employment," and "Morals and Religion." In both cases the Christian school males marked fewer problems.
8. There will be no significant differences between Christian school males and public school males in the number of serious problems marked in each of the eleven Mooney problem areas. Significant differences were observed in the following areas: "Finances, Living Conditions and Employment," "Personal-Fsychological Relations," and "Puture: Vocational, Educational." Here again, in all these cases the Christian school males marked fewer problems.
9. There will be no significant differences between Christian school females and public school females concerning the total number of problems marked in each of the eleven Mooney problem areas. A disproportionate marking of problems was evidenced only in the problem area of "Curriculum and Teaching Procedure." In this area the Christian school females marked a greater number of problems.
10. There will be no significant differences between Christian school females and public school females concerning the number of serious problems marked in each of the eleven Mooney problem areas. No significant differences were observed.

## School Size Contrasts

11. There will be no significant differences between the male seniors in Class $A$ and the male seniors in
TABLE IV. 2
SUMMARY OF MEDIAN TEST RESULTS OF MOONEY PROBLEM CHECK LIST DATA POR COMPARISONS BETWEEN CHRISTLAN SCHOOL STUDENTS IN CLASS A SCHOOLS AND CLASS C-D SCHOOLS ON TOTAL AND SERIOUS PROBLEMS IN EACH OF THE ELEVEN MOONEY PROBLEM AREAS

| Mooney Problem Areas ${ }^{\text {a }}$ | $\begin{aligned} & \text { Male } \\ & \text { Class A } \\ & \text { T'otal } \end{aligned}$ | Seniors vs. C-D Serious | $\begin{aligned} & \text { Female } \\ & \text { Class A } \\ & \text { Total } \end{aligned}$ | Seniors <br> Vs. C-D <br> Serious | $\begin{aligned} & \text { Male S } \\ & \text { Class } \\ & \text { Total } \end{aligned}$ | Sophomores <br> A vs. C-D <br> Serious | $\begin{gathered} \text { Female } \\ \text { Class } \\ \text { Total } \end{gathered}$ | Sophomores <br> A vs. C-D Serious |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. HPD | 1.78 | . 06 | 3.14 | . 45 | . 08 | 1.88 | 2.15 | 2.95 |
| 2. FLE | 3.06 | . 03 | . 65 | . 03 | . 13 | . 39 | . 06 | . 03 |
| 3. SRA | . 10 | . 05 | 2.06 | 1.52 | . 22 | . 05 | . 01 | .11 |
| 4. CSM | . 54 | . 16 | . 65 | . 03 | 2.69 | . 31 | . 16 | .42 |
| 5. SPR | . 00 | 1.68 | . 04 | .04 | . 73 | . 05 | 2.36 | . 01 |
| 6. PPR | . 08 | .00 | 1.99 | 1.39 | 1.34 | 2.50 | .00 | 3.53 |
| 7. MR | . 01 | . 10 | 1.19 | . 03 | . 09 | . 69 | . 03 | . 53 |
| 8. HF | . 13 | . 05 | . 03 | . 02 | . 07 | . 91 | . 00 | . 03 |
| 9. FVE | . 50 | . 06 | . 03 | . 03 | . 01 | . 08 | . 01 | . 06 |
| 10. ASW | . 58 | 1.91 | 8.93** | . 37 | .61 | 1.11 | . 06 | . 43 |
| 11. CTP | . 01 | . 01 | . 65 | . 05 | . 04 | . 05 | .41 | . 58 |

Class $C-D$ schools concerning the total number of problems the respondents mark in each of the eleven Mooney problem areas. No significant differences were evidenced.
12. There will be no significant differences between the male seniors in Class $A$ and the male seniors in Class C-D schools concerning the number of serious problems the respondents mark in each of the eleven Mooney problem areas. No significant differences were observed.
13. There will be no significant differences between the male sophomores in Class $A$ and the male sophomores in Class C-D schools concerning the total number of problems these respondents mark in each of the eleven Mooney problem areas. No significant differences were in evidence.
14. There will be no significant differences between the male sophomores in Class $A$ and the male sophomores in Class $C-D$ schools concerning the number of serious problems these respondents mark in each of the eleven Mooney problem areas. No significant differences were observed.
15. There will be no significant differences between the female seniors in Class $A$ and the female seniors in Class C-D schools concerning the total number of problems these respondents mark in each of the eleven Mooney problem areas. A disproportionate marking of
problems is evidenced in the area of "Adjustment to School work." The female seniors in Class C-D marked a greater number of problems in this area.
16. There will be no significant differences between the female seniors in Class $A$ and the female seniors In Class C-D schools concerning the number of serious problems these respondents mark in each of the eleven Mooney problem areas. No significant differences were found.
17. There will be no significant differences between the f'emale sophomores in Class $A$ and the female sophomores in Class C-D schools concerning the total number of problems these respondents mark in each of the eleven Mooney problem areas. No significant differences were observed.
18. There will be no significant differences between the female sophomores in Class $A$ and the female sophomores in Class C-D schools concerning the number of serious problems these respondents mark in each of the eleven ifooney problem areas. No significant differences were found.

## SUMINARY

This chapter has included an analysis of the results of the student markings on the Mooney Problem Check List. Public and Christian school student responses were contrasted. Comparisons were also made within the Christian school student
sample to determine if differences existed on the basis of sex, grade level, and size of school. The median test for two samples was employed to test for basic differences in the marking of problems between the contrasted groups in each of the eleven Mooney problem areas. Having analyzed the data concerning the students' perceptions of their problems, the next task is to analyze the data concerning the sources of guidance the students say they use and are expected to use.

## CIAAPIER V

AN ANALYSIS OF THE DIPRERENCES IN CHRISTIAN STUDEINS, LEADERS, AND TEACHEKS PERCEPIIONS OF rKIMAKY SOUKCES OF GÜDANCE

## INTRODUCTION

'The chapter will contain an analysis of the data collected on the Sources of Guidance questionnaire. I'he student Form of the questionnaire was used to determine the sources of guidance presently utilized by the students. The Adult Form, administered to Christian school leaders and teachers, assessed their perceptions of ideal sources of student guidance. l'he analysis is based upon the primary sources of guidance (first choices) in each of the eleven problem areas included in the questionnaire.

The Sources of Guidance Euestionnaire and the procedures used to collect and analyze the data are described in Chapter III. Copies of the two forms of the questionnaire are found in Appendix $A$.

The statistical model used to analyze the data was trie chi square. A $2 \times 2$ contingency table was employed. The generalized null hypothesis tested was:

HO:there will be no proportionate differences between the contrasted groups concerning their markings of primary sources of guidance in each of the inooney problem areas.

The . 05 level of significance was accepted as the appropriate level for the rejection or acceptance of the hypotheses.

If the level of significance exceeded. 05 , the null hypothesis was rejected. Fourteen different groups were used in the statistical comparisons. Each between group comparison included eleven separate tests, one in each of the problem areas.

## SIGNIFICANT FINDINGS

## Highest frequency Responses

Before presenting the results of the statistical tests, a brief description is presented of the primary sources of guidance as selected by each Christian school group in each of the eleven miooney problem areas. A summary of these results is found in Table V.l. Each source of guidance listed is the highest frequency response by the group in the problem area. Table V.l also contains an indication of the per cent of each group which selected the source of guidance as its first choice. The following Christian school groups are included in the summary: Christian school leaders, teachers, seniors, sophomores, males, females, Class A, and Class C-D.

1. Health and Physical Development Both the leaders and teachers indicated the primary source of guidance should be the "family doctor." Each of the six student groups reported that their "parents" were the most important source of help.

## 2. Finances, Living Conditions and Employment

eight groups reported the "parents" as the most important source of guidance in this area.
3. Social Recreational Activities Doth the leaders and teachers indicated that the "parents" should be the most
important source of help. The sophomore and Class C-D groups also reported the "parents" first; however, the seniors, males, females, and Class A groups reported their "friends" as the most important source of guidance in this area.
4. Courtship. Sex and Marriage All eight groups reported the "parents" as the source which should be used and which was used as the primary source of guidance.
5. Social-Psychological Relations Each of the eight groups agreed upon the "parents" as the primary source of help.
6. Personal-Psychological Relations The teachers ${ }^{1}$ perceptions indicated an equal number of responses for the "parents" and "school personnel" as the primary sources in this area. All other groups listed the "parents."
7. Morals and Religion The leader and Class $A$ groups reported the "parents" as the most importent source of help. The males, females, seniors, sophomores, and Class C-D groups all indicated the "church" as the most important source of help. The teacher's responses were evenly divided between the "parents" and "church" as the most important source.
8. Home and Family All eight groups indicated the "parents" as the primary source or help in this problem area.
9. Future: Vocational, Educational The teachers perceived the "school personnel" as the source that should be used. The leaders were evenly divided between "school personnel" and "parents" for the best guidance sources in this area. The six student groups all indicated the most important help comes from the "parents."

