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.



` . , Tharpe, Frances R.

A COMPARATIVE ANALYSIS OF NEEDS AND ATTITUDES OF HOME ECONOMICS TEACHERS IN NORTH CAROLINA WHO DID AND WHO DID NOT ATTEND THE 1983 VOCATIONAL SUMMER WORKSHOP IN RELATION TO INSERVICE EDUCATION

The University of North Carolina at Greensboro

Рн.D. 1984

University
Microfilms
International 300 N. Zeeb Road, Ann Arbor, MI 48108



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

gent seed to be

A COMPARATIVE ANALYSIS OF NEEDS AND ATTITUDES OF HOME ECONOMICS TEACHERS IN NORTH CAROLINA WHO DID AND WHO DID NOT ATTEND THE 1983 VOCATIONAL SUMMER WORKSHOP IN RELATION TO INSERVICE EDUCATION

by

Frances R. Tharpe

A Dissertation Submitted to
the Faculty of the Graduate School at
The University of North Carolina at Greensboro
in Partial Fulfillment
of the Requirements for the Degree
Doctor of Philosophy

Greensboro 1984

Approved by

issertation Advise

APPROVAL PAGE

This dissertation has been approved by the following committee of the Faculty of the Graduate School at The University of North Carolina at Greensboro.

Dissertation Adviser Miland B. Shusw

Committee Members Rawan Clausen Committee Members Rawan Clausen Chargan

March 29 /984
Date of Acceptance by Committee

ACKNOWLEDGMENTS

The writer wishes to express sincere appreciation to Dr. Mildred Johnson, her adviser, for the valuable time, constant support, encouragement, and guidance that were given throughout the program of graduate study and the research study;

To Dr. Barbara Clawson, Dr. Mary Morgan, and Dr. Joseph Bryson, who gave encouragement during the graduate program and provided helpful suggestions for the study;

To each of the teachers who gave their time to complete the survey instrument;

To Regional Vocational Coordinators who assisted in sending follow-up letters to teachers selected to participate in the study;

To Mrs. Jane Purvis and the Business and Office Education Students at North Wilkes High School for assistance in typing;

To Mr. Bill Reins and Lowe's Companies, Incorporated for assistance in reproducing the survey instrument;

To Mr. Harvey Settle and Nu Line Printing Company for reproducing the manuscript;

To Mrs. Robin Panneton and the Statistical Consulting Center, Department of Mathematics, University of North Carolina at Greensboro, for statistical consultation and programming assistance for the research;

To Mrs. Elizabeth Hunt for her excellent work in typing this manuscript;

To the writer's parents, Willie and Eula Roope, and children, Charles, Lea Ann, and Greg Tharpe, for their sacrifices and support throughout the graduate program.

DEDICATION

This dissertation is dedicated to my husband, Oliver G. Tharpe.

TABLE OF CONTENTS

														Page
APPROVAL	PAGE					•		•	•	•	•	•	•	ii
ACKNOWLE	DGMENTS .					•	• , •	•		•	•	•	•	iii
LIST OF	TABLES					•			•			•	•	viii
CHAPTER														
I.	INTRODUCT	ION .				•		•	•	•		•	•	1
	Stateme	nt of	the	Prol	olem	٠.							•	3
	Hypothe	ses .				•		•	•		•	•	•	4
	Assumpt	ions.											•	5
	Limitat													6
	Definit:													6
		1011 01			• •	•	• •	•	•	•	•	•	•	·
II.	REVIEW OF	RELA	red L	ITE	RATU	RE		•	•	•	•	•	•	8
	Inservi	ce Edi	ıcati	on a	and	the	Ne	eds	. 0	f				
	Teach							_	_	_	_	_	_	9
	Attitud		-	-		-	Edu	a+	io	n	-	_	_	15
	Types of													20
	Topics :													25
	Summary		• •	• •	• •	•	• •	•	•	•	•	•	•	38
III.	DESIGN OF	THE S	TUDY	•		•		•	•	•		•	•	40
	Coloati	on of	Cubi	~~+	-									40
	Selection													
	Instrume													41
	Data Co													44
	Data Ana	alysis	5	• •	• •	•	• •	•	•	•	•	•	•	45
IV.	ANALYSIS (OF DAT	ra .			•		•		•		•	•	46
	7 Doggw		. af	Doar	222	~~ +	a b	, D	<u>~</u>	~~	~~;	_ h	÷ ~	
	A Descr:					en c	S D	y L	em	υg.	r al	Ρıι	TC.	40
	Varial	ores.		• •	• •	•	• •	•	•	•	•	• .	•	48
	Test of	Hypot	chese	s.		•		•	•	•	•	•	•	55
	A Descri	iption	of	the	Res	pon	dent	ts'	E	xp:	res	SS	ed	
	Adequa	acy of	Ins	ervi	.ce	Edu	cat:	ion	P	ro	gra	am	s	75
V.	SUMMARY A	ND IM	PLICA	TIO	NS .	•		•	•		•	•	•	76
	Madas E													78
	Major F Hypothe	T1107111		. •	• •	•	• •	•	•	•	•	•	•	
	Typotne	ses 10	estea		• •	•	• •	•	•	•	•	•	•	83
	Implica	tions		• •	• •	•		•	•	•	•	•	-	87
	Inser	vice 1	Educa	tio	n Pr	ogr	ams	•					•	87
	Furth													89
				- •	•	-	- •	-	-	-	-	-	-	
BIBLIOGR	APHY											_		91

TABLE OF CONTENTS (continued)

			Page
APPENDIX	A	QUESTIONNAIRE	96
APPENDIX	В	COVER LETTER	101
APPENDIX	С	FOLLOW-UP LETTER	103
APPENDIX	D	FOLLOW-UP LETTER	105
APPENDIX	Е	NUMBER AND PERCENTAGE OF RESPONSES TO STATEMENTS ABOUT INSERVICE EDUCATION BY TEACHERS WHO ATTENDED AND WHO DID NOT ATTEND VOCATIONAL SUMMER WORKSHOP	107
APPENDIX	F	NUMBER AND PERCENTAGE OF RESPONSES TO PREFERENCE OF TYPES OF INSERVICE EDUCATION OPPORTUNITIES BY TEACHERS WHO ATTENDED AND WHO DID NOT ATTEND VOCATIONAL SUMMER WORKSHOP	112
APPENDIX	G	NUMBER AND PERCENTAGE OF RESPONSES TO PREFERENCE FOR POSSIBLE TIME PERIODS FOR ACADEMIC CREDIT INSERVICE EDUCADION PROGRAMS BY TEACHERS WHO ATTENDED AND WHO DID NOT ATTEND VOCATIONAL SUMMER WORKSHOP	117
APPENDIX	H	NUMBER AND PERCENTAGE OF RESPONSES TO PREFERENCE FOR POSSIBLE TIME PERIODS FOR NONACADEMIC CREDIT INSERVICE EDUCATION PROGRAMS BY TEACHERS WHO ATTENDED AND WHO DID NOT ATTEND VOCATIONAL SUMMER WORKSHOP	121
APPENDIX	I	NUMBER AND PERCENTAGE OF RESPONSES TO PREFERENCE OF TOPICS TO BE INCLUDED IN INSERVICE PROGRAMS (CURRICULUM CONTENT) BY TEACHERS WHO ATTENDED AND WHO DID NOT ATTEND SUMMER VOCATIONAL WORKSHOP	125
APPENDIX	J	NUMBER AND PERCENTAGE OF RESPONSES TO PREFERENCE OF TOPICS TO BE INCLUDED IN INSERVICE EDUCATION PROGRAMS (TEACHER ACTIVITIES) BY TEACHERS THO ATTENDED AND WHO DID NOT ATTEND SUMMER VOCATIONAL	100
		WORKSHOP	129

TABLE OF CONTENTS (continued)

		Page
APPENDIX K	NUMBER AND PERCENTAGE OF RESPONSES TO PREFERENCE OF TOPICS TO BE INCLUDED IN INSERVICE EDUCATION PROGRAMS (PROFESSIONAL CONCERNS) BY TEACHERS WHO ATTENDED AND WHO DID NOT ATTEND VOCATIONAL SUMMER WORKSHOP	137

LIST OF TABLES

		Page
Tabl	e	
1	Description of Teachers Who Attended and Who Did Not Attend Vocational Summer Workshop by Demographic Variables	49
2	Titles of Courses Taught by Teachers Who Attended and Who Did Not Attend Vocational Summer Workshop	54
3	Chi Square Analysis of Statements About Inservice Education	58
4	One-Way Analysis of Variance Between Teachers Who Attended and Who Did Not Attend Voca- tional Summer Workshop and Variables Per- taining to Inservice Education	59
5	Chi Square Analysis of Preferences for Types of Inservice Education Opportunities	61
6	Chi Square Analysis of Preferences for Possible Time Periods by Teachers Who Attended and Who Did Not Attend Vocational Summer Workshop for Academic Credit Inservice Education Programs .	63
7	Chi Square Analysis of Preferences for Possible Time Periods for Nonacademic Credit Inservice Education Programs	65
8	Relationships Between Needs and Demographic Variables	69
9	Relationships Between Attitudes and Demographic Variables of Teachers Who Attended and Who Did Not Attend Vocational Summer Workshop	74

THARPE, FRANCES R., Ph.D. A Comparative Analysis of Needs and Attitudes of Home Economics Teachers in North Carolina Who Did and Who Did Not Attend the 1983 Vocational Summer Workshop in Relation to Inservice Education. (1984) Directed by Dr. Mildred B. Johnson. 140 pp.

The purpose of this study was to compare the needs and attitudes of home economics teachers in relation to inservice education. Two groups of teachers were randomly selected to participate in the study: (a) teachers who attended the 1983 Vocational Summer Workshop and (b) teachers who did not attend the 1983 Vocational Summer Workshop. Subjects from each of the two groups included home economics teachers from each of the eight educational regions of the public schools in North Carolina. A questionnaire was mailed to the 184 teachers selected for each group. Data for the study were obtained from 120 teachers who attended the workshop and 78 teachers who did not attend the workshop.

There were significant differences between the two groups and their attitudes about inservice education. Home economics teachers who attended the vocational workshop tended to be more positive in their attitudes concerning the benefits of inservice education programs and participation in inservice programs.

In responses to needs for inservice programs, teachers who attended were more willing to participate in on-campus college or university classes or programs for inservice education than were teachers who did not attend. Teachers who did not attend the workshop were less willing to

participate in inservice programs during summer time periods than were those teachers who attended the workshop. No significant differences were found between the two groups of teachers and their preference for topics to be included in inservice programs.

For teachers who attended the workshop, significant relationships were shown between preference for types of inservice opportunities and number of vocational workshops attended, and between preference for academic credit inservice programs and number of years teaching experience. There were significant relationships between preferences for academic credit inservice programs and marital/parental status, and between preference for nonacademic credit programs and number of vocational workshops attended among teachers who did not attend the 1983 Vocational Summer Workshop.

CHAPTER I

INTRODUCTION

Today, inservice education programs are more important than ever before (Byrne, 1983). In this era of rapidly developing technology and prolific accumulation of knowledge there have been ever increasing changes which have stimulated a greater need for continued teacher education (Romano, 1977).

Recent research supports the idea that teachers should be actively involved in development and direction of inservice programs (Christensen & Burke, 1982; Williamson & Elfman, 1982). Involvement of the teacher is important for making inservice programs work effectively in meeting individual teacher needs and meeting objectives of the school system (Byrne, 1983).

Much has been written about the necessity of inservice education programs to be based on the needs that teachers themselves perceive (Baden, 1980; Burrello & Orbaugh, 1982; Crabtree & Hughes, 1969; Edelfelt, 1974; Hughes & Dougherty, 1977; Johnson, 1967; Marshall, Maschek, & Caldwell, 1982; Rynor, Shanker, & Sandefur, 1970). A study of needs assessment of K-12 teachers from a suburban Missouri school district showed that the perceived needs of individual teachers changed from year to year, but that the overall pattern of

needs for large groups of teachers was relatively stable (Marshall et al., 1982). Although the general inservice training priorities of 722 teachers remained constant over a 15-month period, individual teachers' perceived needs showed considerable variation. Based on these findings, Marshall et al. (1982) suggested that assessment of teachers' inservice training needs in general areas such as discipline techniques and planning for basic skills instruction were stable enough to allow long term planning of inservice training programs without repeating the assessment each year. It was recommended, however, that needs assessment be repeated at least once a year for inservice programs designed for specific groups of teachers.

Hughes and Dougherty (1975) stated that inservice programs for home economics teachers should be designed to keep teachers abreast of knowledge and procedures that would increase their personal growth and competence for the improvement of instruction. Inservice education programs for home economics teachers should meet needs as expressed by teachers.

A search of literature indicated that there have been no comprehensive studies done in North Carolina to determine the needs of home economics teachers in relation to inservice education. Specific information about the needs and attitudes of home economics teachers could be invaluable for those responsible for planning effective inservice education programs in North Carolina.

The North Carolina State Department of Public Instruction requires that teaching certificates be renewed every five years. In order to meet this requirement, teachers may obtain credits by participating in various types of inservice education programs and activities. Teachers may attend classes, workshops, seminars, and conferences sponsored by colleges and universities, the State Department of Public Instruction, the local educational agency, or professional organizations. Teachers may also attend professional meetings or participate in approved educational travel. With the availability of these inservice opportunities, it seems, therefore, that a need exists for development and use of instrumentation to determine individual needs and attitudes of specific groups of teachers in North Carolina.

Statement of the Problem

The major purpose of this study was to compare the perceived educational needs and the attitudes of home economics teachers who did and who did not attend the 1983 Annual Vocational Summer Workshop in relation to inservice education. The specific objectives were to

- Determine the perceived educational needs of home economics teachers in relation to inservice education based upon the following:
 - (a) types of inservice education programs preferred by home economics teachers;

- (b) the time preference of home economics teachers for inservice education programs;
- (c) the preferred topics designated by home economics teachers for inservice education.
- Determine the perceived adequacy of inservice education programs in which home economics teachers have previously participated.
- 3. Compare the attitudes and needs of home economics teachers in relation to educational background, teaching experience, and selected personal characteristics.
- Compare and analyze the data by state and regional areas.
- 5. Make recommendations based on the findings of the study.

Hypotheses

Based upon the problem statement, the following hypotheses were formulated:

- H₁ There is no significant difference between teachers who did and who did not attend the 1983 Vocational Summer Workshop and their
 - (a) attitudes about inservice education
 - (b) preference of types of inservice education opportunities
 - (c) time preference for academic inservice education programs
 - (d) time preference for nonacademic inservice education programs
 - (e) preference of topics for inservice education programs

- H₂ There is no significant relationship between the perceived needs of teachers who attended or who did not attend the 1983 Vocational Summer Workshop and their
 - (a) number of years teaching experience
 - (b) educational level
 - (c) marital status
 - (d) parental status
 - (e) plans to pursue graduate study
 - (f) school responsibilities other than teaching
 - (g) number of vocational workshops attended
- H₃ There is no significant relationship between attitudes about inservice education of teachers who attended or who did not attend the 1983 Vocational Summer Workshop and their
 - (a) number of years teaching experience
 - (b) educational level
 - (c) marital status
 - (d) parental status
 - (e) plans to pursue graduate study
 - (f) school responsibilities other than teaching
 - (g) number of vocational workshops attended

Assumptions

The major assumptions of this study were that a need exists for inservice education programs, and that teachers can improve professional competence through inservice education programs and activities. It was further assumed that

teachers differed in their needs and attitudes and that teachers were willing to indicate their needs and attitudes toward inservice education.

Limitations

This study was limited to home economics teachers who were listed as employed in the public school system in the state of North Carolina during 1982-83. Because of differentiated types of inservice education programs and activities that may be implemented in other states, the findings from the study could be generalizable only to inservice education of home economics teachers in the state of North Carolina.

Definition of Terms

The following terms were defined for the purpose of maintaining clarity and consistency within the study:

<u>Inservice education</u>—a procedure for the improvement of instruction and for increasing competence and professional growth of employed personnel.

Region -- a geographical area responsible for assisting teachers in public schools which is governed by the State Department of Public Instruction.

North Carolina State Department of Public Instruction-the state agency assigned the responsibility for the K-12
educational system.

Home economics teacher -- an individual who is employed to teach Consumer and Homemaking or Occupational Home Economics courses in the public school system.

Consumer and homemaking courses—courses designed to meet current socioeconomic concerns of families and individuals in preparation for the dual role of homemaker/wage earner.

Occupational home economics courses—courses built upon the basic concept of a career ladder within a home economics related cluster of occupations.

Vocational summer workshop--a 4-day workshop held annually by the Home Economics Section, Division of Vocational Education of the North Carolina State Department of Public Instruction as an inservice education opportunity for home economics teachers. One credit is awarded toward certificate renewal for teachers who attend 80% of the sessions if requested.

Attitudes—opinions of home economics teachers representative of their thoughts or convictions in relation to inservice education.

