INFORMATION TO USERS

This reproduction was made from a copy of a document sent to us for microfilming. While the most advanced technology has been used to photograph and reproduce this document, the quality of the reproduction is heavily dependent upon the quality of the material submitted.

The following explanation of techniques is provided to help clarify markings or notations which may appear on this reproduction.

- 1. The sign or "target" for pages apparently lacking from the document photographed is "Missing Page(s)". If it was possible to obtain the missing page(s) or section, they are spliced into the film along with adjacent pages. This may have necessitated cutting through an image and duplicating adjacent pages to assure complete continuity.
- 2. When an image on the film is obliterated with a round black mark, it is an indication of either blurred copy because of movement during exposure, duplicate copy, or copyrighted materials that should not have been filmed. For blurred pages, a good image of the page can be found in the adjacent frame. If copyrighted materials were deleted, a target note will appear listing the pages in the adjacent frame.
- 3. When a map, drawing or chart, etc., is part of the material being photographed, a definite method of "sectioning" the material has been followed. It is customary to begin filming at the upper left hand corner of a large sheet and to continue from left to right in equal sections with small overlaps. If necessary, sectioning is continued again—beginning below the first row and continuing on until complete.
- 4. For illustrations that cannot be satisfactorily reproduced by xerographic means, photographic prints can be purchased at additional cost and inserted into your xerographic copy. These prints are available upon request from the Dissertations Customer Services Department.
- 5. Some pages in any document may have indistinct print. In all cases the best available copy has been filmed.



-	

Robinson, Bobby Ann

AN EXAMINATION OF SELECTED CURRICULAR RESPONSIBILITIES AND RELATED PROFESSIONAL DEVELOPMENT NEEDS OF SCHOOL PRINCIPALS IN NINE COUNTIES IN MICHIGAN

Michigan State University

PH.D. 1982

University
Microfilms
International 300 N. Zeeb Road, Ann Arbor, MI 48106

PLEASE NOTE:

In all cases this material has been filmed in the best possible way from the available copy. Problems encountered with this document have been identified here with a check mark $\sqrt{}$.

1.	Glossy photographs or pages
2.	Colored illustrations, paper or print
3.	Photographs with dark background
4.	Illustrations are poor copy
5.	Pages with black marks, not original copy
6.	Print shows through as there is text on both sides of page
7.	Indistinct, broken or small print on several pages
8.	Print exceeds margin requirements
9.	Tightly bound copy with print lost in spine
10.	Computer printout pages with indistinct print
11.	Page(s) lacking when material received, and not available from school or author.
12.	Page(s) seem to be missing in numbering only as text follows.
13.	Two pages numbered Text follows.
14.	Curling and wrinkled pages
15.	Other

University
Microfilms
International

AN EXAMINATION OF SELECTED CURRICULAR RESPONSIBILITIES AND RELATED PROFESSIONAL DEVELOPMENT NEEDS OF SCHOOL PRINCIPALS IN NINE COUNTIES IN MICHIGAN

by

Bobby Ann Robinson

A DISSERTATION

submitted to
Michigan State University
in partial fulfillment of the requirements
for the degree of

DOCTOR OF PHILOSOPHY

Department of Educational Administration and Curriculum
1982

ABSTRACT

AN EXAMINATION OF SELECTED CURRICULAR RESPONSIBILITIES AND RELATED PROFESSIONAL DEVELOPMENT NEEDS OF SCHOOL PRINCIPALS IN NINE COUNTIES IN MICHIGAN

By

Bobby Ann Robinson

The purpose of this study was to investigate selected curricular responsibilities and related professional development needs of school principals as perceived by principals and superintendents in a nine county geographical location in Michigan.

A series of sixteen research questions was investigated. These sixteen questions were divided into four groups representing four dependent variables. The dependent variables were investigated as to how they were affected by two dependent variables: (a) level of administration, and (b) size of school district where the principal was employed.

The four dependent variables under investigation were:

- (1) The perceived percent of time the principal spent on curricular responsibilities in comparison to other responsibilities.
- (2) The degree to which selected curricular responsibilities were perceived as being important for school principals.

- (3) The degree to which principals were perceived as engaging in selected curricular responsibilities.
- (4) The degree of perceived professional development needs for the selected curricular responsibilities.

The Taba Curriculum Development Model (Taba, 1965) was utilized for the curricular responsibilities selected for those included on a survey instrument sent to principals and superintendents in a designated area of Michigan.

The following findings were derived from this study:

- Only 15.71% of a principal's time is spent on curricular responsibilities as perceived by principals and superintendents. Curricular responsibilities were ranked third among seven designated responsibilities.
- 2. The level of principalship does have an effect on the principal's perceptions as to the degree of importance and degree of engagement in selected curricular responsibilities.
- 3. Principals and superintendents do not differ significantly in their perceptions as to the degree of importance, engagement and professional development needs for selected curricular responsibilities for principals.
- 4. None of the curricular responsibilities in

the designated categories were perceived by principals and superintendents as having a high degree of importance for principals but were perceived as ranking from medium to low importance.

- 5. None of the curricular responsibilities in the designated categories were perceived by principals and superintendents as being highly engaged in by principals but were perceived as being engaged in from a medium to low degree.
- 6. None of the curricular responsibilities in the designated categories were perceived, by principals and superintendents, as having high professional development needs but were perceived as having a medium to low professional development needs.

Copyright by
Bobby Ann Robinson
1982

This is dedicated to the memories of my father, Fredrick D. Robinson and to my mother, Corine Robinson, the master teacher.

". . . Behold I have set before thee an open door, and no man can shut it . . . "

The Holy Bible, Revelations 3:8

ACKNOWLEDGEMENTS

The author is grateful to the following persons for their assistance in the completion of this study. Dr. Charles Blackman, the study chairperson, has been extremely helpful with his constant critiques of the study and providing the many suggestions for improvement. For their assistance, appreciation is extended to the study committee members, Doctors Sam Corl, Lawrence Lezotte and Louis Romano.

TABLE OF CONTENTS

	•	Page
LIST C	F TABLES	ix
LIST C	F FIGURES	xii
Chapte	r	
1.	INTRODUCTION	1
	Purpose of the Study	2
	Research questions	3
	Importance of the Study	6
	Assumptions	7
	Scope of the Study	8
	Definition of Terms	8
	Organization of the Study	10
II.	REVIEW OF RELATED LITERATURE	12
	Theoretical Background	12
	Related Studies	20
	Summary of Chapter	30
III.	METHODS AND PROCEDURES	31
	Restatement of the Purpose	31.
	Research Questions	32
	Population	35
	Sample	36
	Instrument	37
	Field Testing of Instrument	40

Chapter		Page
	Instrument Distribution and Collection	40
	Limitations of the Study	42
	Treatment of Incomplete Data	48
IV.	ANALYSIS OF DATA	51
	Perceived Percentage of Time Spent on Curricular Responsibilities	52
	Summary of Perceived Percentage of Time Spent on Curricular Responsibilities	57
	Perceived Importance of Selection Cur- ricular Responsibilities	61
	Summary of Perceived Importance of Selected Curricular Responsibilities	68
	Perceived Engagement in Selected Curricular Responsibilities	69
	Summary of Perceived Engagement in Selected Curricular Responsibilities	78
	Perceived Professional Development Needs for Selected Curricular Responsibilities	80
	Summary of Perceived Professional Development Needs for Selected Curricular Responsibilities	87
	Summary of Chapter	88
v.	SUMMARY, FINDINGS AND RECOMMENDATIONS	91
	Restatement of Research Questions	92
	Findings	95
	Discussion	96
	Recommendations	98

Chapter	Page
APPENDICES	101
A. Letter to Participants	102
B. Survey Instrument	104
C. Perceived Percent of Time Principals Spent on Other Responsibilities	107
BIBLIOGRAPHY	115

LIST OF TABLES

Table	e	Page
2:1	Interrelationships of Curriculum, Instruction and Learning	19
3:1	School Districts According to Size	36
3:2	Sample Breakdown According to Levels of Administration and Size of School Districts	37
3:3	Returned Survey Instruments from Various Sub- populations	41
3:4	Subcurricular Topics and Related Survey Items	47
3:5	Valid Survey Responses for Each Variable	50
4:1	Percent of Time Principals Spent on Curricular Responsibilities in Comparison to Other Respon- sibilities as Perceived by Various Subpopulations.	54
4:2	Percent of Time Principals Spent on Curricular Responsibilities as Perceived by Various Subpopulations	55
4:3	MANOVA For Interaction Between Independent Variables of Size and Position for Perceived Percent of Time Principals Spent on Curricular Responsibilities	56
4:4	Perceived Percentage of Time Spent on Curricular Responsibilities According to Size of School District	58
4:5	Perceived Percentage of Time Spent on Curricular Responsibilities According to Level of Administration	59 ·
4:6	Ranking of Curricular Categories for Principals in Order of Importance by Mean Scores as Perceived by Principals and Superintendents	62
4:7	Interaction Between Independent Variables of Size and Position for Perceived Importance of Selected Curricular Responsibilities	63

Table		Page
4:8	Levels of Significance for Middle/Junior High Principals Contrasted with High School Principals on The Perceived Importance of Responsibilities in Subcurricular Categories	64
4:9	Means and Standard Deviations for Perceived Importance of Curricular Responsibilities According to Subcurricular Categories as Reported by Subpopulations	65
4:10	Levels of Significance for Elementary Principals Contrasted with Middle/Junior and High School Principals on the Perceived Importance of Respon- sibilities in Subcurricular Categories	66
4:11	Levels of Significance for Superintendents Contrasted with Principals on the Perceived Importance of Responsibilities in Subcurricular Categories	66
4:12	Ranking of Responsibilities in Curricular Cate- gories for Principals in Order of Engagement by Mean Scores as Perceived by Principals and Superintendents	71
4:13	Interaction Between Independent Variable of Size and Position for Principal's Perceived Engagement in Selected Curricular Responsibilities	72
4:14	Levels of Significance Between Middle/Junior High School Principals Contrasted with High School Principals	72
4:15	Levels of Significance for Middle/Junior High School Principals Contrasted with High School Principals on Perceived Engagement in Responsibi- lities in Subcurricular Categories	73
4:16	Means and Standard Deviations for Perceived Engagement in Curricular Responsibilities According to Subcurricular Categories as Reported by Subpopulations	- 74
4:17	Levels of Significance Between Elementary Principals and Middle/Junior High and High School Principals on Principal's Perceived Engagement in Selected Curricular Responsibilities	75
4:18	Levels of Significance for Elementary Principals Contrasted with Middle/Junior High and High School Principals on Perceived Engagement in Responsibi- lities in Subcurricular Categories	75

Table	2	Page
4:19	Levels of Significance Between Superintendents Contrasted with Principals on Principal's Per- ceived Engagement in Selected Curricular Respon- sibilities	76
4:20	Levels of Significance Between Medium School Districts Contrasted with Large School Districts on Principal's Perceived Engagement in Selected Curricular Responsibilities	77
4:21	Levels of Significance for Medium School Districts Contrasted with Large School Districts on the Perceived Engagement in Responsibilities in Sub- curricular Categories	77
4:22	Level of Significant Difference Between Small School Districts Contrasted with Medium and Large Districts on the Principal's Perceived Engagement in Selected Curricular Responsibilities	78
4:23	Ranking of Responsibilities in Curricular Categories for Principals in Order of Professional Development Needs as Perceived by Principals and Superintendents	82
4:24	Interaction Between Independent Variables of Size and Position for Perceived Professional Develop- ment Needs for Selected Curricular Responsibilities	s 83
4:25	Levels of Significance for Middle/Junior High Principals Contrasted with High School Principals on Perceived Professional Development Needs for Responsibilities in Subcurricular Categories	84
4:26	Levels of Significance for Elementary Principals Contrasted with Middle/Junior High and High School Principals on Perceived Professional Development Needs for Responsibilities in Subcurricular Categories	84
4:27	Levels of Significance for Superintendents Contrasted with Principals on Perceived Professional Development Needs for Responsibilities in Subcurricular Categories	85
4:28	Means and Standard Deviations for Perceived Professional Development Needs for Curricular Responsibilities According to Subcurricular Categories as Reported by Subpopulations	86
4:29	Summary of Significant Interactions and Significant Differences for Each Variable	90

LIST OF FIGURES							
Figu	re	•					Page
1.	MANOVA	Process	for	Analyzing	Data		45

CHAPTER I

INTRODUCTION

During the past quarter of a century persons in public educational leadership positions have been faced with many new issues and problems. Among those are declining student enrollments, declining financial resources, changes in the national economy, changing values of America's youth, the urban crisis, rapid emergence of teachers' unions, the new technology and the knowledge explosion from which it springs, public criticism of schools and voter rejection of increased spending for schools.

Despite the marked changes which have taken place, more modifications are probably yet to come as schools change to meet the needs of the time. As these changes occur, the role of the school principal is assumed to increase significantly in importance. This person will take more direct responsibility for what happens in a particular school. The concepts of principalship and leadership will become more synomymous in education.

More than ever the principal will be in a position to affect attitude, social climate, morale, progress, co-operation and direction of effort in the school.

He will be the key person charged with the responsibility of improving instruction. He will assume even greater curricular responsibilities.

If this is so, it must follow that continuous investigation is needed concerning the present curricular responsibilities and related professional development needs of school principals.

Purpose of the Study

The purpose of this study was to investigate selected curricular responsibilities and related professional development needs of school principals as perceived by principals and superintendents in a nine county geographical location in Michigan. Two independent variables were investigated as to their effects on four dependent variables.

The four dependent variables under investigation were:

- (1) The perceived percent of time the principal spent on curricular responsibilities in comparison to other responsibilities.
- (2) The degree to which selected curricular responsibilities were perceived as being important for school principals.
- (3) The degree to which principals were perceived as engaging in selected curricular responsibilities.
- (4) The degree of perceived professional development

needs for the selected curricular responsibilities

The dependent variables were investigated in relationship to two independent variables: (a) level of administration and (b) size of the school district where the
principal was employed.

The Taba Curriculum Development Model (Taba, 1965) was utilized for the curricular responsibilities selected to be included on a mailed survey instrument sent to principals and superintendents in a designated area of Michigan.

A series of sixteen research questions was investigated. These sixteen questions were divided into four groups representing the four dependent variables. The first of each of the four sets of questions made a quantitative inquiry such as "what?" or "which?" and required a ranking of clusters of the reponsibilities according to responses. The next three questions in each set focused on significant differences among the population according to the independent variables of administrative position and size of the school district which included: (a) contrasting of principalship positions, (b) contrasting superintendents with principals and (c) contrasting of sizes of school districts.

Utilizing the stated variables and population the following series of research questions was investigated:

Perceived Percentage of Time Spent on Curricular Responsibilities

 What percentage of a principal's time is spent on curricular responsibilities in comparison to other

- responsibilities as perceived by school principals and superintendents?
- 2. Is there a significant difference between the percentage of time spent on curricular responsibilities, as perceived by school principals, and the grade level of principalship?
- 3. Is there a significant difference between the principal's and superintendent's perceptions of the percentage of the principal's time spent on curricular responsibilities in comparison to other responsibilities?
- 4. Is there a significant difference between the percentage of time the principal spent on curricular responsibilities, as perceived by principals and superintendents, and the size of the school district where the principal is employed?

Perceived Importance of Curricular Responsibilities

- 5. Which of the selected curricular responsibilities are the most important to principals as perceived by principals and superintendents?
- 6. Is there a significant difference between the importance of the selected curricular responsibilities, as perceived by school principals, and the grade level of principalship?
- 7. Is there a significant difference between the principal's perceptions and the superintendent's perceptions of the importance of the selected

- curricular responsibilities for principals?
- 8. Is there a significant difference between the importance of the selected curricular responsibilities for principals, as perceived by principals and superintendents, and the size of the school district where the principal is employed?

Perceived Engagement in Selected Curricular Responsibilities

- 9. In which of the selected curricular responsibilities do principals most engage as perceived by school principals and superintendents?
- 10. Is there a significant difference between the selected curricular responsibilities in which principals most engage, as perceived by principals, and the grade level of principalship?
- 11. Is there a significant difference between the principal's perceptions and the superintendent's perceptions as to the selected curricular responsibilities in which principals most engage?
- 12. Is there a significant difference between the selected curricular responsibilities in which principals most engage, as perceived by principals and superintendents, and the size of the school district where the principal is employed?