## TOTAL

| 1. HPD | $\begin{gathered} \text { Family Dr. } \\ 54.5 \end{gathered}$ | $\begin{gathered} \text { Family Dr. } \\ 63.1 \end{gathered}$ | $\begin{gathered} \text { Parents } \\ 67.6 \end{gathered}$ | $\begin{gathered} \text { Parents } \\ 61.1 \end{gathered}$ | $\begin{gathered} \text { Parents } \\ 68.8 \end{gathered}$ | $\begin{gathered} \text { Parents } \\ 64.6 \end{gathered}$ | $\begin{gathered} \text { Farents } \\ 67.1 \end{gathered}$ | $\begin{gathered} \text { Parents } \\ 61.4 \end{gathered}$ | $\begin{aligned} & \text { Farents } \\ & 78.3 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2. FLE | Parents | Parents | Parents | Parents | Parents | Parents | Parents | Parents | Parents |
|  | 90.9 | 81.5 | 79.4 | 78.5 | 80.1 | 77.9 | 81.2 | 75.0 | 80.6 |
| 3. SRA | Parents 81.8 | Parents 684 | Friends 40.5 | Friends 43.0 | Friends 38.5 | Friends 47.8 | Parents | Priends | Parents 49.6 |
| 4. | Parents | Parents | Parent | Parents | 38.5 Parents | Parents | carents | Parents |  |
|  | 86.4 | 86.8 | 52.1 | 43.0 | 59.7 | 44.2 | 54.4 | 43.6 | 55.8 |
| 5. SPR | Parents | Parents | Parents | Parents | Parents | Parents | Parents | Parents | Parents |
|  | 54.5 | 52.6 | 39.1 | 34.4 | 43.0 | 38.1 | 41.6 | 31.4 | 47.3 |
| 6. PPR | $\begin{gathered} \text { Parents } \\ 54.5 \end{gathered}$ | $\begin{aligned} & \text { School } \\ & \text { Pers.\# \& } \end{aligned}$ | Parents 40.3 | $\begin{gathered} \text { Parents } \\ 39.2 \end{gathered}$ | Parents 41.2 | $\begin{gathered} \text { Parents } \\ 36.3 \end{gathered}$ | Parents $45.6$ | Parents 40.7 | $\begin{gathered} \text { Parents } \\ 48.8 \end{gathered}$ |
|  |  | Parents $36.8$ |  |  |  |  |  |  |  |
| 7. MR | $\begin{gathered} \text { Parents } \\ 81.8 \end{gathered}$ | Churchst \& Parents | Church 42.8 | Church 42.5 | Chur ch $43.0$ | Church 44.2 | Church $42 \cdot 3$ | Parents 38.6 | Church $52.7$ |
|  |  | $\begin{gathered} \text { Parents } \\ 47.3 \end{gathered}$ |  |  |  |  |  |  |  |
| 8. HF | Parents | Parents | Parents | Parents | Parents | Parents | Parents | Parents | Parents |
|  | 40.9 | 36.8 | 32.2 | 34.9 | 29.9 | 28.3 | 33.6 | 26.4 | 29.5 |
| 9. FVE | School <br>  | School Pers. | Parents 52.6 | Parents 54.8 | Parents 50.7 | Parents 51.3 | Parents 56.4 | Parents 47.9 | Parents 55.0 |
|  | Parents | Pers. 55.2 |  |  |  |  |  | 47. |  |
|  | 45.4 |  |  |  |  |  |  |  |  |
| 10. ASW | School | School | School | School | School | School | School | Parents | School |
|  | Pers. | Pers. | Pers. | Pers. | Pers. | rers. | Pers. | 40.0 | Pers. |
|  | 77.3 | 81.5 | 42.0 | 44.1 | 40.3 | 40.7 | 43.0 |  | 51.2 |
| 11. CTP | School | School | School | School | School | School | School | School | School |
|  | Pers. | Pers. | Pers. | Pers. | Pers. | Pers. | Pers. | Pers. | Yers. |
|  | 59.1 | 65.8 | 41.0 | 40.9 | 41.2 | 37.2 | 40.3 | 42.2 | 37.2 |
| *In the case of a |  |  |  |  |  |  |  |  |  |
| Note: Only the highest frequency response is reported in each problem area. |  |  |  |  |  |  |  |  |  |

10. Adjustment to School viork lhe Class A group indicated the "parents" as the chief source to be used in this area, and all other groups listed the "school personnel" as the primary source of guidance.
11. Curriculum and Teaching Procedure Ail eight groups agreed the most important source of help in this area should be the "school personnel."

Statistical iest Results
Having briefly described the high frequency responses, attention will now de turned to the statistical analysis and the $2 \times 2$ contingency table results of the between group comparisons. The eleven specific hypotheses tested are listed with any significant findings. Each between group comparison involved separate contrasts in each of the eleven hooney problem areas. A summary of the findings is found in Table V.2.

1. ''here will be no proportionate difference between the Christian school leaders and Christian school teachers marking of the primary source of guidance which they perceive Christian school students should use in each of the eleven ivooney problem areas. the only siধnificant difference between the two groups concerning their perceptions of where the stuaents' guiaance should come was in the problem area of "ivorals and Religion."
2. 'l'here will be no proportionate difference between Christian school leaders' perceptions of the primary sources of guidance their stuaents should use and the Christian school seniors report oi the primary sources of guidance currently used in each of the eleven ivooney proolem areas. There was a

## TABLE V. 2

A SUMiMARY OF THE RESULTS OF THE CHI SQUARE TEST COMPARING PRIMARY SOURCES OF GUIDANCE, CONIRASTS BET WEEN CHRI STIAN SCHOOL LEADERS AND TEACHERS, LEADERS AND SENTORS, LEADERS AND SOFHOHORES, TEACHERS AND SEMIORS, T EACHERS AND SOPHOMORES, SENIORS AND SOPHOMORES, MALES AND FEMALES, AND FOUR CLASS A AND CLASS C-D GROUPS IN EACH OF THE ELEVEN MOONEY PROBLEM AREAS

| Mooney <br> Problem <br> Areas | Leaders <br> vs <br> Teachers | Leaders <br> vs <br> Seniors | Leaders <br> vs <br> Sophs. | Teachers <br> vs <br> Seniors | Teachers <br> vs |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. HPD | . .15 | $11.86 * *$ | 11.75*** |  |  |

Level of significance for all comparisons - l degree of r'reedom $.05=3.84 *$
$.01=0.63 \ddot{3}+8$
$a_{A}$ description of the eleven Mooney problem areas can be found on page 44 .

## TABLE V.2-Continued

Seniors Male Male Srs. Nifale Soph. Female Srs. Female Soph. vs $\quad \mathrm{s}$ $A$ vs. $C-D$ A vs. $C-D$ A vs. $C-D$ A vis. C-D Sophs. Female

| . 09 | . 21 | . 20 | 6.06\% | . 00 | 3.44 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| . 26 | . 21 | 1.39 | . 05 | . 13 | . 01 |
| 5.92* | . 69 | 1.91 | . 00 | . 10 | . 62 |
| 2.24 | 10.65\% | . 88 | 1.60 | . 00 | 1.79 |
| . 21 | 2.77 | . 69 | . 20 | 1.60 | . 22 |
| 1.95 | . 09 | . 04 | 1.21 | . 11 | . 05 |
| . 04 | . 00 | . 07 | 1.21 | . 10 | . 37 |
| - 59 | -97 | 2.46 | . 11 | 5.16:4 | 3.33 |
| . 47 | . 54 | . 04 | . 00 | . 12 | . 29 |
| . 06 | .46 | . 62 | 1.88 | 2.01 | 3.04 |
| . 15 | . 00 | . 00 | . 26 | . 00 | 1.79 |

discrepancy between where the leaders indicated the students should receive their guidance and where the seniors reported they did obtain it in the problem areas of "Health and Physical Development," "Social Recreational Activities," "Courtship, Sex and ilarriage," "wiorals and Religion," and "Adjustment to School Work."
3. 'lhere will be no proportionate difference between the Christian school leaders' perceptions of the primary sources of guidance Cinristian school students should use and their sophomore students' report of the primary sources of guidance currently used in each of the eleven viooney problem areas. There was a proportionate difference detween where the leaders perceived the students should receive their guidance and where the sophomores indicated they did obtain their guidance in the areas of "Health and Physical Development," "Social Recreational Activities," "Courtship, Sex and Marriage," "wiorals and Religion," and "Adjustment to School work."
4. There will be no proportionate difference between the Christian school teachers' perceptions of the primary sources of guiaance Christian school students should use and their senior students' report of the primary sources of guidance currently used in each of the eleven Mooney problem areas. Differences were observable between where the teachers perceived the students should receive their guiaance and where the seniors indicated they do receive their guidance in the areas of "Healtin and Physical Development," "Social Kecreational Activities," "Courtship, Sex and Marriage," "rer-
sonal-Fsychological Relations," "The r'uture: Vocational, Educational," "Adjustment to School work," and "Curriculum and Teaching Frocedure."
5. There will be no proportionate difference between the Christian school teachers' perceptions of the primary sources of guidance Christian school students should use and their sophomore students report of the primary sources of guidance currently used in each of the eleven Mooney problem areas. There was a proportionate difference between where teachers perceived students should obtain their guidance and where sophomores indicated they did receive their guidance in the areas of "Health and Physical Development," "Social Recreational Activities," "Courtship, Sex and inarriage," "Personal-rsychological Relations," "The F'uture: Vocational, Educational," "Adjustment to School work," and "Curriculum and Teaching Procedure."
6. There will be no proportionate difference between the male seniors in Class $A$ and the male seniors in Class C-D concerning the primary source or guidance they report using in each of the eleven Mooney problem areas. There were no significant differences observable.
7. There will be no proportionate difference between the female seniors in Class $A$ and the female seniors in Class C-D concerning the primary sources of guidance they report using in each of the eleven Mooney problem areas. A discrepancy was evidenced between where the groups indicated they received their guidance in the area of "Home and ramily."
8. There will be no proportionate aifference between the male sophomores in Class $A$ and the male sophomores in Class C-D concerning the primary source of guidance they report using in each of the eleven Mooney proolem areas. There was a proportionate difference between where the groups indicated they received their guidance in the area of "Health and Physical Development."
9. There will be no proportionate difference between the female sophomores in Class $A$ and the female sophomores in Class C-D concerning the primary source of guidance they report using in each of the eleven mooney problem areas. I'nere was no significant difference observable.
10. There will be no proportionate difference between the male and female students concerning the primary source of guidance they report using in each of the eleven kiooney problem areas. One dirference was observable between where the males and remales indicated they received their guidance. linis was in the area of "Courtship, Sex and ifarriage."
11. There will be no proportionate difference between the seniors and sopnomores concerning the primary source of guidance they report using in each of the eleven mooney problem areas. There was a significant difference between seniors and sophomores relative to where they indicated they received their guidance in the arta of "Social Recreational Activities."

## SUMWARY

l'he chapter has contained a summary of the data collected on the Sources of Guidance Questionnaire. Adult per-
ceptions of the sources of guidance which the Christian school students should use were contrasted with the student reports of where they do obtain their guidance. A description of the high frequency responses was presented as well as the results of the chi square tests applied to the questionnaire responses. Having concluded the analysis of the data, the focus of the study turns next to Chapter VI and the summary and conclusions of the study.