<u>Needs</u>--desires of home economics teachers for certain time periods, types of activities, and topics for inservice education programs which they perceive as useful or as a necessity for improving instruction and increasing competence.

CHAPTER II

REVIEW OF RELATED LITERATURE

The major purpose of this study was to compare the needs and attitudes of home economics teachers in relation to inservice education. Much has been written about inservice education. Orlich (1983) reported that an Educational Resources Information Clearinghouse (ERIC) computer search conducted in May 1980 resulted in the identification of 9,183 published and unpublished papers, studies, and articles having the terms "inservice teacher education," "staff development, " or "staff improvement" in their titles or descriptors. Between 1976 and September 1981, there were 6,151 articles alone that appeared in the literature about those related topics. Orlich (1983) stated that much of the material was nonempirical and nongeneralizable. Brimm and Tollett (1974) reported that the literature revealed few research efforts that had been undertaken to determine the types of inservice programs which would be most beneficial to teachers as they carry out their classroom duties.

Smoak (1981) described a needs assessment that was conducted in South Carolina to determine training and professional development needs of vocational teachers. All vocational teachers were surveyed (except trade and industrial teachers who were surveyed earlier) utilizing a rating sheet listing

72 skills in the areas of instruction, testing and evaluation, classroom management, cooperative education, special needs services, student placement, and administrative needs. It was stated that the findings from the study would be used by the South Carolina Office of Vocational Education to plan future inservice programs for vocational education teachers.

Two research studies conducted specifically with home economics teachers to determine their needs for and attitudes toward inservice education were identified in an ERIC computer search conducted in June 1983. Results of one of these studies conducted with teachers in Missouri were reported by Crabtree and Hughes (1969), and the other study conducted with teachers in Wisconsin was reported by Hughes and Doughterty (1975, 1977).

The review of literature for this study will be presented in four parts. These include (a) inservice education and the needs of teachers, (b) attitudes toward inservice education, (c) types of inservice activities, and (d) topics for inservice education.

Inservice Education and the Needs of Teachers

The need for effective inservice education programs has never been greater (Byrne, 1983; Rottier, 1983). A need is generated for inservice education because teacher education is in a constant state of change with old ideas being discarded and replaced in addition to the expanding and building upon current ideas with new information (Roth, 1975).

Harris (1980) stated that inservice education was to the operation of the school as good eating habits and a balanced diet were to human growth and vitality.

Wood and Thompson (1980) said that most inservice programs have been irrelevant, ineffective, and a waste of time and money. Inservice programs have been poorly implemented because of inadequate needs assessment and unclear objectives (Wood & Thompson, 1980).

Baden (1980) identified five perceptions of present inservice programs. The perceptions were that inservice programs have been (a) planned in a disjointed fashion with little or no continuity from one program to another, (b) planned by either administrators or an administratively selected teacher committee with little input from all potential participants, (c) implemented without the setting of specific objectives and with topics which lend themselves to only shallow discussion of current topics in education, (d) conducted with too little or no follow-up provided to support any of the new ideas generated by the inservice programs, and (e) seen rarely by participants as resulting in changing their classroom instruction and procedures.

Edelfelt (1977) stressed that inservice education should be directly related to curriculum development and instructional improvement. Thus, programs should be based on the needs of teachers and their students (Burrelo & Orbaugh, 1982; Byrne, 1983; Crabtree & Hughes, 1969; Edelfelt, 1977; Hughes & Dougherty, 1975; Johnson, 1967; Tyler, 1971).

Rottier (1983) stated that often all teachers are subjected to the same inservice programs regardless of age, experience, and whether they need or do not need the inservice. Teachers from a given school or district come from a variety of educational institutions which have provided teachers with a unique set of experiences. When this background of experiences is combined with experience gained from teaching, whether in the same school district or in another district, it is easy to see why teachers do not have the same inservice needs (Rottier, 1983). Although beginning teachers need inservice programs and activities (Rader, 1961), the needs of beginning teachers are significantly different from experienced teachers (Rottier, 1983).

Teachers are trained to identify individual differences in student needs but this same educational principle is ignored when inservice activities are planned for teachers (Meers, 1981). Rottier (1983) advocated that inservice programs need to be as individualized as the instructional programs that are suggested to be given to elementary and secondary students. Individualizing inservice education means that the needs of each teacher are assessed and a personal program of professional development is designed cooperatively by the teacher and the administrator of the inservice activity (Rottier, 1983). Too often, however, managers of inservice programs make decisions without systematic assessment of needs or preferences of the teachers in such programs

(Auton, Deck, & Edgemon, 1982). Hanson (1980) expressed that if the teacher has identified a goal for an inservice program, the price and sacrifice that must be made to implement the program is never too great.

Crabtree and Hughes (1969) reported a study conducted with home economics teachers in Missouri in which teachers expressed their needs in relation to inservice education. A questionnaire was sent to the total population of 838 home economics teachers in the state. Seven hundred fifty teachers responded to the questionnaire which gave information on personal background, beliefs about inservice education, preferred types of programs, desired time periods and length of programs, desired topics, sources used for instructional content, and evidence of possible participation in inservice programs. Results of the study showed that Missouri home economics teachers believed that inservice programs were not meeting their needs. The most highly desired types of programs were workshops for home economics teachers and offcampus college courses for graduate credit. Teachers indicated 1 day, 2 to 6 days, and 1 week as the most desired length for programs. Subject-matter areas, trends, and new methods and techniques were the most desired topics.

A similar study was conducted to determine needs of home economics teachers in Wisconsin (Hughes & Dougherty,

1977). A Likert-type 10-point instrument was constructed to measure the variables which included attitudes about inservice education, types of inservice opportunities, possible time periods, and topics to be included in inservice programs (Hughes & Dougherty, 1977). The instrument was mailed to the entire population which consisted of 1278 Wisconsin secondary home economics teachers. Also included in the study were an estimated 1430 Vocational, Technical, and Adult Education postsecondary teachers of home economics related areas in Wisconsin. Responses were received from 86% of the public school population and from approximately 55% of the Vocational, Technical, and Adult Education teachers (Hughes & Dougherty, 1975).

The data were classified according to frequency of responses using percentages and means. The statements which received the highest mean values in relation to attitudes about inservice education were that teachers thought they should be responsible for updating subject matter knowledge and for sharing information or materials with colleagues (Hughes & Dougherty, 1977).

Teachers indicated that their highest desire for types of activities were workshops dealing with common concerns of home economics faculty within a district, observation of other school systems and educational programs, workshops for academic credit, regional workshops for teachers of home economics subjects, and use of mobile information centers.

Short time periods were preferred for the inservice activities (Hughes & Dougherty, 1977).

The most preferred topics for inservice in curriculum areas were consumer education, clothing and textiles, and related art. Student motivation, innovative methods, use of audio-visual aids, and curriculum development were the preferred topics in regard to teacher activities. Of the topics relating to professional concerns teachers indicated a preference for recent trends in home economics, legislation affecting home economics, and leadership development (Hughes & Dougherty, 1977).

Teachers should be actively involved in determining their own inservice needs from the very beginning (Williamson & Elfman, 1982). Marshall et al. (1982) recommended that specific groups of teachers be given an opportunity to express their needs for inservice education programs at least once a year. Inservice programs based on identified needs are adaptable to change in curriculum, personnel, and both internal and external conditions (Burrello & Orbaugh, 1982). In an interview with 102 teachers from Grades K-12 and from urban, rural, and suburban Michigan school districts, Holly (1982) found that the single most important factor that determined the value teachers placed on inservice education was its personal relevance.

Spillane (1982) stated that during the next 10 or 20 years, inservice education would be much more significant

than the education of new teachers. Because of declining enrollments and shrinking resources (Miller, 1977), the opportunities to add new positions and new teachers have virtually disappeared (Byrne, 1983). With fewer beginning teachers and less mobility among teachers, there is less staff diversity and new ideas because of lack of changeover (Byrne, 1982; Jensen, Betz, & Zigarmi, 1978). Jensen et al. (1978) stated that teaching in the future would be more dependent on inservice education programs.

In order to be effective in meeting needs of teachers, inservice programs should be continuous and should be subjected to continuous evaluation and follow-up (Jensen et al., 1978). The recipient should be involved in the evaluation (Edelfelt, 1977). Evaluation of inservice programs is important for providing feedback that can be used to determine needs, plan programs, revise activities, and judge impact (Orlich, 1983). Evaluation should be both formative and summative and should examine the immediate effect on the participants, the extent of transfer to the work setting, and the effect on achieving institutional goals (Dillon-Peterson, 1981; Smith & Woeste, 1983).

Attitudes Toward Inservice Education

A study was conducted with teachers from each of the 147 school districts in Tennessee to identify types of inservice education in use and to ascertain teacher attitude

toward inservice education programs. A stratified proportional sampling procedure was used which included 2% of the teachers from each district (Brimm & Tollett, 1974).

Six hundred forty-six teachers or 65% of the sample responded to the instrument, "Teacher Attitude Toward Inservice Education Inventory." The inventory included a series of 34 statements about inservice education programs. Respondents reacted to each statement using a Likert-type scale with response categories from strongly agree to strongly disagree. Eighty-nine percent of the teachers participating in the study agreed or strongly agreed in their response to the item, "The teacher should have the opportunity to select the kind of inservice activities which he/she feels will strengthen his professional competence." This suggested that most teachers preferred individualized inservice education programs. A further endorsement for individualization of inservice education was the fact that 96% of the teachers agreed with the statement, "Inservice programs must include activities which allow for the different interests which exist among individual teachers" (Brimm & Tollett, 1974).

Seventy-six percent of the teachers agreed that attendance at system-wide inservice activities was desirable and should be required of all teachers. This finding suggested that teachers still wanted some group inservice programs. Fifty-five percent of the respondents preferred that most inservice group activities be conducted in their own school

setting. Eighty-six percent of the teachers thought that they should be given release time for inservice education activities (Brimm & Tollett, 1974).

Ninety percent of the teachers strongly agreed that one of the primary purposes of inservice education should be to help the teacher improve classroom performance. Eighty-seven percent of the teachers agreed that inservice activities should provide the opportunity to become acquainted with new teaching techniques and innovative programs (Brimm & Tollett, 1974).

Seventy-three percent of the respondents said that inservice activities too often did not appear relevant to any perceived needs of the teacher. Forty-four percent of the teachers thought that inservice programs were not well planned. Only 34% believed that inservice programs were planned based on an assessment of needs and problems of teachers, and only 27% thought that the objectives of inservice programs in their local system were specific. Therefore, it was not surprising that a majority of the teachers agreed that most inservice programs were virtually useless, and 63% agreed that most teachers did not like to attend inservice activities (Brimm & Tollett, 1974).

Teachers in this study did not think that inservice programs were weak because of lack of financial support.

Only 29% agreed that inservice programs suffered from lack of financial support needed to implement them (Brimm & Tollett, 1974).

Ninety-three percent of the teachers surveyed thought that teachers should be involved in the development of purpose, activities, and evaluation of inservice education programs. Only 13% of the teachers agreed that there was adequate follow-up of inservice activities to determine the effectiveness and whether objectives had been met. More than 75% of the respondents agreed that involvement of teachers in planning and evaluating inservice programs would foster greater commitment on the part of their colleagues for inservice education programs (Brimm & Tollett, 1974).

Jensen et al. (1978) reported that in a study of South Dakota teachers' attitudes toward inservice education 97% of the respondents indicated that teachers should have a major voice in program planning. Only 39% of the teachers thought that inservice education programs planned by administrators were useful or very useful, but 56% thought that inservice programs planned by teachers were useful or very useful. Fifty-nine percent of the teachers who participated in the study agreed that inservice activities planned together by teachers and administrators were useful or very useful.

Eighty-five percent of the teachers included in the study indicated that efforts to gain financial support for inservice activities should be given a high priority. However, 90% of the respondents thought that lack of money and time were important obstacles to the success of inservice education programs (Jensen et al., 1978).

Sharma (1982) stated that those in charge of inservice programs (a) made decisions for teachers, (b) decided when to bring teachers together, (c) assumed that injections of information they selected would be helpful to all teachers regardless of the individuals' needs, (d) assumed that teachers had too narrow a perspective, (e) assumed teachers' opinions were not valid, and (f) assumed that a direct and measurable outcome must result from inservice training. Sharma's attitude toward inservice education indicated that teachers should be in charge of their own training and that they should not be mechanically or forcibly inserviced. was further stated that teachers should be the professionals that they thought they had become when they received their Teachers should be allowed to set their own goals and decide when, how, and with whom they would work toward these goals. Teachers should control their own learning (Sharma, 1982).

Despite the shortcomings of inservice education programs and the negative comments that teachers have made concerning their inservice experiences, teachers still desire to take part in professional development (Edelfelt, 1974; Holly, 1982). Holly (1982) further stated that those in charge of designing effective inservice programs that teachers will use must involve teachers in planning, implementing, and evaluating the programs and should foster collegial sharing of information and ideas among teachers.

Types of Inservice Activities

A variety of types of inservice activities should be provided for teachers (Jensen et al., 1978). In a study with South Dakota teachers regarding their preference for types of inservice activities, findings showed that teachers preferred assistance from other teachers, workshops on a college campus, and observation of other teachers (Jensen et al., 1978).

In an interview with 102 teachers in Michigan, Holly (1982) found that the teachers preferred activities that allowed them to work with other teachers. Auton et al. (1982) said that teachers working together on carefully designed and organized inservice activities could unlock hidden or underdeveloped talents. When teachers interviewed by Holly (1982) were asked how they would spend their time if given 10 free hours a week for personal development, they indicated that they would divide the time among professional reading, planning and evaluating curriculum, and observing other teachers' classrooms.

Rogus (1983) said that the most effective activities with adults were those that allowed for learning by doing, particularly when provision was made for participants to (a) select the conditions for learning, (b) address immediate practical problems, (c) develop their own principles, and (d) try out their principles in the work setting. Rogus (1983) also suggested that since adults learned best where

social interactions took place that inservice programs could best take place in the normal work setting.

Mazzarella (1982) and Burrello and Orbaugh (1983) also stated that inservice activities should occur at the school site. Teachers in the field tend to be more influenced by school-oriented inservice programs than by college or university courses (Orlich, 1983). Hall, Benninga, and Clark (1983) said that the on-site location encouraged attendance by teachers and reduced the anxiety of returning to their own learning environment.

Inservice activities should be designed so that they are an integral part of the total school program and should be supported by both district and local administrators (Burrello & Orbaugh, 1983). Luke (1980) stressed the importance of administrators and teachers working together to plan inservice programs. The building principal should be involved in the inservice program if it is to be successful, but he should not take full responsibility (Mazzarella, 1982).

Andrew (1983) reported that middle-grade teachers at Lincoln Elementary School in Evansville, Indiana, expressed an interest in a teacher-directed inservice education program. After a preliminary needs assessment, two professors of teacher education were hired as consultants. The principal met with the participating teachers and the university consultants to report that the consultants were available during school hours to assist the teachers in whatever inservice

projects they jointly agreed upon. The principal then gave control to the teachers and consultants to generate ideas for inservice activities. The principal's willingness to assume a minimal role, to allow the teachers to take charge, and to give the consultants free access to the teachers during school hours were essential elements to the success of the inservice program (Andrew, 1983).

The consultants and teachers became involved in a variety of activities during the school year. The consultants helped organize field trips, developed scope and sequence charts, observed instruction, demonstrated techniques, served as instructional models, tested individual students, and conferred informally with the teachers. This format of an inservice program allowed continuous change and growth which met the needs of particular teachers in particular settings. Opportunities for demonstrating or modeling concrete skills were available since the inservice activities were conducted in the school setting, during school hours, and while classes were in session. Ongoing inservice activities were possible because the consultants were given a renewed contract (Andrews, 1983).

Jensen et al. (1978) stressed that a variety of resource persons should be utilized in inservice education activities. Resources could include local persons, fellow teachers, college and university personnel, professional consultants, professional journal authors, state agency personnel, teacher

organization representatives, and school administrators. King, Hayes, and Newman (1977) indicated that suggestions from resource persons for effective inservice activities were helpful, but that the most successful programs emphasized suggestions from the inservice recipients.

Auton et al. (1982) said that the workshop as an inservice approach enabled the administrator to utilize a set of resources often overlooked—the teachers themselves. According to Myers (Moffitt, 1963), the first organized workshop was conducted at Ohio State University in 1936. By 1951 the workshop as a device for inservice education had extended throughout the United States (Moffitt, 1963).

Parker (1972) reported a research study which could be of interest to those concerned with inservice teacher education, and the utilization of teachers in inservice programs. The research investigated the feasibility of using opinion leaders to introduce new ideas in vocational homemaking.

The study was conducted with three vocational homemaking regional groups in Ohio, and consisted of 124 vocational homemaking teachers and three regional supervisors. Data were collected by group interviews from all members who attended the vocational homemaking regional conferences and by mail from those who did not attend the conferences. Information about personal, social, and professional characteristics of vocational home economics were identified through administration of a five-part questionnaire (Parker, 1972).