Perceived Professional Development Needs for Curricular Responsibilities

13. In which of the selected curricular responsibilities do principals have the greatest professional

- development needs as perceived by principals and superintendents?
- 14. Is there a significant difference between the principal's professional development needs, as perceived by school principals, and the grade level of principalship?
- 15. Is there a significant difference between the principal's perceptions and the superintendent's perceptions of the principal's professional development needs?
- 16. Is there a significant difference between the principal's professional development needs, as perceived by principals and superintendents, and the size of the school district where the principal is employed?

Importance of the Study

Several state and national studies have been conducted on the roles, responsibilities and activities of school principals. Some of these key studies will be discussed in Chapter II, Review of the Literature. Most of these studies, however, tend to focus on the total responsibilities of principals in a specific level of assignment such as the elementary principal, middle school principal or high school principal. No studies were found which focused specifically on the curricular responsibilities of principals.

The results of this study will aid in contributing to the understanding of the principal's curricular responsibilities since it transcends all levels of assignments and sizes of school districts to focus specifically on curricular responsibilities. The study is also important since it is the only one known in which the relationship between curricular responsibilities and related professional development needs of school principals is investigated. Thus, the findings can contribute to a bank of knowledge to be considered when planning administrative professional development programs.

Finally, this study is important because it focuses on contrasting the principal's perceptions of curricular responsibilities and the superintendent's perceptions of curricular responsibilities.

Assumptions

The study was begun with the assumption that curricular responsibilities should be an integral part of the principal's job. This assumption is based upon descriptive research by Brookover, et. al. (1976), Brookover and Lezotte et. al. (1977), Edmonds (1979) and others whose research indicated that in instructionally effective schools, the building principal is the instructional leader.

The assumption that principal's curricular responsibilities will increase is not based upon statistical research but upon the investigator's personal observations of sixty-five school districts in a nine county location in Michigan during a four year period. Such observations have revealed decreased administrative support staffs such as

curriculum and instructional specialists. Since these support staffs are not as available, principals appear to be more involved in curricular responsibilities. Thus, the assumption that the principal's curricular responsibilities will increase is based mostly on the author's subjective observations.

Scope of the Study

A set of selected curricular responsibilities and related professional development needs of school principals in a nine county location of Michigan will be investigated in this study.

Definition of Terms

Administrator:

Individual appointed to administrater a school building or
school system. For the purpose
of this study the term will refer
to the following positions: Superintendent, elementary principal,
middle/junior high school
principal.

Superintendent:

Designated chief executive of a school district and professional leader of the teaching staff.

Designated administrative head and professional leader of a school building or complex to

which students in any or all grades

Building Principal:

assigned. For this study, elementary, middle/junior high school and high school principals are

considered building principals.

kindergarten through twelve are

Designated administrative head and professional leader of a school building or complex to which students in any or all grades nine through twelve are

assigned.

Designated administrative head and professional leader of a school building or complex to which students in any or all grades five through nine are assigned.

Designated administrative head and professional leader of a school

dents in any or all grades kinder-

building or complex to which stu-

garten through six are assigned.

Planned program(s) or a series

of programs, based on identified

needs and designed to bring about

a change in knowledge, attitudes and performance of professional

employees in a school district.

High School Principal:

Middle and/or
Junior High School
Principal:

Elementary Principal:

Professional
Development:

In this study such employees will refer to building principals as defined.

Curriculum: A concern for the decision of

what is to be taught, why, to

whom, for what purpose and

under what conditions.

Instruction: A concern for the decision of

how the curriculum is to be

taught and under what condi-

tions.

Small School A public school district (K-12)

District: employing zero to eight build-

ing principals.

Medium or Middle A public school district (K-12)

Sized School District: employing nine to fourteen

building principals.

Large School A public school district (K-12)

District employing fifteen or more

building principals.

Organization of the Study

The organization of the study will comprise five chapters. Chapter I, the introduction, began with a statement of the problem followed by the study's purpose and subsequent research questions. Following these, the importance, assumptions and scope were discussed. A section in which key terms were defined was also included.

A survey of literature will be discussed in Chapter II. This literature will be discussed in two segments. The first segment provides a brief theoretical background to establish the grounding for the Taba Curriculum Model which was used as a basis for the study's survey instrument. Several key studies conducted during the past ten years on responsibilities of school principals will be discussed in the next segment.

Methodologies employed in conducting the study will be explained in Chapter III. Included will be a description of the geographical location in which the study was conducted as well as a description of the study's population. There will also be included descriptions of data collection sources, processes and data analyses.

Data analyses will be presented in Chapter IV. Descriptive statistics will be employed and presented in charts and narration.

Findings, conclusions, implications and recommendations of the study will be discussed in Chapter V.

CHAPTER II

REVIEW OF RELATED LITERATURE

The review of literature will be discussed in two segments. The first segment will focus on a brief theoretical background of curriculum development which provides the grounding for the Taba Curriculum Model. The Taba curriculum development sequence was used as a basis for the study's survey instrument. The second segment will focus on related descriptive research conducted on the responsibilities of school principals.

Theoretical Background

Curriculum theorists such as Herbert Kliebart (1975)
date curriculum's prominence as a specialized field of
application beginning during the second decade of the
twentieth century. During that time educators such as
Franklin Bobbitt and W.W. Charters believed that the
scientific methods being used in industry could also be
applied to education. Both educators were dissatisfied with
the lack of order and scientific methods being used to make
curricular decisions.

In one of the first books written on Curriculum, Bobbitt (1918) set the tone for modern curriculum development. The

book strongly criticized curriculum being developed by chance and guess. "An age of science is demanding exactness and particularity," Bobbitt said (Bobbitt, p.41). If curriculum continued to be developed haphazardly, education would be irrelevant and inefficient. To remedy the lack of order in deciding what to include in the curriculum, Bobbitt developed a central theory for curriculum development. He stated that humans, regardless of their many differences, do engage in many basic common activities. It was necessary for educators to identify those common activities and create educational experiences that prepared an individual to perform them.

The major function of the curriculum worker was to develop methods to observe the real world and identify the specifics which comprised the activities of various individuals. According to Bobbitt, the curriculum developer was to be first "an analyst of human nature and human affairs," (p.43). This analysis would disclose the "abilities, attitudes, habits, appreciations and forms of knowledge" necessary to perform special tasks which would then become the objectives of the curriculum (p.43). When these needed activities or needs were not accomplished by "undirected experience" then, according to Bobbitt, "directed experience" should be provided through the curriculum.

The curriculum of the directed training is to be discovered in the shortcoming of the individuals after they have had all that can be given by undirected training.

(Bobbitt, p.43)

Bobbitt's technique of the analysis of man's activities into particulars and specialized units of behavior was known later as activity analysis. This thinking was the forerunner of the needs analysis, goals analysis and behavioral objective movement of current times.

During this time of scientific movement in education, W.W. Charters espoused that the curriculum should consist of those particulars which would remedy the mistakes that developed through the unstructured experiencing of reality. The job of the curriculum worker was of "finding out what people have to do and showing them how to do it," (Charters, p.327). According to Charters, curriculum development was a method of identifying valuable ideals. These valuable ideals were the essential organizers of the curriculum. However, since ideals were fluid and could not be scientifically evaluated, a system was necessary to determine which ideals were the most important for the society.

Charters suggested three methods of determining valuable ideals. The first was a listing of activities that people did and then deciding which ideals were the most effective in performing identified duties. The second method was by faculty agreement of the ideals and the faculty then deciding on which activities would assist one in accomplishing the identified ideals. The third method was individual character analysis where a listing of ideals would be given to teachers. Each teacher would think of one student and decide which of the ideals needed to be emphasized with the student.

Charters was also instrumental in contributing the process of functional analysis, which was a process of identifying logical relations between a function and the parts of a structure developed to accomplish the function. In contrast, structural analysis referred to differentiating the structure into parts without a specific indication of their functions.

Functional analysis could only take place after arranging the structure into parts and identifying the relationships of each part for the achievement of the function. The function then became the criterion by which a decision was made concerning the value of any part. In educational terms, this means the curriculum worker first had to determine overall objectives. Thereafter, items of the curriculum had to be chosen and finally each item had to be performed constantly. The functions then became the control elements for deciding what could be included or excluded from the curriculum.

The scientific movement of the 1920's emphasized efficiency in the schools and according to Raymond Callahan was the period in which the "transition of the superintendent from an educator to a business manager took place," (Callahan, p.148).

The scientism of curriculum purported by Bobbitt and Charters gained greater prominence with Ralph Tyler. Tyler outlined a process in which curriculum workers would determine curricular sources, choose basic objectives, produce educational experiences and evaluate learning outcomes.

This process was centered around four basic questions:

- What educational purposes should the school seek to attain?
- What educational experiences can be provided?
- 3. How can these educational experiences be effectively organized?
- 4. How can we determine whether these purposes are being attained?

(Tyler, 1950)

Tyler also identifed three curriculum sources: Studies of society, studies of learners and the subject matter of the world.

Several curriculum theorists have tried to enhance the Tyler Model. Hilda Taba's curriculum sequence was similiar to that promoted by Tyler and also reflected the scientific thinking of Bobbitt and Charters. According to Taba:

If curriculum development is to be a rational and scientific rather than a rule of thumb procedure, the decisions about these elements need to be made on the basis of some valid criteria. These criteria may come from various sources -- from tradition, from social pressures or from established habits. the differences between a curriculum decision-making which follows a scientific method and develops a rational decision design and one which does not is that in the former the criteria for decision are derived from a study of the factors constituting a reasonable basis for the curriculum. In our society, at least, these factors are the learner, the learning process, cultural

demands and the content of the discipline (Taba, p.2).

Taba emphasized the importance of sequence in which curriculum decisions were made and the standard utilized in arriving at conclusions. In her framework, the sequence of the decision-making contained seven stages:

- 1. Diagnosis of Needs
- 2. Formulation of Objectives
- 3. Selection of Content
- 4. Organization of Content
- 5. Selection of Learning Experiences
- 6. Organization of Learning Experiences
- 7. Determination of What to Evaluate and Ways and Means of Doing It

Taba also emphasized the interrelations of curriculum on learning and instructional theory.

Scientific curriculum development needs to draw upon analyses of society and culture, studies of the learner and the learning process and analyses of the nature of knowledge in order to determine the purposes of the school and the nature of curriculum.

(Taba, p.3)

The interrelations Taba suggested are illustrated on Table 2:1 which is based on curriculum as being "the concern for the decisions about what is to be taught, to whom and for what purpose" (Ward, 1980). Instructional theory is defined as "an integrated set of principles which prescribe guidelines for arranging conditions to achieve educational objectives" (Snelbecker, p.116). Human learning can be

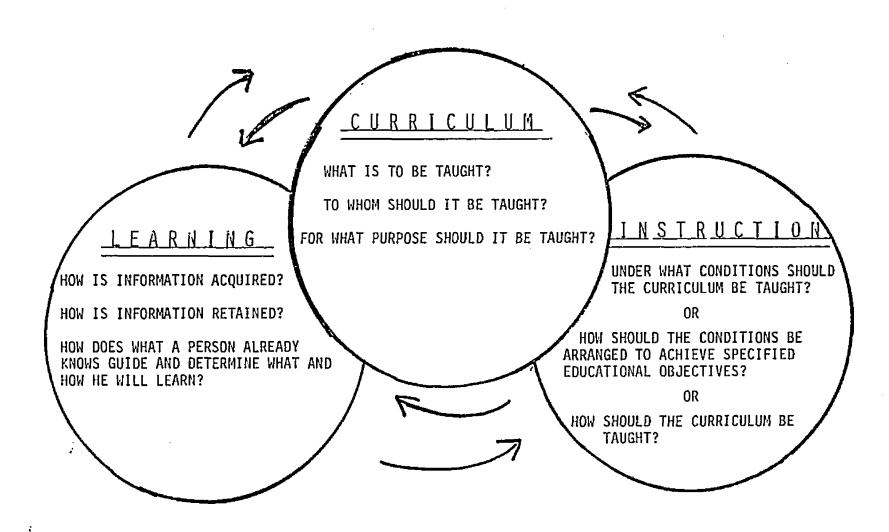
defined as "How people acquire information, how information is retained and how what a person already knows guides and determines what and how he will learn," (Kintch, p.vii).

Despite the great diversity in curriculum thought, many modern curriculum textbook writers such as Michaelis (1967), Tankard (1974), Unruh (1975) and Berman (1977) have continued to utilize the Taba Curriculum sequence in their teaching.

Based upon the brief background data on curriculum, what role does today's principal play in curriculum? Is the principal the curriculum leader in the school? Do curriculum responsibilities consume most of that person's time?

The next segment of this chapter will focus on research conducted during the past ten years on curricular responsibilities of school principals and the amount of time the principal spends on curricular responsibilities.

TABLE 2:1 INTERRELATIONSHIPS OF CURRICULUM, INSTRUCTION AND LEARNING



Related Studies

Several studies have indicated that principals have little time to participate in curriculum responsibilities. One such study was conducted on middle and junior high school principals in school districts which comprised the Arkansas-Oklahoma Consortium for Emerging Adolescence. Within the consortium were school districts of various sizes and types. The purpose of the study was to determine how principals spent their time. The study was conducted in three phases. The first phase was a feasibility study and its purpose was to test items on the instrument and the practicality of the instrument's application. The study population consisted of fourteen middle and junior high school principals. The participants were to indicate how they spent their time during fifteen minute segments from 8 a.m. to 5 p.m. on a designated date. The thirty-five activities on the instrument which the participants were to utilize comprised five categories: Office Responsibilities, Faculty/Community Relations, Curriculum, Students and Professional Development. Results of the feasibility study revealed that with a cummulative of eighty-one hours for all participants, only two cummulative hours were devoted to curriculum.

The most time was spent on office responsibilities which accounted for twenty-seven cummulative hours. How-ever, personal interviews with superintendents from districts where the principals were employed indicated that

superintendents perceived that principals spent much more time on curriculum leadership. Furthermore, the superintendents indicated that principals were instructional leaders above all else.

The second phase of the study included sixty-one middle and junior high school principals in Arkansas and Oklahoma from various sizes and types of school districts. The principals completing the survey instrument indicated the amount of time spent on various activities during five designated days within a month period. As in the feasibility study, there were thirty-five activities divided into five categories of responsibilities. When the data were analyzed, the principals spent the most time (32%) on office responsibilities and only 14% of their time on curriculum responsibilities. The curriculum category was divided into subcategories which included: scheduling students, coordinating, course placement, supervision and observation.

The third phase included a national sampling of principals from all categories: elementary, middle/junior high and high school. The sampling included 163 principals from all sizes and types of school districts. The study was a cooperative project with the University of Tulsa, the Association for Supervision and Curriculum Development and the national elementary and secondary principal's associations. The survey instrument requested participants to indicate the amount of time spent on designated activities during thirty minute segments from 8 a.m. to 5 p.m. during a two day period. The principals were to select from

twenty-eight activities in seven categories. The categories were: Instructional Leadership, Office Responsibilities, Community Relations, Student Relations, Extracurricular Supervision, Personal/Professional Development and Faculty Relations. The study's results indicated that all principals spent the majority of their time on office responsibilities which included correspondence and other forms of paperwork. Middle/junior high school principals spent 45% of their time on office responsibilities while elementary principals spent 40% and high school principals spent 30%. Instructional leadership was the second largest amount of time spent with 30% for elementary principals, 25% for high school principals. The instructional leadership category was divided into seven subcategories which included: (1) Classroom Supervision, (2) Teacher Evaluation, (3) Staff Development, (4) Scheduling, (5) Selecting Materials, (6) Planning and (7) Testing/Evaluation. those categories most of the time was spent on classroom supervision and teacher evaluation. Virtually no time was spent on the other subcategories. (Howell, 1981).

The Howell study had bearing on the present study because the seven categories of responsibilities used in Phase III of that study were also used for the present study. The study also reiterated the lack of research attention devoted to the principal's curricular responsibilities.

In each of the three phases of the Howell study, the peripheral attention given to curriculum focused on the management aspects. Curriculum planning and development

activities were void in the study.

Edward Grant (1978) studied eight key areas of responsibility for school principals from large schools enrolling 1200 to 2500 students in south Texas. The study population included eighteen senior high school principals, their teaching staffs and superintendents. The study instrument consisted of a set of thirty-two instructional leader competencies developed by McIntyre (1974). The competencies were grouped into eight key responsibility areas: (1) Goal Setting, (2) Staffing, (3) Allocating Time/Space, (4) Providing Materials/Equipment/Facilities, (5) Coordinating Noninstructional Services, (6) Developing School-Community Relations, (7) Developing Inservice Training, and (8) Evaluating Processes and Products of Instruction.