SUMMARY AND CONCLUSIONS

## THE PROBLEM

The purpose of the current study was to investigate the "problem patterns" and "sources of guidance" of Christian high school students in schools affiliated with the National Union of Christian Schools in Michigan and Illinois. The study involved nine institutions enrolling over 3,000 students. The nine schools enroll slightly over $50 \%$ of the high school students in schools affiliated with the National Union in the United States.

The students' perceptions of their own problems were determined through the use of the Mooney Problem Check List, High School Form, 1950 revision. Comparisons were made between student groups to determine if basic differences existed in problems checked with regard to sex, grade level, size of school, or type of school (i.e. Christian versus public schools). Each group contrast involved the eleven problem areas found on the Mooney Problem Check List, and separate comparisons were made on the basis of the total number of problems checked and the number of serious problems marked on the Check List.

For purposes of school size comparisons, the schools were categorized into three divisions: $A, B$, and $C-D$. The
divisions were made on the basis of the wichigan High School Athletic Association classification system.

The sources of guidence were studied through the use of a Sources of Guidance Guestionnaire, adult and student forms, developed for the study. The questionnaire was based on the Mooney Froblem Check List. In each of the eleven Mooney problem areas the students were asked to indicate the sources of guidance they had used or would use to obtain help for the problems in that specific area. The adults (a group of Christian school teachers and a group of Christian school leaders) were asked to indicate the sources of guidance they believed the students should use in each problem area. Comparisons were made between the aduit groups, between the adult and student groups, and between twelve different student divisions to test for differences due to sex, grade level, and size of school.

The student data was obtained by visiting each of the nine Christian high schools and aduinistering the Mooney Problem Check List and Sources of Guidance Questionnaire. Each instrument was administered to approximately $12.5 \%$ of the students in each school. The students were selected by a stratified random sampling technique. The sample was dicotomized on the basis of sex and stratified by grades (ten, eleven, and twelve). Four public high schools were selected for the public-Christian school comparisons of ifooney Problem Check List data. They were selected by a stratified random sampling technique from groups of public schools, matched on the basis of size and community location, with Christian high schools.

All four public high schools selected provided one class in a required subject on each of the three upper grade levels as a sample to be used in the study. The schools were visited, and the Check List was administered to the selected classes.

The self-administering Adult Form of the Sources of Guidance Questionnaire was sent to a $25 \%$ random sample of the 152 teachers in the nine Christian high schools. A group of twenty-two Christian school leaders, nominated by Christian school administrators, were also sent the Adult Form of the questionnaire. All instruments in the study were taken anonymously.

The Mooney Problem Check List data was analyzed by use of the median test for two samples. This statistic was used to test for differences in the problems marked on the Mooney between the following groups: (1) males and females, (2) male seniors and male sophomores, (3) female seniors and female sophomores, (4) Christian school males and public school males, (5) Christian school females and public school females, (6) male seniors in Class $A$ and male seniors in Class C-D, (7) female seniors in Class $A$ and female seniors in Class C-D, (8) male sophomores in Class $A$ and male sophomores in Class C-D, and (9) female sophomores in Class A and female sophomores in Class C-D. For each between group comparison a duplicate set of tests was used for the total number of problems and for the number of serious problems as marked on the Mooney Problem Check List.

Four general null hypotheses were tested:

1. 'lhere will be no significant differences between the males and females relative to their perceived problems.
2. There will be no significant differences between the different grade levels relative to their indicated problems.
3. There will be no significant differences between the students in schools of different sizes relative to their perceived problems.
4. There will be no significant differences between Christian school students and public school students relative to the problems they mark.
the Sources of Guidance questionnaire data was analyzed using the chi square test of difference. The $2 \times 2$ contingency taile was used. The following Chriscian school groups were contrasted: (a) leaders and teachers, (b) leaders and seniors, (c) leaders and sophomores, (d) teachers and seniors, (e) teachers and sophomores, (f) male seniors Class A and male seniors Class C-D, (g) female seniors Class $A$ and female seniors Class C-D, (h) male sophomores Class $A$ and male sophomores Class C-D, (i) female sophomores Class A and female sophomores Class C-D, (j) males and remales, and (k) seniors and sophomores.

Six general nul hypotheses were tested:

1. There will be no proportionate difference between the Christian school leaders and Cnristian school teachers perceptions of the primary sources of guidance
their students should use in each of the eleven problem areas.
2. There will be no proportionate difference between the Christian school Leaders' perceptions of the "ideal" sources of guidance and their students report oi the sources of guidance used in each of the eleven problem areas.
3. 'Ihere will be no proportionate aifference between the Christian school teacrers' perceptions of the "ideaम" sources of guidance and their students report of the sources of guidance used in each of the eleven problem areas.
4. There will be no proportionate differences among the students attending different size schools relative to the primary source of guidance they report they use in each of the eleven areas.
5. 'there will be no proportionate difference between the males and females relative to the primary source of guidance reported used in each problem area. 6. There will be no proportionate difference between the students in the tenth, eleventn, and twelf th grades relative to the primary source $c i$ fuidance the sticients repurt tiney use in each of the eleven problem areas.

In all cases, the .05 level of contiaence was used as the basis for acceptance or rejection of the null hyotheses.

## THE FINDINGS

Results of Between Group Comparisons or Students Perceptions of Their Problems

The four general null hypotheses that were tested are listed below with the results of the group contrasts used to test them.

1. There will be no significant differences between the males and remales concerning their perceived problems.
(a) Wales versus females, total number of problems. A significant difference was found in the Mooney problem area of "Social-Psychological Relations." The females checked more problems in this area, and the males fewer.
(b) Males versus females, number of serious problems.

A disproportionate marking of problems was evidenced in the following areas: "Health and Physical Development," "Social Recreational Activities," "Courtship, Sex and Marriage," "Social-Psychological Relations," "Personal-Psychological Relations," and "Home and Family." In all cases, the females checked a greater number of problems in the areas where a statistically significant difference was found.

On the basis of the statistical tests, it is evident that there are differences between the sexes concerning the problems checked. The general null hypothesis can be rejected for both total and serious problems. It should be noted, however, that
on the comparison based on total number of problems only one difference was observed. Reference to the raw data indicated that in each case of a statistical difference the males have checked fewer problems in the area.
2. There will be no significant differences between the students in different grades concerning the problems indicated.
(a) Male seniors versus male sophomores, total number of problems. No significant differences were observed. (b) Male seniors versus male sophomores, number of serious problems. No significant differences were found. (c) Female seniors versus female sophomores, total number of problems. No significant differences were found between the groups.
(d) Female seniors versus female sophomores, number of serious problems. No statistically significant differences were in evidence.

Of the four specific null hypotheses tested none are rejected on the basis of the statistical tests. No statistically significant differences were evidenced between the samples contrasted. It can thus be said that there were no significant differences in problems checked between the students on different grade levels in the study.
3. There will be no proportionate differences between the students in different sized schools concerning their perceived problems.
(a) Male seniors Class $A$ versus male seniors Class C-D, total number of problems. There were no significant differences.
(b) Vale seniors Class $A$ versus male seniors Class C-D, number of serious problems. No significant differences were f'ound.
(c) inale sophomores Class $A$ versus male sophomores Ciass C-D, total nuraber of problems. No significant differences were round.
(d) wale sophomores Class $A$ versus male sophomores Class C-D, number of serious problems. the statistical tests indicated no significant differences.
(e) remale seniors Class A versus female seriors Class $C-D$, total number of problens. "Aajusiment to school work" was the only problem area showing a discrepancy. The Class C-D group checked a freacer number or problems. (f) remale seniors Ciass í versus female seniors Class C-D, number oí serious problems. No significant differences in individual problem areas exceeded the .05 level of significance.
(g) r'emale sophomores Class A versus female sophomores Class C-D, total number of problems. There were no sifnificant differences between the groups. (h) Female sophomores Class A versus f'emale sophomores Class C-D, number of serious problems. No significant differences between the three groups were apparent. Of the eighty-eignt individual median tests for differences in the problems marked in different sized schools, one differed significantly. this could be expected by chance. $O_{n}$ the basis of this, it can be said that there are few apparent basic differences in the problems of the Christian high school students in tinis study as far as school size is
concerned. The one significant difference was between the female seniors in Class $A$ versus Class C-D in the problem area of "Adjustment to School Work." Reference to the data indicates that the Class $C-D$ group checked a greater nuinber of probleas. This may reflect the fact that the female seniors in the smaller schools have more problems in this area. It may also mean that the problems of the girls in the Class $A$ high school were fewer or that better help was available to them in solving these problems. The writer would assume the latter to be true because the Class A sample came from only one school, and this school had the most advanced guidance program of any of the Christian schools in the study. 4. There will be no significant differences between Christian and public school students relative to their indicated problems.
(a) Christian school males versus public school males, total number of problems. Discrepancies were indicated between the groups in each of the following problem areas: "Finances, Living Conditions and Employment" and "Morals and Religion." In each case, the public school students marked a greater number of problems in the area.
(b) Christian school males versus public school males, number of serious problems. Significant differences were found in the following areas: "Finances, Living Conditions and Employment," "rersonal-Fsychological Relations," and "Future: Vocational, Educational." In each case, the public school students again marked a greater number of problems in the problem area.
(c) Christian school females versus public school females, total number of problems. One problem area was found to be of disproportionate concern. It was the area of "Curriculum and Teaching Procedure."
(d) Christian school females versus public school females, number of serious problems. No significant differences were found between the groups.

In all, forty-four separate median tests were computed in testing for basic differences between the public and Christian school students. Of the forty-four tests six were found to indicate significant differences. Of the six, five were differences between the male groups, and in all five cases the public school group had checked a greater number of problems. Among the females only one difference was observed, and here the Christian school group evidenced a greater concern by checking more problems. The tests reveal that the public school females and Christian school females are not significantly different in their over-all problem patterns. The public and Christian school males do differ in five of the twenty-two areas so that while having many similarities these groups also evidence discrepancies.