Teachers identified opinion leaders by the sociometric Sociometric scores were determined by the number of times an individual teacher was identified by the homemaking teachers surveyed as a source of information about a program in consumer education, programs for youth with special needs, or the use of media and innovations. Supervisors identified opinion leaders by utilizing the key informant technique. The technique involved the assessment and ranking of each teacher according to the degree of influence the teacher had over other teachers in the region in areas of consumer education, youth with special needs, and use of media and innovations. Relationships were measured using Spearman rank correlations. The Kolmogerov-Smirnov and Chi-Square statistics tested significance at the .05 level (Parker, 1972).

The research findings indicated that vocational homemaking teacher opinion leaders could be identified by both
the key informant and the sociometric technique. The correlation coefficient .9166 was significant at the .05 level.
Those teachers who were identified as opinion leaders were
found to have more experience, education, leadership qualities,
and participation in organizations (Parker, 1972).

Regardless of the type of inservice activity, the experience must have been meaningful, successful, and significant, if it were of value to the teacher (Hall et al., 1983). The activity must have dealt with issues, skills, or situations

that were meaningful; it must have been planned for in such a way that the teacher had a successful experience; and it must have facilitated an attitude shift toward acceptance of a full spectrum of abilities in students if the activity were significant (Hall et al., 1983).

Incentives should be provided to encourage teachers to participate in inservice activites (Jensen et al., 1978).

Ten incentives suggested by Orlich (1983) were (a) giving released time during the school day, (b) giving options for team teaching in a specific project, (c) providing travel funds to attend professionally related conferences, (d) giving recognition such as awarding a certificate at a school board meeting, (e) giving recognition in the local news media, (f) increasing responsibility in the school's program, (g) establishing a promotion policy to recognize leadership in special projects, (h) providing stipends to attend special or relevant summer session workshops or classes, (i) arranging for presentation of a paper at a professional meeting, and (j) providing credit for advanced degrees.

Topics for Inservice Education

In 1977, vocational home economics state staff members in Ohio participated with the Ohio Department of Welfare in a special project to test curriculum modules which dealt with reporting, referral, treatment, and prevention of child abuse and neglect as required by Ohio law. The vocational state staff selected a minimum of one home economics teacher in

each of the 21 counties to participate in 5-day sessions which also involved teams from other disciplines including social work, law enforcement, medical, and mental health (Price, 1978).

The first sequence of training sessions included identification of all types of abused and neglected children; community agency responsibilities for reporting, investigating, case planning and referrals; and the role of the courts. The second sequence centered on specialized training for each of the five disciplines. Educator participants were asked to make recommendations to enforce the law which could be submitted to the Superintendent of Public Instruction requesting his support and leadership to the local school districts. All participants worked toward planning a local, coordinated response system for child abuse and neglect cases (Price, 1978).

After completion of the special project, vocational home economics teachers and state staff members conducted inservice training sessions for vocational home economics teachers in 19 regions to extend the information about child abuse and neglect. Teachers who attended the inservice training programs had an opportunity through work sessions to become acquainted with child abuse and neglect supplements that were written to accompany secondary curriculum guides for consumer homemaking and job training and obtained a variety of materials to supplement classroom instruction (Price, 1978).

A group of home economics teachers in Georgia participated in an inservice training program focused on helping teenage parents. The program was developed by the Georgia State Departments of Education and Human Resources. After participation in the training, teachers taught physiology, parenthood, nutrition, and consumer education to pregnant teenagers and school-age parents (Register & King, 1978).

Clothing services workshops were conducted for 40 home economics teachers in Pennsylvania. The major purpose of the workshops was to help teachers update their knowledge and skills in clothing related services. Four specific objectives were to (a) provide hands-on training in equipment use and care; (b) improve home economics personnel in the knowledge needed to initiate and conduct clothing services programs; (c) provide guidelines for using teaching methods, materials, and resources; and (d) to provide guidelines for accommodating disadvantaged and handicapped student program Teachers participating in the workshop learned to operate, maintain, and safely use machines. They also attended classroom discussions which included the history of power sewing and job possibilities, and participated in field trips to sites that exposed them to career opportunities in the sewing industry. Evaluation of the workshops revealed that teachers felt that objectives were attained (University of Pittsburgh, 1978).

In a Nutrition and Education Training Program the Baltimore, Maryland, Public Schools integrated objectives and

learning activities into elementary and secondary education health, home economics, and science curriculum quides. Home economics, health, and science teachers were involved in curriculum-implementation workshops. An inservice course as an interdisciplinary approach to teaching nutrition to elementary and secondary school students was also implemented for teachers and cafeteria managers. Selected teachers in the areas of home economics, health, and science who had received inservice training were asked to field test the curriculum guides. Teachers from all three areas reported that the guides were helpful, and that they would use the guides again. The majority of the teachers felt that the quides had no shortcomings. Some home economics teachers felt that the readings were too complex and should be rewritten on a lower level for their students. Health teachers desired more information on topics such as fads, fast foods, and labeling (Baltimore City Public Schools, 1982).

Home economics teachers employed in eight public school early childhood home economics and/or parent education programs in Minneapolis, Minnesota, participated in an inservice activity in which the SPEAC (Student Parent Educator Administrator Children) for Nutrition Program was described. These eight public schools were selected as field test sites for implementing the SPEAC for Nutrition Program. The four purposes of the program were to (a) improve the preschooler's dietary habits; (b) increase awareness of nutritional needs

among parents, teachers, and others; (c) increase participation in child nutrition programs; and (d) integrate nutrition education into existing preschool curricula. The results indicated that the program was effective in increasing participation in and understanding of nutrition education activities (Hinze, 1980).

A survey was conducted in 12 Florida counties to assess employment opportunities which utilized knowledge and skills in home economics areas. Home economics teachers in the 12 counties conducted interviews. The 483 businesses surveyed were determined by systematic sampling. Findings from the survey indicated that the opportunity for employment which utilized skills and knowledge from the field of home economics was great; however, teachers capable of conducting classes in gainful employment would have to be located (Ridley, 1968).

In order to educate employed teachers for conducting classes in gainful employment an intensive inservice education seminar was conducted at Florida State University. Fifty-nine teachers participated in the 3-week seminar (Ridley, 1968).

Questionnaires designed to compare 90 responses about knowledge, understanding, and attitudes toward gainful employment were implemented both before and after the instruction in the seminar. Answers were recorded on a Likert-type scale with responses ranging from strongly agree to strongly

disagree. Data on the questionnaires were analyzed by means of the paired <u>t</u> test. Responses on the pretest were compared to responses on the posttest (Ridley, 1968). Four forms of evaluation of the inservice program included (a) a weekly summary with 10 questions which allowed each participant to express her opinion of the weekly activities and learnings; (b) a daily evaluation consisting of 2 questions about the morning and afternoon sessions regarding content and methods of presentation; (c) a daily sheet containing 3 open-end questions which allowed each participant to express her opinion of each session within structural limitations; and (d) a final evaluation of 26 questions which measured opinions of the participants and the total effectiveness of the seminar in knowledge and skills, presentations, organization, emphasis, and proportions of time (Ridley, 1968).

Following the seminar, off-campus classes on gainful employment were conducted in four different locations in Florida. Class activities resulted in the completion of five state curriculum guides. Teachers who participated in the classes planned objectives, student activities, teaching aids, references, and evaluation devices to include in the guides. All county supervisors of home economics and all vocational directors assisted teachers in the various classes. The subject areas of the curriculum guides included child care services, clothing and textiles services, institutional food services, homemaker services, and orientation to the world of work (Ridley, 1.69).

Farris (1978) designed, implemented, and evaluated a field-based course for providing relevant and accessible inservice training for home economics teachers in the state of New York during the 1975-76 and 1976-77 school years. Eighty-two junior high and senior high school teachers representing both rural and urban areas participated in the program. An additional component of the course was the provision for self-evaluation which could aid teachers in planning more effective learning experiences. The content included instruction in needs analysis, establishing set, questioning, reinforcement, values clarification, and operationalizing personal teaching values. Individualized learning packages which combined visual aids and reading materials, and instructions for using the newly published New York State home economics curriculum quide were provided for each participant. The teachers used videotaping to record their teaching performances. Tapes were returned to the course instructors for feedback and evaluation. Logs and summative evaluations were kept by the participants. Eighty-seven percent of the teachers stated that the course was as valuable as any previous inservice program in which they had participated. Negative comments which teachers reported about the course included problems with audio-visual equipment, delays in receiving materials, and lack of opportunity to interact with other participants (Farris, 1978).

Significant changes in the classroom behavior of teachers who participated in the course were computed by use of Flanders' Interaction Analysis. Changes in verbal behaviors were computed using the dependent \underline{t} test. A two-tailed probability (\underline{p}).002 for 1975-76 and \underline{p}).05 for 1976-77) indicated significant increases in the use of praise and encouragement. A decrease (\underline{p}).01) for the use of lecturing was found for both years. There was a significant increase in the amount of student talk in relation to that of the teacher for both years. An increase was also shown in the teachers' acceptance of and clarification of students' feelings. This change, however, was not significant (Farris, 1978).

Nelson (1979) reported a 1979 study by Meszaros and Biard in which the researchers investigated the effectiveness of competency-based inservice workshops on knowledge of and attitude toward competency-based education, teaching behavior, and student perception of teacher concern for them as individuals. A quasi-experimental design was utilized in which three groups of home economics teachers in inservice competency-based workshops were studied. One group consisting of 16 teachers attended a 1-week workshop on individualizing instruction taught by a competency-based approach; a second group of 15 teachers participated in a 3-week workshop in which the same subject and teaching technique were implemented as for the group of 16 teachers. A control group with

15 teacher participants attended a 2-week workshop on teaching family relations with no emphasis on either competencybased education or individualized instruction. Teachers in the competency-based groups progressed toward achieving the specified competencies. Each sampling unit of students was one intact home economics class taught by an individualized, competency-based approach by 31 teachers who participated in the two groups of teachers who were involved in the workshops which emphasized the individualized, competency-based approach. The total number of students for these two groups of teachers was 485. For the control group of teachers, one intact class being taught family relations gave a total of 354 students for the sampling unit. For data collection, the researchers developed and utilized two forms of the "Competency-Based Education Test" with reliabilities of .85 and .80 and two forms of the "Competency-Based Education Attitude Scale" with reliabilities of .87 and .85. They also developed and utilized a follow-up form and a workshop survey form. Data were also collected utilizing Ray's Student Estimate of Teacher Concern and Loftis' Measure of Professional Commitment. Statistics were computed by one-way analysis of variance and analysis of covariance to test significance of differences at the .05 level.

Results of the study indicated that the effectiveness of the competency-based inservice workshop was supported for the teachers sampled. Findings indicated that teachers in

the competency-based workshop spent more time individualizing instruction and were perceived by their students as more concerned for them as individuals than teachers in the control group (Nelson, 1979).

A pilot workshop was conducted for Minnesota home economics teachers in which ways of improving teacher effectiveness in situations where special needs students were enrolled in regular home economics classes were explored. Specific objectives of the workshop were that each participant should (a) become aware of her personal teaching styles and alternative teaching styles, (b) learn to match teaching styles with student learning styles, (c) become familiar with a variety of teaching models/techniques to promote learning for students with various types of special needs, (d) be able to use suggested criteria for evaluation of materials, (e) develop or adapt instructional materials, and (f) evaluate the content and presentation of the workshop series (Whiteford, 1977).

A brochure was sent to prospective participants to provide information concerning the workshop plans. Thirteen teachers from the Saint Paul Public Schools and from school systems within commuting distance from the metropolitan area volunteered to participate (Whiteford, 1977).

The workshop was organized into five sessions of 2 hours each. Topics for the workshop were chosen based on a previous survey in which specific needs were expressed by home economics teachers who were working with special needs

In the first session teachers were helped to students. become aware of their individual teaching styles and the range of flexibility of styles which they implemented with their students. Attention was given to varied learning styles and to expressed preferences of students for learning styles. The next session was organized into two parts. In an independent study activity each participant identified resource materials appropriate for an ongoing teaching unit and then worked in five learning centers which focused on techniques, ideas, and resources for each of five learning styles. second part of the session included three small-group lecturediscussion presentations with topics including positive selfconcept, teaching techniques, and task analysis. The third workshop session consisted of selection of instructional materials for meeting student and teacher needs. matched different learning styles to different types of materials. The fourth workshop session focused on alternative learning methods which could be used in increasing individualization and adaptation of instruction. Teachers viewed a film which interpreted an individualized classroom situation, reviewed an instructional delivery system including alternative learning formats, and adapted materials illustrating a selected learning format. The final session was directed toward ways in which individualized instruction could be achieved. In this session, teachers reviewed topics relating to alternative instructional delivery systems; the

project assistant described steps to follow in adapting instruction to meet needs of students; and teachers identified possible solutions to problems involved in multiple activity learning environments such as increased costs, demands upon teacher time, and lack of student self-directedness (Whiteford, 1977)

Teachers judged the workshop experiences to be valuable in helping them to be more effective in the regular home economics classroom with special needs students. Recommendations were that increased opportunities should be provided for teachers to enroll in workshops of this type, and the workshops should be credit-bearing to encourage enrollment and to justify the time and effort required for active participation (Whiteford, 1977).

Forty-five home economics teachers in Nebraska participated in an inservice training session on peer tutoring during the state vocational teachers' conference. The content for the peer-tutoring program included these three topics: (a) procedures for establishing a peer-tutoring program, (b) specific tutoring skills, and (c) activities for training peer tutors. A slide presentation and inservice packet were presented to the home economics teachers (Asselin, 1983).

A research study was conducted to investigate the effects of the peer-tutoring inservice program on home economics teachers' knowledge of procedures for using peer

tutors, attitudes of home economics teachers toward integrating the handicapped student in the regular classroom, and the effect of education and experience on the teachers' knowledge and attitudes concerning peer tutoring. The forty-five home economics teachers involved in the study registered and participated in one of the two peer-tutoring sessions which were offered on two consecutive afternoons. Each session was 3 hours in length. The inservice sessions were presented by the same individual and the program formats were identical. Forty-two teachers provided usable data for the study (Asselin, 1983).

The study utilized a quasi-experimental design in which two separate groups received the same treatment and were administered identical instruments. Twenty-eight teachers who registered for the first session were designated as the control group and 14 teachers who registered for the second session were designated as the experimental group. Teachers were unaware of the control group and experimental group designations, and each teacher had registered for the session of her choice upon enrollment in the conference. The control group was administered a 14-item teacher information survey, a 30-item multiple-choice knowledge test, and a 40-item attitude survey prior to the inservice session. The experimental group was administered the identical instruments immediately following the inservice session (Asselin, 1983).

Data were examined utilizing an analysis of variance at the .05 level of significance. Results of the study

indicated that the peer tutoring inservice program was effective in increasing home economics teachers' knowledge of procedures for using peer tutors. Participation in the program did not indicate a change in attitudes of the teachers toward integrating the handicapped student into the regular classroom. Factors which could have contributed to the fact that there was not a change in attitudes were that the attitude survey means showed that both groups had equally positive attitudes toward handicapped students, and the majority of home economics teachers indicated that they had taught handicapped students. The variables of experience and education failed to interact with gains in knowledge. impact of experience on the knowledge means test suggested that home economics teachers had a limited knowledge of the procedures for effective use of peer tutors regardless of their experience.

The researcher recommended that information concerning the utilization of peer tutors should be included in additional inservice education programs. An increase in the knowledge and skills in utilizing peer tutors could better prepare home economics teachers to serve handicapped students (Asselin, 1983).

Summary

The review of literature was presented in four parts.

These included (a) inservice education and the needs of

teachers, (b) attitudes toward inservice education, (c) types of inservice activities, and (d) topics for inservice education.

Many articles have been written pertaining to inservice education. In a review of related literature published between 1963 and 1983, it was found that authors continuously stated that teachers should be involved in the planning of inservice programs and that the programs should meet the needs that teachers themselves perceive.

There have been few published research studies indicating teachers' needs and attitudes in relation to inservice education. Recent literature findings have supported the need for this type of research. In order to help meet this need, the following study was conducted.

CHAPTER III

DESIGN OF THE STUDY

The purpose of this study was to compare the needs and attitudes of home economics teachers in North Carolina in relation to inservice education. A descriptive study utilizing a mail survey approach was considered to be most appropriate for the problem.

Selection of Subjects

The target population was defined as home economics teachers and the accessible population was those teachers employed in a home economics position in the public schools within the state of North Carolina during 1982-83. The accessible population was thus defined by the researcher in order to obtain an accurate frame from which to draw the sample.

A list of home economics teachers employed during 1982-83 within the state was obtained from the Division of Vocational Education, Home Economics Section, North Carolina Department of Public Instruction. The listing included 1049 teachers with their school addresses. Names were categorized by the region in which teachers were employed and a check mark had been placed by each teacher's name who had attended the 1983 Vocational Summer Workshop.