Each person in the three groups of subjects made priority ratings of the eight key responsibility areas for principals on a seven-point scale. The design yielded data for three criterion variables (rating of priorities, ratings of performance and discrepancies between the two sets of ratings) and two independent variables (role of the respondents and student enrollment in the principal's school).

The findings of the Grant study indicated there were no significant differences in the priority, performance ratings or discrepancy scores with regard to school size. There were, however, significant differences in the priority and performance ratings between principals, teachers and superintendents. The findings also indicated

one curricular responsibility, Evaluation, was ranked low by each of the three groups of subjects.

The Grant study had influence on the present study since its results suggested that one curricular responsibility (Program Evaluation) was not one that was perceived as being important for high school principals to perform nor was it one that was perceived as being performed well. The Grant study was also influential on the present study since it also looked at size of school and role of the respondent as independent variables. The difference between the two studies is that the present study looked at the independent variable of the size of the school district while the Grant study looked at the size of the school where the principal was employed. Another difference in the independent variables is that the present study considered levels of administration as an independent variable while the Grant study included teachers along with principals and superintendents.

The Grant study also reemphasized the lack of research attention devoted to curriculum responsibilities. Those responsibilities even remotely referring to curriculum involved the management aspects and not curriculum development and planning.

Franklin, Nicken and Alleby (1979) conducted a study in a north central location of Florida to determine activities in which principals were most actively engaged. An instrument was constructed listing activities which were under five designated areas of responsibility: Instructional

Responsibilities, Management Responsibilities, Leadership Responsibilities, Conferences and Meetings. The areas of instructional responsibilities included the following activities:

Curriculum Planning
Curriculum Implementation
Curriculum Evaluation
Classroom Observations
Scheduling Pupils into Programs
Program Coordination/Orientation
Developing Schedules

The instrument was completed by 100 elementary, middle, junior and senior high school principals. Respondents gave each activity a choice of one rating: Low, Medium or High. The findings revealed that all respondents gave the area of Instructional Responsibility a medium or high priority.

The Franklin, Nicken and Alleby study influenced the present study since it is one of the latest to investigate responsibilities of school principals and one of the few to include principals from all levels of assignment. The study also includes aspects of curriculum planning and development under the area of Instructional Responsibilities. The study also points to a need for further investigation into the curricular responsibilities of school principals.

A Michigan study was conducted during the 1971-72 school year with elementary principals (Jennings, 1972). The study was conducted with the endorsement of the Michigan

Association of Elementary School Principals. The study's purpose was to gather "statistical data relative to the prevailing state, thought and practices of Michigan school principals that could serve as information for various education groups," (Jennings, p.6).

Five dimensions of the elementary principal were examined in the study which included:

- 1. Personal Characteristics
- 2. District and School Characteristics
- 3. Experience, Training and Aspirations
- 4. Working Conditions and Welfare
- 5. Administrative/Supervisory Activities/Viewpoints

The data were obtained from a survey instrument completed by over one thousand principals who were members of the MAESP during the 1971-72 school year.

The segment of the Jennings study which has applicability to the present study is "Administrative/Supervisory Activities/Viewpoints." In that section principals were requested to give their opinions on (a) what they believed to be their most rewarding task, (b) the area where they spent the greatest amount of time and (c) the area in which they would most like to spend more time. The areas for selection included:

Organization and Management
Periodic Classroom Teaching
Working with Teaching Staff
Pupil Adjustment and Guidance
Program Development and Curriculum

Public Relations

Several of the topics have curricular responsibility implications. The topic "Program Development and Curriculum," however, has the greatest applicability to the present study. In the Jennings study only 17.94% of the principals reported that particular area to be their most rewarding and only 6.15% reported that was where most of their time was spent. However, 40.12% indicated a desire to spend more time in program development and curriculum.

The Jennings study has applicability to the present study because it is one of the few to be conducted in Michigan during the past ten years. The study also demonstrates the comparatively small amount of time Michigan principals spent on direct curriculum development.

A study was conducted by the National Association of Secondary Principals (NASSP) in 1977 on sixty "effective" high school principals (Gordon, 1978). The principals were selected through a nomination process from state departments of education, professors from schools of educational administration and state associations of secondary principals. From over three hundred nominations the subjects were finally limited to sixty. The criteria for an effective principal were:

- -- The school appeared to be focused in a direction and moving to achieve its purpose.
- -- The school leadership anticipated emerging problems and acted in an informed way to resolve them.

- -- The school included community persons in the development of goals and objectives.
- -- The school involved youth with learning in an adult community.
- -- The school climate was supportive and reflected high morale.

The principals were studied through an interview which included several dimensions of the principalship. These dimensions were:

School Information

Personal Information

The Job

Task Areas

Problem Solving and Problem Attack

Change

Professional Contributions

Future

The data collection included interviews with the principals as well as "significant others" which included one each from the following categories: (a) student, (b) teacher, (c) parent and (d) central office representative.

In the task area of "curriculum/programs" the principals and "significant others" agreed that the departments, the faculty as a whole and the central office were the three main groups in the curriculum development process.

Each of the "significant others" group was asked to describe the processes the principals used for planning major events, projects or programs. The parents and students

groups expressed uncertainty, but the teacher and central office groups agreed on the following planning process in descending order: (1) organizing, (2) planning for resources, (3) establishing needs, (4) recognizing the occasion for planning, (5) defining goals and objectives, (6) securing allegiances. (7) providing for needed training and (8) providing for evaluation.

In the task areas, principals ranked in order from one to nine (one being where the most time was spent) the amount of time spent on various activities during a designated two week period and the time they had planned to spend. Principals rated program development as number one where they had planned to spend the most of their time. However, they rated the area as number two where they had actually spent the most time and as number three where they would like to spend their time.

The study illustrated "effective" principals rated

Program Development as one of their top choices in three aspects:

where they had planned to spend their time, where they

actually spent their time and where they would like to spend

their time.

Summary of Chapter

In this chapter a brief theoretical background of curriculum was provided, focusing upon the scientism influences which climaxed with Ralph Tyler. The Tyler influence was evident with Hilda Taba's works whose curriculum development sequence was used as a basis for developing the study's survey instrument.

A review of recent descriptive research conducted on the responsibilities of school principals was also included in this chapter. Such literature revealed the lack of research studies devoted to curriculum responsibilities of school principals. Two of those studies, which included curriculum along with other responsibilities, emphasized the management aspects of curriculum and not curriculum planning and development. This segment of the chapter also reviewed how the studies had influence on the present study. Such influences included:

- (1) A listing of seven responsibilities from Phase III of the Howell study which was used in the second section of the present study's survey instrument.
- (2) The utilization of the independent variables of size of school district and administrative position as in the Grant study.
- (3) The reiteration of the need for studies to be conducted on the principal's curricular responsibilities.

CHAPTER III

METHOD AND PROCEDURES

This study was descriptive in nature utilizing the technique of the survey as the data gathering source. Good and Scates, in discussing this type of research, state:

Much of the significance and importance of the descriptive study lies in the possibility of investigating the status of conditions at any given time and of repeating the survey at a later date, thus providing descriptions of crosssections at different times, in order that comparisons may be made, the direction of change noted and evaluated and future growth or development predicted. Such quidance is of relatively great importance in our complex and rapidly changing modern society.

(Good and Scates, p.550)

Whitney, in commenting on this type of descriptive research, said:

To characterize it briefly, it may be said that descriptive research is fact finding with adequate interpretation.

(Whitney, p.180)

Restatement of the Purpose

The purpose of the study was to investigate selected curricular responsibilities and related professional development needs of school principals in a nine county geographical location of Michigan. Two independent variables (size of school district and level of administration) were investigated as to their effects on four dependent

variables (percentage of time principals spend on curricular responsibilities in comparison to other responsibilities, degree of importance of selected curricular responsibilities, degree of engagement in selected curricular responsibilities and degree of professional development needs for selected curricular responsibilities).

A series of sixteen questions were investigated. These sixteen questions were divided into four groups representing the four dependent variables and are as follows:

Perceived Percentage of Time Spent on Curricular Responsibilities

- 1. What percentage of a principal's time is spent on curricular responsibilities in comparison to other responsibilities as perceived by school principals and superintendents?
- 2. Is there a significant difference between the percentage of time spent on curricular responsibilities, as perceived by school principals, and the grade level of principalship?
- 3. Is there a significant difference between the principal's and superintendent's perceptions of the percentage of the principal's time spent on curricular responsibilities in comparison to other responsibilities?
- 4. Is there a significant difference between the percentage of time the principal spent on curricular responsibilities, as perceived by principals

and superintendents, and the size of the school district where the principal is employed?

Perceived Importance of Curricular Responsibilities

- 5. Which of the selected curricular responsibilities are the most important to principals as perceived by principals and superintendents?
- 6. Is there a significant difference between the importance of the selected curricular responsibilities, as perceived by school principals, and the grade level of principalship?
- 7. Is there a significant difference between the principal's perceptions and the superintendent's perceptions of the importance of the selected curricular responsibilities for principals?
- 8. Is there a significant difference between the importance of the selected curricular responsibilities for principals, as perceived by principals and superintendents, and the size of the school district where the principal is employed?

Perceived Engagement in Selected Curricular Responsibilities

- 9. In which of the selected curricular responsibilities do principals most engage as perceived by school principals and superintendents?
- 10. Is there a significant difference between the selected curricular responsibilities in which principals most engage, as perceived by principals, and the grade level of principalship?

- II. Is there a significant difference between the principal's perceptions and the superintendent's perceptions as to the selected curricular responsibilities in which principals most engage?
- 12. Is there a significant difference between the selected curricular responsibilities in which principals most engage, as perceived by principals and superintendents, and the size of the school district where the principal is employed?

<u>Perceived Professional Development Needs for Curricular</u> Responsibilities

- 13. In which of the selected curricular responsibilities do principals have the greatest professional development need as perceived by principals and superintendents?
- 14. Is there a significant difference between the principal's professional development needs, as perceived by school principals, and the grade level of principalship?
- 15. Is there a significant difference between the principal's perceptions and the superintendent's perceptions of the principal's professional development needs?
- 16. Is there a significant difference between the principal's professional development needs, as perceived by principals and superintendents, and the size of the school district where the principal is

employed?

Population

The study focused on principals in sixty-five school districts in a nine county area of Michigan. This area begins in mid central Michigan and extends into mid southeastern Michigan. These sixty-five school districts were not randomly selected from the total Michigan school districts. However, these districts were purposely selected because they constitute a designated location for a federal grant which is allocated by the Michigan Department of Education. The investigator had access to all of the principals and superintendents in this designated location since she is the coordinator of the federal grant.

The sixty-five school districts range from small to large student populations. This area also ranges from urban to suburban to rural communities. The area comprises twelve percent of the school districts in Michigan. Nevertheless, since this study is focused on public school principals in a designated area of Michigan, the transfer of generalizations to other geographical regions should be made only by the reader who is willing to take upon himself the responsibility for the validity of such extended generalizations.

The study excluded assistant principals. The study also excluded persons employed as assistant superintendents, deputy superintendents or any other category of superintendency that is not the designated chief executive of the school district. Non-public school principals and superintendents were also excluded from the study.

TABLE 3:1 SCHOOL DISTRICTS ACCORDING TO SIZE

Small School	District	54
Medium Sized	School Districts	7
Large School	Districts	4
	·	
	TOTAL	65

Sample

The sample included the following subjects from each of the sixty-five school districts. These subjects were randomly selected, when applicable, from the Michigan Education Directory (1981). The subjects included the following:

- One each of the following from each of the small and medium school districts: elementary, middle or junior high and high school principal (in those districts where only one category of each was available, random selection could not be achieved. Thus, those who were available were used.)
- 2. Two each of the following from the large school districts: elementary, middle or junior high school and high school principal.
- 3. One superintendent from each of the sixty-five school districts (not randomly selected since there is only one from each district).

TABLE 3:2 SAMPLE BREAKDOWN ACCORDING TO LEVELS OF ADMINSTRATION AND SIZE OF SCHOOL DISTRICTS

	Ele- men- tary	Middle or Jun- ior High	High School	Super- inten- tent	Total
Small School District	54	42	54	54	204
Medium School District	7	7	7	7	28
Large School District	8	8	8	4	28
Totals	69	57	69	65	260

Instrument

A written survey instrument was used as the data gathering source for the study and was constructed by the investigator. The instrument design had three sections. The first section of the instrument requested participants to provide demographic data relating to administrative position and size of the school district where employed.

The next section was designed to obtain the principal's estimated percentage of time spent on curriculum/instructional leadership responsibilities in comparison to other responsibilities. Seven responsibilities were listed with adjoining spaces so the subject might write the appropriate percentage of time spent on each. In addition, an "other" category was listed with an accompanying space to write any

additional responsibility which occupied the administrator's time. The list of responsibilities included

Curriculum/Instructional Leadership
Office Responsibilities
Community Relations
Student Relations
Extracurricular Supervision
Personal/Professional Development
Faculty Relations

Others

The list of responsibilities was derived from a national study conducted in 1980 as a cooperative Project with the University of Tulsa and the Association for Supervision and Curriculum Development and the national elementary and secondary principals' associations (op. cit. Howell).

Principals were requested to indicate the perceived amount of time each personally spent on the designated responsibilities. The superintendent was requested to indicate the perceived percentage of time spent by principals in his/her school district in general.

The third section of the instrument was designed to obtain three responses concerning curriculum responsibilities. The Taba Curriculum Model was used as a guide for determining a listing of responsibilities. The model emphasizes a sequence for curriculum decision making. These steps are:

- 1. Diagnosis of needs
- Formulation of Objectives

- 3. Selection of Content
- 4. Organization of Content
- 5. Selection of Learning Experiences
- 6. Organization of Learning Experiences
- 7. Determination of What to Evaluate and Ways and Means of Doing It

When necessary, the Taba sequence was broken into smaller activities. The activities were then written into a twentyone item list utilizing a Likert-type scale. The instrument design allowed each subject to give three responses for each activity. The first response requested the subject's perceptions as to the degree of importance of the activity. Possible responses were: 1 = low importance, 2 = medium importance and <math>3 = high importance. The second response requested the subject's perceptions of actual engagement in the responsibility. Possible responses on a Likert-type scale were: 1 = low engagement, 2 = medium engagement and 3 = high engagement. The third and final response requested the subject's perceptions as to the degree of professional development need for the stated responsibility. The possible responses were: 1 = low need, 2 = medium need and 3 = high need.

Principals were requested to respond to this section as to their perceptions as it personally applied to them. Superintendents were requested to respond as to their perceptions as each applied to principals in general in their school districts.

Field Testing of the Instrument

The instrument was field tested by fifteen administrators consisting of three each from the following levels of administration: elementary principal, middle school principal, junior high school principal, high school principal and superintendent. These administrators were from school districts other than those which were used for the study. The purpose of the field testing was to receive information on the understandability of the instrument and the amount of time needed for completion. Space was provided for respondents to make comments and suggestions. Respondents were also requested to indicate the approximate amount of time needed to complete the survey. The average time reported for completion was thirteen minutes. qestions from the testing and from the investigator's study committee were incorporated into the final instrument design.

Instrument Distribution and Collection

The survey instrument was sent to the designated population by mail. A self addressed stamped envelope and a letter accompanied each instrument. The purpose of the letter was to explain the intent of the survey instrument as well as to encourage prompt completion and return. A telephone call was made to all partcipants between two days before mailing the instrument and five days after the mailing. The calls were to remind the subjects about the instrument and to encourage prompt return.

Table 3:3 indicates the number of returned survey instruments according to sample breakdowns.

TABLE 3:3 RETURNED SURVEY INSTRUMENTS FROM VARIOUS SUBPOPULATIONS .

		ELEMEN	TARY	М	IDLE/JR	HIGH		HIGH		SUP	ERINTEN	DENTS	TO	TALS	
	Sur- veys Sent	sur- veys Retn.	α of Total	Sur- veys Sent	Sur- veys Retn.	హ of Total	Sur- veys Sent	Sur- veys Retn.	% of Total	Sur- veys Sent	Sur- veys Retn.	% of Total	Sur- veys Sent.	Sur- veys Retn.	% of Fotal
SMALL SCHOOL DISTRICTS	54	42	77.0	42	37	88.0	54	45	83	54	48	88	204	172	84.37
MEDIUM SCHOOL DISTRICTS	7	6	85	7	6	85	7	5	71	7	6	85	28	23	82.14
LARGE SCHOOL DISTRICTS	8	7	87	8	7	87	8	6	75	4	4	100	28	24	85.71
TOTALS /	69	55	79.71	57	50	87.77	69	56	81.15	65	58	89.23	260	219	84.23

Limitations of the Study

There are three limitations to the study which include the data collection process. The first limitation is that a survey instrument was utilized for data collection. Certain limitations of the survey are discussed by Good and Scates (p.683), Mildred Parten (p.383) Whitney (p.140) and other authors on research methods. Included in these limitations are:

- It is extremely difficult to state the items in the questionnaire with sufficient clarity so that each respondent has exactly the same understanding of the information requested.
- 2. It is usually impossible for the respondent to express only the information specifically requested by the items without opportunity to give reasons for the responses, additional pertinent data, possible exceptions and other data which might give deeper meaning to data.
- 3. It is usually impossible to obtain returns from every member of a sample contacted through a mailed questionnaire. There is a question, therefore, whether those who responded are typical of the total population.