Results of the Comparisons Based on the Sources of Guidance Questionnaire Data

Each between group comparison involved eleven separate contrasts, one in each problem area. The general null hypotheses that were tested and the significant findings follow:

1. There will be no proportionate difference between the Christian school leaders and teacners' perceptions of the primary sources of guidance their students should use in each problem area.
(a) Leaders versus teachers The null hypothesis is accepted in ten of the eleven problem areas. Only in "ivorals and religion" is there a discrepancy. 2. I'here will be no proportionate difference between the Christian school leaders' perceptions of the sources of guidance the stuaents should use and the stuaents report of the sources of guidance they do use in each problem area.
(a) Leaders versus seniors Discrepancies were found in the following five areas: "riealth and rhysical Development," "Social Kecreational Activities," "Courtship, Sex and marriage," "ivorals and keligion," and "Adjustment to school work." i'he null nypothesis is therefore accepted in six of the problem areas and rejected in the above five areas.
(b) Leaders versus sophomores Diversities were indicated in the same five areas as in the leaders versus seniors contrasts (a). The null hypothesis is again accepted in six of the problem areas.
2. There will be no proportionate difference between the teachers' perceptions of the sources of guidance the students should use and the students report of the sources of guidance they do use in each of the eleven ivooney problem areas.
(a) Teachers versus seniors Sifnificant differences were found in the following problem areas: "Health and Yhysical Development," "Social Kecreational Activities," "Courtship, Sex and Marriage," "rersonal-Ysychological Felations," "Future: Vocational, Educational," "Adjustment to School work," and "Curriculum and l'eaching Procedure." the null hypothesis is accepted in four of the problem areas and rejected in the above seven areas. (b) Teachers versus sophomores Discrepancies were found in the same seven areas as in the teachers versus seniors contrasts (a). Tre null hypotiesis is therefore again accepted in four or the eleven problem areas. 4. There will be no proportionate iifference between the students attending different sized schools relative to the primary sources of guidance they report they use in each problem area.
(a) Male seniors Class A versus male seniors Class C-D No dissimilarities were found. The nufl hypothesis is accepted in all eleven areas.
(D) Female seniors Class A versus female seniors Class C-D Of the eleven areas, a variation was found in "home and framily." the nuil hypothesis is accepted in ten of the eleven problem areas.
(c) ivale sophomores Class A versus male sophomores Class C-D A discrepancy was found in only the area of "Health and Physical Development." Ine null hypothesis is accepted in ten of the eleven Mooney areas.
(d) Female sophomores Class A versus female sophomores Class C-D iVo significant differences were observable in any of the eleven problem areas. The nuil hypothesis is accepted in all the eleven areas.
3. There will be no proportionate difference between the males and females relative to the primary source of guidance reported used in each problem area. (a) ivale versus female Of the eleven tests, one was significant. Hinis was in the area of "Courtship, Sex and Virarriage." Tne nul hypothesis is accepted in ten of the eleven problem areas.
4. There will be no significant difference between grades as to the students' perceptions of the primary sources of guidance used in each problem area.
(a) Seniors versus sophomores Again in only one of the eleven areas was a discrepancy observable, and this was in "Social Recreational Activities." Therefiore, acceptance of the hypothesis is justified in all areas but the one listed.

On the basis of the testing of the six preceding null hypotheses, the following statements can be made. with the exception of one problem area, the two adult group samplings agree with each other concerning where the students should receive their guidance. There is significant disagreement, however, between the adult and student groups in over half of the proolem areas. This indicates that the students sampled are not using the sources of guidance suggested by the adults as "ideal." when the students were compared on the basis of
sex, grade level, and size of school regarding the sources of guidance used, only minor differences existed. In sixty-six areas of comparison significant differences were evidenced in only four problem areas. This indicates that, in general, the student groups contrasted in the Christian schools report they are receiving their guidance from similar sources.

## CONCLUSIONS

The following conclusions are drawn from the study and are subject to the limitations of it.

1. There are significant differences between the sexes in the number of serious problems marked on the Mooney Problem Check List but few in the total number of problems checked. (Six of the eleven were significant in serious problems, and only one of eleven in the total problems)
2. There are no significant differences between the different grade levels in the problems indicated as ones of concern to the students.
3. There are minimal differences between the Christian school males and public school males concerning their indicated problems (two of eleven problem areas were significantly different based on the total number of problems checked, and three of eleven were significantly different in the number of serious problems marked). The public school female and Christian school female contrasts evidenced one dissimilarity in the twenty-two
comparisons (one significant diflerence in total problems). Generally speaking, the public and Christian school probiem patterns were much alike.
4. I'nere was one significant difference between the students in different sized schools concerning the problems indicated (one significant difference in eighty-eight median tests completed). 'l'herefore, it can be said tnat the problems of students in different sized schools in this study do not seem to be significantly dilferent.
5. The Cnristian school leaders and Cnristian school teachers agree concerning the primary sources of guidance winch they believe trie stucients should use. (One difference was noted in the eleven problem areas where comparisons were made).
6. There are proportionate differences between the Christian school leaders' perceptions of the sources of guidance the stucients siould use and the seniors and sophomores report of the sources used. (rive of the eleven problem areas contain significant differences.) 7. 'here are proportionate differences between the Christian school teachers' perceptions of the guidance sources the stuaients should use and the seniors and sophomores report of the sources used. (Seven of the eleven problem areas contain significant differences.) 8. when the seniors and sophomores were compared, there was one significant difference in the eleven problem areas
concerning the sources of guidance these respondents utilize. Therefore, students in different classes in school do not seem to differ concerning the sources of guidance they use.
7. When the males and females were compared, there was one significant difference in the eleven Mooney areas concerning the sources of guidance they utilize. The males and females do not seem to differ significantly in their reported sources of guidance. 10. There were two significant differences between the students in different sized schools concerning the sources of guidance they utilized. (Two significant differences in forty-four separate tests.) Therefore, it can be generalized that students in different sized schools tend to use the same sources of guidance.

## IMFLICATIONS

Having completed the presentation of the study, the writer would at this point like to take the liberty of making some statements concerning guidance in the Christian schools. The following statements and conclusions are based upon the writer's personal experience and research. The following views have been influenced by four years of teaching experience in a Christian high school as well as the background presented by doing the research for this thesis.
'the writer's views can best be presented by answering two crucial questions: (1) Do Christian high schools need organized guidance programs staffed with trained counselors?

If question one is answered in the affirmative, then the second question should be the following: (2) what type of guidance should the school provide?

The writer believes that Christian high schools should have guidance programs directed by trained people for the following reasons:

1. The Increased Vocational Complexity in our Society One of the major tasks of counselors is to aid students in vocational selections. American culture is the most technical, specialized, and complex in history and is continuing to move further in that direction. In the eighteenth century, $90 \%$ of all Americans were farmers. Vocational choices were few. Today there are roughly 44,000 jobs from winch to choose. What parent or teacher has knowledge of more than a few of these jobs? What parent can be objective about the abilities and aptitudes of his child? A specialist is needed to help young people assess their talents and to become acquainted with the world of work. Of the 330 problems on the problem check list used in the guidance study, the one that ranked seventh in importance among the young men was "needing to decide on a vocation." This indicates the importance of the problem of a vocational choice among the young men in the Christian high schools. (This problem is ranked as one of the top twenty-five by the young women in the Christian schools.) Further, the Christian school leaders in the guidance study indicated that the Christian school should have the primary respon-
sibility for providing guidance in the vocational area. These reasons justify trained vocational counselors in the schools. In fact, if counselors did nothing but vocational counseling, they would be a valuable asset to the schools and would fully justify their addition to the school staff.
2. The Development of Specialized Knowledge and Skills in the Behavioral Sciences In recent years psychology and sociology have developed rapidly and have uncovered useful material on human behavior. A specialist is needed in each school to master this subject matter, to keep abreast of new developments, to test them against "Biblical truth," to interpret them to faculty and parents, and to apply the material to the school situation. Included in this material are tests and measurements. Each school needs a specialist to utilize these instruments in a correct and helpful manner. Much misuse of tests is taking place in the schools, and a specialist could help to correct this situation.

This body of knowledge in the behavioral sciences will continue to grow and to become more useful. The average teacher does not have the time to master and apply it. A specialist is needed. The counselor becomes that specialist and applies this knowledge to the vocational, educational, and personal-social problems of the students.
3. Adolescent Problems rrobably the most difficult period in the American society is adolescence. This
period between childhood and adulthood is filled with problems and decisions which affect the rest of the individual's life. The period is also often characterized by a loosening of parental ties which sometimes limit the effectiveness of parental guidance. An understanding counselor who develops the confidence of the students can be a valuable supplement to the guidance provided by the parents in this transitional period of life。
4. Prevention of Educational Waste With the pressing weight of the numbers of students who are entering schools, it is important that educational waste be prevented. With his specialized knowledge the counselor can through counseling and testing help students select courses and curricula within their abilities. Gifted children and underachievers can be identified, and in many cases the full benefits of the educational process can be brought to bear upon them. Many students fail to do their best in school because personal problems absorb their attention and energy. Counselors can perform a real service in this area by helping to remove the blocks to full utilization of abilities.
5. Leading Educators Support Guidance The vast majority of leading educators in the United States today support guidance services wholeneartediy. I'he recent Conant report calls for one full time counselor for every 250 to 300 high school students. Christian schools
should not accept per se every program that develops in the public schools without carefully weighing its merits. After evaluating the merits of guidance programs, however, it will be found that the counsel of our country's leading educators is sound. The guidance study also indicated that the problem patterns of public and Christian school students are similar in many respects. This implies that if guidance is necessary in public schools it may be appropriate in Christian schools also. 6. Needed for Accreditation A reflection of the truth in statement five can be seen in the fact that accreditation agencies are planning in the near future to require schools to have full time counselors before they can be fully accredited. The North Central Association, for example, has stated that the high schools under its jurisdiction must have one counselor for each 300 students by the 1963-64 school year to be fully accredited. 7. Christian School Leaders Views In the guidance study, the Christian school leaders assigned primary guidance functions to the schools in three of the eleven problem areas dealt with in the study. It would seem that the handing of these guidance functions can best be handled by trained counselors outfitted with specialized training to handle this all important task. Do Christian schools need organized guidance programs? The writer believes the answer is clear and affirmative.

The next question that needs to be answered is what type of guidance should the school provide? It is difficult to discuss guidance and guidance sources because of the complexity involved. The framework used by this study (i.e. the eleven Mooney problem areas and Primary Sources of Guidance) is not ideal but it is helpful in studying and discussing the problem under consideration. Therefore, this framework will be used here to aid in the answering of the question that has been posed. It should be recognized that the following are broad generalizations.