The names of teachers from the listing were separated in each of the eight educational regions into two strata: (a) teachers who did attend the 1983 Vocational Summer Workshop, and (b) teachers who did not attend the 1983 Vocational Summer Workshop. There was, therefore, a total of 16 nonoverlapping groups or strata. An equal number was selected from each stratum to give a balanced design. There were only 23 teachers who had attended the workshop from Region 1. Therefore, this number provided the basis for the number selected from each stratum. In the remaining strata, each teacher was assigned a number. A table of random numbers was consulted and a simple random sample from each stratum was selected until the required sample size was reached. A total of 368 home economics teachers, 23 from each stratum, provided the sample for the data collection procedures used in this study.

Instrumentation

The instrument for this study, Inservice Survey of
Teachers of Home Economics Areas (see Appendix A), was modified from an instrument used by Hughes and Dougherty (1975)
for collection of data on inservice education with teachers
in Wisconsin. Permission was granted to modify the instrument
for use with home economics teachers in North Carolina. Input
for modification was utilized from home economics personnel
from The University of North Carolina at Greensboro and the

North Carolina State Department of Public Instruction. Input was also utilized from the statistical consulting services of The University of North Carolina at Greensboro.

The beginning section of the instrument consisted of demographic types of questions which provided background information relating to teaching programs and grade levels, number of years taught, marital status, attained educational level, educational region in which respondent is employed, responsibilities other than teaching, and attendance at vocational summer workshops. Four categories of items were included in which the responses were represented on a 7-point scale. The first category of items pertained to attitudes about inservice education with possible responses ranging from "strongly disagree" to "strongly agree." The second category of items pertained to types of inservice opportunities. The third category included possible time periods for academic and nonacademic credit inservice education programs. Both of these categories had possible responses ranging from "highly unwilling" to "highly willing." The fourth section consisted of categories of topics to be included in inservice education programs in the areas of curriculum content, teacher activities, and professional concerns. Possible responses for this section ranged from "highly undesirable" to "highly desirable." The final section gave the respondents an opportunity to list inservice programs in which they had previously participated. The respondent

was instructed to mark "1" if the inservice program was adequate in improving teacher performance and to mark "2" if the inservice program was considered to have been inadequate in improving teacher performance.

Before implementation of the instrument for their study, Hughes and Dougherty pretested the instrument three times using a stratified sample of 30 teachers of which 7 were junior high school teachers, 7 were high school teachers, 3 were high school occupational teachers, 6 were vocational—technical teachers, and 7 were adult education teachers. Responses from the 30 teachers were used to evaluate the instrument for efficiency of data classification, wording of questions, clarity of directions, time required for completion, and ease of tabulating results. After evaluation by home economics educators within the state of Wisconsin, the instrument was further refined into final form.

The modified instrument used for this study was pretested with 18 teachers selected from a home economics graduate class and from the Region 7 educational area. Teachers who participated in pretesting the instrument were selected after the sample had been drawn for the study, and therefore were not included in the sample selected for the data collection. Responses from those who pretested the instrument were used to evaluate the length of the questionnaire, format, content, wording, and clarity of directions. After pretesting, the instrument was refined into final form.

Data Collection

The data collection procedures for this study were implemented during January 1984. A mail survey was sent to the teachers selected for the sample which included a cover letter, the questionnaire as described previously, and a return envelope stamped and addressed to the researcher. The cover letter included a statement of the problem that prompted the study, an explanation of the study, an appeal for participation, a promise of confidentiality, and a statement of appreciation to the respondent for participation in the study (see Appendix B).

The questionnaires were number coded to aid in follow-up procedures. This was explained in the cover letter. Vocational coordinators in each of the eight educational regions were asked to sign a follow-up letter that was mailed 2 weeks after the original mailing to those teachers in their region who had not returned the questionnaire (see Appendix C). Vocational coordinators in Regions 1, 2, 4, 5, 6, and 7 participated in this request. Teachers in Regions 3 and 8 who had not returned the questionnaire were mailed a follow-up letter signed by the researcher and her adviser (see Appendix D). The message reminded the teacher of the purpose of the study, the importance of the individual's response, and an appeal for the return of the completed questionnaire. A total of 254 surveys were returned which gave a response rate of 69%. Because of a discrepancy between the list

received from the State Department of Public Instruction and the responses from teachers indicating attendance at the 1983 Vocational Summer Workshop, 38 questionnaires were not included in the data analysis. Three questionnaires were not completed because teachers had either retired or changed positions, and 15 lacked sufficient data. Therefore, there were 198 questionnaires included in the data analysis. The data collection procedures were concluded on January 31, 1984.

Data Analysis

The data obtained from the questionnaires were keypunched, and the data analysis was done with the help of the computer. Statistical analyses were used to determine differences in the following:

- 1. Teacher attitudes and needs,
- Demographic variables and attitudes toward inservice education.
- 3. Demographic variables and needs for inservice education.

Descriptive statistics were used to summarize the data, and correlation and analysis of variance techniques were used to test for relationships. A .05 level of significance was used throughout the study.

CHAPTER IV

ANALYSIS OF DATA

The purpose of this study was to compare the needs and attitudes of home economics teachers in relation to inservice education. The two groups of teachers surveyed included (a) teachers who did attend the 1983 Vocational Summer Workshop and (b) teachers who did not attend the 1983 Vocational Summer Workshop. Home economics teachers from the public schools in each of the eight educational regions in North Carolina were selected to participate in the study. 23 teachers who attended the workshop from Region 1 provided the number basis for drawing a stratified random sample of 23 teachers from each of the two groups of teachers in the eight educational regions. A total of 368 home economics teachers, 184 from each group, who were employed in the North Carolina public schools during 1982-1983 were included in the research survey. Each teacher selected was sent a questionnaire to obtain data for the study. A total of 254 questionnaires were returned. Of that total, 18 were incomplete. Because of a discrepancy in the information obtained from the State Department of Public Instruction concerning teachers' attendance at the 1983 Vocational Summer Workshop and the responses from the teachers, 38 of the completed questionnaires could not be used. Therefore, 198 questionnaires,

120 from teachers who did attend the workshop and 78 from teachers who did not attend the workshop, were included in the data analysis. Because some of the questionnaires could not be used, there was insufficient data available in individual educational regions for an analysis of data by region. Therefore, the data were analyzed by utilizing the overall responses from the two groups: (a) teachers who did attend the 1983 Vocational Summer Workshop and (b) teachers who did not attend the 1983 Vocational Summer Workshop.

In order to facilitate the presentation of the results, data were analyzed and presented as follows:

- 1. A description of the respondents according to
 - (a) teaching program, (b) time period of employment,
 - (c) grade level of school in which employed,
 - (d) region in which employed, (e) years of teaching experience, (f) marital/parental status, (g) educational level, (h) reason(s) for not pursuing graduate credit, (i) school responsibilities other than teaching, (j) number of vocational summer workshops attended during the past 5 years, and (k) titles of courses taught.
- 2. Test of hypotheses.
- 3. A description of the respondents according to expressed adequacy of inservice programs in which they had participated.

A Description of Respondents by Demographic Variables

A description of the respondents by demographic variables is presented in Table 1. In the explanations that follow, groups will refer to teachers who attended and teachers who did not attend the Vocational Summer Workshop. There were 85 teachers who attended the 1983 Vocational Summer Workshop and 59 teachers who did not attend that taught Consumer and Homemaking courses. Relatively few teachers, 7 teachers who attended and 5 teachers who did not attend, taught only the Occupational Home Economics courses.

The majority of the teachers who responded were employed full-time. Only 2% of the 196 respondents were employed on a part-time basis.

More than one-half of the teachers taught in high schools, Grades 9-12. Only one respondent taught at a vocational/career center.

Of the 23 teachers selected for each group from each educational region, more teachers who attended the Vocational Summer Workshop responded to the questionnaire than did those who did not attend. There were a total of 120 teachers who attended and 78 who did not attend who responded.

More than 90% of the respondents in each of the groups had taught 5 to 20 or more years. Six (5%) respondents who attended the workshop and 13 (7%) of the respondents who

Table 1

Description of Teachers Who Attended and Who Did

Not Attend Vocational Summer Workshop by

Demographic Variables

						
	Attended		Did Not Attend		Total <u>Teachers</u>	
Variable	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
Teaching Program						
Consumer and Homemaking Occupational Both	85 7 28	71 6 23	59 5 14	76 6 18	144 12 42	73 6 21
Employment			:			
Full-time Part-time	117 1	99 1	76 2	97 3	193 3	99 2
Grade Level						
Elementary Middle School/Junior High High School Grades 9-12 Senior High Grades 10-12 Vocational/Career Center	0 11 65 38 0	0 10 57 33 0	0 16 37 21 1	0 21 49 28 1	0 27 102 59 1	0 14 54 31 1
Region						
1 2 3 4 5 6 7 8	13 20 15 12 16 19	11 11 17 13 10 13 16	8 9 10 13 6 11 12	10 12 12 13 17 8 14	21 22 29 25 25 22 30 24	11 15 13 13 11 15
Years Taught						
0-4 5-9 10-14 15-19 20 or more	6 27 21 21 45	5 23 18 18 38	7 20 18 13 19	9 26 23 17 25	13 47 39 34 64	7 24 20 17 32

Table 1 (continued)

		_	,		 		
	<u>Atte</u>	Attended		Did Not Attend		Total <u>Teachers</u>	
Variable	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%	
Marital Status							
Single Married without children Married with children Widowed, separated or	12 16 81	10 13 69	13 8 46	17 10 59	25 24 127	13 12 64	
divorced without children Widowed, separated or	3	3	2	3	5	3	
divorced with children	8	7	9	12	17	9	
Education							
Bachelor's	44	37	35	45	79	40	
Bachelor's plus 15 semester hours Master's Master's plus 15 semester	46 18	39 15	28 9	36 12	74 27	38 14	
hours Master's plus 30 or more	9	8	4	5	13	7	
semester hours	2	2	2	3	4	2	
Reasons for not Pursuing Graduate Study ^a							
Family responsibilities Lack of financial support No desire Not enough financial gain	30 12 13 19	25 10 11 16	23 9 8 17	30 12 10 22	53 21 21 36	27 11 11 18	
No college or university near home Not required for promotion Lack of time Near retirement and/or	14 0 23	12 0 19	7 3 18	9 4 2 3	21 3 41	11 1 21	
health Other	33 3	28 3	13 8	17 10	46 11	23 5	
Responsibilities other than Teaching ^a							
FHA/HERO Homeroom Bus duty Hall duty Duty at sports activities	111 108 27 74 55	93 90 23 62 46	63 69 25 49 31	81 89 32 63 40	174 177 52 123 86	88 89 26 62 43	

Table 1 (continued)

Variable	Atte	nded %	Did Not Attend <u>n</u> %		Total <u>Teachers</u> <u>n</u> %	
Vocational Summer Workshops Attended One Two Three Four Five	12	10	23	39	35	20
	8	7	14	23	22	12
	20	17	14	23	34	19
	29	24	9	15	38	21
	50	42	0	0	50	22

<u>Note</u>. The number (\underline{n}) represents responses to each item by teachers for each variable. The percentage (%) shown is of the total number of teachers who responded. Percentages were rounded to the nearest whole number. Numbers may be less than 198, depending on whether or not responses were given.

^aMultiple responses cited.

did not attend the workshop had 0 to 4 years teaching experience. This suggested relatively experienced teachers of home economics in the public schools of North Carolina.

The majority of teachers who attended the workshop (82%) and teachers who did not attend the workshop (69%) were married with or without children. The number of teachers with children, which included those married with children and those widowed, separated, or divorced with children, comprised 73% of the total number of respondents.

The percentage of teachers who attended the Vocational Summer Workshop having less than a Master's degree was 78%. Of the teachers who did not attend the workshop, 81% had less than a Master's degree. Only 23% of the total number of respondents had a Master's degree or credits above a Master's degree. The reasons cited most often by the 198 teachers for not pursuing graduate study were family responsibilities, near retirement and/or health, and lack of time. Of the teachers who attended, near retirement and/or health was the reason given most often, while family responsibilities was the main reason given by teachers who did not attend. Of the total number of respondents, 11% indicated no desire as the reason.

The two major responsibilities other than teaching indicated by the respondents were FHA/HERO and homeroom assignments. Ninety-three percent of the respondents who attended Vocational Summer Workshop and 81% of the respondents who did

not attend the workshop indicated responsibilities for FHA/HERO. Approximately 90% from each group had homeroom responsibilities. Of the total number of respondents, 62% reported that they had hall duty as an additional responsibility.

Less than one-half (42%) of the respondents who attended the 1983 Vocational Summer Workshop indicated having attended all vocational workshops for the past 5 years. Nearly one-half of the teachers who had not attended the 1983 Workshop had attended two or three workshops within the past 5 years.

The titles of courses most frequently taught by home economics teachers are shown in Table 2. Personal/Family Living Skills (Introductory Home Economics) was the course taught by a majority of the teachers (66%). More than 60% of the respondents in each of the groups indicated that they taught this course.

Other titles of courses indicated by teachers who attended the vocational Summer Workshop as most frequently taught by them were Advanced Foods/Nutrition (43%), Advanced Clothing/Textiles (37%), Advanced Child Development (32%), Advanced Consumer and Homemaking (31%), and Family Life Education (30%). Teachers who did not attend the Vocational Summer Workshop indicated Advanced Foods/Nutrition (40%), Family Life Education (36%), Advanced Clothing/Textiles (31%), and Advanced Consumer and Homemaking (31%) as other courses most frequently taught by them. The occupational course titles received fewer responses for both groups of teachers.

Table 2 Titles of Courses Taught by Teachers Who Attended and Who Did Not Attend Vocational Summer Workshop

Courses	Attended na %		Did Not Attend nb %		Total Teachers n ^C %	
Exploratory Home Economics	14	12	15	19	29	15
Personal/Family Living Skills (Introductory Home Economics)	80	67	50	64	130	66
Consumer Education and Management	17	14	14	18	31	16
Advanced Consumer and Homemaking	37	31	24	31	61	31
Advanced Child Development	38	32	15	20	53	27
Advanced Clothing/Textiles	44	37	24	31	68	35
Advanced Foods/Nutrition	50	43	31	40	81	42
Advanced Housing/Home Furnishing	26	22	14	18	40	20
Advanced Interpersonal Relations	19	16	15	19	34	17
Personal Management for Wage Earnings/Careers	3	3	3	4	6	3
Family Life Education	36	30	28	36	64	32
Teacher Aide/Child Care Services	15	13	10	13	25	13
Food Services	18	15	9	12	27	14
Clothing Services	6	5	6	8	12	6 _.

 $[\]begin{array}{ccc}
\frac{a}{b} \underline{n} &=& 120 \\
c \underline{n} &=& 78 \\
c \underline{n} &=& 198
\end{array}$

Test of Hypotheses

In this section, each hypothesis is presented with the data enumerated and examined, statistical procedures discussed, and results analyzed. In testing the hypotheses, two groups of teachers were compared: (a) teachers who attended the 1983 Vocational Summer Workshop and (b) teachers who did not attend the 1983 Vocational Summer Workshop.

Respondents were included in the two groups from each of the eight educational regions of North Carolina. There was an insufficient number of responses from the teachers who did not attend from each of the eight educational regions; therefore, the groups could not be compared. Region as an independent variable in the original hypotheses for the study was eliminated. The hypotheses tested were as follows:

- Hypothesis 1: There is no significant difference between teachers who did and who did not attend the 1983 Vocational Summer Workshop and their
 - (a) attitudes about inservice education
 - (b) preference of types of inservice education opportunities
 - (c) time preference for academic inservice education programs
 - (d) time preference for nonacademic inservice education programs
 - (e) preference of topics for inservice education programs

The data used as evidence to test the first hypothesis were the scores on five sections of the survey instrument related to (a) attitudes about inservice education, (b) types

of inservice education opportunities, (c) possible time periods during which academic credit inservice programs may be scheduled, (d) possible time periods during which non-academic inservice programs may be scheduled, and (e) topics to be included in inservice education programs. An analysis of the total scores on these measures showed that homogeneity of variance was violated in the section relative to attitudes. Therefore, the Mann-Whitney U Test was utilized for examination of the data concerning teacher attitudes about inservice education. One-way analysis of variance was utilized to examine the data for other sections listed above.

In order to determine where differences occurred, chi square analyses were computed. Categories of responses were grouped for statements related to attitudes about inservice education as follows: Categories 1, 2, and 3 were combined for purposes of analysis to indicate disagreement; 4 was considered uncertain; and 5, 6, and 7 were combined to indicate agreement. Categories of responses for type of inservice education opportunities, time preference for academic inservice education programs, and time preference for non-academic inservice education programs were grouped as follows: Categories 1, 2, and 3 were combined to indicate unwilling; 4 as uncertain; and 5, 6, and 7 as willing. Responses to preference of topics were grouped as follows: Categories 1, 2, and 3 indicated as being undesirable; 4 was uncertain; and 5, 6, and 7 indicated it was desirable.

The results of the Mann-Whitney U Test showed a mean rank of 94.70 for teachers who attended the Vocational Summer Workshop and 74.83 for teachers who did not attend the Vocational Summer Workshop. The level of significance was p < .01. Therefore, it was determined that a significant difference existed between the two groups of teachers and their attitudes about inservice education.