The second limitation is related to the first in that items included on the survey are based on a particular curriculum model. The four dependent variables, therefore, under investigation indicate "selected" curriculum responsibilities. This study does not suggest that this "selected"

list is inclusive of all curriculum responsibilities or curricular professional development needs a principal may encounter. The selected list, therefore, is a limitation in this study.

The third limitation is that the study focuses on the principals' and superintendents' perceptions as to the four designated dependent variables. The perceptions are a limitation since they are not the actual.

Analysis of Data

Multivariate Analysis of Variance (MANOVA) was used to analyze the results of the data. The purpose of the analysis was to determine the effects of two independent variables, size of school district and category of administration, upon the dependent variables. Analysis included a twelve cell matrix as illustrated below:

	Small School District	Medium School District	Large School District	
Superin- tendents				
Elemen- tary Prin- cipal				
Middle/Jr. High School Principal				
High School Principal				

The Hotelling test was used to compute levels of significance within the MANOVA. The level of significance was considered at .05.

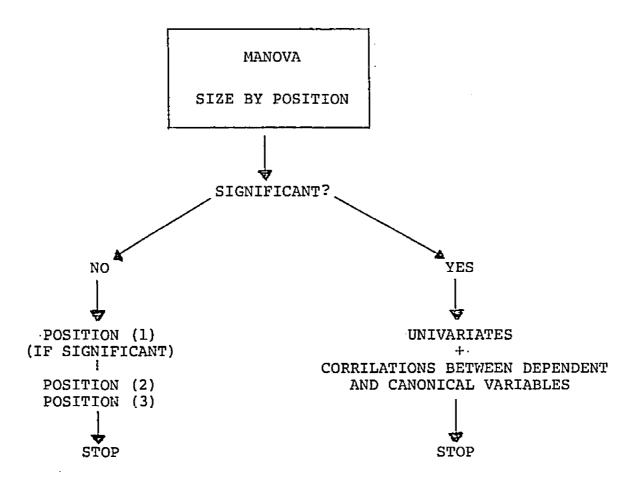
An a priori idea of specific differences between groups as stated in the research questions necessitated the use of Helmert contrasts. For the independent variable of administrative position, elementary principals were contrasted with middle/junior high school principals and high school principals. Middle/junior high principals were contrasted with high school principals. Finally, superintendents were contrasted with principals.

For the independent variable of position, small school districts were contrasted with medium and large school districts. Medium school districts were then contrasted with large school districts.

The MANOVA process examined first the effect of size by position to determine if a significant interaction occurred. If there was no significant interaction, the effect of position at each of the three levels was analyzed for significance. If significant multivariate interaction occurred, univariate analysis and analysis of correlations between dependent and canonical variables were made. The process is illustrated in Figure 1.

Research questions 1,2,3 and 4 focus on the perceived percentage of time the principals spent on curricular responsibilities. The mean and percentage for each of the twelve cells were graphically displayed to answer question 1.

Figure 1: MANOVA Process for Analyzing Data



Data regarding questions 2, 3 and 4 were subjected to the MANOVA process to compute the significance of differences among administrative positions, size of school districts and the interaction of the two.

Research questions 5 through 16 focus on the selected curricular responsibilities as to their perceived importance, perceived engagement and professional development need. For analysis, the twenty-one survey items were grouped into five subcurricular topics which included:

- Preparation through Current and Professional Literature
- 2. Formulation of Philosophy, Goals and Objectives
- Selection and Organization of Content and Student Learning Experiences
- 4. Evaluation
- Conducting and Coordinating Inservice

The survey items for each subtopic are indicated on Table 3:4.

To answer questions 5, 9 and 13 which focus on the quanititive aspects of the three dependent variables, the mean scores were ranked from the greatest to the least for each set of categories, to determine those which are the most value for each of the three dependent variables of importance, perceived engagement and professional development need.

The MANOVA was used to analyze data for research questions 6, 7, 8, 10, 11, 12, 14, 15 and 16 as to the

TABLE 3:4 SUBCURRICULAR TOPICS AND RELATED SURVEY ITEMS

SUB CURRICULAR TOPIC	SURVEY ITEMS	ITEM NUMBERS
PREPARATION THROUGH CURRENT AND PROFES- SIONAL LITERATURE	Keeping abreast of current events in newspapers, books and periodicals	1
	Keeping abreast of current professional literature	2
FORMULATION OF PHILOSOPHY, GOALS AND OBJECTIVES	Formulation of district's and/or school's philosophy of education	3
	Formulation of district's and/or school's educational goals	4
	Formulation of district's and/or school's educational objectives	5
	Selection of content for student learning	6
SELECTION AND	Organization of content for student learning	7
ORGANIZATION	Formulation of student objectives	8
OF CONTENT AND	Assessing student needs	9
STUDENT LEARNING EXPER- IENCES	Selection of student learning experiences	10
	Organization of student learning experiences	11
	Selecting instructional materials for students	17
	Evaluating student performance	12
	Evaluating overall program(s)	13 +
	Assessing teacher needs	14
EVALUATION	Observing teacher performance in the classroom	15
	Observing student performance in the classroom	16
	Evaluating professional staff utilizing a designated process	21
CONDUCTING AND	Teaching observation lessons as modeling techniques for teachers	18
COORDINATING	Conducting inservice programs for teachers	19
INSERVICE	Coordinating inservice programs for teachers	20

effect of size and administrative position upon the three dependent variables.

Treatment of Incomplete Data

A total of 216 survey instruments was returned as indicated on Table 3:3. There were missing data, however, on some of the 216 returned instruments. Missing data were treated as follows:

- of time principals spent on curricular responsibilities. Subjects were requested to write the perceived percentage of time spent on seven listed responsibilities. The total time for designated responsibilities would be 100%. If a subject's responses did not total 100%, that section of the instrument was considered invalid and the subject's responses were not included in the total population's computations. Subjects who did not respond to this section at all, of course, were not included in the total population's computation's computation's computations.
- 2. Variables two, three and four focused on the perceived importance, perceived engagement and perceived professional development need for the selected curricular responsibilities. On this segment of the instrument if the subject did not complete the entire column for each of the three variables, the column which was not completed was considered invalid and was not computed with the

total population.

Table 3:5 indicates the number of valid survey responses for each dependent variable.

VALID SURVEY RESPONSES FOR EACH VARIABLE TABLE 3:5

	Small School District	Medium Sized School District	Large School District	Totals
	VI, N = 47	V1, 1(= 6	V1, N = 4	V1, N = 57
Superintendent	V2, N = 45	V2, N = 6	V2, N = 4	V2, N = 55
	V3, N = 45	V3, N = 6	v3, N = 4	V3, n = 55
	V4, 11 = 44	v4, N = 6	V4, N = 6	V4, 11 = 54
	V1, N = 42	VI, N = 6	V1, N = 7	V1, N = 55
Elementary	V2, N = 37	1 v2, n = 6	V2, N = 5	V2, N = 48
Principal	V3, N = 36	V3, N = 6	V3, 11 = 6	V3, N = 48
	V4, N = 35	V4, 11 = 5	V4, 11 = 6	V4, N = 46
	V1, H = 37	V1, N = 6	V1, N = 7	V1, N = 50
Middle/Junior	V2, 11 = 28	V2, N = 3	V2, N = 7	V2, N = 38
High School	V3, N = 28	V3, N = 3	V3, N = 7	V3, 11 = 38
Principals .	V4, II = 29	V4, 11 = 3	V4, N = 7	v4, N = 39
	V1, N = 43	VI, N = 5	V1, 11 = 6	V1, N = 54
High School	V2, N = 37	Y2, N = 4	v2, n = 3	V2, N = 44
Principals	V3, N = 34	v3, N = 4	V3, N = 2	V3, N = 40
	V4, 11 = 32	V4. N = 4	V4, N = 3	V4, N = 39
v	VI, H =169	V1, N =23	V1, N =34	V1, N =216
Totals	v2, n =147	V2, N =19	V2, N =19	V2, N =185
	v3, n =143	V3, N =19	V3, N =19	v3, N =181
	V4, 11 =140	V4. N =18	V4, N =20	V4, N =178

VI = Variable 1 (Percent of Time Spent on Curricular Responsibilities)
V2 = Variable 2 (Importance of Curricular Responsibilities,)
V3 = Variable 3 (Engagement in Curricular Responsibilities)
V4 = Variable 4 (Professional Development Need for Curricular Responsibilities)

CHAPTER IV

ANALYSIS OF DATA

The analysis of the data obtained from a survey instrument sent to 260 principals and superintendents in a nine county location in Michigan will be reported in this chapter. The study focused on the effects of two independent variables (size of school district and level of administration) on four dependent variables.

The analysis of data will focus on the sixteen research questions posed in the study. The sixteen questions were divided into four groups representing the four dependent variables. The four variables were:

- The perceived percent of time the principal spent on curricular responsibilities in comparison to other responsibilities.
- 2. The degree to which selected curricular responsibilities were perceived as being important for school principals.
- 3. The degree to which principals were perceived as engaging in selected curricular responsibilities.

4. The degree of perceived professional development needs for the selected curricular responsibilities.

This chapter will be divided into four segments to report the findings of the four sets of research questions.

Percentage of Time Spent on Curricular Responsibilities

The four research questions focused on this variable are as follows:

- 1. What percentage of a principal's time is spent on curricular responsibilities in comparison to other responsibilities as perceived by school principals and superintendents?
- 2. Is there a significant difference between the percentage of time spent on curricular responsibilities, as perceived by school principals, and the grade level of principalship?
- 3. Is there a significant difference between the principal's and superintendent's perceptions of the percentage of the principal's time spent on curricular responsibilities in comparison to other responsibilities?
- 4. Is there a significant difference between the percentage of time the principal spent on curricular responsibilities, as perceived by principals and superintendents, and the size of the school district where the principal is employed?

To illustrate the findings for research question 1, means scores and standard deviations were obtained for each

of the twelve cells comprising size of school district and administrative position. Tables 4:1 and 4:2 illustrate these findings. The total population indicated that 15.71% of the principal's time is spent on curricular responsibilities. Responsibilities, however, which consummed more of the principal's time were "Student Relations" (25.10%) and "Office Responsibilities" (21.04%).

TABLE 4:1 PERCENT OF TIME PRINCIPALS SPENT ON CURRICULAR RESPONSIBILITIES
IN COMPARISON TO OTHER RESPONSIBILITIES AS PERCEIVED BY VARIOUS
SUBPOPULATIONS (Top figure = x, bottom figure = s)

	Total Population	Supo Small	rinten Med.		Elem Small	n. Princ	ipals Large	Middle/ Small	J.H. Pri	incipals Large	High Small		Principals Large
CURRICULUM/INSTRUCTIONAL RESPONSIBILITIES	15.17 10.51	13.40 8.34		13.75		17.50 8.22	-	13.70 8.74	9.16 4.91	11.43	15.20 10.85	18.60	21.67 15.71
OFFICE RESPONSIBILITIES	21.04 10.85	18.30 8.40	15.0 5.47	25.0 4.08	23.17 11.75	18.33 6.86	22.86 12.86	21.43	14.17 4.92	28.57 16.51	21.84		16.67 6.83
COMMUNITY RELATIONS	9.83 6.02	9.80 7.93		10.0 4.82	11.26 7.45	13.50 6.47	10.71 8.86	7.24 2.99	10.83 9.70	9.29 4.49	7.90 2.82	9.0 4.18	9.17 2.04
STUDENT RELATIONS	25.10 14.82	28.13 18.33	15.0 5.47		25.90 11.48		13.57 6.26	28.08 14.47	40.0 18.97	14.85 6.98	25.56 13.90		20.0 17.32
EXTRACURRICULAR SUPERVISION	7.80 6.05	8.02 5.45	10.0	12.50 8.66	4.45 5.76		5.29 2.36	8.8J 6.33	9.16 8.61	12.86 4.87		13.40 9.63	11.0 7.09
PERSONAL/PROFESSIONAL DEVELOPMENT	· 5.25 3.52	5.06 3.10	5.0 0	5.75 2.98	4.80 3.38	9.67 4.96	6.43 3.77	5.86 3.58	5.83 2.04	3.29 1.79	5.46 4.11	4.0 2.23	-1.67 1.96
FACULTY RELATIONS	14.57 8.78	16.09 11.27		13.75 4.78	15.14 6.67	18.33 11.25	13.57 9.44	13.10 7.43	10.83 2.04	19.14 10.18	14.67 8.27		11.76 8.10
OTHER	1.74 4.92	1.19	1.67 2.58		1.24 2.54	1.67 4.08	2.86 4.87	2.70 8.70	0	.57	1.53 4.56	0	8.67 8.98

TABLE 4:2 PERCEIVED PERCENT OF TIME PRINCIPALS SPENT ON CURRICULAR RESPONSIBILITIES
AS PERCEIVED BY VARIOUS SUBPOPULATIONS

	Small School District	Medium Sized School District	Large School District	Totals
	χ s			X s
Superintendent	13.40 8.34	35.50 16.43	13.75 4.78	15.75
	N=47	N=6	N=4	N=57
Elementary Principal	13.90 8.63	17.50 8.22	24.71 17.62	15.66
	N=42	N=6	N=7	N=55
Middle/Jr. High School	13.70 8.74	9.16 4.91	11.43 6.27	12.83
Principal	N=37	N=6	N=7	N-50
High School Principal	15.20 10.85	18.60 12.83	21.67 15.71	16.23
	N=43	N=5	N=6	N=54
	14.04	20.25	18.25	15.17
	N=169	N=23	N=24	N=216

Research questions 2, 3, and 4 focus on the effects of size of school district and level of administration on the percent of time the principal spent on curricular responsibilities. To analyze the data for these questions the multivariate analysis of variance was used. The MANOVA indicates a significant interaction between the independent variables of size and position at .0004 level of significance as indicated in Table 4:3.

TABLE 4:3 MANOVA FOR INTERACTION BETWEEN INDEPENDENT VARIABLES OF SIZE AND POSITION FOR PERCEIVED PERCENT OF TIME
PRINCIPALS SPENT ON CURRICULAR RESPONSIBILITIES

SOURCE OF VARIATION	SUIL OF SQUARES	ÇF	MEAN SQUARE	F	SIGNIFICANCE CF F
Within Cells	1918.5437	201	97.14		
Small School Dists. vs. Hed. & Large	34.3302	ī	34.33	.35337	.55287
Medium School Dists. vs. Large	970.0403	1	970.04	9.98500	.03182
Supts. vs. Principals	344.6807	1	344.68	3.5479	.26104
Elem. Prins. vs. Mid/Jr. & H.S. Prins.	42.8765	1	42.87	,44134	.53722
Mid/Jr. Prins. vs. H.S. Prins.	45.5209	1	45.52	.46857	.49142
Size By Position	2520.0074	6	420.00	4.32324	83848

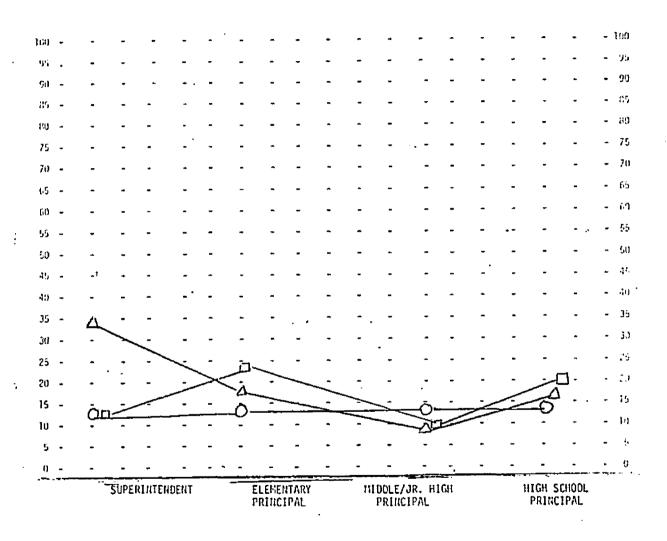
Due to the significant interaction, it was not determined which variable caused the main effect. However, charting of the variables helped to determine where the interaction may have occured. Tables 4:4 and 4:5 illustrate that the cause of interaction may have occured with superintendents from middle-sized school districts. It cannot be determined, however, if size or position caused the main effect.