Each student is unique with his own problems and with his own guidance resources which might well offer more appropriate help on occasions that the guidance sources aoout to be listed as ideal. It is with this in mind that the following are presented as ideal sources of guidance. The over-all guidance of the Christian school young people will first be discussed and followed by a section summarizing the school's role in the total guidance picture.

The writer believes the following sources of guidance should be used by the Christian high school students in each problem area.

1. Health and Physical Development The parents should be primarily responsible for providing guidance in this area up to a certain point. Tne parents should recognize the danger signals of most diseases and be prepared to immediately send their children to a doctor. The current study indicates that $67.6 \%$ of tine students
had gone or would go to their parents with a problem concerning health. This is good if the parents will recognize problems that need professional attention by a doctor and be willing to send their children to him. The school may play a minor role here by providing information of a health nature in connection with biology, physiology, general science or other related courses, but it need not be a major emphasis. The school may further provide a nurse to take care of emergencies, give first aid, and coordinate inoculation programs. The basic essentials of good health as well as help in solving problems in health and physical development, however, should be given to the child primarily by the home .
2. Finances and Living Conditions The parents should be primarily responsible for guidance in this area also. This viewpoint is in agreement with that of the teachers and Christian school leaders and also with the students who report that they do go to their parents for help on this type of problem in the majority of cases. 3. Social and Recreational Activities The area of social and recreational activities in the Christian school setting is one area that needs to be clarified and improved both from the standpoint of guidance and from the standpoint of providing attractive recreational activities. The conservative churches which support the Christian schools have been quick to condemn the movies, dances, and other recreation afforded public school
children but they have been slow to suggest positive replacements. Farents have by and Large followed the lead of the churches. The students indicate they go to their friends for help in this area in larger numbers than they do to their parents. This is a reflection of the negative approach to recreation which is still looked upon in some circles as a waste of time. 'lhe parents should be primarily responsible for guidance in this area and the church and school should actively develop programs of wholesome recreation. Much of the misconduct on the part of Christian school young people can be traced in part to the lack of positive guidance in this area and the lack of wholesome recreational opportunities.
3. Courtship, Sex and Marriage The parents should be primarily responsible for guidance in this area. The sex life of a child begins at birth and questions relating to sex are forthcoming pefore a child enters school. Because sex questions will have to be dealt with as they arise, the parents will of necessity be involved in sex education before the child enters school. There is no reason why the school or any other agency should assume these responsibilities when a child reaches a certain age. The guidance, education, and development of attitudes in the area of sex should continue to be the parent's responsibility. If sex education only involved the presenting of facts and information, perhaps the
school could play a major role. This is not true, however, because it is an area deeply laden with attitude formation of a highly emotional nature. Even a school system as homogeneous as the Christian school system would have difficulty presenting a program of sex education satisfactory to all the parents. It is therefore believed that the parents are in the best position to deal with the problems that arise in this area. This means that some parents will have to work to handie the task adequately, but the reward will be well worth it. If there is good rapport and understanding between parent and child this can be an extremely rewarding experience for both parent and child. The school counselor can and should be prepared to give assistance to parents who need and desire help in carrying out their responsibilities in this area.
4. Social-Psjchological Relations Again in this area, the parents should be primarily responsible for providing help. This view is in agreement with the views of the Christian school leaders and teachers sampled in this study. The church and the school should be actively concerned to the point of offering aid. The church should be actively involved because religion presents the basic essentials concerning man's relations with his fellow man as well as his inner feelings. The school with the trained counselor has a wealth of material in the areas of psychology and sociology which should be
available to students with special problems in this area. The parents, then, should be primarily responsible, but the church and school should provide positive supplementary programs to assist and aid the parents in this area which is one of the most important areas listed here. 6. Personal-Psychological Relations Because of the similarities between this problem area and number five, the statements relating to number five are applicable to this area also.
5. Morals and Religion when problems arise concerning morals and religion, the church should be primarily responsible for offering guidance. However, this guidance should be given by the church in close cooperation with the parents. Because the church is basically responsible for interpreting religious truth to the people, it therefore should assume the primary role in guidance where questions of morals and religion are involved. The minister and/or assistant pastor should provide active leadership in this problem area and through the catechism classes, Sunday school, Jouth groups, and other church activities attempt to anticipate and answer the questions of the young people as well as provide help and guidance when it is solicited by the young people or the parents.
6. Home and Family when problems arise within the family and concerning the family, these problems should be settled within the home group. The parents should
be the primary source of help and guidance. Obviously some problems of a more serious nature may occur and a third party would be desirable to give help in solving the problem. At this point the school and church should be ready to provide able assistance. The minister and school counselor must be adept in dealing with these problems. This problem area is one of the low ones in rank of concern as indicated by the students on the Mooney Problem Check List; however, serious problems may develop, especially in a group such as the Christian school society where strict discipline is of ten used and where there is in some quarters the additional problem of recent Dutch immigrants adjusting to the Americal culture.
7. Future: Vocational, Educational inis area of guidance more than any other one justifies the existence of a counseling program in the schools. The school should have the primary responsibilities for providing help and guidance in this area. The counselor with his specialized knowledge, techniques, and resources should be the primary agent in helping the young people to evaluate their abilities, interests, personality traits, and values and then to select the most suitable vocation. 10. Adjustment to School Work The school again should have the primary responsibility for guidance in the "Adjustment to School Work" problem area. I'he important sub-area of study skills and habits should be primarily
the responsibility of the classroom teacher. The counselor can aid and abet the program and give help where it is needed. The use of tests to help locate weak areas in a student's academic program (e.g. reading, math) and to uncover and help the underachievers can also be a part of the counselor's work. In this area, as well as all of the others, the parents should be an important source of guidance.
8. Curriculum and Teaching Procedure Help for problems in this area would closely parallel that of problem area ten. The school should be primarily responsible, but should strongly encourage the parents' assistance. Interestingly enough, it has been the writer's experience that the parents (who actually run the school through the parent school societies) often fail to do a good job in this problem area. Reference to the Chris-tian-public school comparisons reveals that the Christian school female students tend to mark a significantly greater number of problems in this area. this could indicate that the schools may not be doing adequate counseling in explaining their curriculum, purposes, and methods to the young people. It may also indicate parental indifference and/or criticism of the schools. The writer's experience indicates that both of these reasons play an important role in the development of problems in this area.

The writer believes that the Christian school guidance program should center about the vocational-educational guid-
ance area. The counselor should also be concerned with the area of Social-Psychological Relations and Personal-Psychological Relations. One of the important contributions in this area would be to help relate the new discoveries and ideas in the psychological-sociological areas to the "Biblical truths" held by the denomination. Further, the counselors should be able and ready to ald in any other of the guidance areas if in individual cases the agency primarily responsible should fail to perform its function. The strong family structure found within this religious group should be responsible for providing the main source of guidance in most of the problem areas discussed. The close relationship which is found between the home, the church, and the school should be put into proper focus so that each agency handing the areas of primary responsibility would stand ready to supplement the guidance of the other agencies. The great need within this group at present is for a delineating of responsibilities and a clarification of the guidance functions. It is hoped that this study will make a contribution in this direction.

If trained counselors are added to the Christian schools, it is hoped that they will, besides their primary responsibilities, serve to coordinate the guidance functions of the home, church, and the school. With their professional training they can also provide help to the parents (through talks, articles, and in-service programs) and aid the parents in becoming more adept at fulfilling their roles as counselors to their own children.

In closing, the writer would like to briefly summarize some of the implications of this study for the guidance of Christian school students. Based upon the questionnaire returns of the Christian school leader and teacher groups, the study indicates that the parents should bear the primary responsibility for guidance in most problem areas. The school should be involved in the guidance program when problems in the school work area are involved and also when problems of vocational-educational planning are evidenced. The parents and the church should be involved in problems concerning morals and religion. The indications are that the "ideal" guidance sources, as delineated by the adults, are not being utilized as well as they should be by the students. There was no indication that sex, grade level, and size of school were major factors in the determining of the sources of guidance used by the students.

The problems of the students seemed centered about their problems in school and problems involving their social, recreational, and personal-psychological relationships. There were significant differences in problem patterns between Christian school males and females and between Christian school males and public school males. In all cases, the Christian school males marked fewer problems in the areas of significant differences. This may mean that they have fewer problems or that they were more defensive in their answers, and therefore further research should be done in this area before great weight is placed upon these findings. Grade level, sex, size of
school, and type of school (public versus Christian) were factors of little or no significance in determining the problem profiles of the students.

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APPENDIX A

14

## Dear Principal

I am at present beginning a doctoral study which has the following endorsement:
> 'Mr. James Harvey's guidance and counseling study is endorsed by the National Union of Christian Schools because we feel that it has value for Christian education. We hope that you will co-operate with Mr. Harvey in this project."

> Cordially
> /s/ John A. Vander Ark
> Director

The study concerns students in the Christian high schools in Michigan and Illinois. As a part of this study, it is necessary to delineate a group of Christian school leaders.

It would be appreciated if you would fill in the blank on the reverse side of this letter. It asks that you list at least twelve people whom you feel are leaders in the Christian Schools affiliated with the National Union in the country today. These may be teachers, lay people, ministers, or college professors as long as you perceive them to be among the top people in the field. They may or may not live in your area.

I am interested in defining this group because a questionnaire has been prepared for them which is a key to the study.

You need not sign your name. Will you please return the blank to me by the 10 th of October?

Thank you for your help.


Please list at least 12 people whom you feel are at present the outstanding leaders in the Christian school movement in the United States. If you can list more, please do so. If you cannot list 12 please list as many as you can. Thank you for your co-operation.