A chi square analysis was computed for the items relevant to attitudes. Data on 7 of the 13 items that could be compared are presented in Table 3. There was a significant difference between the groups for 2 of the items. Teachers who attended the workshop were more likely to agree that inservice education programs were beneficial, χ^2 (2, \underline{N} = 195) = 5.83, \underline{P} <.05. They also were more likely to agree that they would attend the Vocational Summer Workshop if involved in a specific responsibility than teachers who did not attend, χ^2 (2, \underline{N} = 111) = 10.08, \underline{P} <.01. Numbers and percentages of responses by the two groups of teachers are presented in Appendix E.

The one-way analysis of variance was performed to assess the differences between teachers who attended and who did not attend the workshop in relation to their preference of types of inservice opportunities. There was a significant difference between the two groups of teachers and their preference for types of inservice opportunities, \underline{F} (1, 176) = 12.11, $\underline{P} < .01$ (see Table 4). Chi square was used to analyze the items pertaining to types of inservice opportunities preferred.

Table 3 Chi Square Analysis of Statements About Inservice Education

Statement	χ²	<u>df</u>	g
Home economics inservice education programs are beneficial to me.	5.83	2	.05*
My teaching is sufficiently com- petent and I do not need inservice education.	. 99	2	.61
Inservice education should be provided only within the county where I teach.	4.65 -	2	.10
It is my responsibility to share information and materials with my colleagues.	4.07	2	.13
Inservice education programs that I have attended do not meet my needs.	3.88	2	.14
Teachers would attend the voca- tional summer workshop if they were reimbursed.	2.17	2	.34
I would attend the vocational summer workshop if I were involved in a specific responsibility.	10.08	2	.01**

^{*}p <.05
**p <.01

Table 4

One-Way Analysis of Variance Between Teachers Who

Attended and Who Did Not Attend Vocational Summer

Workshop and Variables Pertaining to

Inservice Education

\$7	173	ae	
Variables	<u> </u>	<u>df</u>	<u> </u>
Types of Inservice Opportunities	12.11	1 & 176	.00*
Time for Academic Inservice	7.80	1 & 172	.01*
Time for Nonacademic Inservice	9.23	1 & 172	•00*
Topics for Inservice: Curriculum	.17	1 & 174	.68
Topics for Inservice: Teacher Activities	.01	1 & 154	.92
Topics for Inservice: Profes- sional Concerns	.02	1 & 174	.89

^{*}p <.01

Significant differences were found for 5 types of inservice (see Table 5). It was found that teachers who attended were more likely to be willing to participate in the state vocational workshop (summer conference), X^2 (2, \underline{N} = 191) = 30.60, \underline{p} <.01; workshops for no academic credit, X^2 (2, \underline{N} = 195) = 15.61, \underline{p} <.01; off-campus college or university classes/ workshops/seminars for academic credit, X^2 (2, \underline{N} = 193) = 8.05, \underline{p} <.05; off-campus college or university classes/ workshops/seminars for no academic credit, X^2 (2, \underline{N} = 192) = 7.75, \underline{p} <.05; and on-campus college or university classes/ workshops/seminars for academic credit, X^2 (2, \underline{N} = 195) = 7.19, \underline{p} <.05, than teachers who did not attend the workshop. Number and percentage of responses to items pertaining to types of inservice are presented in Appendix F.

Differences between teachers who attended and who did not attend the 1983 Vocational Summer Workshop and their preference for possible time periods for academic credit inservice programs were compared utilizing the one-way analysis of variance. There was a significant difference between the two groups of teachers and their preference for time periods for academic credit inservice programs, F(1, 172) = 7.80, p < .01 (see Table 4).

Chi-square analysis indicated a significant difference between the groups on three items related to possible time periods for academic credit inservice programs (see Table 6). Teachers who attended the workshop indicated more willingness

Table 5

Chi Square Analysis of Preferences for Types

of Inservice Education Opportunities

Types of Inservice Education Opportunities	χ²	df	P
State Vocational Workshop (Summer conference)	30.60	2	.00**
Regional workshops for teacher of home economics subjects	2.78	2	.25
Workshops dealing with common concerns for home economics faculty within a school district	•09	2	. 96
Workshops dealing with common concerns for all faculty within a school district	1.13	2	•57
Workshops for academic credit	2.25	2	.33
Workshops, no academic credit	15.61	2	.00**
Off-campus college or university classes/workshops/seminars for academic credit	8.05	2	.02*
Off-campus college or university classes/workshops/seminars for no academic credit	7.75	2	.02*
On-campus college or university classes/workshops/seminars for academic credit	7.19	2	.03* .
On-campus college or university classes/workshops/seminars for no academic credit	3.95	2	.14
Specific problem-oriented work- shops before or after profes- sional organization meetings	2.09	2	.35

Table 5 (continued)

		 	
Types of Inservice Education Opportunities	χ^2	df	<u>p</u>
Meetings of professional organizations	2.31	2	.31
Observations/Internships in related business and industry	2.31	2	•32
Observations/Internships in other school systems and educational programs	4.82	2	•09
Use of information centers at colleges and universities/ professional meetings	1.57	2	. 46
Educational travel/tours	.46	2	.79

^{*}p <.05 **p <.01

Table 6 Chi Square Analysis of Preferences for Possible Time Periods by Teachers Who Attended and Who Did Not Attend Vocational Summer Workshop for Academic Credit Inservice Education Programs

Possible Time Periods	X ²	<u>df</u>	р
Summer1 day	1.52	2	.47
Summer2 to 4 days	4.09	2	.13
Summer1 week	8.22	2	.02*
Summer2 weeks	14.12	2	.00**
Summer3 weeks	7.01	2	•03*
Summer4 weeks	3.77	2	.15
Summer8 weeks	1.67	2	.43
During school yearconcentrated weekend	3.98	2	.14
During school yearSaturdays	.32	2	.85
During school year1 day during school week	3.57	2	.17
During school yearholiday vacations	.42	2	.81
During regular semester15 weeks (1 meeting per week) evening	3.52	2	.17
During regular semester15 weeks (1 meeting per week) late afternoon	.63	2	.73

^{*}p <.05
**p <.01

to participate in time periods of 1-week, χ^2 (2, \underline{N} = 195) = 8.22, \underline{p} < .05; 2-week, χ^2 (2, \underline{N} = 193) = .00, \underline{p} < .01; and 3-week summer workshops than were teachers who did not attend, χ^2 (2, \underline{N} = 191) = .03, \underline{p} < .05. Number and percentage of responses relative to items pertaining to possible time period for academic credit inservice programs are presented in Appendix G.

The one-way analysis of variance showed that there was a significant difference between teachers who attended and who did not attend the Vocational Summer Workshop and their preference of time periods for nonacademic credit inservice programs, \underline{F} (1, 172) = 9.23, p <.01 (see Table 4).

When chi square analyses were computed, five significant differences were indicated relative to preference to possible time periods for nonacademic credit inservice education programs (see Table 7). Teachers who did not attend the workshop were more uncertain about their willingness to participate in half-day summer programs for nonacademic credit than those who attended, χ^2 (2, \underline{N} = 191) = 11.04, \underline{p} <.01. The analyses indicated that teachers who attended were more willing to participate in inservice activities for 1 day during the summer, χ^2 (2, \underline{N} = 193) = 6.23, \underline{p} <.05; 1 week during the summer, χ^2 (2, \underline{N} = 190) = .00, \underline{p} <.01; 1 to 2 weeks during extended contract, χ^2 (2, \underline{N} = 189) = 5.93, \underline{p} <.05; and 3 to 4 weeks during extended contract, χ^2 (2, \underline{N} = 188) = 7.74, \underline{p} <.05. Number and percentage of

Table 7

Chi Square Analysis of Preferences for Possible Time

Periods for Nonacademic Credit Inservice

Education Programs

Possible Time Periods	χ^2	df	р
Summerhalf-day	11.04	2	.00**
Summer1 day	6.23	2	.04*
Summer2 to 4 days	5.74	2	•06
Summer1 week	13.71	2	.00 **
Summer2 weeks	4.67	2	.10
Summer4 weeks	5.51	2	.06
During school yearhalf-day	1.46	2	.48
During school yearSaturdays	•03	2	•99
During school yearl day during school week	2.31	2	.31
During school yearholiday vacation	2.38	2	.30
During school year concentrated weekend	1.63	2	.44
During regular semester15 weeks (1 meeting per week) evening	1.14	2	.56
During regular semester15 weeks (1 meeting per week) late after- noon	1.07	2	•59
During extended contract (1 to 2 weeks)	5.93	2	.05*
During extended contract (3 to 4 weeks)	7.74	2	.02*

^{*&}lt;u>p</u> .05 **<u>p</u> .01

responses to possible time periods for nonacademic credit inservice programs are presented in Appendix H.

The data for each of the areas relative to preference of topics for inservice education were examined by utilizing the one-way analysis of variance technique. There were no significant differences between teachers who attended and who did not attend the Vocational Summer Workshop and their preference for topics in either of the three areas (see Table 4). It could be assumed that because most of the teachers in both groups taught Consumer and Homemaking and that the majority of teachers in the two groups taught similar courses, their needs for curriculum content as well as other topics would be similar.

Topics related to curriculum content that were desired by 90% or more of the total number of teachers were (a) Foods and Nutrition, (b) Family/Interpersonal Relationships, (c) Child Development, (d) Housing and Home Furnishings, and (e) Clothing and Textiles. The five most desired topics for teacher activities by the total number of teachers were (a) sharing of teaching materials and techniques (92%), (b) motivating students (91%), (c) using innovative teaching methods and techniques (89%), (d) implementing new educational concepts (89%), and (e) recruiting students for home economics programs (88%). For topics of professional concern, the four most cited desires for the total number of teachers were (a) future directions affecting home economics

education (94%), (b) legislation affecting home economics education (94%), (c) recent trends in home economics (93%), and (d) public relations activities (88%). Number and percentage of responses related to preference of topics to be included in inservice education are presented in Appendices I-K.

Significant differences occurred between the two groups of teachers in attitudes about inservice education, in preference of types of inservice opportunities, and in preference for time periods for both academic and nonacademic inservice education programs. There was no significant difference, however, between the two groups and their preference of topics for inservice education programs. Therefore, Hypothesis 1 was partially rejected.

- Hypothesis 2: There is no significant relationship between the perceived needs of teachers who attended or who did not attend the 1983 Vocational Summer Workshop and their
 - (a) number of years teaching experience
 - (b) educational level
 - (c) marital status
 - (d) parental status
 - (e) plans to pursue graduate study
 - (f) school responsibilities other than teaching
 - (g) number of vocational workshops attended

Spearman rank correlations were computed for both groups of teachers to compare the total scores on their

preferences for types of inservice opportunities, time preferences for academic credit inservice, and time preferences for nonacademic credit inservice programs with the demographic variables including number of years teaching experience, educational level, marital/parental status, and number of workshops attended. A summary of the Spearman rank correlations is presented in Table 8. Needs for topics to be included in inservice programs were not correlated with the demographic variables because there were no significant differences between the groups and this variable. Also, correlations between needs and the demographic variables of plans to pursue graduate study and school responsibilities other than teaching were not computed because teachers could indicate multiple responses and there was not enough variability to compute correlations. Percentage of responses showed that of the teachers who attended, near retirement and/or health was the reason given most often for not planning to pursue graduate study during the next 5 years. Family responsibilities was the main reason for not pursuing graduate study during the next 5 years that was most often cited by those teachers who did not attend the 1983 Vocational Summer Workshop (see Table 1). Both groups were similar in that FHA/HERO and homeroom responsibilities represented the highest percentage of responsibilities other than teaching (see Table 1).

Table 8

Relationships Between Needs and Demographic Variables of Teachers Who Attended and Who Did Not Attend Vocational Summer Workshop

Needs/Attendance	Years	Taught	Educat Lev		Pare	tal/ ental etus	Numbe Works Atter	hops
	<u>r</u> s	<u>g</u>	<u>r</u> s	p	<u>r</u> s	p	<u>r</u> s	<u>p</u>
Types of Inservice Oppor- tunities						,		
Attended Did Not Attend	.13 06	.08 .31	.06 .16	.26 .10	.13 07	.08 .30	.26 .04	.00** .39
Time for Academic Credit Inservice Programs								
Attended Did Not Attend	18 .01	.04* .46	.07	_	.01 .23	.45 · .03*	.03 17	.38 .10
Time for Nonacademic Credit Inservice Programs								
Attended Did Not Attend	.03 .00	.3 7 .50	04 .14	.37 .13	03 05	•38 •35	.11 24	.14 .04*

^{*}p < .05

^{**}P < .01

There was no significant relationship between preference for types of inservice opportunities and the demographic variables of years taught, educational level, and marital/parental status of teachers who attended the workshop. However, a significant relationship was indicated between preference for types of inservice opportunities and number of workshops attended for this group of teachers, \underline{r}_s (109) = .26, \underline{p} <.01.

Teachers who had attended a greater number of workshops during the past 5 years were more likely to be willing to participate in a greater variety of inservice opportunities. No significant relationships were indicated between preference for types of inservice opportunities and the demographic variables of years taught, educational level, marital/parental status, and number of workshops attended for the group of teachers who did not attend the Vocational Summer Workshop.

There was a significant inverse relationship between number of years taught and preference of time for academic credit inservice programs for teachers who attended the workshop, \underline{r}_s (103) = -.18, $\underline{p} < .05$. Teachers with fewer years of teaching experience were more willing to participate in the various possible time periods for academic credit inservice education programs. There were no significant relationships between the variables of educational level, marital/parental status, or number of workshops attended and the variable of preference of time for academic credit inservice education programs among teachers of this group. There was a significant relationship among teachers who did not attend the

workshop between their preference of time for academic credit inservice programs and marital/parental status, \underline{r}_s (71) = .23, \underline{p} <.05. Among this group, teachers who were widowed/separated/divorced, with or without children, were willing to participate in a greater number of the possible time periods for academic credit inservice programs than were single or married teachers. There were no significant relationships between years taught, educational level, or number of workshops attended among this group of teachers.

There were no significant relationships between the demographic variables of years taught, educational level, marital/parental status or number of workshops attended and the variable of preference of time for nonacademic credit inservice education among teachers who attended the Vocational Summer Workshop. For the group who did not attend the workshop, a significant inverse relationship was shown between the number of workshops attended and their preference of time for nonacademic credit inservice programs, $\underline{r}_{\rm S}$ (53) = -.24, \underline{p} <.05. Teachers in this group who had attended fewer workshops in the past 5 years were more willing to participate in more of the possible time periods for nonacademic credit inservice programs than those teachers who had attended a greater number of vocational summer workshops during the past 5 years.

Hypothesis 2 was partially rejected because there were significant relationships shown among teachers who attended

the Vocational Summer Workshop between (a) number of workshops attended and preference of types of inservice opportunities and (b) years taught and preference of time for
academic credit inservice programs. Significant relationships were shown among teachers who did not attend the workshop between (a) marital/parental status and preference of
time for academic credit inservice programs and (b) number
of workshops attended and preference of time for nonacademic
credit inservice programs.

- Hypothesis 3: There is no significant relationship between attitudes about inservice education of teachers who attended or who did not attend the 1983 Vocational Summer Workshop and their
 - (a) number of years teaching experience
 - (b) educational level
 - (c) marital status
 - (d) parental status
 - (e) plans to pursue graduate study
 - (f) school responsibilities other than teaching
 - (g) number of vocational workshops attended

Spearman rank correlations were computed for teachers who attended and who did not attend the Vocational Summer Workshop utilizing each of their total scores for attitudes about inservice education and responses to the demographic variables of number of years teaching experience, educational level, marital/parental status, and number of vocational workshops attended. Correlations were not computed for relationship of attitudes between plans to pursue graduate credit

and school responsibilities; teachers could indicate multiple responses which resulted in scores without enough variability to correlate. There were no significant relationships shown among teachers who attended the Vocational Summer Workshop between attitudes about inservice education and the demographic variables of years taught, educational level, marital/parental status, or number of workshops attended.

For the group of teachers who did not attend the workshop, there was a significant relationship between their attitudes about inservice education and number of years taught, $\underline{r}_{\rm S}$ (70) = .23, \underline{p} <.05. Teachers who had taught a greater number of years were more likely to agree with the statements about inservice education than were teachers who had taught fewer years. A significant relationship was also shown between attitudes about inservice education and educational level, $\underline{r}_{\rm S}$ (71) = .26, \underline{p} <.05. Teachers with educational levels above a Bachelor's degree were more likely to agree with the statements about inservice education than were those with only a Bachelor's degree. Data on the Spearman rank correlations are presented in Table 9.

Hypothesis 3 was not fully rejected. Significant relationships were shown between attitudes about inservice education with both the demographic variables of number of years taught and educational level among teachers who did not attend the Vocational Summer Workshop.