<u>Summary of Percentage of Time Spent on Curricular Responsibilities</u>

A summary of this variable has the following conclusions:

- The total sample indicated that 15.71% of a principal's time is spent on curricular responsibilities. This responsibility ranks third among seven others. "Student Relations" and "Office Responsibilities" were perceived as consumming more of the principal's time.
- There was a significant interaction between the independent variables of size and position at .0004.
- 3. Due to the significant interaction between size and position, it was not determined if there was a significant difference between the percentage of time spent on curricular responsibilities and the level of principalship.
- 4. Due to the significant interaction between size and position, it was not determined if there was a significant difference between the principal's and

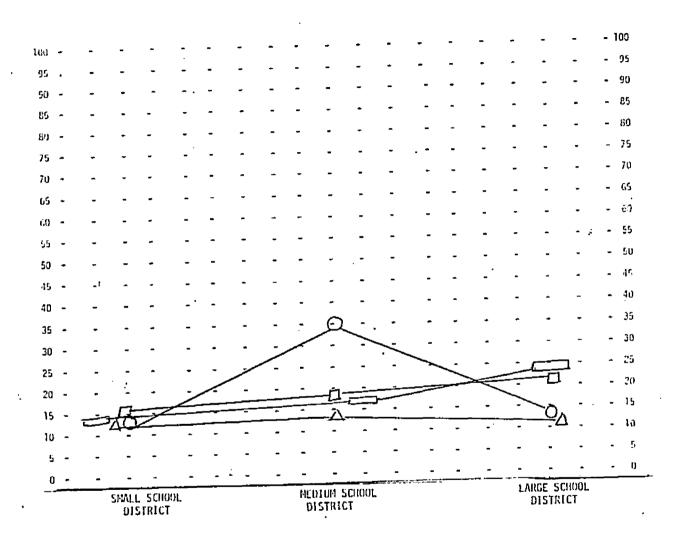
TABLE 4:4 PERCEIVED PERCENTAGE OF TIME SPENT ON CURRICULAR RESPONSIBILITIES ACCORDING TO SIZE OF SCHOOL DISTRICT



O = Small School District

🗍 = Large School District

TABLE 4:5 PERCEIVED PERCENTAGE OF TIME SPENT ON CURRICULAR RESPONSIBILITIES ACCORDING TO LEVEL OF ADMINISTRATION



O = Superintendent

 \square = High School Principal

 \triangle = Middle/Jr. High School Principal

= Elementary Principal

superintendent's perceptions on the percentage of time the principal spent on curricular responsibilities.

5. Due to the significant interaction between size and position, it was not determined if there was a significant difference between the percentage of time spent on curricular responsibilities and the size of the school district where the principal is employed.

The remainder of this chapter will focus on the following three variables: (a) Perceived Importance of Selected Curricular Responsibilities, (b) Perceived Engagement in Selected Curricular Responsibilities and (c) Perceived Professional Development Need for Selected Curricular Responsibilities.

For analysis of these variables the twenty-one survey items were grouped into five subcurricular topics which included:

- Preparation through Current and Professional Literature
- 2. Formulation of Philosophy, Goals and Objectives
- Selection and Organization of Content and Student Learning Experiences
- 4. Evaluation
- 5. Conducting and Coordinating Inservice

The survey items for each subcurricular topic are indicated on Table 3:4, page 47. These subcurricular topics will be used for reporting findings for the next three variables.

Importance of Selected Curricular Responsibilities

The four research questions which focused on this variable were follows:

- 5. Which of the selected curricular responsibilities are the most important to principals as perceived by principals and superintendents?
- 6. Is there a significant difference between the importance of the selected curricular responsibilities, as perceived by school principals, and the grade level of principalship?
- 7. Is there a significant difference between the principal's perceptions and the superintendent's perceptions of the importance of the selected curricular responsibilities for principals?
- 8. Is there a significant difference between the importance of the selected curricular responsibilities for principals, as perceived by principals and superintendents, and the size of the school district where the principal is employed?

To illustrate the findings for research question 5, the mean score for each of the five subcurricular categories was determined. These mean scores reflected the responses obtained from the total sample on a three point Likert-type scale. The mean scores were ranked from high to low to determine which categories were perceived as being the most important. Table 4:6 illustrates this ranking.

TABLE 4:6 RANKING OF RESPONSIBILITIES IN CURRICULAR CATEGORIES FOR PRINCI-PALS IN ORDER OF IMPORTANCE BY MEAN SCORES AS PERCEIVED BY PRINCIPALS AND SUPERINTENDENTS

Survey Topic	Mean Score (On a three Point Scale)
Formulation of Philosophy, Goals and Objectives	2.68
Evaluation	2.56
Preparation through Current and Professional Literature	2.43
Selection and Organization of Content and Student Learning Experiences	2.30
Coordinating and Conducting Inservice	2.09

The responsibilities in the subcategory, "Formulation of Philosophy, Goals and Objectives," was perceived as being the most important and was followed in order by the subcategory of "Evaluation." The responsibilities in the subcategories of "Preparation Through Current and Professional Literature" and "Selection and Organization of Content and Student Learning Experiences" were third and fourth respectively in rank order. The responsibilities in the subcategory of "Conducting and Coordinating Inservice" were perceived as being the least important.

Research questions 6, 7 and 8 focus on the effects of size of school district and level of administration on the importance of the selected curricular responsibilities.

The Hotelling test indicates a significant interaction at the .03745 level between size and position.

TABLE 4:7 INTERACTION BETWEEN INDEPENDENT
VARIABLES OF SIZE AND POSITION FOR
PERCEIVED IMPORTANCE OF SELECTED
CURRICULAR RESPONSIBILITIES

TEST NAME	VALUE	APPROX. F	HYPOTHESIS D.F.	ERROR D.F.	SIGNIFICANCE OF F.
Hotellings	.27242	1.48275	30.000	865,000	* .03745
		*Indicates	significant	interaction.	

Due to the significant interaction between size and position, the univariates were analyzed as were correlations between dependent and canonical variables.

In analysis of the univariate under position 1 (junior high school principals contrasted with high school principals), there is a significant difference in the subcurricular category of "Conducting and Coordinating Inservice Programs" as indicated on Table 4:8.

TABLE 4:8 LEVELS OF SIGNIFICANE FOR MIDDLE/JUNIOR
HIGH PRINCIPALS CONTRASTED WITH HIGH
SCHOOL PRINCIPALS ON THE IMPORTANCE OF
RESPONSIBILITIES IN SUBCURRICULAR CATEGORIES

VARIATE	HYPOTHESIS SUM OF SQUARE	ERROR SUM OF SQ.	HYPOTHESIS MEAN SQ.	ERROR MEAN SQ.	F	SIGNIFICANCE OF F
LITERATURE	,10628	164.69213	.10628	.95198	.11164	.73869
OBJECTIVES	1.38414	236.71105	1.38414	1.36827	1.01160	.31592
STUDENTS	4.71904	1754.65290	4.71904	10.14250	.46527	.49508
EVALUATION .	9.62074	611.84625	9.62074	3.53668	2.72027	.10090
INSERVICE	12.31538	363.91034	12.31538	2.10353	5.85463	*.01657
		* Indi	cates signif	icant differen	ıcė".	٠.

High school principals perceive the curricular responsibilities in this category to be more important than junior high school principals as indicated by the mean scores on Table 4:9.

In position 2 (elementary principals contrasted with middle/junior high school principals) there is a significant difference in two subcurricular categories which are "Selection and Organization of Content and Student Learning Experiences" and "Conducting and Coordinating Inservice."

TABLE 4:9 MEANS AND STANDARD DEVIATIONS FOR PER-CEIVED IMPORTANCE OF CURRICULAR RESPON-SIBILITIES ACCORDING TO SUBCURRICULAR CATEGORIES AS REPORTED BY SUBPOPULATIONS

<u></u>		 		<u> </u>	
		DISTRICT	MEDICAL SIZED SCHOOL DISTRICT	LARGE SCHOOL DISTRICT	TOTALS X
	-	X 3	5	ž S	"
	LUTERATURE	4.82 1.05	4,50 ,54	5.50 1.0	4.81
	COALS AND CONTECTIVES	8.03 1.29	8.83 .40	9.0	8.22
NOCHT	STUCENT LEARNING EXPERIENCES	16.46 3.25	15.50 2.81	14.25 2.66	16.18
SIPERINTENCENT	EVALUATION	15.51	16.66 1.50	15.75 2.05	15.65
] BS	ENSERVICE	6.44 1.67	8.0 0	7.25 1.70	6.65
		N•45	n:5	N+3	N+55
	LITERATURE	4.75 .83	4,33	5.20 1.0	4.74
	GOALS AND CHIECTIVES	8.10 1.24	7.16 1.16	9.0 0	8.07
THCT PAR	STUDENT LEARNING EXPERTENCES	16.48 3.21	15.66 2.65	19,49 2,19	16.63
ART PR	EVALUATION	15,24 1,81	15.50 2.07	17.20 1.07	15.47
FLEPENTARY PRINCIPAL	INSERVICE	6.43 1.40	7.16 .40	7.0 1.85	5.61
		'H+37	N•5	14+5	N-18
38	LITERATURE	5,14 .89	5.66 .57	5.28 .95	5.20
요속	GOALS AND OBJECTIVES	8.35 .91	6.66 1.52	7.29 .95	8.01
TOR HE	STUDENT LEARNING EXPERIENCES	15.25 2.87	17.83 .51	14,71 4,15	15.35
MICLE/JUNIOR HIGH SCHOOL PRINCIPAL	EVALUATION	15.50 1.03	14.65 2.30	14.0 2.91	15.15
i i	INSERVICE	5.85 1.67 N•23	6.66 1.54 N•3	5,14 1,57 M•7	5.78 N=39
	LLITERATUPE	4.70 1.10	5.25 .95	4.65 .57	4.74
ฎ	COALS AND OBJECTIVES	8.05 1.31	8.25 .95	7.66 1.15	8.04
HGM SCHOOL, PAINCIPALS	STUDENT LEARNING EXPERIENCES	15.43 3.60	16.50 1.73	16.0 1.73	15.56
	EVALUATECT	14.26 1.94	14.25 1.70	15.33 .57	4.83
S 4514	INSERVICE	5.78 1.10	6.75 1.70	6.0 1.57	5.83
	LITERATURE	4.83	4.73	5,15	4.87 - G8
	GOALS AND ORGEOTINES	8.12	7.83	8.15	a.10
,	STUSENT LEARNING EXPERIENCES	15.27	16.12	16.05	15.17 13.23
TOTALS	EVALUATION	15.27	15.47	15.42	15,31 1,93
	INSERVICE	6.17	7.26	6.20	6.2) 1.51
		3-747. T	2-19	<u>4-12</u>	<u> 1:135 </u>

TABLE 4:10 LEVELS OF SIGNIFICANCE FOR ELEMENTARY PRINCIPALS CONTRASTED
WITH MIDDLE/JUNIOR AND HIGH
SCHOOL PRINCIPALS ON THE PERCEIVED IMPORTANCE OF RESPONSIBILITIES IN SUBCURRICULAR
CATEGORIES

VARIATE .	HYPOTHESIS SUM OF SQUARE	ERROR SUM OF SQ.	HYPOTHESIS MEAN SQ.	ERROR MEAN SQ.	F	SIGNIFICANCE OF F
LITERATURE	1,45418	164.69213	1.45418	. 951 98	1.52753	.21816
OBJECTIVES	.07835	235.71105	.07835	1.36827	.05727	.81115
STUDENTS	48.81553	1754.65290	45.81553	10.14250	4.51718	*.03497
EVALUATION	6.16361	611.84625	6.16361	3.53668	1.74277	.18853
INSERVICE	15.64275	363.91034	15.64275	2.10353	7,43644	*.00705
		* Indicates	Significant	Difference		

As indicated by the mean scores on Table 4:5, elementary principals tend to perceive the responsibilities in both subcurricular categories to be more important than do the other principals.

In position 3 (superintendents contrasted with principals) there are no significant differences in any of the five subcurricular categories.

TABLE 4:11 LEVELS OF SIGNIFICANCE FOR SUPERIN-TENDENTS CONTRASTED WITH PRINCIPALS ON THE PERCEIVED IMPORTANCE OF RESPON-SIBILITIES IN SUBCURRICULAR CATEGORIES

VARIATE	HYPOTHESIS SUM OF SQUARE	ERROR SUM OF SQ.	HYPOTHESIS MEAN SQ.	ERROR MEAN SQ.	F	SIGNIFICANCE OF F
LÎTERATURE	3.37070	164.69213	3.37070	. 951 98	3.54073	.06156
OBJECTIVES	.00386	236.71105	.00396	1.36827	.00290	.95714
STUDE!ITS	.66010	1754.65290	.66910	10.14250	.06597	.79760
EVALUATION	2.53842	611.84625	2.53842	3.53688	.71774	.398806
INSERVICE	.01210	363.91034	.12100	2.10353	.00575	.93964

Due to the interaction of size and position, size cannot be considered for the main effect at this point. Therefore, it cannot be determined if there is a significant
difference between the perceived importance of the selected
curricular responsibilities and the size of the school
where the principal is employed.

<u>Summary of Importance of Selected Curricular</u> Responsibilities

A summary of this particular variable is as follows:

- 1. The categories of responsibility which were perceived as being the most important to school principals are "Formulation of Philosophy, Goals and Objectives" and "Evaluation."
- There is a significant interaction between the independent variables of size and position.
- 3. There is a significant difference between elementary principals and other principals in the importance of curricular responsibilities in the subcurricular categories of "Selection and Organization of Content and Student Learning Experiences" and "Conducting/Coordinating Inservice Programs."

 Elementary principals perceive the responsibilities from both subcurricular categories to be more important than do the other principals.
- 4. There is a significant difference between middle/
 junior high school principals and high school
 principals in the importance of the selected
 curricular responsibilities in the subcurricular
 category of "Coordinating/Conducting Inservice
 Programs." High school principals perceive responsibilities in this subcurricular category to be
 more important than do middle/junior high school
 principals.

- 5. There is no significant difference between principal's and superintendent's perceptions as to the importance of the selected curricular responsibilities.
- 6. Due to the significant interaction between size and position, it was not determined if there is a significant difference between the importance of the selected curricular responsibilities and the size of the school district where the principal is employed.

Principal's Engagement in Selected
Curricular Responsibilities

The four research questions which focused on this variable are as follows:

- 9. In which of the selected curricular responsibilities do principals most engage as perceived by school principals and superintendents?
- 10. Is there a significant difference between the selected curricular responsibilities in which principals most engage, as perceived by principals, and the grade level of principalship?
- 11. Is there a significant difference between the principal's perceptions and the superintendent's perceptions as to the selected curricular responsibilities in which principals most engage?
- 12. Is there a significant difference between the selected curricular responsibilities in which principals most engage, as perceived by principals

and superintendents, and the size of the school district where the principal is employed?

To illustrate the findings for research question 9, the mean scores for each of the five subcurricular categories were determined. These mean scores reflected the responses obtained from the total sample on a three point Likert-type scale. The mean scores were ranked from high to low as to which categories were perceived as being the most engaged in by principals. Table 4:12 illustrates this ranking.

As illustrated on Table 4:12, there is no perceived high degree of engagement in responsibilities in any of the five subcurricular responsibilities. Nonetheless, the responsibilities in the subcurricular category "Evaluation" were perceived as being the most engaged in. This category was followed in rank by "Formulation of Philosophy, Goals and Objectives." The responsibilities under the subcurricular category of "Preparation Through Current and Professional Literature" and "Selection and Organization of Content and Student Learning Experiences" were third and fourth respectively in order of perceived engagement. The responsibilities in the subcurricular category of "Conducting"/Coordinating Inservice" were perceived as being engaged in to a low degree.

Research questions 10, 11 and 12 focus on the effects of level of administration and size of the school district on the principal's engagement in selected curricular responsibilities.