## Name of Leader

1. $\qquad$
2. $\qquad$
3. 
4. $\qquad$
5. 
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. $\qquad$
11. $\qquad$
12. $\qquad$

APPENDIX B


# MOONEY PROBLEM CHECK LIST 

Ross L. Mooney<br>Bureau of Educational Research<br>Ohio State University

## DIRECTIONS

- This is not a test. It is a list of problems which are often troubling students of your age-problems of health, money, social life, home relations, religion, vocation, school work, and the like. Some of these problems are likely to be troubling you and some are not. As you read the list, pick out the problems which are troubling you. There are three steps in what you do.
First Step: Read through the list slowly, and when you come to a problem which suggests something which is troubling you, find the number of the item on the answer sheet and blacken the answer space BELOW the number. For example, if you are troubled by the fact that you are underweight (problem number 1 in the list), you would find number 1 on the answer sheet and blacken the answer space BELOW the number. Thus,

| :: 1 | $:$ 2 | ::7: | :: 4 | :::: |
| :---: | :---: | :---: | :---: | :---: |
| Wens | :::: | :::: | :::: | ::::: |

Go through the whole list in this way, marking the answer spaces below the numbers of the problems which are troubling you.

Second Step: When you have completed the first step, read again the items you have marked and pick out the ones which you feel are troubling you most. Show these problems by blackening the answer space ABOVE the number. For example, if, as you look back over all the problems for which there are black marks below the numbers on the answer sheet, you decide that "Being underweight" is one of those which troubles you most, then blacken the answer space ABOVE the number, like this,


This example shows how the sheet would be marked by a student for whom both items 1 and 4 represent problems, with 1 being among his most important problems.
Third Step: When you have completed the second step, answer the summarizing questions on the back of the answer sheet.

Do not make any marks in this booklet. Put all your marks on the answer sheet.

> Copyright 1950. All rights reserved.
> The Psychological Corporation
> 522 Fifth Avenue, New York 36, N. Y.

1. Being underweight
2. Being overweight
3. Not getting enough exercise
4. Getting sick too often
5. Tiring very easily
6. Needing to learn how to save money
7. Not knowing how to spend my money wisely
8. Having less money than my friends have
9. Having to ask parents for money
10. Having no regular allowance (or income)
11. Slow in getting acquainted with people
12. Awkward in meeting people
13. Being ill at ease at social affairs
14. Trouble in keeping a conversation going
15. Unsure of my social etiquette
16. Having dates
17. Awkward in making a date
18. Not mixing well with the opposite sex
19. Not being attractive to the opposite sex
20. Not being allowed to have dates
21. Getting into arguments
22. Hurting people's feelings ${ }^{-}$
23. Being talked about
24. Being made fun of
25. Being "different"
26. Losing my temper
27. Taking some things too seriously
28. Being nervous
29. Getting excited too easily
30. Worrying
31. Not going to church often enough
32. Not living up to my ideal
33. Puzzled about the meaning of God
34. Doubting some of the religious things I'm told
35. Confused on some of my religious beliefs
36. Worried about a member of the family
37. Sickness in the family
38. Parents sacrificing too much for me
39. Parents not understanding me
40. Being treated like a child at home
41. Unable to enter desired vocation
42. Doubting the wisdom of my vocational choice
43. Needing to know my vocational abilities
44. Doubting I can get a job in my chosen vocation
45. Wanting advice on what to do after high school.
46. Missing too many days of school
47. Being a grade behind in school
48. Adjusting to a new school
49. Taking the wrong subjects
50. Not spending enough time in study
51. Having no suitable place to study at home
52. Family not understanding what I have to do in school
53. Wanting subjects not offered by the school
54. Made to take subjects I don't like
55. Subjects not related to everyday life
56. Frequent headaches
57. Weak eyes
58. Often not hungry for my meals
59. Not eating the right food
60. Gradually losing weight
61. Too few nice clothes
62. Too little money for recreation
63. Family worried about money
64. 'Having to watch every penny I spend
65. Having to quit school to work
66. Not enough time for recreation
67. Not enjoying many things others enjoy
68. Too little chance to read what I like
69. Too little chance to get out and enjoy nature
70. Wanting more time to myself
71. No suitable places to go on dates
72. Not knowing how to entertain on a date
73. Too few dates
74. Afraid of close contact with the opposite sex
75. Embarrassed by talk about sex
76. Wanting a more pleasing personality
77. Not getting along well with other people
78. Worrying how I impress people
79. Too easily led by other people
80. Lacking leadership ability
81. Daydreaming
82. Being careless
83. Forgetting things
84. Being lazy
85. Not taking some things seriously enough
86. Parents making me go to church
87. Disliking church services
88. Doubting the value of worship and prayer
89. Wanting to feel close to God
90. Affected by racial or religious prejudice
91. Not living with my parents
92. Parents separated or divorced
93. Father or mother not living
94. Not having any fun with mother or dad
95. Feeling I don't really have a home
96. Needing to decide on an occupation
97. Needing to know more about occupations
98. Restless to get out of school and into a job
99. Can't see that school work is doing me any good
100. Want to be on my own
101. Not really interested in books
102. Unable to express myself well in words
103. Vocabulary too limited
104. Trouble with oral reports
105. Afraid to speak up in class discussions
106. Textbooks too hard to understand
107. Teachers too hard to understand
108. So often feel restless in classes
109. Too little freedom in classes
110. Not enough discussion in classes
111. Not as strong and healthy as I should be
112. Not getting enough outdoor air and sunshine
113. Not getting enough sleep
114. Frequent colds
115. Frequent sore throat
116. Wanting to earn some of my own money
117. Wanting to buy more of my own things
118. Needing money for education after high school
119. Needing to find a part-time job now
120. Needing a job during vacations
121. Nothing interesting to do in my spare time
122. Too little chance to go to shows
123. Too little chance to enjoy radio or television
124. Too little chance to pursue a hobby
125. Nothing interesting to do in vacation
126. Disappointed in a love affair
127. Girl friend
128. Boy friend
129. Deciding whether to go steady
130. Wondering if I'll find a suitable mate
131. Slow in making friends
132. Being timid or shy
133. Feelings too easily hurt
134. Getting embarrassed too easily
135. Feeling inferior
136. Moodiness, "having the blues"
137. Trouble making up my mind about things
138. Afraid of making mistakes
139. Too easily discouraged
140. Sometimes wishing I'd never been born
141. Wondering how to tell right from wrong
142. Confused on some moral questions
143. Parents old-fashioned in their ideas
144. Wanting to understand more about the Bible
145. Wondering what becomes of people when they die
146. Being criticized by my parents
147. Parents favoring a brother or sister
148. Mother
149. Father
150. Death in the family
151. Choosing best subjects to take next term
152. Choosing best subjects to prepare for college
153. Choosing best subjects to prepare for a job
154. Getting needed training for a given occupation
155. Wanting to learn a trade
156. Not getting studies done on time
157. Not liking school
158. Not interested in some subjects
159. Can't keep my mind on my studies
160. Don't know how to study effectively
161. Not enough good books in the library
162. Too much work required in some subjects
163. Not allowed to take some subjects I want
164. Not getting along with a teacher
165. School is ton strict
166. Poor complexion or skin trouble
167. Poor posture
168. Too short
169. Too tall
170. Not very attractive physically
171. Living too far from school
172. Relatives living with us
173. Not having a room of my own
174. Having no place to entertain friends
175. Having no car in the family
176. Not being allowed to use the family car
177. Not allowed to go around with the people I like
178. So often not allowed to go out at night
179. In too few student activities
180. Too little social life
181. Being in love
182. Loving someone who doesn't love me
183. Deciding whether I'm in love
184. Deciding whether to become engaged
185. Needing advice about marriage
186. Being criticized by others
187. Being called "high-hat" or "stuck-up"
188. Being watched by other people
189. Being left out of things
190. Having feelings of extreme loneliness
191. Afraid to be left alone
192. Too easily moved to tears
193. Failing in so many things I try to do
194. Can't see the value of most things I do
195. Unhappy too much of the time
196. Can't forget some mistakes I've made
197. Bothered by ideas of heaven and hell
198. Afraid God is going to punish me
199. Troubled by the bad things other kids do
200. Being tempted to cheat in classes
201. Being an only child
202. Not getting along with a brother or sister
203. Parents making too many decisions for me
204. Parents not trusting me
205. Wanting more freedom at home
206. Deciding whether or not to go to college
207. Needing to know more about colleges
208. Needing to decide on a particular college
209. Afraid I won't be admitted to a college
210. Afraid I'll never be able to go to college
211. Trouble with mathematics
212. Weak in writing
213. Weak in spelling or grammar
214. Trouble in outlining or note taking
215. Trouble in organizing papers and reports
216. Classes too dull
217. Teachers lacking personality
218. Teachers lacking interest in students
219. Teachers not friendly to students
220. Not getting personal help from the teachers
221. Trouble with my hearing
222. Speech handicap (stuttering, etc.)
223. Allergies (hay fever, asthma, hives, etc.)
224. Glandular disorders (thyroid, lymph, etc.)
225. Menstrual or female disorders
226. Parents working too hard
227. Not having certain conveniences at home
228. Not liking the people in my neighborhood
229. Wanting to live in a different neighborhood
230. Ashamed of the home we live in
231. Wanting to learn how to dance
232. Wanting to learn how to entertain
233. Wanting to improve myself culturally
234. Wanting to improve my appearance
235. Too careless with my clothes and belongings
236. Going with someone my family won't accept
237. Afraid of losing the one I love
238. Breaking up a love affair
239. Wondering how far to go with the opposite sex
240. Wondering if I'll ever get married
241. Wanting to be more popular
242. Disliking someone
243. Being disliked by someone
244. Avoiding someone I don't like
245. Sometimes acting childish or immature
246. Being stubborn or obstinate
247. Tending to exaggerate too much
248. Having bad luck
249. Not having any fun
250. Lacking self-confidence
251. Sometimes lying without meaning to
252. Swearing, dirty stories
253. Having a certain bad habit
254. Being unable to break a bad habit
255. Lacking self-control
256. Clash of opinions between me and my parents
257. Talking back to my parents
258. Parents expecting too much of me
259. Wanting love and affection
260. Wishing I had a different family background
261. Lacking training for a job
262. Lacking work experience
263. Afraid of unemployment after graduation
264. Doubting ability to handle a good job
265. Don't know how to look for a job
266. Don't like to study'
267. Poor memory
268. Slow in reading
269. Worrying about grades
270. Worrying about examinations
271. Teachers not considerate of students' feelings
272. Teachers not practicing what they preach
273. Too many poor teachers
274. Grades unfair as measures of ability
275. Unfair tests
276. Poor teeth
277. Nose or sinus trouble
278. Smoking
279. Trouble with my feet
280. Bothered by a physical handicap
281. Borrowing money
282. Working too much outside of school hours
283. Working for most of my own expenses
284. Getting low pay for my work
285. Disliking my present job
286. Too little chance to do what I want to do
287. Too little chance to get into sports
288. No good place for sports around home
289. Lacking skill in sports and games
290. Not using my leisure time well
291. Thinking too much about sex matters
292. Concerned over proper sex behavior
293. Finding it hard to control sex urges
294. Worried about sex diseases
295. Needing information about sex matters
296. Being too envious or jealous
297. Speaking or acting without thinking
298. Feeling that nobody understands me
299. Finding it hard to talk about my troubles
300. No one to tell my troubles to
301. Too many personal problems
302. Having memories of an unhappy childhood
303. Bothered by bad dreams
304. Sometimes bothered by thoughts of insanity
305. Thoughts of suicide
306. Sometimes not being as honest as I should be
307. Getting into trouble
308. Giving in to temptations
309. Having a troubled or guilty conscience
310. Being punished for something I didn't do
311. Friends not welcomed at home
312. Family quarrels
313. Unable to discuss certain problems at home
314. Wanting to leave home
315. Not telling parents everything
316. Not knowing what I really want
317. Needing to plan ahead for the future
318. Family opposing some of my plans
319. Afraid of the future
320. Concerned about military service
321. Getting low grades
:322. Just can't get some subjects
322. Not smart enough
323. Afraid of failing in school work
324. Wanting to quit school
325. School activities poorly organized
326. Students not given enough responsibility
327. Not enough school spirit
328. Lunch hour too short
329. Poor assemblies