Table 9

Relationships Between Attitudes and Demographic

Variables of Teachers Who Attended and Who Did

Not Attend Vocational Summer Workshop

Variables	Attended	Did Not Attend
Years Taught		
r p	.01 .47	.23 .03*
Educational Level		
r _s	03 .38	.26 .02*
Marital/Parental Status		
r ps	.14 .08	.05 .35
Number Workshops Attended		
<u>r</u> s p	07 .23	.06 .33

^{*}p <.05

A Description of the Respondents' Expressed Adequacy of Inservice Education Programs

Data requested for this section were responses from teachers which required a listing of types of inservice activities in which they had participated. Teachers were instructed to refer to the section of the instrument on types of inservice opportunities for constructing the list. Each item listed was to be rated as either adequate or inadequate as to its effect for improving the respondent's performance as a teacher. Examination of the responses showed that most teachers listed specific course or workshop titles rather than following the instructions given on the questionnaire which resulted in information that could not be compared. Thirty-one (16%) of the 198 teachers surveyed did not respond to this section of the instrument. Of the 167 who responded, it could be determined that 112 (67%) of the total number of teachers listed Vocational Summer Workshop and expressed that this inservice program was adequate for improving their Eighteen (11%) listed the Vocational teaching performance. Summer Workshop and rated it as inadequate for improving their performance as a teacher.

CHAPTER V

SUMMARY AND IMPLICATIONS

The purpose of this study was to compare the needs and attitudes of home economics teachers in relation to inservice education. A stratified random sampling procedure was used to select 23 teachers for each of the eight educational regions in North Carolina who attended the 1983 Vocational Summer Workshop, and 23 teachers from each of the eight educational regions in North Carolina who did not attend the 1983 Vocational Summer Workshop. A total of 368 home economics teachers who were employed in the public schools of North Carolina during the 1982-1983 school year composed the sample. Each teacher selected was sent a questionnaire designed to obtain data on attitudes about inservice education, preference for types of educational opportunities, time preference for academic and nonacademic credit inservice education programs, and preference for topics to be included in inservice education programs. The demographic information requested teaching programs, time period of employment, grade levels, educational region of employment, number of years taught, marital/parental status, level of education, plans for graduate study, school responsibilities other than teaching, and number of vocational workshops

attended. Responses to the variables relating to the needs for and attitudes about inservice education were compared between the two groups: (a) teachers who did attend the 1983 Vocational Summer Workshop and (b) teachers who did not attend the 1983 Vocational Summer Workshop. Perceived needs for inservice education and selected demographic variables were compared between the two groups. Also compared were attitudes about inservice education and selected demographic variables. Two hundred fifty-four teachers returned the questionnaires, which was 69% of the total. Of this number, 198 (55%) could be used for this study.

The analysis of the data involved both descriptive and inferential statistics. Data were obtained from the responses to the eight sections of the survey instrument which included (a) demographic information, (b) titles of courses taught, (c) statements about inservice education, (d) types of inservice education opportunities, (e) possible time periods for academic credit inservice programs, (f) possible time periods for nonacademic credit inservice programs, (g) topics for inservice programs in the areas of curriculum content, teacher activities, and professional concerns, and (h) expressed adequacy of inservice programs.

Numbers and percentages were computed for responses to each of the items contained in each section of the instrument. The hypotheses were tested utilizing the Mann-Whitney U Test, one-way analysis of variance, and correlation

techniques. Chi square analyses were calculated to determine specific items in which the two groups differed.

Scores on statements about inservice education were utilized to compare the attitudes of the two groups of teachers. Scores on types of inservice opportunities, possible time periods for academic and nonacademic inservice programs, and topics for inservice programs were utilized to compare the needs of the two groups of teachers. The total scores of each of the above variables were correlated with selected demographic variables to determine relationships between these variables among teachers in each of the two groups.

Major Findings

Some of the major findings of this study were as follows:

- 1. The majority of teachers in both groups taught

 Consumer and Homemaking. Of the total number of
 teachers, 6% taught only occupational program
 and only 2% were employed part-time.
- 2. Of the total number of respondents, 93% had taught from 5 to 20 or more years. Only 7% had taught 4 years or less.
- 3. The majority of teachers from both groups were

 married and had children. Single teachers composed

 13% of the total number.

- 4. Less than 25% of the teachers had obtained a graduate degree. Slightly less than 50% had only a Bachelor's degree with no additional credits.
- 5. All teachers indicated that they had attended one or more Vocational Summer Workshops during the past 5 years. However, only 22% of the total number of teachers had attended all five of the workshops.
- 6. Personal/Family Living Skills was the course most frequently taught by both groups of teachers.

 Three other courses most frequently taught by the respondents in each group were Advanced Foods/

 Nutrition, Advanced Clothing/Textiles, and Advanced Consumer and Homemaking.
- 7. There was a significant difference in attitudes

 between teachers who attended the 1983 Vocational

 Summer Workshop and teachers who did not attend.

 Teachers who attended agreed to a greater extent
 that inservice education programs were beneficial
 to them, and that they would attend the Vocational
 Summer Workshop if given a specific responsibility
 than teachers who did not attend the workshop.
- 8. A significant difference between the two groups was shown in their preference for types of inservice opportunities. Teachers who attended the workshop were more likely to be willing to participate in the state vocational workshop (summer conference),

workshops for no academic credit, off-campus college or university classes/workshops/seminars for academic credit, off-campus college or university classes/workshops/seminars for no academic credit, and on-campus college or university classes/workshops/seminars for academic credit than were teachers who did not attend the workshop.

9. There was a significant difference between the two groups of teachers and their preference of time for academic credit inservice education programs.

Teachers who attended the workshop were more likely to be willing to participate in time periods of 1-, 2-, and 3-week summer workshops than were teachers

who did not attend.

There was a significant difference between the two groups of teachers and their preference of time for nonacademic inservice programs. Teachers who did not attend the Vocational Summer Workshop were more likely to be uncertain about their willingness to participate in half-day summer programs than were teachers who attended. Teachers who attended were more likely to be willing to participate in inservice activities for 1 day during the summer, 1 week during the summer, 1 to 2 weeks during extended contract, and 3 to 4 weeks during extended contract than were teachers who did not attend.

- 11. There was no significant difference between the two groups of teachers and their preference of topics to be included for inservice programs. Both groups of teachers desired curriculum content topics in Foods and Nutrition, Family/Interpersonal Relationships, Child Development, Housing and Furnishings, and Clothing and Textiles more than other curriculum content topics. Three topics most desired for teacher activities were sharing of teaching materials and techniques, motivating students, and using innovative teaching methods and techniques. In the area of professional concerns, the two groups of teachers preferred topics regarding future directions of home economics education, legislation affecting home economics, recent trends in home economics, and public relations activities.
- 12. There was a significant relationship between preference for types of inservice opportunities and number of vocational workshops attended among teachers who attended the 1983 Vocational Summer Workshop.

 Teachers in this group who had attended a greater number of workshops during the past 5 years were more willing to participate in a greater variety of inservice opportunities.
- 13. There was a significant inverse relationship between number of years taught and preference of time for academic credit inservice programs among teachers

- who attended the workshop. Teachers with fewer years of teaching were more likely to be willing to participate in the various possible time periods for academic credit inservice education programs than were teachers who had taught a greater number of years.
- A significant relationship was shown among teachers
 who did not attend the Vocational Summer Workshop
 between their preference of time for academic credit
 inservice programs and their marital/parental status.
 Teachers who were widowed/separated/divorced, with
 or without children, were more likely to be willing
 to participate in a greater number of the possible
 time periods for academic credit inservice programs
 than were single or married teachers.
- 15. A significant inverse relationship was shown among teachers who did not attend the workshop between the number of workshops attended and their preference of time for nonacademic inservice programs. Teachers in this group who had attended fewer workshops in the past 5 years were more likely to be willing to participate in more of the possible time periods for nonacademic credit inservice programs than were those teachers who had attended a greater number of vocational summer workshops during the past 5 years.

- 16. There was a significant relationship among teachers
 who did not attend the workshop between their attitudes about inservice education and number of years
 taught. Teachers who had taught a greater number
 of years were more likely to agree with the statements about inservice education than were teachers
 who had taught fewer years.
- 17. There was a significant relationship among teachers who did not attend the workshop between their attitudes about inservice education and educational level. Teachers whose educational level was above a Bachelor's degree were more likely to agree with the statements about inservice education than were those teachers who held only a Bachelor's degree.

Hypotheses Tested

The three hypotheses tested were as follows:

- Hypothesis 1: There is no significant difference between teachers who did and who did not attend the 1983 Vocational Summer Workshop and their
 - (a) attitudes about inservice education
 - (b) preference of types of inservice education opportunities
 - (c) time preference for academic inservice education programs
 - (d) time preference for nonacademic inservice education programs
 - (e) preference of topics for inservice education programs

There were significant differences between teachers who did attend and who did not attend the 1983 Vocational Summer Workshop and their attitudes about inservice education, time preferences for academic credit inservice programs, and time preference for nonacademic credit inservice programs. There was not a significant difference between the two groups and their preference for topics to be included in inservice education programs. Therefore, Hypothesis 1 was partially rejected.

- Hypothesis 2: There is no significant relationship between the perceived needs of teachers who attended or who did not attend the 1983 Vocational Summer Workshop and their
 - (a) number of years teaching experience
 - (b) educational level
 - (c) marital status
 - (d) parental status
 - (e) plans to pursue graduate study
 - (f) school responsibilities other than teaching
 - (g) number of vocational workshops attended

There were no significant relationships among teachers who did not attend the 1983 Vocational Summer Workshop between their preference of types of inservice opportunities and the demographic variables of number of years taught, marital/parental status, educational level, or number of workshops attended. There were no significant relationships among teachers who attended the workshop between their

preference of types of inservice opportunities and the demographic variables of number of years taught, marital/parental status, or educational level. There was a significant relationship, however, among the group who attended the workshop between their preference of types of inservice opportunities and the number of workshops attended. There were no significant differences among teachers who did not attend the workshop between their preference of time for academic inservice and the demographic variables of number of years taught, educational level, or number of workshops attended. nificant relationship was shown among these teachers between their time preference for academic inservice programs and marital/parental status. Among the teachers who attended, there were no significant relationships between their preference for time for academic inservice programs and marital/ parental status, educational level, or number of workshops There was, however, a significant inverse relaattended. tionship among this group of teachers between their time preference for academic inservice programs and number of years taught. There were no significant relationships among teachers who attended the workshop between their time preferences for nonacademic inservice programs and number of years taught, marital/parental status, educational level or number of workshops attended. Among teachers who did not attend, there were no significant relationships between their time preference for nonacademic inservice programs and

number years taught, marital/parental status, or educational level. A significant inverse relationship was shown among this group of teachers between time preference for nonacademic inservice programs and number of workshops attended. Because some significant relationships were shown, Hypothesis 2 was partially rejected.

- Hypothesis 3: There is no significant relationship between attitudes about inservice education of teachers who attended or who did not attend the 1983 Vocational Summer Workshop and their
 - (a) number of years teaching experience
 - (b) educational level
 - (c) marital status
 - (d) parental status
 - (e) plans to pursue graduate study
 - (f) school responsibilities other than teaching
 - (g) number of vocational workshops attended

There were no significant relationships among teachers who attended the workshop between their attitudes and number of years taught, marital/parental status, educational level, and number of workshops attended. Among teachers who did not attend there were no significant relationships between their attitudes about inservice education and marital/parental status or number of workshops attended. However, there were significant relationships among this group of teachers between their attitudes about inservice education and number of years taught and educational level. Therefore, Hypothesis 3 was partially rejected.

<u>Implications</u>

The findings were interpreted and the implications were stated with an awareness of the limitations that existed in this study. Implications resulting from the study may provide a frame of reference for those responsible for planning inservice education programs for home economics teachers. Implications drawn from this study were grouped in two categories: (1) planning inservice education programs and (2) further research.

Inservice Education Programs

Teachers who attended and who did not attend the Vocational Summer Workshop were in agreement that the Vocational Summer Workshop was beneficial. Some implications from the responses of all of the teachers that have relevance for planning inservice education programs were the following:

- 1. Providing release time during the school day for teachers to attend inservice education programs should be considered. Over 90% of the teachers indicated a willingness to participate in inservice education programs if given release time from their teaching responsibilities.
- 2. Reimbursement for expenses of teachers attending inservice education would be an incentive for active participation. Over 75% of the teachers indicated that they would be willing to attend the Vocational

Summer Workshop if they were reimbursed for expenses incurred. If teachers receive compensation they are more willing to participate in a variety of types of inservice education.

- 3. Inservice education programs planned for short time periods could be an incentive for improving teacher participation. More than 75% of the teachers indicated that they would be willing to participate in inservice activities that were planned for 1 to 4 days during the summer or for 1 day during the school week.
- 4. Opportunities to share teaching techniques and materials should be considered for inservice education programs. Over 90% of the teachers considered sharing teaching techniques and materials to be highly desirable.
- 5. Inservice education programs of short duration should be provided for such topics as motivational techniques, innovative methods and techniques, and new educational concepts should be provided. These topics were identified by approximately 90% of the teachers as being desirable.
- 6. Opportunities for observation and/or internships
 in business and industry, school systems, and other
 educational settings could be beneficial to teachers.

It was evident that teachers thought such opportunities would be worthwhile as over 80% indicated an interest and willingness to participate if available.

7. The geographic location for inservice education programs could influence the level of participation.

The majority of the teachers, more than 85%, indicated a preference for inservice activities that would be held in the region or within the school district.

Further Research

Based upon the results of this study, the following recommendations are made:

- 1. Conduct a research study with administrators who are responsible for inservice education of home economics teachers. Attitudes of administrators and beliefs concerning the needs of home economics teachers for inservice education could be compared with the data obtained in this study.
- 2. Conduct a study to compare home economics teachers with personnel in other fields of home economics such as extension in relation to needs for and attitudes about inservice education.
- 3. Compare attitudes and needs of home economics teachers in relation to inservice education with teachers in other vocational areas such as agriculture, business education, or industrial arts.

- 4. Compare the attitudes about inservice education and perceived needs for inservice education programs between home economics teachers and teachers in other subject areas such as English, science, or math.
- 5. Conduct a study to determine the extent to which business and industry would be willing to support inservice educational programs for home economics teachers.

BIBLIOGRAPHY

- American Psychological Association. (1983). <u>Publication</u>
 <u>manual of the American Psychological Association</u>
 (3rd ed.). Washington, DC: Author.
- Andrew, C. (1983). Teacher-directed inservice education in Southern Indiana. Phi Delta Kappan, 67, 504-505.
- Asselin, S. B. (1983). Peer tutoring inservice program: Effects on home economics teachers' knowledge and attitude. Home Economics Research Journal, 11, 352-357.
- Auton, S., Deck, L., & Edgemon, A. (1982). Staff development for secondary school teachers. NASSP Bulletin, 66(455), 116-121.
- Baden, D. J. (1980, June). A users guide to the evaluation of inservice education. <u>Inservice</u> (pp. 4-8). Syracuse, NY: Syracuse University, National Council of States on Inservice Education.
- Baltimore City Public Schools. (1982). <u>Nutrition education and training program</u>. Baltimore: Maryland State Department of Education, Division of Vocational Education, Office of Home Economics. (ERIC Document Reproduction Service No. ED 220 561)
- Brimm, J. L., & Tollett, D. J. (1974). How do teachers feel about inservice education? <u>Educational Leadership</u>/
 <u>Research Supplement</u>, 31, 521-525.
- Burrello, L. C., & Orbaugh, T. (1982). Reducing the discrepancy between the known and unknown in inservice education. Phi Delta Kappan, 63, 385-390.
- Byrne, R. (1983). Inservice programs--what are the essentials for making them effective? NASSP Bulletin, 67(461), 1-7.
- Christensen, J. C., & Burke, P. J. (1982). Principals and teachers assess professional development in elementary schools. <u>Phi Delta Kappan</u>, 63, 417.
- Crabtree, B., & Hughes, L. (1969). Inservice programs for home economics teachers. American Vocational Journal, 44(6), 49-50.

- Dillon-Peterson, B. (Ed.). (1981). <u>Staff development/organizational development</u>. Alexandria, VA: Association for Supervision and Curriculum Development.
- Edelfelt, R. A. (Ed.). (1977). <u>Inservice education</u>:

 <u>Criteria for and examples of local programs</u>. Bellingham: Western Washington State College.
- Farris, C. (1978). Field-based inservice course for home economics teachers (Report No. VE_TO-F(8c)-628).

 Ithaca, NY: Cornell University, College of Human Ecology. (ERIC Document Reproduction Service No. ED 167 709)
- Hall, J., Benninga, J., & Clark, C. (1983). A comprehensive approach to the inservice training of teachers. NASSP Bulletin, 67(461), 17-21
- Hanson, J. M. (1980). Why inservice? An obligation of schools to provide the best. NASSP Bulletin, 64(440), 67-73.
- Harris, B. M. (1980). <u>Improving staff performance through</u> inservice education. Boston: Allyn/Bacon.
- Hinze, L. L. (1980). <u>SPEAC for nutrition</u>. Minnesota: Minneapolis Public Schools. (ERIC Document Reproduction Service No. ED 194 201).
- Holly, M. L. (1982). Teachers' views on inservice training.