TABLE 4:12 RANKING OF RESPONSIBILITIES IN CURRICULAR CATEGORIES

FOR PRINCIPALS IN ORDER OF ENGAGEMENT BY MEAN SCORES

AS PERCEIVED BY PRINCIPALS AND SUPERINTENDENTS

Survey Topic	Mean Score (On a three Point Scale)
Evaluation	2.12
Formulation of Philosophy, Goals and Objectives	2.04
Preparation Through Current and Professional Literature	1.88
Selection and Organization of Content and Student Learning Experiences	1.84
Coordinating and Conducting Inservice	1.61

The Hotelling Test indicates no significant interaction between the independent variables of size and position as illustrated on Table 4:13.

TABLE 4:13 INTERACTION BETWEEN INDEPENDENT
VARIABLE OF SIZE AN POSITION FOR
PRINCIPAL"S PERCEIVED ENGAGEMENT
IN SELECTED CURRICULAR RESPONSIBILITIES

TEST NAME	VALUE	APPROX. F	HYPOTHESIS D.F.	EPROR O.F.	SIGNIFICANCE OF F.	
Hotellings	.15542	.84653	30,00000	817.00000	.70361	

Since there is no significant interaction between size and position, the effects of position were analyzed. In position 1 (middle/junior high principals contrasted with high school principals), the Hotelling Test indicates a significant difference.

TABLE 4:14 LEVELS OF SIGNIFICANCE BETWEEN
MIDDLE/JUNIOR HIGH SCHOOL PRINCIPALS CONTRASTED WITH HIGH SCHOOL
PRINCIPALS ON PRINCIPALS ENGAGEMENT

VALUE	APPROX. F	HYPOTHESIS D.F.	EPROR D.F.	SIGNIFICANCE OF F.	
09140	3.31981	5,00000	165.0000	+ .00696	
	* Indicat	es significant (difference		
		09140 3.31981	D.F. 09140 3.31981 5.00000	0.F. 0.F.	0.F. 0.F. F. 09140 3.31981 5.00000 165.0000 *.00696

The significant differences occur in two subcurricular categories which are "Selection and Organization of Content and Student Learning Experiences" and "Evaluation."

TABLE 4:15 LEVELS OF SIGNIFICANCE FOR MIDDLE/JUNIOR HIGH SCHOOL PRINCIPALS CONTRASTED WITH HIGH SCHOOL PRINCIPALS ON PERCEIVED ENGAGEMENT IN RESPONSIBILITIES IN SUBCURRICULAR CATEGORIES

VARIATE	HYPOTHESIS SUM OF SQUARE	ERROR SUM OF SQ.	HYPOTHESIS MEAN SQ.	ERROR MEAN SQ.	F .	SIGNIFICANCE OF F
LITERATURE	.01036	189.82955	.01036	1.12325	.00922	.92362
OBJECTIVES	5.25064	473.62577	5.25064	2.80252	1.87354	.17289
STUDENTS	54.25298	16661.79486	54.25298	9.83311	5.51738	*.01998
EVALUATION	90.58488	1107.23852	90.58488	6.55171	13,82615	*.0002 7
INSERVICE	.20928	417.03973	.20928 s.Significant	2.46769 Difference	.08481	.77124

As illustrated by the mean scores on Table 4:16, high school principals tend to engage more in activities listed under "Selection and Organization of Content and Student Learning Experiences" than do middle/junior high school principals. Middle/junior high principals, however, tend to be more engaged in the evaluation responsibilities than do high school principals.

In position 2 (elementary principals contrasted with middle/junior high and high school principals), the Hotelling test indicates a significant difference.

TABLE 4:16 MEANS AND STANDARD DEVIATIONS
FOR PERCEIVED ENGAGEMENT IN
CURRICULAR RESPONSIBILITIES
ACCORDING TO SUBCURRICULAR
CATEGORIES AS REPORTED BY SUBPOPULATION

	1	SHALL SCHOOL	MEDIUM STZED	LARGE SCHOOL	TOTALS
		OSSIRICT X	SCHCOL DISTRICT Å S	DISTRICT X	ž ·
		.3			
	LITERATURE	3.6a 1.01	3.66 1.50	4.0 .81	3.70
	GOALS AND OBJECTIVES	5.91 1.71	5.33 .51	7.75 1.50	5.93
TENDEN	STUDENT LEARNING EXPERIENCES	12.15 3.12	10.16 3.12	12.0 1.82	11.92
SUPERINTENCENT	EVALUATION	11.57 2.61	10.33 3.66	13.25 1.89	11.55
∞	INSERVICE	4,73 1,49	4.50 1.64	5.75 2.36	4.77
		N-45	N-6	H+4	K+51
	LITERATURE	3.80 1.19	4.0	5.0 1.09	3.97
·	GOALS AND OBJECTIVES	6.27 1.79	6,16 1,60	8.16 1.39	6.49
INCIPA	STUCENT LEARNING EXPERIENCES	13.91 3.32	16.16 2.40	17.50 3.33	14.64
ARY PR	EVALUATICI	13.27 2.66	15.16 1.16	15.50 2.50	13.91
ELCHENTARY PRINCIPAL	INSERVICE	4.72 1.59	5.66 .81	6.33 1.50	5.03
		'N-36	h-6	N=6	N=48
100	LITERATURE	3.78 1.10	4.33 .57	4,42 1,27	3.94
2.¥ 2.	GOALS AND CBJECTIVES	6.14 1.43	5.66 1.52	6.28 1.25	6.20
IOR HI	STUDENT LEARNING EXPERIENCES	11.82 3.37	16.33 •57	12.71 3.77	12.34
MIDOLE/JUNTOR HIGH SCHOOL PRINCIPAL	EVALUATION	13.0 2.27	15.0 3.60	11.85	12,94
M	INSERVICE	4.78 1.79 H•28	6.0 . 1.0 N-3	5,14 1.57 H•7	4,94 R#38
	LITERATURE	3.23	4.0	4.0	3.34
g	GOALS AND OBJECTIVES	6.41 1,65	7.25 1.70	6.50 2.12	6.49
UNCIPA	STUDENT LEARNING EXPERIENCES	12.35 2.98	14.0 · 1.63	13.0 1.41	12.54
- מַסָּר	EVALUATION	12.64 2.69	13.0 2.58	12.0 1.41	12.64
HICH SCHOOL PRINCIPALS	INSERVICE	4.61 1.53 N+34	5.0 81 n-4	5.50 .70 N=2	4.63 N+40
	LITERATUPE	3.62	1.94	4.47	3.75
	COALS AND CBRECTIVES	6,15	6.21	7.21	1.01 6.23 1.70
"	STUDENT LEARNING EXPERTENCES	12.53	_ 13.84	14.10	2.93
TOTALS	EYRLUATION	12.53	13.15	13.31	7.68 7.70
	INSERVICE	4.71	5.21	5.68	4.66 1.57
·		10141	4:19	3012	

TABLE 4:17 LEVELS OF SIGNIFICANCE BETWEEN ELEMENTARY PRINCIPALS
AND MIDDLE/JUNIOR HIGH
SCHOOL PRINCIPALS ON PRINCIPAL'S PERCEIVED ENGAGEMENT
IN SELECTED CURRICULAR RESPONSIBILITIES

TEST NAME	VALUE	APPROX. F	HYPOTHESIS D.F.	ERNOR D.F.	SIGNIFICANCE OF F.
Hotellings	.11255	3,71416	5.00000	165.0000	*.00327
		*Indicat	es Significant D	ifferenc e	
			_		

The significant differences occur in two subcurricular categories which are "Selection and Organization of Content and Student Learning Experiences" and "Evaluation."

TABLE 4:18 LEVELS OF SIGNIFICANCE FOR ELEMEN-TARY PRINCIPALS CONTRASTED WITH MIDDLE/JUNIOR HIGH AND HIGH SCHOOL PRINCIPALS ON PERCEIVED ENGAGEMENT IN RESPONSIBILITIES IN SUBCURRI-CULAR CATEGORIES

VARIATE	HYPOTHESIS SUM OF SQUARE	ERROR SUM OF SQ.	HYPOTHESIS MEAN SQ.	ERROR MEAN SQ.	F	SIGNIFICANCE OF F
LITERATURE	2.94562	189.82955	2.94562	1.12325	2.62440	.10723
OBJECTIVES	.73855	473.62577	.73855	2.80252	.26353	.60837
STUDENTS	146.60843	1661.79486 1	46.60843	9.83311	14.90968	*.00016
EVALUATION	33.51940	1107.23852	33.51940	6.55171	5.11613	*.02498
INSERVICE	1.16291	417.03973	1.16291	2.46769	.47125	.49335
	*Ind	icates Signifi	icant Interact	ion	•• •	••

As indicated by the mean scores on Table 4:16, elementary principals tend to engage more in activities listed under both subcurricular categories than do the other principals.

In position 3 (superintendents contrasted with principals), the Hotelling test indicates no significant differences in the two groups.

TABLE 4:19 LEVELS OF SIGNIFICANCE BETWEEN
SUPERINTENDENTS CONTRASTED
WITH PRINCIPALS ON PRINCIPAL'S
PERCEIVED ENGAGEMENT IN SELECTED
CURRICULAR RESPONSIBILITIES

TEST NAME	VALUE	APPROX. F	HYPOTHESIS D.F.	ERROR D.F.	SIGNIFICANCE OF F,
Hotellings	.04757	1.64839	5.00000	165.0000	.15000

Since there was no significant interaction between size and position, the effects of size were considered. In size 1 (medium school districts contrasted with large districts), the Hotelling test indicates a significant difference.

TABLE 4:20 LEVELS OF SIGNIFICANCE BETWEEN MEDIUM SCHOOL DISTRICTS CONTRASTED WITH LARGE SCHOOL DISTRICTS ON PRINCIPAL'S PERCEIVED ENGAGEMENT IN SELECTED CURRICULAR RESPONSIBILITIES

	SIGNIFICANCE OF	ERROR D.F.	HYPOTHESIS D.F.	APPROX. F	YALUE ———	TEST NAME
01619	.01619	165.000	5.000	2.87551	.0514	Hotelling
. 1		165.000	5.000	2.87551	.0814	Hotelling

The significant differences occur in three subcurricular categories which are "Preparation Through Current and Professional Literature," "Selection and Organization of Content and Student Learning Experiences," and "Conducting/Coordinating Inservice."

TABLE 4:21 LEVELS OF SIGNIFICANCE FOR MEDIUM SCHOOL DISTRICTS CONTRASTED WITH LARGE SCHOOL DISTRICTS ON THE PERCEIVED ENGAGEMENT IN RESPONSIBILITIES IN SUBCURRICULAR CATEGORIES

VARIATE	HYPOTHESIS SUH OF SQUARE	ERROR SUH OF SQ.	HYPOTHESIS HEAH SQ.	ERROR MEAN SQ.	F	SIGNIFICANCE OF F
LITERATURE	10.13972	189.82955	19.13972	1.12325	9.02711	*.00305
OBJECTIVES	8.84202	473.62577	8.84202	2.80252	3.15502	.07749
STUDENTS	58.27849	1661.79486	58.27849	9.83311	5.92676	л.01595
EVALUATION	14.64284	1107.23852	14.6 4284	6.55171	2.23497	.13678
INSERVICE	16.17819	417,03973	16.17819	2.46769	6.55600	*.01135
		*India	ates Signific	ant Difference	e	•.

As indicated by the mean scores on Table 4:16, principals from large school districts engaged in all three subcurricular categories more than principals from middle sized school districts.

In size 2 (small school districts contrasted with medium and large school districts), the Hotelling test indicates no significant difference in the two groups.

TABLE 4:22 LEVEL OF SIGNIFICANT DIFFER-ENCE BETWEEN SMALL SCHOOL DISTRICTS CONTRASTED WITH MEDIUM AND LARGE DISTRICTS ON THE PRINCIPAL'S PERCEIVED ENGAGEMENT IN SELECTED CUR-RICULAR RESPONSIBILITIES

TEST HAME	VALUE	APPROX. F	HYPOTHESIS D.F.	ERROR D.F.	SIGNIFICANCE OF F.	
Hotellings	.03127	1.03195	5,000	165.0000	.40052	

Summary of Engagement in Selected Curricular Responsibilities

A summary of this particular variable is as follows:

- 1. Principals were not perceived as engaging in any of the designated five curricular categories to a high degree. Nonetheless, the two categories of responsibilities which were perceived as being the most engaged in were "Evaluation" and "Formulation of Philosophy, Goals and Objectives." These two categories of responsibilities, however, were only perceived to be engaged in to a medium degree.
- 2. There is a significant difference between elementary principals and other principals in the

engagement of the selected curricular responsibilities in the subcurricular categories of "Selection and Organization of Content and Student Learning Experiences" and "Evaluation." Elementary principals tend to engage more in responsibilities listed under both subcurricular categories than do other principals.

- 3. There is a significant difference between middle/ junior high school principals and high school principals in the engagement in selected curricular responsibilities in the subcurricular categories of "Selection and Organization of Content and Student Learning Experiences" and "Evaluation." High school principals tend to engage more in responsibilities in the former subcurricular category while middle/junior high school principals tend to engage more in the latter.
- 4. There is no significant difference between the principal's and superintendent's perceptions of the principal's engagement in the selected curricular responsibilities.
- 5. There is no significant difference between small and medium and large districts as to the principal's engagement in the selected curricular responsibilities.
- 6. There is a significant difference between medium and large school districts as to the principal's

engagement in the selected curricular responsibilities in the subcurricular categories "Preparation through Current and Professional Literature," "Selection and Organization of Content and Student Learning Experiences" and "Conducting/Cooridinating Inservice. Principals from large school districts engaged in responsibilities in all three subcurricular categories more than principals from middle size school districts.

Professional Development Need for Selected Curricular Responsibilities

The four research questions which focus on this variable are as follows:

- 13. In which of the selected curricular responsibilities do principals have the greatest professional development need as perceived by principals and superintendents?
- 14. Is there a significant difference between the principal's professional development needs, as perceived by school principals, and the grade level of principalship?
- 15. Is there a significant difference between the principal's perceptions and the superintendent's perceptions of the principal's professional development needs?
- 16. Is there a significant difference between the principal's professional development needs, as perceived by principals and superintendents, and the

size of the school district where the principal is employed?

To illustrate the findings for research question 13, the mean scores for each of the five subcurricular categories were determined. These mean scores reflected the response obtained from the total sample on a three point Likert-type scale. The mean scores were ranked from high to low to determine which categories were perceived as having the greatest professional development need. Table 4:23 illustrates this ranking.

The responsibilities in the category, "Formulation of Philosophy, Goals and Objectives" were perceived as having the greatest profession development need and were followed in order by the category "Evaluation." The responsibilities in the categories of "Preparation through Current and Professional Literature" and "Selection and Organization of Content and Student Learning Experiences" were third and fourth respectively. The responsibilities in the subcategory of "Conducting and Coordinating Inservice" were perceived as having the least professional development need.

Research questions 14, 15, and 16 focus on the effects of level of administration and size of the school district on the principal's professional development needs for the selected curricular responsibilities.

The Hotelling Test indicates a significant interaction at .01373 between the independent variables of size and position.

TABLE 4:23 RANKING OF RESPONSIBILITIES IN CURRICULAR CATEGORIES
FOR PRINCIPALS IN ORDER OF PROFESSIONAL DEVELOPMENT
NEEDS AS PERCEIVED BY PRINCIPALS AND SUPERINTENDENTS

Survey Topic	Mean Score (On a Three Point Scale)
Formulation of Philosophy, Goals	2.28
and Objectives	
Evaulation	2.27
Preparation Through Current	2.06
and Professional Literature	
Selection and Organization of Content	2.03
and Student Learning Experience	
Conducting and Coordinating Inservice	1.96

TABLE 4:24 INTERACTION BETWEEN INDEPENDENT VARIABLES OF SIZE AND POSITION FOR PERCEIVED PROFESSIONAL DEVELOPMENT NEEDS FOR SELECTED CURRICULAR RESPONSIBILITIES

r name v	/ALUE APPROX.	F HYPOTHESIS D.F.	ERROR D.F.	SIGHIFICANCE OF F.
llings .31	321 1.67465	30.00000	802.00000	*.01373
*Indicates S	ignificant Interac	ction Between Size	and Position	

Due to the interaction between size and position, the univariates were analyzed as were correlations between dependent and canonical variables.

In analyzing the univariate under position 1 (Middle/junior high principals contrasted with high school principals), there is no significant difference in any of the five subcurricular categories.