330. If you had the chance, would you like to talk to someone about some of the problems you have marked on the list? Yes._No. If so, do you have any particular person(s) in mind with whom you would like to talk? __Yes.__No.
Third Step: Answer the following four questions.
331. Do you feel that the items you have marked on the list give
 Add anything further you may care to say to make the picture more complete.
332. How would you summarize your chief problems in your own words? Write a brief summary.

## APLENDIX C

## Pace 1

Sources of Guidance Questionnaire-Student Forn

## Instructions

## furpose of Questionnaire

Yours is a period of life in which many important problems must be faced. This questionnaire is an attempt to better understand where you get help in solving these problems.

## Lescrintion of Euestionnaire

There are two parts to this questionnaire. On the half-sheet (which is page 2) and directly beneath it on the left hand side of pare 3 you will find eleven different problem areas listed. On the richt hand side of page 3 you will find listed a number of possible sources of information which might be used for getting help and guidance to solve the problems in the eleven problem areas.

## Procedure

1. Fill in on the top of page 2 the information requested as to your grade, sex, and school.
2. Read problem area number 1. If you have had a problem in this area, think of the sources of information and guidance which you have used. (Even if you haven't had a problem in this area, determine where you would fo at the present time for help if you did have such a problem). Next, refer to the sources listed on the right hand side of page 3. If you find there the source or sources of information you have or would use, place the number of the most important source in the blank marked lst___under the problem area. If you have used more than one source, place these other source numbers in the order of importance by the blanks 2nd, 3rd, 4th, and 5th. You need not list five but you may do so if you prefer.
3. If a source of information which you have used is not listed on page 3, you may add this source by writing it in the spaces (iumbers 10 throuph 13) left for this purpose on pace 3. Write in the source and write the number by it in the correct space under the problem area.
4. Continue until you have done the above for all eleven problem areas.

Example: Sources used for problems of HAJTH ADD EDPY LEVMOPRDNT (such as problens concerninf your weight, bad health, physical handicaps, appearance, lack of sleep, eatinf, and similar problems).

1st._3_2nd. 4 3rd. 8 4th.___ 5th.___
The marking of the example indicates that when this person had a problem in the area of Health and Physical Levelooment, he got his most important help and guidance from his parents. (No. 3 placed by first). The next most important source of help indicated is his iriends (io. 4 placed by second) and the final most important source indicated is the reading of books or marazines containing information on health and physical development (No. 8 placed by third). Ey not filling in the 4 th and 5 th choices, the person has indicated that he would use or has used only the three sources he has listed.

GRAPH II
PUBLIC AND CHRISTIAN SCHOOL STUDENT RESPONSES ON "MOONEY"-SERIOUS PROBLEMS

GRAPH III

GRAPH IV
PUBLIC AND CHRISTIAN SCHOOL STUDENT RESPONSES ON "MOONEY"-SERIOUS PROBLEMS BY SEXES

GRAPH V

GRAPH VI


AFPENDIX E

134
Chr._Sch. Females_7s, Pub._Sch. Females
223
Number of Individuals Marking Serious Problems

2. FLE

| Chr Pub |  |  |  |
| :--- | ---: | ---: | ---: |
| Fewer | a |  |  |
| 0 | 129 | 65 | 194 |
| More | 1.19 |  |  |
| 94 | 62 | 156 |  |
| 223 | $12 N=350$ |  |  |



| 6. PPR | Chr Pub |  |  |
| :---: | :---: | :---: | :---: |
| Fequer | [53 ${ }^{\text {a }}$ | $74^{\text {b }}$ | 2273.53 |
| More | $70^{c}$ | $53{ }^{\text {d }}$ | 123 |
|  | 223 | $127 . \mathrm{N}$ | -350 |



10. ASW

11. CTP

| Fewer Pub <br> 0 | 141 | 88 | 229.106 |
| :---: | :---: | :---: | :---: |
| More | 22 | 39 | 121 |
| 223 | $127=350$ |  |  |

Formula Used:
$x^{2}=\frac{\left(\left(a d-b c \left\lvert\,-\frac{1}{2} N\right.\right)^{2} N\right.}{(a+b)(a+c)(b+c)(c+d)}$
$\frac{\text { Chre_Sch. Femaleste_Pub__Sch_ Females }}{223}$
223
Number of Individuals Marking Total_Problems

6. PPR

7. MR

8. HF


10. ASW

11. CTP


Formula Used:
$x^{2}=\frac{\left(\left(a d+b c \left\lvert\,-\frac{1}{2} N\right.\right)^{2} N\right.}{(a+b)-(a+c)(b+d)(c+d)}$


3
-

137
MEDIAN TESTS -- MOONEY DATA
Chre School Males us Pube School Males
Number of Individuals Marking_Serious_Problems

1. HPD



| $\begin{gathered} \text { 3: SRA } \\ \text { Fewer } \\ \hline \end{gathered}$ | cher ${ }^{\text {che }}$ |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  | 173 3.00 |
| More | $82^{\text {c }}$ | 78 | , |
|  |  | 45 |  |


6. PPR

7. MR

10. ASW

11. CTP


Fcrmula Used:
$X^{2}=\frac{\left(\left(a d-b c \left\lvert\,-\frac{-2 N}{}\right.\right)^{2} N\right.}{(a+b)(a+c)(b+d)(c+d)}$


1. HPD

2. FLE

|  | ${ }_{\text {Chr }}$ |  |  |
| :---: | :---: | :---: | :---: |
| $3$ | 116 | $67^{\circ}$ |  |
| More | $72^{\text {c }}$ | 78 | 150 |
|  | 188 | $145 \mathrm{~N}=$ | 333 |



| 4. CSM | Chr Pub |  |
| :---: | :---: | :---: |
| Fewer 4 | $116^{\text {a }}$ | $87^{6} 20$ |
|  | ${ }^{\circ}$ |  |
| More | 72 | 58130 |
|  | 188 | $145 \mathrm{~V}=333$ |

6. PPR

7. MR

8. HF

9. ASW

| Chr Pub |  |  |
| :---: | :---: | :---: |
| Pewer | $106^{8}$ | 74180 |
| More | $82^{\circ}$ | $71^{2} 153$ |
| 188 14可= 333 |  |  |

11. CTP


Formula Used:
$X^{2}=\frac{\left(\left(a d-b c \left\lvert\,-\frac{-2 N}{}\right.\right)^{2} N\right.}{(a+b)(a+c)(b+d)(c+d)}$

1. HPD

2. FLE

| $\begin{gathered} \text { Fewer } \\ 0 \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Sen Soph } \\ & \hline 32^{2} \\ & \hline \end{aligned}$ | 81.722 |
| :---: | :---: | :---: |
| More | $29^{\text {c }}$ 31 <br> 61  | 60 |
|  | $6180 \mathrm{~N}=$ | 41 |




8. HF

9. FVE

10. ASW

11. CTP


Formula Used:
$X^{2}=\frac{\left(\left(a d-b c \left\lvert\,-\frac{-k}{n} N\right.\right)^{2} N\right.}{(a+b)(a+c)(b+d)(c+d)}$
$\qquad$ Problems

| 1. HPD Sen Soph |  |  |
| :---: | :---: | :---: |
| $\begin{array}{r} \text { Fewer } \\ 3 \\ \hline \end{array}$ | $30^{2} \frac{S o p h}{6}$ | 73.130 |
| More | $31^{\circ} 37^{\circ}$ | 68 |
|  | 6180 N | =141 |

2. FLE




3. HF

4. ASW


Formula Used:
$x^{2}-\frac{\left(\left(a d-b c \left\lvert\,-\frac{2 N}{}\right.\right)^{2} N\right.}{(a+b)(a+c)(b+d)(c+d)}$

141
MIEDIAN TESTS -- MOMEY DATA
Niale Seniors
 Nele Sophomores

Number of Individuals Marking_Serious_Problems

1. HPD

2. FLE






3. ASW


Formula Used:
$X^{2}=\frac{\left(\left(a d-b c \left\lvert\,-\frac{-2}{2} N\right.\right)^{2} N\right.}{(a+b)(a+c)(b+d)(c+d)}$
.