 <u>Phi Delta Kappan</u>, 63, 417-418.
- Hughes, L., & Dougherty, B. (1975). <u>Determining expressed</u>
 <u>inservice needs of Wisconsin secondary and post-secondary</u>
 <u>vocational, technical, and adult education teachers in</u>
 <u>home economics related areas</u>. Madison: University of
 Wisconsin, Center for Studies in Vocational and Technical Education.
- Hughes, L., & Dougherty, B. (1977, Summer). Inservice needs of home economics teachers. The Journal of Vocational Education Research, 2(3), 49-57.
- Jensen, D., Betz, L., & Zigarmi, P. (1978). If you are listening to teachers, here is how you will organize inservice. NASSP Bulletin, 62(417), 9-14.
- Johnson, Y. D. (1967). Individualizing inservice education. Journal of Secondary Education, 47, 229-233.

- King, J. C., Hayes, P. C., & Newman, I. (1977). Some successful requirements for inservice education. Phi Delta Kappan, 58, 686-687.
- Luke, R. A. (1980). <u>Teacher-centered inservice education:</u>

 <u>Planning and products</u>. Washington, DC: National Education Association.
- Marshall, J. C., Maschek, R., & Caldwell, S. D. (1982). How stable are teachers' inservice interests? Phi Delta Kappan, 63, 418.
- Mazzarella, J. (1980). Synthesis of research on staff development. <u>Educational Leadership</u>, 38, 182-185.
- Meers, G. (1981). Inservice training: Planning the programs. Vocational Education, 56(3), 35-37.
- Miller, W. C. (1977). What's wrong with inservice education? It's topless . . ! Educational Leadership, 35, 31-34.
- Moffitt, J. C. (1963). <u>Inservice education for teachers</u>. New York: The Center for Applied Research in Education, Inc.
- Nelson, H. Y. (1979). Home economics education: A review and synthesis of the research. Columbus: Ohio State University, National Center for Research in Vocational Education. (ERIC Document Reproduction Service No. ED 179 768).
- Orlich, D. C. (1983). Some considerations for effective inservice education. <u>The Clearing House</u>, <u>56</u>, 197-201.
- Parker, F J. (1972). The vocational homemaking teacher opinion leader as a referent in the communication of change. Journal of Home Economics, 64, 33-36.
- Price, S. M. (1978). We can and must help prevent child abuse. Illinois Teacher of Home Economics, 21, 186-188.
- Rader, B. (1961). Beginners need inservice education.

 <u>Journal of Home Economics</u>, <u>53</u>, 26-28.
- Register, A., & King, F. (1978). Helping teenage parents grow up. Vocational Education, 53(9), 27-29.
- Ridley, A. F. (1968). <u>Gainful employment in home economics</u>, <u>phase II</u>. Tallahassee: Florida State University. (ERIC Document Reproduction Service No. ED 035 736)

- Ridley, A. F. (1969). <u>Gainful employment in home economics</u>, <u>Phase III</u>. Tallahassee: Florida State University. (ERIC Document Reproduction Service No. ED 035 736)
- Rogus, J. E. (1983). Building an effective staff development program: A principal's checklist. NASSP Bulletin, 67(461), 9-16.
- Romano, C. (1977, Spring). Inservice education: The need for continuous teacher education. <u>Delta Kappa Gamma Bulletin</u>, pp. 7-15.
- Roth, R. A. (1975). An individualized inservice program model for competence development. In R. E. Wright (Ed.), Inservice education to improve teaching competence (pp. 4-11). Washington, DC: Association of Teacher Educators.
- Rottier, J. (1983). Receiving and individualizing inservice education. Education, 103, 275-277.
- Rynor, J., Shanker, H., & Sandefier, J. T. (1979). Three perspectives on inservice education. <u>Journal of Teacher Education</u>, 30(1), 13-18.
- Sharma, T. (1982). Some unfortunate assumptions. Phi Delta Kappan, 63, 403.
- Smith, M. F., & Woesie, J. T. (1983). Inservice training:

 Does it make a difference? <u>Journal of Extension</u>, <u>21</u>,

 22-27.
- Smoak, M. G. (1981). <u>South Carolina vocational educators</u> <u>professional development needs assessment.</u> Columbia: South Carolina State Department of Public Instruction, Office of Vocational Education. (ERIC Document Reproduction Service No. ED 209 485)
- Spillane, R. R. (1982). Some unfortunate assumptions. Phi Delta Kappan, 64, 21.
- Tyler, R. W. (1971). Inservice education of teachers:
 A look at the past and future. In L. J. Rubin (Ed.),
 Improving inservice education: Proposals and procedures
 for change (pp. 5-17). Boston: Allyn/Bacon.
- University of Pittsburgh. (1978). Expanding and updating the knowledge and skills in clothing-related services of home economics persons by means of inservice training utilizing community resources. Pittsburgh, PA: Author. (ERIC Document Reproduction Service No. ED 166 407)

- Whiteford, E. B. (1977). Special needs students in regular home economics programs: 1977 report on Minnesota secondary inservice teacher education. St. Paul: University of Minnesota, Division of Home Economics Education. (ERIC Document Reproduction Service No. ED 147 556)
- Williamson, P. A., & Elfman, J. A. (1982). A commonsense approach to teacher inservice training. Phi Delta Kappan, 63, 401.
- Wood, F., & Thompson, S. (1980). Guidelines for better staff development. <u>Educational Leadership</u>, <u>37</u>, 374-378.

APPENDIX A

QUESTIONNAIRE

INSERVICE SURVEY OF TEACHERS OF HOME ECONOMICS AREAS

For the purpose	of this study, inservice education
is defined as	procedure for the improvement of
instruction and	d for increasing competence and
professional d	rowth of employed personnel.

Dire	ections:
For prov to e	items 1-11, place a check (V) in the blank pided on the right to indicate your response each item.
1.	Please indicate the type of home economics program in which you are teaching. (1) Consumer and Homemaking (2) Occupational
2.	Please indicate whether you are employed as a full-time or part-time employee. (1) Full-time
3.	Please indicate the grade level(s) of the home economics program with which you work. (1) Elementary school (2) Hiddle school or junior high (3) High school grades 9-12 (4) Senior high grades 10-12 (5) Vocational/Career center
4.	Please indicate the region in which you are employed as a home economics teacher. (1) Region II
5.	Please indicate the appropriate category for the number of years you have taught. (1) 0-4
6.	Please indicate marital status. (1) Single (2) Married without children (3) Harried with children (4) Widowed, separated or divorced without children (5) Midowed, separated or divorced with children
7.	Please indicate the highest educational level you have achieved. (1) Bachelor's (2) Bachelor's plus 15 semester hours (3) Master's (4) Master's plus 15 semester hours (5) Master's plus 30 or more semester hours
8.	If you do not plan to pursue graduate study within the next five years, please indicate the reason. (1) Family responsibilities (2) Lack of financial support (3) No desire (4) Not enough financial gain (5) No college or university near your home (6) Not required for promotion (7) Lack of time (8) Near retirement and/or health (9) Other (specify)

9.	Please indicate your school responsibil other than teaching. (Mark as many as (1) FHA/HERO (2) Homeroom (3) Bus duty (4) Hall duty (5) Duty at sports activities (6) Other (specify)	apply	5 v)
10.	Please indicate the number of vocations workshops (conferences) you have attend last five years. (1) One (2) Two (3) Three (4) Four (5) Five (5)		
11.	Please indicate whether or not you atte vocational summer workshop August 1-4, (1) Yes (2) No	nded 1983	the
In 12- des des	responding to the following course title 28, circle 1 if you personally teach the cribed; circle 2 if you do not teach the cribed. Please respond to each item.	es, in	tems rse rse
12.	Exploratory Home Economics	1	2
13.	Personal/Family Living Skills (Introductory Home Economics)	1	2
14.	Consumer Education and Management	1	2
15.	Advanced Consumer and Homemaking	1	2
16.	Advanced Child Development	1	2
17.	Advanced Clothing/Textiles	1	2
18.	Advanced Foods/Nutrition	1	2
19,	Advanced Housing/Home Furnishings	1	2
20.	Advanced Interpersonal Relations	1	2
21.	Personal Management for Mage Earnings/ Careers	1	2
22.	Family Life Education	1	2
23.	Teacher Aide/Child Care Services	1	2
24.	Food Services	1	2
25.	Clothing Services	1	2
26.	Home Furnishing Services	1	2
27.	Management Aide Services	1	2
28.	Other (specify)	1	2
	· _		

Below are listed statements about inser Please circle the number after each sta represents your level of agreement.	te	me	nt	du Wi	ca hi	ti ch	on.
1 2 3 4 5 Strongly Uncertain Disagree		6	S	tro Ag	7 ong	91 <u>9</u>	,
29. Home economics inservice education programs are beneficial to me.		2	3	4	5	6	7
30. Attending professional meetings is a type of inservice education.	1	2.	3	4	5	6	7
31. Reading professional journals is a part of inservice education.	1	2	3	4	5	6	7
32. Participation in inservice education programs is my responsibility	. 1	2	3	4	5	6	7
33. By teaching is sufficiently competent and \boldsymbol{I} do not need inservice education.	1	2	3	4	5	6	7
34. Inservice education should be provided only within the county where I teach.	1	2	3	4	5	6	7
35. It is my responsibility to undate my subject matter knowledge.	1	2	3	4	5	6	7
36. It is my responsibility to share information and materials with my colleagues.	1	2	3	4	5	6	7
37. Inservice education programs help me to evaluate my teaching.	1	2	3	4	5	6	7
38. Teachers should be involved in planning inservice education programs.	1	2	3	4	5	6	7
39. Inservice education programs that I have attended do not meet my needs.	1	2	3	4	5	6	7
40. Teachers would attend the vocational summer workshop if they were reimbursed.	1	2	3	4	5	6	7
41. Teachers should be given released time for inservice.	1	2	3	4	5	6	7
42. I would attend the vocational summer workshop if I were involved in a specific responsibility.	1	2	3	4	5	6	7
Listed below are some types of inservic opportunities. Please circle the numbe each item which represents your level o willingness to participate.	ra	edi afi	tei	ati	or	1	
1 2 3 4 5	_	5			7	_	1
Highly Uncertain Unwilling					gh 1 1		
43. State vocational workshop (Summer conference)	1	2	3	4	5	6	7
44. Regional workshops for teachers of home economics subjects	1	2	3	4	5	6	7
45. Workshops dealing with common concerns for home economics faculty within a school district	1	2	3	4	5	6	7
46. Horkshops dealing with common concerns for all faculty within a school district	1	2	3	4	5	6	7

47. Horkshops for academic credit	1	2	3	4	5	6	7
48. Workshops, no academic credit	1	2	3	4	5	6	7
49. Off-campus college or university classes/workshops/seminars for academic credit)	2	3	4	5	6	7
50. Off-campus college or university classes/workshops/seminars for no academic credit	1	2	3	4	5	6	7
51. On-campus college or university classes/workshops/seminars for academic credit	1	2	3	4	5	6	7
52. On-campus college or university classes/workshops/seminars for no academic credit	1	2	3	4	5	6	7
53. Snecific problem-oriented workshops before or after professional organization meetings	1	2	3	4	5	6	7
54. Meetings of professional organizations	1	2	3	4	5	6	7
55. Observations/Internships in other school systems and educational programs	1	2	3	4	5	6	7
56. Observations/Internships in related business and industry	1	2	3	4	5	6	7
57. Use of information centers at colleges and universities/professional meetings	1	2	3	4	5	6	7
58. Educational travel/tours	1	2	3	4	5	6	7
Below are listed possible time periods d	uri	n	1 1-	hi	c:	:	

Below are listed possible time periods during which academic credit inservice aducation programs may be scheduled. Please respond to each item according to your level of willingness to participate in that time period.

Note: One academic semester credit generally represents 15 contact hours.

Highly Uncertain Unwilling					h		_
59. SummerOne day	1	2	3	4	5	6	7
60. SummerTwo to four days	1	2	3	4	5	6	7
61. SummerOne week	1	2	3	4	5	6	7
62. SummerTwo weeks	1	2	3	4	5	ε	7
63. SummerThree weeks	1	2	3	4	5	6	7
64. SummerFour weeks	1	2	3	4	5	6	7
65. SummerEight weeks	1	2	3	4	5	6	7
66. During school year-Concentrated weekend	1	2	3	4	5	6	7
67. During school yearSaturdays	1	2	3	C	5	6	7
68. During school yearOne day during school week	1	2	3	4	5	6	7
69. During school yearHoliday vacations	1	2	3	4	5	6	7
70. During regular semesterfifteen weeks (one meeting per week) evening	1	2	3	4	5	6	7