TABLE 4:25 LEVELS OF SIGNIFICANCE FOR MIDDLE/
JUNIOR HIGH PRINCIPALS CONTRASTED
WITH HIGH SCHOOL PRINCIPALS ON PERCEIVED PROFESSIONAL DEVELOPMENT
NEEDS FOR RESPONSIBILITIES IN SUBCURRICULAR CATEGORIES

VARIATE	 HYPOTHESIS SUIT OF SQUARE 	ERROR SUM OF SQ.	HYPOTHESIS MEAN 50.	ERROR MEAN SQ.	F	SIGNIFICANCE OF F
LITERATURE	.08827	286.28196	.08827	1.72459	.05118	.82129
08JECTIVES	1.75041	499.52937	1.75041	3.00921	.58169	.44674
STUDENTS	2.32553	1838.58351	2.32553	11.07641	.20995	.64740
EVALUATION	2.78806	1326.81002	2.78806	7.99283	.34822	.55559
INSERVICE	9.35351	448.89780	9.35351	2.70420	3,45888	.06468

In position 2 (elementary principals contrasted with middle/junior high school and high school principals), there is no significant difference in any of the five subcurricular categories.

TABLE 4:26 LEVELS OF SIGNIFICANCE FOR ELEMENTARY PRINCIPALS CONTRASTED
WITH MIDDLE/JUNIOR HIGH AND HIGH
SCHOOL PRINCIPALS ON PERCEIVED
PROFESSIONAL DEVELOPMENT NEEDS
FOR RESPONSIBILITIES IN SUBCURRICULAR CATEGORIES

VARIATE	HYPOTHESIS SUM OF SQUARE	ERROR SUM OF SQ.	HYPOTHESIS MEAN SQ.	EPROA MEAN SQ.	F	SIGNIFICANCE OF F
LITERATURE	.08704	286.28196	.08704	1.72459	.05047	.82252
OBJECTIVES	.02655	499.52937	.02655	3.00921	.00882	. 92528
STUDENTS	4.33154	1838.68451	4.33134	11.07641	.39104	.53261
EVALUATION	13.56032	1326.81002	13.56032	7.99283	1.69656	.19454
INSERVICE	2,76208	448.89780	2,76208	2.70420	1.02140	.31366
					**	

In position 3 (superintendents contrasted with principals), there is no significant difference in any of the five subcurricular categories.

TABLE 4:27 LEVELS OF SIGNIFICANCE FOR SUPERINTENDENTS CONTRASTED WITH PRINCIPALS ON PERCEIVED PROFESSIONAL DEVELOPMENT NEEDS FOR RESPONSIBILITIES IN SUBCURRICULAR CATEGORIES

VARIATE	HYPOTHESIS SUM OF SQUARE	ERROR SUM OF SQ.	HYPOTHESIS MEAN SQ.	ERROR MEAN SQ.	F	SIGNIFICANCE OF F
LITERATURE	3.71204	286.28196	4.71204	1.72459	2.75227	.10023
OBJECTIVES	4.39875	499.52937	4.39875	3.00921	1.46176	.22837
STUDERTS	26.47376	1836.68351	26.47376	11.07641	2.39010	.12401
EVALUATION	6.95327	1326.81002	6.95327	7.99283	.86994	.35233
INSERVICE	.18624	448.89780	.18624	2.70420	.06887	.79331
					••.	

Due to the significant interaction between size and position, size cannot be considered for the main effect at this point. Therefore, it has not been determined if there is a significant difference between the principal's professional development needs and the size of the school district where the principal is employed.

Table 4:28 illustrates the mean scores and standard deviations for each subcategory according to the various population groups.

TABLE 4:28 MEANS AND STANDARD DEVIATIONS FOR PERCEIVED PROFESSIONAL DEVELOPMENT NEEDS FOR CURRICULAR RESPONSIBILITIES ACCORDING TO SUBCURRICULAR CATEGORIES AS REPORTED BY SUBPOPULATIONS

	1	MINALL SCHOOL	HEDIUM SIZED	LARGE SCHOOL	101ALS
1		CHALL SCHOOL DISTRICT	SCHOOL DISTRICT	OISTAICT K	×
		s	5	. 3 ·	
SLPERINTENCENT	LITERATURE	4.01 1.29	4.50 1.64	4.50 .57	4,12
	GOALS AND CONFECTIVES	6,97 1,67	7.20 1.64	8.0 1.54	7.07
	STUDENT LEARNING EXPERTENCES	14.20 3.37	15.0 1.09	9.50 2.38	13.94
	EVALUATICA	13.79 2.79	17.0 0	13.0 2.16	14.03
	INSERVICE	6.27 1.77	6.65 1.50	5.0 1.82	6.21
		N+44	H=6	h-4	M+54
ELDENTARY FRINCIPAL	LITERATURE	1.61	4.60 .54	4.50 1.51	4.06
	GOALS AND CHIECTIVES	6.65 1.84	7,20 1,64	8.0 1.54	6.83
	STUDENT LEARNING EXPERIENCES	13.45 4.0	14.40 3.71	16.16 .98	11.30
	EAVERALICA	12.65 3.32	14.40 3.57	17.0 1.54	13.43
	INSERVICE	5.77 1.81	5.80 1.64	7.0 1.09	5.93
		*N+35	N+5	₩• 6	N-45
MICAE/JUNIOR HIGH SCHOOL PRINCIPAL	LITERATURE	4.27 1.16	4.33 .57	4.71 1.83	4.35
	GCALS AND CONFESTIVES	6.51 1.80	6.33 1.15	7.0 1.41	6.53
	STUDENT LEARNING EXPERIENCES	13,48 2,89	16.33 1.15	13.23 5.31	13.66
	EVALLATICA	13.96 2.45	14.66 3.51	12.57 4.96	13.76
	INSERVICE	5.79 1.78 N•79	6.0 0 . N-3	4.85 1.66 N•7	5.63 N=39
HICH SCHOOL PRINCIPALS	LITERATURE	3.63 1.03	5.50 .57	3.33 .57	3.83
	COMPS WHO OBSECTIARES	7.06 1.79	8.0 1.41	6.0 1.73	7.07
	STUDENT LEARNING EXPERIENCES	14.59 3.0	17.25 2.62	15.0 0	14.57
	EVALUATION	14.28 2.35	14.25 2.87	15.0 0	14.32
	INSER/ICE .	5.62 1.21	4.75 1.70	6.0	5.55
	<u>. </u>	1 3.97	4.72	4.39	14,10
. 107ዲኔ	LITERATURE	- 6.81	. 1.23	7.35	1,32 6,32 1,75
	GOALS AND CONSECTIVES	7"]	
	STUDENT LEARNING EXPERIENCES	ii I	15.55	13.64	14.C3 3.40
	ENATUATION	13.65	15.27	14.34	33.33 2.23
	H	11	5.88	5.69	5.87

Summary of Professional Development Needs for the Selected Curricular Responsibilities

A summary of this particular variable is as follows:

- 1. The categories of responsibility which were perceived as having the greatest professional development needs were "Formulation of Philosophy, Goals and Objectives" and "Evaluation."
- 2. There is a significant interaction between the independent variables of size and position as to the principal's professional development need for the selected curricular responsibilities.
- 3. There is no significant difference between elementary principals and other principals as to
 the professional development needs for the selected
 curricular responsibilities.
- 4. There is no significant difference between middle/
 junior high and high school principals as to the
 professional development needs for the selected
 curricular responsibilities.
- 5. There is no significant difference between the principal's and superintendent's perceptions as to the principal's professional development need for the selected curricular responsibilities.

6. Due to the significant interaction between size and position, it was not determined if there is a significant difference in the principal's professional development need for the selected curricular responsibilities and the size of the school district where the principal is employed.

Summary of Chapter

There were provided in this chapter the findings for sixteen research questions which focused on the effects of two independent variables (administrative position and size of school district) on four dependent variables:

- The perceived percent of time the principal spent on curricular responsibilities in comparison to other responsibilities.
- 2. The degree to which selected curricular responsibilities were perceived as being important for school principals.
- 3. The degree to which principals were perceived as engaging in selected curricular responsibilities.
- 4. The degree of perceived professional development needs for the selected curricular responsibilities.

The findings indicate that in three of the four dependent variables, there was a significant interaction between the independent variables of size and position. Due to these interactions the effect of size was not determined on the dependent variables of percent of time spent on

curricular responsibilities, importance and professional development need for the selected curricular responsibilities.

. The findings further indicated that no significant differences occurred between principals and superintendents in any of the four dependent variables.

Table 4:29 provides a summary of where significant interactions and significant differences occurred for each variable.

TABLE 4:29 SUMMARY OF SIGNIFICANT INTERACTIONS AND SIGNIFICANT DIFFERENCES FOR EACH VARIABLE

	Percent of Time Spent on Curricular Respon- sibilities	Importance of Curricular Responsibilities	Actual Engagement in Curricular Responsibilities	Professional Development Need for Curricular Responsibilities
Interaction between Size by Position	Significant Interaction Occured	Significant Interaction Occured		Significant Interaction Occured
Position (1) Mid- dle/junior High School Principals contrasted with High School Principals		"Conducting/Coordinating Inservice"	"Selection/Organ- ization of Content & Student Learning Experiences" "Evaluation"	•
Position (2) Elemantary Prin- cipals contrasted with Middle/jun- ior High and Hign School Principals		"Selection/Organization of Content & Student Learn- ing Experiences" "Conducting/Coordinating Inservice"	"Selection/Organiza- of Content & Student Learning Experiences "Evaluation"	
Position (3) Superintendents contrasted with Principals				
Size (1) Medium School Districts Con- trasted with Large School Districts			"Preparation Through Current Professional Literature" "Selection/Organiza- tion of Content & Student tearning Experiences" Conducting/Coordinat- ing Inservice"	
Size (2) Small School Districts Contrasted With Medium and Large School Districts	:			

Filled Cells Indicate Significant Interaction or Significant Difference.

CHAPTER V

SUMMARY, FINDINGS AND RECOMMENDATIONS

The purpose of this study was to investigate selected curricular responsibilities and related professional development needs of school principals as perceived by principals and superintendents in a nine county geographical area in Michigan. Two independent variables were investigated as to their effects on four dependent variables. The independent variables were: (a) level of administration and (b) the size of the school district where the principal is employed.

The four dependent variables were:

- The perceived percent of time the principal spent on curricular responsibilities in comparison to other responsibilities.
- 2. The degree to which selected curricular responsibilities were perceived as being important for school principals.
- 3. The degree to which principals were perceived as engaging in selected curricular responsibilities.
- 4. The degree of perceived professional development needs for the selected curricular responsibilities.

The Taba Curriculum Development Model was used for the curricular responsibilities selected for those included on a mailed survey instrument sent to principals and superintendents in the designated nine county area in Michigan.

A series of sixteen research questions was investigated.

The sixteen questions were divided into four groups representing the four dependent variables. The sixteen research questions were:

Percentage of Time Spent on Curricular Responsibilities

- What percentage of a principal's time is spent on curricular responsibilities in comparison to other responsibilities as perceived by school principals and superintendents?
- 2. Is there a significant difference between the percentage of time spent on curricular responsibilities, as perceived by school principals, and the grade level of principalship?
- 3. Is there a significant difference between the principal's and superintendent's perceptions of the percentage of the principal's time spent on curricular responsibilities in comparison to other responsibilities?
- 4. Is there a significant difference between the percentage of time the principal spent on curricular responsibilities, as perceived by principals and superintendents, and the size of the school district where the principal is employed?

Perceived Importance of Curricular Responsibilities

- 5. Which of the selected curricular responsibilities are the most important to principals as perceived by principals and superintendents?
- 6. Is there a significant difference between the importance of the selected curricular responsibilities, as perceived by school principals, and the grade level of principalship?
- 7. Is there a significant difference between the principal's perceptions and the superintendent's perceptions of the importance of the selected curricular responsibilities for principals?
- 8. Is there a significant difference between the importance of the selected curricular responsibilities for principals, as perceived by principals and superintendents, and the size of the school district where the principal is employed?

Perceived Engagement in Selected Curricular Responsibilities

- 9. In which of the selected curricular responsibilities do principals most engage as perceived by school principals and superintendents?
- 10. Is there a significant difference between the selected curricular responsibilities in which principals most engage, as perceived by principals, and the grade level of principalship?
- 11. Is there a significant difference between the principal's perceptions and the superintendent's

- perceptions as to the selected curricular responsibilities in which principals most engage?
- 12. Is there a significant difference between the selected curricular responsibilities in which principals most engage, as perceived by principals and superintendents, and the size of the school district where the principal is employed?

Perceived Professional Development Needs for Curricular Responsibilities

- 13. In which of the selected curricular responsibilities do principals have the greatest professional development need as perceived by principals and superintendents?
- 14. Is there a significant difference between the principal's professional development needs, as perceived by school principals, and the grade level of principalship?
- 15. Is there a significant difference between the principal's perceptions and the superintendent's perceptions of the principal's professional development needs?
- 16. Is there a significant difference between the principal's professional development needs, as perceived by principals and superintendents, and the size of the school district where the principal is employed?

Findings

This study has the following findings:

- 1. Only 15.71% of a principal's time is spent on curricular responsibilities, as perceived by principals and superintendents. Curricular responsibilities were ranked third among seven designated responsibilities. Responsibilities which were perceived as consuming more of the principal's time were "Student Relations" (25.10%) and "Office Responsibilities" (21.04%).
- 2. The level of principalship does have an effect on the principal's perceptions as to the degree of importance and degree of engagement in selected curricular responsibilities.
- 3. Principals and superintendents do not differ significantly in their perceptions as to the degree of importance, engagment and professional development need for selected curricular responsibilities for principals.
- 4. None of the curricular responsibilities in the designated categories were perceived by principals and superintendents as having a high degree of

- importance for principals but were perceived as ranging from medium to low importance.
- 5. None of the curricular responsibilities in the designated categories were perceived by principals and superintendents as being highly engaged in by principals but were perceived as being engaged in from a medium to low degree.
- 6. None of the curricular responsibilities in the designated categories were perceived, by principals and superintendents, as having a high professional development need but were perceived as having medium to low professional development needs.

Discussion

This study was begun with the assumption that curricular responsibilities should be an integral part of the principal's job. There appears, however, to be a sharp dichotomy between the research which indicates what an effective principal should do and that research which indicates what a principal does. Several research studies have indicated that in instructionally effective schools the principal is the instructional leader (op. cit., Brookover, Brookover and Lezotte, Edmonds). Such research implies that the principal should be the instructional leader if the school is to be instructionally effective.

The present study, however, along with others (op. cit., Howell, Franklin and Nicken and Alleby, Jennings) indicate that a relatively small percentage of a principal's time is

spent on curricular and instructional responsibilities.

The present study provides even a greater dimension to this dichotomy since it focuses on superintendents' and principals' "perceptions" of the curricular responsibilities performed by the principal. Since this study focused on perceptions the following implications can be drawn.

- Principals don't perceive themselves as spending a great percentage of time on curricular responsibilities.
- 2. Not only do the principals not perceive themselves as spending much time on curricular responsibilities but the superintendents don't perceive the principals as spending much time on curricular responsibilities either.
- 3. There is often a discrepancy between perceptions and the actual. Thus, if the principal does not perceive himself as being highly engaged in curricular responsibilities, his actual engagement might be to a much lesser degree than his perceptions.
- 4. If the principal's perceptions of his engagement in curricular responsibilities are low, his chances for increased actual engagement in those responsibilities might not go beyond those perceptions.
- 5. Since the superintendent's perceptions are low as to the principal's engagement in curricular responsibilities, the principal may not have encouragement or an impetus for becoming more highly engaged in curricular responsibilities.

Recommendations for Further Studies

There appears to be a need to lessen the discrepancy between what should be and what is actually happening in many situations among principals. If educators value the concept of the principal being the instructional leader as a factor in producing more instructionally effective schools, then a goal should be to help principals to become those instructional leaders. To achieve this goal, it is necessary to look toward three sources: colleges and universities, boards of education and professional development programs. These three sources may provide the impetus for several questions which may be incorporated into studies for further examination of the role of the principal. These questions are:

1. Are the graduate programs at colleges and universities adequately preparing principals to become instructional leaders?

One might conjecture that principals and superintendents receive graduate training in the departments of school administration. If so, the training may have been more specifically focused on school management and little attention given to instructional leadership. If the superintendent were a principal prior to becoming superintendent, his orientation to the principalship would also be on the management aspect.

If one were to examine the departments within the schools of education, one might discover a department for the area of school administration and a separate department

for curriculum and instruction. There might also be little communication between the two departments. The findings from the question posed might be instrumental in upgrading the graduate programs for prospective principals.