# 142 <br> MEDIAN TESTS - MOONEY DATA 

## $\frac{\text { Male Seniors }}{52}$

Number of Individuals Marking Total $\qquad$ Problems

1. HPD




$$
\text { 4. } \cos M
$$

| 6. PPR | Sen Soph |  |  |
| :---: | :---: | :---: | :---: |
| Fewer | 25 | $47^{\text {b }}$ | 7238 |
| More | 27 | $25^{\text {a }}$ | 52 |

7. MR

8. HF


9. ASW

10. CTP

Formula Used:
$X^{2}=\frac{\left(\left(a d-b c \left\lvert\,-\frac{2}{2} N\right.\right)^{2}\right.}{(a+b)(a+c)} \frac{N}{(b+d)(c+d)}$


143
MEDIAN TESTS - MOONEY DATA



$$
\begin{array}{c|c|c|}
3 . \text { SRA } & M & F \\
\begin{array}{c}
\text { Fewer } \\
0
\end{array} & 106^{\mathrm{b}} & 102^{\mathrm{b}} \\
\hline \text { More } & 82^{c} & 121^{\mathrm{d}} \\
\hline & 208 & 203
\end{array}
$$


6. PPR

$1882231=411$
7. MR

8. HF

| Fewer 0 | M | F | $2707.35 \%$ |
| :---: | :---: | :---: | :---: |
|  | 137 | 133 |  |
| More | 51 | $90^{3}$ | 141 |
|  | 188 | 223 m | 411 |


10. ASW

11. CTP


Formula Used:
$X^{2}=\frac{\left(|a d-b c|-\frac{1}{2} N\right)^{2} N}{(a+b)(a+c)(b+d)(c+d)}$
$i$

144
MEDIAN TESTS - MOONEY DATA
$\frac{\text { Chr. School Males }}{188}$ Who Chr. School Females
Number of Individuals Marking_Total_Problems



Number of Individuals Marking_ Serious Problems

1. HPD

2. CSM

3. PPR



4. ASW

5. CTP

Formula Used:
$X^{2}=\frac{\left(|a d-b c|-\frac{-2}{2} N\right)^{2} N}{(a+b)(a+c)(b+d)(c+d)}$
-.

146
MEDIAN TESTS - MOONEY DATA
$\frac{\text { Female Sophs_A A Female Sophs_C-D }}{29}$
Number of Individuals Marking Total Problems

1. HPD

2. FLE

$$
\begin{array}{l|l|l|l}
\text { Fewer } & A & C-D \\
\hline & 17^{a} & 13 & 30 \\
\hline \text { More } & 12^{c} & 9 & 2064 \\
\hline 29 & 22 N & \\
\hline & 21
\end{array}
$$




7. MR



10. ASW

11. CTP

Formula Used:

$$
\left.\begin{array}{c|c|c|c}
\begin{array}{c}
\text { Fewer } \\
3
\end{array} & 18 & 7 \\
\hline \text { More } & \frac{11}{0} & 15 \\
\hline 29 & 22 N=51
\end{array} \right\rvert\, \begin{aligned}
& 26 \\
& 26
\end{aligned}
$$

$X^{2}-\frac{\left(1 a d-b c \left\lvert\,-\frac{2}{2} N\right.\right)^{2} N}{(a+b)(a+c)(b+d)(c+d)}$


147
MEDIAN TESTS - MOONEY DATA

## $\frac{\text { Male Sophs. A }}{25}$ Te Male Sophse_C-D

Number of Individuals Marking Serious Problems







10. ASW


Formula Used:
$X^{2}=\frac{\left(\left(a d-b c \left\lvert\,-\frac{2}{c} N\right.\right)^{2} N\right.}{(a+b)(a+c)(b+d)(c+d)}$

$$
-
$$

- 
- 1

MEDIAN TESTS -- MONEY DATA
Male Soph. A $\frac{25}{25}-\frac{\text { Male Sophie C-D }}{22}$
Number of Individuals Marking Total Problems

1. HPD

2. FLLE


3. CSM

4. PPR


5. HF

6. FVE

7. ASW

8. CTP


Formula Used:
$X^{2}=\frac{\left(\operatorname{lad}-b c \left\lvert\,-\frac{1}{2} N\right.\right)^{2} N}{(a+b)(a+c)(b+d)(c+d)}$
$\square$
$\therefore . .$.
-
-
-
1
-
-
-
i
$\frac{\text { Female Seniors A }}{20} \frac{\text { Female Seniors C-D }}{21}$
Number of Individuals Marking_Serious Problems

1. HPD





2. PPR

3. MR

4. ASW

5. CTP


Formula Used:
$X^{2}=\frac{\left(a d-b c \left\lvert\,-\frac{-3}{k} N\right.\right)^{2} N}{(a+b)(a+c)(b+d)(c+d)}$

Number of Individuals Marking_Total_Problems

1. HPD





2. MR



3. ASW

4. CTP

Formula Used:
$x^{2}-\frac{\left(|a d-b c|-\frac{1}{2} N\right)^{2} N}{(a+b)(a+c)(b+d)(c+d)}$
$\square$

- 

MEDIAN TESTS - MOONEY DATA
$\frac{M a l e \text { Seniors _A }}{17} \frac{\text { Male Seniors_C-D }}{19}$
Number of Individuals Marking Serious Problems




6. PPR


8. HF


10. ASW

11. CTP


Formula Used:
$X^{2}=\frac{\left(|a d-b c|-\frac{1}{2} N\right)^{2} N}{(a+b)(a+c)(b+d)(c+d)}$
-
-
-
$\because$

- $\square$
- 

$-\cdots$
$j$
-


Number of Individuals Marking $\qquad$ Problems

4. CSM
6. PPR

7. MR

8. HF


10. ASW

11. CTP


Formula Used:
$X^{2}=\frac{\left(|a d-b c|-\frac{1}{2} N\right)^{2} N}{(a+b)(a+c)(b+d)(c+d)}$


## APFENDIX F

1. HPD

2. SRA

3. CSM

4. SPr

5. PPR

6. MR

7. HF

8. FVE

9. ASW

10. CTP


Formula Used:

$$
x^{2}=\frac{\left(1 a d-b c!-\frac{1 N}{2}\right)^{2} N}{(a+0)(2+(i+n) ;(c+d)}
$$

## CHI SQUARE TEST - QUESTIOMNATRE DATA



1. HPD

2. FLE

3. SRA

4. CSM

5. SPr

6. PPR

$$
\begin{aligned}
& 5481 \mathrm{~N}=135
\end{aligned}
$$

1. HPD

2. FLE

3. SRA

4. CSM

5. SPr

$$
\begin{aligned}
& 7497 \mathrm{~N}=171
\end{aligned}
$$

6. PPR

7. $M R$

8. HF

9. FVE

10. ASW

11. CTP


Formula Used:

$$
x^{2}=\frac{\left.(1 a d-b c)-\frac{3 N}{}\right)^{2} N}{(a+0)(a-2)(b+d j(c+d)}
$$

Staff V8e Seniors

1. HPD

2. FLE

3. SRA

4. CSM

5. SPr

6. PPR


19 132N=151
..

## CHI SQUARE TEST - QUESTIONNAIRE DATA

Staff F8e Sophe

1. HPD

2. FLE

3. SRA

4. CSM

$11473 \mathrm{~N}=187$

## 5. SPr


6. PPR

7. MR

8. HF

9. FVE

10. ASW

11. CTP


Formula Used:

$$
x^{2}=\frac{\left(1 a d-b c d-\frac{3 N}{}\right)^{2} N}{(a+b)\left(a^{2}-3\right)(b+d)(c+d)}
$$

$$
2416 \mathrm{y}=187
$$

* This number is the number of the guidance source on the sources of guidance

1. HPD

2. FLE

3. SRA

4. CSM

5. $\operatorname{SPr}$

6. PPR


This number is the number of the guidqnce source on the sources of guidance
-

1. HPD

2. FLE

3. SRA

4. CSM


131 131N=262
5. $\operatorname{SPr}$

6. PPR

$109153 v=262$
This number is the number of the guidhine source on the sources of guidance

161
CHI SQUARE TEST -- QUESTIONNAIRE DATA
Total Students A IS e Band D

1. HPD

2. FLE

3. SRA

4. $\operatorname{CSM}$

5. STr

6. PPR

$120149 V=269$
This number is the number of the guide, se source on the sources of guidance
$\square$

162<br>CHI SQUARE TEST - - GSTIONNATRE DATA<br>Male Sro. Class Arse C and D

1. HPD

2. FLE

3. SRA

4. CSM

5. $\operatorname{SPr}$

6. MR

Agree Disagree

8. HF

9. FVE

10. ASW

11. CTP


Formula Used:

$$
x^{2}=\frac{\left(1 a d-b c \left\lvert\,-\frac{1}{2} N\right.\right)^{2} N}{(a+:)(2+2-a)(b+d)(c+d)}
$$

$14 \quad 22 \mathrm{~V}=36$

* This number is the number of the guidance source on the sources of guidance
$\square$
$\square$
- 
- 
- 
- 
- 

163
ChI SQuare test -- questioinaire data Male Sophse A vse C and D

1. HPD

2. FLE

3. SRA

4. CSM

5. SPr

6. PPR

7. MR

8. HF

9. FVE

10. ASW

11. CTP


Formula Used:

$$
-
$$

164<br>CHI SQUARE TEST - QUESTIONNAIRE DATA<br>Seniors Girls _A VBa_

1. HPD

2. FLE

3. SRA

4. CSM

5. SPF

6. PPR

7. MR

8. HF
9. FVE

10. ASW

11. CTP


Formula Used:

$$
x^{2}=\frac{\left(1 a d-b c!-\frac{1 N}{}\right)^{2} N}{(a+n)(2 a!}(b+d)(c+d)
$$

$14 \quad 26 \mathrm{~N}=40$

* This number is the number of the guidance source on the sources of guidance

1. HPD

2. FLE

3. SRA

4. CSM

5. STr

6. PPR

$27 \quad 23 \mathrm{~V}=50$

* This number is the number of th


## Focm wes cay

$$
\begin{aligned}
& \text { Ef:c } \\
& \text { NOV } 11 \text { 10c5 }
\end{aligned}
$$




[^0]:    ${ }^{2}$ A copy of the letter-questionnaire is found in Appendix A.

[^1]:    See Table III. 2 for details of Christian school sampling. 5 sample.

[^2]:    $8_{\text {The }}$ written directions for the administration of each instrument will be found in Appendix C.

[^3]:    The statistical work sheets will be found in Appendix E.

[^4]:    HO:there will be no significant difference between the contrasted groups concerning the number of problems marked in each of the eleven ifooney problem areas.