2. Are principals hired by boards of education to be instructional leaders?

The question focuses on the qualifications which school districts consider when recruiting a principal. Do the job qualifications specify a management orientation or are the candidate's educational background and experiences as an instructional/curriculum leader also considered? This writer suspects that principals are hired due to their management qualifications and little attention is given to the instructional qualifications.

It must be reiterated, however, that if the concept of the principal being the instructional leader is valued, then persons should be hired to perform that role. Boards of education cannot ignore examining a candidate's instructional qualifications if that is the role he/she is to perform. In addition, since the superintendent is usually the board of education's designee for the hiring of administrative personnel, the superintendent should be specifically informed by the board as to the qualifications which are valued.

3. Is there a relationship between the principal's engagement in curricular responsibilities and the type of graduate training received? The question suggests that those principals who most engage in curricular responsibilities may have graduate degrees in curriculum and instruction. This question is related to the previous question. If the research should indicate that those principals who most engage in curricular responsibilities are those who have graduate degrees in that area and boards of education value instructional leadership, such specification should be considered when recruiting principals.

4. Are coordinators of professional development programs cognizant of the effective school research as well as the research on how principals spend their time?

This question suggests that professional development programs should be designed to bridge the gap between what should happen and what is happening regarding the functions in which principals are engaged. The question suggests that professional development programs should be designed to assist the school principals to become more effective instructional leaders.



APPENDIX A LETTER TO PARTICIPANTS

Saginaw Intermediate School District

June 10, 1981

Dear Educator:

It is very close to the end of the school year and I know how busy you are. I truly need your assistance in obtaining data for a research study I am doing for my doctoral dissertation at Michigan State University.

The purpose of the study is to examine the curricular responsibilities and professional development needs of school principals as perceived by principals and superintendents in a nine county location in Michigan.

Would you be so kind as to promptly complete the enclosed survey instrument which takes approximately ten minutes? Your prompt response is vital for the completion of this study. A self addressed stamped envelope is enclosed for your convenience.

I sincerely appreciate you taking the time from your busy schedule to complete the survey.

Cordially,

Bolly ann Robinson

Enclosure

APPENDIX B
SURVEY INSTRUMENT

A SURVEY OF THE CURRICULUM RESPONSIBILITIES AND PROFESSIONAL DEVELOPMENT NEEDS OF SCHOOL PRINCIPALS

PLEASE CHECK (/) THE RESPONSE WHICH BEST APPLIES TO YOU.

_		
1.	Please indicate which best describes your presen	it administrative position:
	a) Superintendent	
	b) Elementary Principal c) Middle or Junior High School Principal	·
	d) High School Principal	•
	d) Principal with a Combination of Assignme	ints Specify
	e) Other (Specify)	
	const (opening)	
2.	Please indicate the size of your school district principals employed. Please do not include assi	according to the number of stant principals.
	a) 0 - 8 Principals	
	b) 9 - 12 Principals	
	c) 13 or More Principals	
	* ******	
	EASE WRITE THE ESTIMATED PERCENTAGE OF TIME THE BULLOWING RESPONSIBILITIES.	ILDING PRINCIPAL SPENDS ON THE
	PRINCIPALS: INDICATE THE PERCENTAGE OF TIME YOU	SPFND.
	SUPERINTENDENTS: INDICATE THE PERCENTAGE OF TIME	
	CURRICULUM/INSTRUCTIONAL LEADERSHIP	
	OFFICE RESPONSIBILITIES (CORRESPONDENCE, REPORTS, ETC.)	
	COMMUNITY RELATIONS	
	STUDENT RELATIONS	
	EXTRACURRICULAR SUPERVISION	•
	PERSONAL/PROFESSIONAL DEVELOPMENT	
	FACULTY RELATIONS	
	OTHER	
	TOUG FOR COMPLETING THE DEMAINDED OF THIS SHOVEY	100 % TOTAL
DIRECT.	IONS FOR COMPLETING THE REMAINDER OF THIS SURVEY. For each statement please give three responses. The first responses.	onse would indicate
	your perceptions as to the importance of the curriculum response second response would indicate your actual engagement in the c bility and the third response would indicate your perceptions stonal development need for the responsibility.	urriculum responsi-
	ALS: Respond to each statement as it applies to your present positi	
SUPERINT	<u>IENDENTS</u> : Respond to each statement reflecting your perceptions as principals in your school district.	they apply to

CURRICULUM RESPONSIBILITIES

- Keeping abreast of current events in newspapers, books and periodicals.
- 2. Keeping abreast of current professional literature.
- 3. Formulation of district's and/or individual school's philosophy of education.
- 4. Formulation of district's and/or individual school's educational goals.
- Formulation of district's and/or individual school's educational objectives.
- 6. Selection of content for student learning.
- Organization of content for student learning.
- 8. Formulation of student objectives.
- 9. Assessing student needs.
- 10. Selection of learning experiences for students.
- 11. Organization of student learning experiences.
- Evaluating student performance.
- Evaluating overall program(s).
- 14. Assessing teacher needs.
- 15. Observing teacher performance in the classroom.
- 16. Observing student performance in the classroom.
- 17. Selecting instructional materials for students.
- 18. teaching observation lessons as modeling techniques for teachers.
- 19. Conducting inservice programs for teachers.
- 20. Coordinating inservice programs for teachers.
- 21. Evaluating professional staff utilizing a designated process.

Perce tance lum R	ived I of Cu espons ties	ived Impor- of Curricu- esponsibi- ties		Actual Engage- ment in Cur- riculum Respon- sibilities		Perceived Pro- fessional De- .velopment Need Priority		Pro- De- nt rity	
Low Importance	Medium Importance ~	High Importance 🚗	Low Engagement -	Medium Engagement ~	High Engagement က	LOW Need -	Medium Need ~	High Need . 3	
									
									
<u> </u>								-	
-					_	-		 	
						:			
						_		-	
									L
	!								
		·							1
			,						1
				-	1				
				-				 -	1
	<u> </u>				-				1
				ļ	L				1

THANK YOU FOR COMPLETING. THE SURVEY.

APPENDIX C PERCENT OF TIME PRINCIPALS SPENT ON OTHER RESPONSIBILITIES

PERCEIVED PERCENT OF TIME PRINCIPALS SPENT ON OFFICE RESPONSIBILITIES AS REPORTED BY VARIOUS SUBPOPULATIONS

	Small School District X s	Medium Sized Schoo <u>l</u> District X S	Large School District X s	Totals X s
Superintendent	18.30 8.40 N=47	15.10 5.47 N=6	25.0 4.08 N=4	18.42 N=57
Elementary Principal	23.17 11.75 N=42	18.33 6.86 N=6	22.86 12.86 N=7	22.60 N=55
Middle/Jr. High School Principal	21.43 11.71 N=37	14.71 4.92 N=6	28.57 16.51 N=7	21.62 N=50
High School Principal	21.84 11.63 N=43	27.0 10.95 N=5	16.67 6.83 N=6	21.74 N=54
	21.09 N=169	18.40 N≃23	23.33 N=24	21.04 10.85 N=216

PERCEIVED PERCENT OF TIME PRINCIPALS SPENT ON COMMUNITY RELATIONS AS REPORTED BY VARIOUS SUBPOPULATIONS

	Small School District	Medium Sized School District	Large School District	Totals
	X s	X s	X s	X s
Superintendent	9.80 7.93	10.0 0	10.0 4.82	9.82
	N=47	N=6	N=4	N=57
Elementary	11.26 7.45	13.50 6.47	10.71 8.86	11.43
Principal	N=42	N=6	N=7	N=55
Middle/Jr. High School	7.24 2.99	10.83 9.70	9.29 4.49	7.95
Principal	N=37	N=6	N=7	N=50
High School Principal	7.90 2.82	9.0 4.18	9.17 2.04	8.14
i i incipai	N=43	N=5	N=6	N=54
-	9.17	10.91	9.79	9.38 6.02
	N=169	N=23	N=24	N=216

PERCEIVED PERCENT OF TIME PRINCIPALS SPENT ON STUDENT RELATIONS . RESPONSIBILITIES AS REPORTED BY VARIOUS SUBPOPULATIONS

·	Small School District X s	Medium Sized School District X s	Large School Dis <u>t</u> rict X s	Totals - X s
Superintendent	28.13 18.33 N=47	15.0 5.47 N=6	17.50 6.45 N=4	26.0 N=57
Elementary Principal	25.90 11.48 N=42	15.17 5.87 N=6	13.57 6.26 N=7	23.16 N=55
Middle/Jr. High School Principal	28.08 14.47 N=37	40.0 18.97 N=6	14.85 6.98 N=7	27.65 N=50
High School Principal	25.56 N=43	13.0 9.70 N=5	20.0 17.32 N=6	23.77 N=54
	N=169	21.13 N=23	16.20 N=24	25.10 14.82 N=216

PERCEIVED PERCENT OF TIME PRINCIPALS SPENT ON EXTRACURRICULAR SUPERVISION AS REPORTED BY VARIOUS SUBPOPULATIONS

	Small School District X s	Medium S School D X S		Large School District X S	Totals X s
Superintendent	8.02 5.45 N=47	10.0 0	N=6	12.50 8.66 N=4	8.54 N=57
Elementary Principal	4.45 5.76 N=42	5.83 4.62	N=6	5.29 2.36 N=7	4.70 N=55
Middle/Jr. High School Principal	8.89 6.38 N=37	9.16 8.61	N=6	72.86 4.87 N=7	9.47 N=50
High School Principal	7.72 5.07 N=43	13.40 9.63	N=5	11.0 7.09 N=6	8.61 N=54
-	7.24 N=169	9.43	N=23	10.12 N=24	7.80 6.05 N=216

PERCEIVED PERCENT OF TIME PRINCIPALS SPENT ON PERSONAL/PROFESSIONAL DEVELOPMENT AS REPORTED BY VARIOUS SUBPOPULATIONS

	Small School District X s	Medium S School Di X s		Large School District X s	Totals - X s
Superintendent	5.06 3.10 N=47	.5.0 0	N=6	5.75 2.98 N≃4	5.10 N=57
Elementary Principal	4.80 3.38 N=42	9.67 4.96	N- <i>C</i>	6.43 3.77	5.53
	11-42		N=6	N=7	N=55
Middle/Jr. High School	5.86 3.58	5.83 2.04		3.29 1.79	5.49
Principal	N=37		N=6	N=7	N=50
High School Principal	5.46 4.11	4.0 2.23		1.67 1.96	4.90
	N=43	· 	N=5	N=6	N=54
-	5.27	6.21		4.21	5.25 3.52
	N=169		N=23	N=24	N=216

PERCEIVED PERCENTAGE OF TIME PRINCIPALS SPENT ON FACULTY RELATIONS AS REPORTED BY VARIOUS SUBPOPULATIONS

	Small School District	Medium Si School Dis		Large School District	Totals
	X s	χ s		X s	χ
Superintendent	16.09 11.27	6.57 2.58		13.75 4.78	14.93
	N=47		N=6_	N=4_	N=57
Elementary	15.14 6.67	18.33 11.25		13.57 9.44	15.28
Principal	N=42		N=6	N=7	N=55
Middle/Jr. High School	13.10 7.43	10.83 2.04		19.14 10.18	13.67
Principal	N=37		N=46	N=7	N=50
High School	14.67 8.27	15.0 14.57		11.76 8.10	14.37
Principal	N=43		N=5	N=6	N=54
	14.83	12.60	····	14.77	14.58
	N=169		N=23	N=24	8.78 N=216

PERCEIVED PERCENT OF TIME PRINCIPALS SPENT ON OTHER RESPONSIBILITIES AS REPORTED BY VARIOUS SUBPOPULATIONS

	Small School District X	Medium Sized School District X	Large School District X	Totals X
	S	S	S	
Superintendent	1.19 2.33 N=47	1.67 2.58 N=6	1.75 2.36 N=4	1.27 N=57
Elementary Principal	1.24 2.54	1.67 4.08	2.86 4.87	1.49
	N=42	N=6	N=7	N=55
Middle/Jr.	2.70 8.70	0 0	.57 .97	2.07
High School Principal	N=37	N=6	N=7	N=50
High School	1.53 4.56	0 0	8.67 8.98	2.67
Principal	N=43	N=5	N=6	N=44
	1.61	.87	3.45	1.74 4.92
	N=169	N-23	N=24	N=216

BIBLIOGRAPHY

BIBLIOGRAPHY

- Berman, Louise and Jessie Roderick, <u>Curriculum</u>: <u>Teaching</u>
 the <u>What</u>, <u>How</u>, <u>and</u> <u>Why</u> of <u>Living</u>, <u>Charles Merrill</u>
 Publishing Company Co., Columbus, Ohio, 1977.
- Bobbitt, Franklin, The Curriculum, Houghton Mifflin, Boston, 1918.
- Bobbit, Franklin, Curriculum Making in Los Angeles, Chicago: University of Chicago Press, 1922.
- Brookover, Wilbur et.al., "Elementary School Climate and School Achievement," College of Urban Development at Michigan State University; East Lansing, Michigan, 1976.
- Brookover, Wilbur and Lawrence Lezotte, "Changes in School Characteristics Coincide with Changes in Student Achievement," College of Urban Development at Michigan State University, East Lansing, Michigan, 1977.
- Callahan, Raymond, Education and the Cult of Efficiency:

 A Study of the Social Forces that Have Shaped the
 Administration of the Public Schools (Chicago:
 University of Chicago Press, 1962).
- Charters, W.W., <u>Curriculum</u> <u>Construction</u>, MacMillan, New York, 1923.
- Edmonds, Ronald, "Some School Work and More Can," <u>Social</u> <u>Policy</u>, pp. 16-20, March/April 1979.
- Franklin, Herbert, John Nickens and Sheila Alleby, "What Activities Keep Principals Busiest," University of Florida, Miami, 1979.
- Good, Carter and Douglas Scates, <u>Methods of Research</u> (New York: Appleton-Centruy, Crofts, Inc., 1954.
- Gorton, Richard and Kenneth McIntyre, The Senior High School Principalship, Volume II: The Effective Principal, National Association for Secondary School Principals, Reston, Virginia, 1978.

- Grant, Edward, "Priority-Performance Congruency in Eight Areas of Key Instructional Responsibility of Senior High School Principals," University of Texas at Auston, 1972.
- Howell, Bruce, "Profile of the Principalship," Educational Leadership, pp. 333-337, January, 1981.
- Jennings, James Maxwell, "The Elementary School Principalship in Michigan," Thesis for the Degree of Ph.D., Michigan State University, East Lansing, Michigan, 1972.
- Kintch, W., Learning, Memory and Conceptual Processes, Wiley, New York, 1970.
- Kliebard, Herbert, "Persistent Curriculum Issues in Historical Perspective," in William Pinar (editor)

 Curriculum Theorizing and the Reconceptualist,
 McCutchan, Berkeley, California, 1975.
- MacDonald, James, "Curriculum Theory as Intentional Activity," Paper delivered at Curriculum Theory Conference, Charlottesville, Virginia, October 1975.
- McIntyre, Kenneth, "Administering and Improviding the Instructional Program," Chapter 6 in Jack A. Culbertson, Curtis Henson and Ruels Morrison, eds., Performance Objectives for School Principals, McCutchin Publishing Corporation, Berkeley, California, 1974, pp. 152-159.
- Michigan Education Directory (1981), Michigan Education Directory, Inc., Lansing, Michigan.
- Michaelis, John, Ruth Grossman and Lloyd Scott; New Designs for Elementary Curriculum and Instruction, McGraw-Hill, Inc., New York, 1967.
- Parten, Mildred, Survey, Polls and Samples, Harper Company, New York, 1950.
- Snelbecker, Glenn, <u>Learning Theory</u>, <u>Instructional Theory</u>, and <u>Psychoeducational Design</u>, McGraw-Hill Book Company, New York, 1974.
- Taba, Hilda, Curriculum Development Theory and Practice, Harcourt, Brace and World; New York, 1962.
- Tankard, George, Curriculum Improvement: An Administrator's Guide; Parker Publishing Inc., West Nyack, New York, 1974.

- Tyler, Ralph, Basic Principles of Curriculum and Instruction; Chicago: University of Chicago Press, 1950.
- Unruh, Glenys, Responsive Curriculum Development;
 McCutchan Publishing Co., Berkeley, California, 1975.
- Ward, Ted, <u>Lecture Notes from Education 921: Curriculum Research</u>, Michigan State University, East Lansing, Michigan, April 1980.
- Whitney, Fredrick Lawson, The Elements of Research, Prentice Hall, Inc., New York, 1950.