71. During regular semester--fifteen weeks (one meeting per week) late afternoon

1 2 3 4 5 6 7 Continued

Below are listed possible time period non-acamedic inservice education prog		97. Occupational Programs in Home Furnishings	123456
cheduled. Please respond according of willingness to participate in that	to your level time period.	98. Occupational Programs in Management Aide Services	123456
1 2 3 4 5 Highly Uncertain Unwilling	6 7 Highly Hilling	99. Future Homemakers of America (FHA)/ Home Economics Related Occupations(HERC)	
70 Summer Half day		TEACHER ACTIVITIES	
•	1 2 3 4 5 6 7	100. Planning use of department space	
3. SummerOne day 4. SummerTwo to four days	1 2 3 4 5 6 7	and equipment	123456
4. SummerTwo to four days 5. Summer One week	1 2 3 4 5 6 7	101. Planning department budgets	123456
	1234567	102. Managing teaching time	1 2 3 4 5 6
	1234567	103. Managing departments with one or more teachers	1 2 3 4 5 6
7. SummerFour weeks		104. Planning curriculum	1 2 3 4 5 6
8. During school yearHalf-day	1234567	105. Evaluating and measuring student	
9. During school yearSaturdays	1234567	progress	123456
0. During school yearOne day luring school week	1 2 3 4 5 6 7	106. Evaluating program components such as follow-up of students, employment, etc.	123456
 During school yearHoliday acations 	1 2 3 4 5 6 7	107. Using counseling techniques	1 2 3 4 5 6
2. During school yearConcentrated		108. Motivating students	1 2 3 4 5 6
eekend	1 2 3 4 5 6 7	109. Using audio-visual aids	1 2 3 4 5 6
3. During regular semesterfifteen eeks (one meeting per week) evening	1 2 3 4 5 6 7	110. Conducting conferences with parents, students, employers and	
I. During regular semesterfifteen eeks (one meeting per week) late		administrative personnel	123456
ternoon	1 2 3 4 5 6 7	111. Using an advisory committee	1 2 3 4 5 6
. During extended contract		112. Coordinating secondary and	
ue-rwo weeks)	1 2 3 4 5 6 7	postsecondary programs	123456
. During extended contract	1 2 3 4 5 6 7	postsecondary programs 113. Identifying student and community needs	
. During extended contract hree-four weeks)	1 2 3 4 5 6 7	113. Identifying student and community needs 114. Planning and organizing	1 2 3 4 5 6
one-two weeks) 5. During extended contract three-four weeks) lease circle the number after each in the sollowing list as to your level of despoics to be included in inservice editorograms.	1 2 3 4 5 6 7	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home	1 2 3 4 5 6 1 2 3 4 5 6
b. During extended contract three-four weeks) lease circle the number after each in the standard list as to your level of despics to be included in inservice educations.	1 2 3 4 5 6 7 tem in the sire for ucation	113. Identifying student and community needs 114. Planning and organizing occupational programs	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
During extended contract three-four weeks) lease circle the number after each in the state of despite to be included in inservice educations.	1 2 3 4 5 6 7 tem in the sire for ucation	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home economics programs 116. Using innovative methods and	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
three-four weeks) lease circle the number after each in the standard stand	1 2 3 4 5 6 7 tem in the sire for ucation 6 7 Highly	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home economics programs 116. Using innovative methods and techniques such as simulations, etc. 117. Implementing new educational concepts	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
ease circle the number after each including list as to your level of deprice to be included in inservice editorrams. 1 2 3 4 5 Highly Uncertain Indesirable CURRICULUM CONTENT	1 2 3 4 5 6 7 tem in the sire for ucation 6 7 Highly	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home economics programs 116. Using innovative methods and techniques such as simulations, etc. 117. Implementing new educational concepts 118. Developing cooperation between administration and the home economics	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
ease circle the number after each inlowing list as to your level of despics to be included in inservice editory and the service editory and the servic	1 2 3 4 5 6 7 tem in the sire for ucation 6 7 Highly Desirable	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home economics programs 116. Using innovative methods and techniques such as simulations, etc. 117. Implementing new educational concepts 118. Developing cooperation between administration and the home economics program	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
ease circle the number after each in the second sec	tem in the sire for ucation 6 7 Highly Desirable	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home economics programs 116. Using innovative methods and techniques such as simulations, etc. 117. Implementing new educational concepts 118. Developing cooperation between administration and the home economics program 119. Planning and integrating student out-of-class experiences with classroom	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
ease circle the number after each inlowing list as to your level of despices to be included in inservice editory. 1 2 3 4 5 Highly Uncertain number and textiles CURRICULUM CONTENT Clothing and Textiles Consumer Management Skills Housing and Home Furnishings	1 2 3 4 5 6 7 tem in the stree for ucation 6 7 Highly Desirable 1 2 3 4 5 6 7 1 2 3 4 5 6 7	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home economics programs 116. Using innovative methods and techniques such as simulations, etc. 117. Implementing new educational concepts 118. Developing cooperation between administration and the home economics program 119. Planning and integrating student out-of-class experiences with classroom learning experiences	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
ease circle the number after each inlowing list as to your level of despice to be included in inservice educations. 1 2 3 4 5 Highly Uncertain Indesirable CURRICULUM CONTENT Clothing and Textiles Consumer Management Skills Housing and Home Furnishings Foods and Nutrition	1 2 3 4 5 6 7 tem in the sire for ucation 6 7 Highly Desirable 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home economics programs 116. Using innovative methods and techniques such as simulations, etc. 117. Implementing new educational concepts 118. Developing cooperation between administration and the home economics program 119. Planning and integrating student out-of-class experiences with classroom	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
ease circle the number after each inlowing list as to your level of depics to be included in inservice editograms. 1 2 3 4 5 Highly Uncertain number and Textiles Consumer Management Skills Housing and Home Furnishings Foods and Nutrition Family/Interpersonal Relations	1 2 3 4 5 6 7 tem in the stree for ucation 6 7 Highly Desirable 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home economics programs 116. Using innovative methods and techniques such as simulations, etc. 117. Implementing new educational concepts 118. Developing cooperation between administration and the home economics program 119. Planning and integrating student out-of-class experiences with classroom learning experiences 120. Choosing, obtaining, and evaluating instructional materials 121. Sharing of teaching techniques	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
dease circle the number after each including list as to your level of despites to be included in inservice editorians. 1 2 3 4 5 Highly Uncertain Uncertain Uncertain COURRICULUM CONTENT 7. Clothing and Textiles 8. Consumer Management Skills 9. Housing and Home Furnishings 10. Foods and Nutrition 11. Family/Interpersonal Relations	1 2 3 4 5 6 7 tem in the sire for ucation 6 7 Highly Desirable 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home economics programs 116. Using innovative methods and techniques such as simulations, etc. 117. Implementing new educational concepts 118. Developing cooperation between administration and the home economics program 119. Planning and integrating student out-of-class experiences with classroom learning experiences 120. Choosing, obtaining, and evaluating instructional materials 121. Sharing of teaching techniques and materials	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
ease circle the number after each inlowing list as to your level of despices to be included in inservice editorians. 1 2 3 4 5 Highly Uncertain Indesirable CURRICULUM CONTENT Clothing and Textiles Consumer Management Skills Housing and Home Furnishings Foods and Nutrition Family/Interpersonal Relations Child Development Vage Earning/Careers Occumational Programs in Child	1 2 3 4 5 6 7 tem in the stree for accation 6 7 Highly Desirable 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home economics programs 116. Using innovative methods and techniques such as simulations, etc. 117. Implementing new educational concepts 118. Developing cooperation between administration and the home economics program 119. Planning and integrating student out-of-class experiences with classroom learning experiences 120. Choosing, obtaining, and evaluating instructional materials 121. Sharing of teaching techniques and materials 122. Teaching to meet cultural, social, and/or economic needs of students	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
ease circle the number after each including list as to your level of despics to be included in inservice editors. 1 2 3 4 5 Highly Uncertain Unce	1 2 3 4 5 6 7 tem in the stree for ucation 6 7 Highly Desirable 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home economics programs 116. Using innovative methods and techniques such as simulations, etc. 117. Implementing new educational concepts 118. Developing cooperation between administration and the home economics program 119. Planning and integrating student out-of-class experiences with classroom learning experiences 120. Choosing, obtaining, and evaluating instructional materials 121. Sharing of teaching techniques and materials 122. Teaching to meet cultural, social, and/or economic needs of students	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
ease circle the number after each including list as to your level of despice to be included in inservice editorians. 1 2 3 4 5 Highly Uncertain U	1 2 3 4 5 6 7 tem in the stree for ucation 6 7 Highly Desirable 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 2 3 4 5 6 7	113. Identifying student and community needs 114. Planning and organizing occupational programs 115. Recruiting students for home economics programs 116. Using innovative methods and techniques such as simulations, etc. 117. Implementing new educational concepts 118. Developing cooperation between administration and the home economics program 119. Planning and integrating student out-of-class experiences with classroom learning experiences 120. Choosing, obtaining, and evaluating instructional materials 121. Sharing of teaching techniques and materials 122. Teaching to meet cultural, social, and/or economic needs of students	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6

<u> </u>			_			_	-		
Continue using the rating scale below t your level of desire for topics to be i in inservice education programs.					te				
1 2 3 4 5	_	6_			7				
Highly Uncertain Undesirable			De			hl: ab			
			_	_		_			
126. Incorporating research findings into the classroom	1	2	3	4	5	6	7		
127. Implementing interdisciplinary cooperative teaching approaches	1	2	3	4	5	6	7		
128. Integrating the special and handicapped student into the classroom	1	2	3	4	5	6	7		
129. Teaching energy management	1	2	3	4	5	6	7		
130. Using the computer	1	2	3	4	5	6	7		
PROFESSIONAL CONCERNS									
131. Certification requirements for occupational programs	1	2	3	4	5	6	7		
132. Home economics programs for elementary schools	1	2	3	4	5	6	7		
133. Recent trends in home economics	1	2	3	4	5	6	7		
134. Future directions affecting home economics education	1	2	3	4	5	6	7		
135. Legislation affecting home economics education	1	2	3	4	5	6	7		
13c. Public relations activities	1	2	3	4	5	6	7		
137. Development of administrative competence	1	?	3	1	5	6	7		
138. Proposal writing for special grants	1	2	3	4	5	6	7		
139. Leadership development	1	2	3	4	5	6	7		
140. Legislative involvement	1	2	3	4	5	6	7		
Refer back to items 43-58. Please list types of inservice education programs in which you have participated. Circle 1 if the inservice activity was adequate in improving your performance as a teacher; circle 2 if the inservice activity was inadequate in improving your performance as a teacher. (Add other lines if needed)									
	1	2							
	1	2							

APPENDIX B

COVER LETTER

THE UNIVERSITY OF NORTH CAROLINA AT GREENSBORO



School of Home Economics
Department of Home Economics Education,
Consumer Science, Management
(919) 379-5896

January 2, 1984

Dear Home Economics Teacher:

Happy New Year! Before settling down to your regular teaching routine, will you please take a few minutes to complete the attached questionnaire which could have an inpact on your future inservice training.

The purpose of this survey is to compare the needs and attitudes of home economics teachers in relation to inservice education. Needs and attitudes are important focal points for planning effective inservice programs.

You are one of a group of home economics teachers who is being asked to share information for this study. Your name was randomly selected from a list of home economics teachers in your region who are currently employed in the North Carolina public schools.

The individual responses to the questionnaires will be kept completely confidential. An identification number has been placed on each questionnaire in order to enable me to know which responses have been received. Your name will not be placed on the questionnaire or connected with the study.

The quality of the results of the study depends upon the extent to which all selected teachers complete the instrument. Please complete the questionnaire and return it in the self-addressed stamped envelope by January 17, 1984.

Thank you for the consideration given this request. If you wish to have a summary of the results please send your name and address when you return the questionnaire.

Sincerely.

Frances R. Tharpe Doctoral Student

Home Economics Education

rances Tharpe

Dr. Mildred Johnson

Professor

Home Economics Education

APPENDIX C FOLLOW-UP LETTER

January 18, 1984

Dear Home Economics Teacher:

About two weeks ago, a letter was mailed to you requesting your participation in a research project designed to investigate home economics teachers' needs and attitudes in relation to inservice education. A questionnaire was enclosed for your responses.

The results of the study could be useful to teachers and personnel in charge of planning and implementing inservice programs. It is important that each selected teacher respond to the questionnaire so that the results will truly represent the opinions and expressed needs of home economics teachers in North Carolina and not those of a selected interest group.

I believe this study will be of value to our educational region. Therefore, I encourage you to return the completed questionnaire to Mrs. Frances Tharpe by January 30. Please use the stamped and addressed érvelope included with the questionnaire.

Thank you for your cooperation and assistance.

Sincerely,

Vocational Education Coordinator Region

APPENDIX D

THE UNIVERSITY OF NORTH CAROLINA AT GREENSBORO



School of Home Economics
Department of Home Economics Education,
Consumer Science, Management
(919) 379-5896

January 18, 1984

Dear Home Economics Teacher:

About two weeks ago I wrote to you requesting your participation in a research project designed to investigate home economics teachers' needs and attitudes in relation to inservice education. At that time, I enclosed a questionnaire for your responses. As of today I have not received your completed questionnaire.

I have undertaken this study because I believe that if inservice programs are to be effective, teachers must be involved in planning them. Therefore, their attitudes and needs must be known. The results of this study could be useful to anyone involved in planning and implementing inservice programs.

The participants included in this study were randomly drawn from a listing of all currently employed home economics teachers in the public schools of North Carolina. It is important that each selected teacher respond to the questionnaire so that the results will truly represent the opinions and expressed needs of the home economics teachers in North Carolina and not those of a selected interest group. Therefore will you please complete the questionnaire and return it by January 27.

It is possible that our correspondence has crossed in the mail and you have sent me your completed questionnaire. If this is the case, I appreciate your participation in this study.

Thank you for your cooperation and your assistance.

Sincerely,

frances Tharpe Doctoral Student

Home Economics Education

ances Sharpe

Mildred Johnson

Professor

Home Economics Education

APPENDIX E

Number and Percentage of Responses to Statements About Inservice Education by Teachers Who Attended and Who Did Not Attend Vocational Summer Workshop

	Atte	nded	Did No	ot Attend	To	tal
Statements	<u>n</u>	%	<u>n</u>	%	<u>n</u>	<u>%</u>
Home economics inservice education programs are beneficial to me.						
Disagree Uncertain Agree	7 3 108	6 3 92	6 8 63	8 10 82	13 11 171	7 6 88
Attending professional meetings is a type of inservice education.						
Disagree Uncertain Agree	3 1 115	3 1 97	5 9 64	6 12 82	8 10 179	4 15 91
Reading professional journals is a part of inservice education.						
Disagree Uncertain Agree	4 4 112	3 3 93	7 6 65	9 8 83	11 10 177	6 5 89
Participation in inservice education programs is my responsibility.						
Disagree Uncertain Agree	4 5 110	3 4 92	8 4 65	10 5 84	12 9 175	6 5 89

	Atte	nded	Did No	ot Attend	To	tal
	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
My teaching is sufficiently competent and I do not need inservice education.						
Disagree Uncertain Agree	95 9 14	81 8 12	58 9 9	76 12 12	153 18 23	79 9 12
Inservice education should be provided only within the county where I teach.						
Disagree Uncertain Agree	84 20 16	70 17 13	44 14 19	57 18 25	128 34 35	65 17 18
It is my responsibility to update my subject matter knowledge.						
Disagree Uncertain Agree	10 1 108	8 1 91	7 3 68	11 4 87	17 4 176	9 2 89
It is my responsibility to share infor- mation and materials with my col- league						
Disagree Uncertain Agree	5 6 106	4 5 91	8 7 63	10 9 81	13 13 169	7 7 87

	Atte	nded	Did No	Did Not Attend		tal
	<u>n</u>	%	<u>n</u>	%	n	%
Inservice education programs help me to evaluate my teaching.						
Disagree Uncertain Agree	4 2 113	3 2 95	5 4 69	6 5 88	9 6 182	5 3 92
Teachers should be involved in planning inservice education programs.						
Disagree Uncertain Agree	2 1 116	2 1 97	3 1 74	4 1 95	5 2 190	3 1 96
<pre>Inservice education programs that I have attended do not meet my needs.</pre>						
Disagree Uncertain Agree	69 15 34	58 13 29	38 18 21	49 23 27	107 33 55	55 17 28
Teachers would attend the vocational summer workshop if they were reimbursed.					:	
Disagree Uncertain Agree	5 19 94	4 16 80	6 16 54	8 21 71	11 35 148	6 18 76

	Atte	Attended Did Not Attend		Did Not Attend		tal
	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
Teachers should be given release time for inservice.						
Disagree Uncertain Agree	3 9 105	3 8 90	4 2 72	5 3 92	7 11 177	4 6 91
I would attend the vocational summer workshop if I were involved in a specific responsibility.				·		
Disagree Uncertain Agree	42 22 47	38 20 42	30 29 18	39 38 23	72 51 65	38 27 34

Note. The number (\underline{n}) in each column represents responses to each of the three levels for each item. The percentage (%) shown is of the total responses of the three levels to each of the items.

APPENDIX F

Number and Percentage of Responses to Preference of Types of Inservice Education Opportunities by Teachers Who Attended and Who Did Not Attend Vocational Summer Workshop

Types of Inservice Education		Attended		Did Not Attend		tal
Opportunities	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
State Vocational Workshop (Summer conference)						
Unwilling Uncertain Willing	6 8 102	5 7 88	18 18 39	24 24 52	24 26 141	13 14 74
Regional workshops for teachers of home economics subjects						
Unwilling Uncertain Willing	5 8 104	4 7 89	8 5 64	10 6 83	13 13 168	7 7 87
Workshops dealing with common concerns for home economics faculty within a school district						
Unwilling Uncertain Willing	4 2 112	3 2 95	3 1 71	4 1 95	7 3 183	4 2 95
Workshops dealing with common concerns for all faculty within a school district						
Unwilling Uncertain Willing	10 9 99	8 8 84	10 6 60	13 8 79	20 15 159	10 8 82

Types of Inservice Education	Atte	nded	Did No	ot Attend	Tot	tal
Opportunities	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
						
Workshops for academic credit						
Unwilling	3	3	2	3	5	3
Uncertain Willing	8 107	7 91	10 64	13 84	18 171	9 88
	107	,	04	04	1/1	00
Workshops, no academic credit						
Unwilling	22	19	34	44	56	29
Uncertain Willing	28 68	24 58	16 27	21 35	44 95	23 49
-	00	50	2,	33	,,,	-12
Off-campus college or university classes/ workshops/seminars for academic credit						
Unwilling	3	3	8	11	11	6
Uncertain Willing	14 ´ 101	12 86	14 53	19 71	28 154	15 80
_	101	00	23	7 ±	134	00
Off-campus college or university classes/ workshops/seminars for no academic credit						
Unwilling	33	28	36	47	69	36
Uncertain	33 50	28 43	19 21	25 28	52 71	27 37
Willing	50	43	21	20	/1	37
On-campus college or university classes/ workshop/seminars for academic credit						
Unwilling	11	9	12	16	23	12
Uncertain Willing	22 85	19 72	24 41	31 53	46 126	24 65
	65	12	4 .⊤	23	120	00

Types of Inservice Education		Attended		ot Attend	Total	
Opportunities	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
On-campus college or university classes/ workshops/seminars for no academic credit						
Unwilling Uncertain Willing	46 32 40	39 27 34	38 21 16	51 28 21	84 53 56	44 28 29
Specific problem-oriented workshops before or after professional organi-zation meetings						
Unwilling Uncertain Willing	14 25 77	12 22 66	12 21 42	16 28 56	26 46 119	14 24 62
Meetings of professional organizations						
Unwilling Uncertain Willing	11 23 84	9 19 71	11 19 47	14 25 61	22 42 131	11 22 67
Observations/Internships in related business and industry						
Unwilling Uncertain Willing	. 9 12 97	8 10 82	4 13 58	5 17 77	13 25 155	7 13 80
Observations/Internships in other school systems and educational programs						
Unwilling Uncertain Willing	9 5 103	8 4 88	3 9 63	4 12 84	12 14 166	6 7 87

Types of Inservice Education	Attended		Did Not Attend		To	tal
Opportunities	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
Use of information centers at colleges and universities/professional meetings						
Unwilling Uncertain Willing	8 17 90	7 15 ·78	9 12 54	12 16 72	17 29 144	9 15 76
Educational travel/tour						
Unwilling Uncertain Willing	10 11 98	8 9 82	7 9 59	9 12 79	17 20 157	9 10 81

<u>Note</u>. The number (\underline{n}) in each column represents responses to each of the three levels for each item. The percentage (%) shown is of the total responses of the three levels to each of the items.

APPENDIX G

Number and Percentage of Responses to Preference for Possible Time Periods for Academic Credit Inservice Education Programs by Teachers Who Attended and Who Did Not Attend Vocational Summer Workshop

				_		
	Atte	Attended		Did Not Attend		tal
Possible Time Periods	<u>n</u>	<u>%</u>	<u>n</u>	%	<u>n</u>	%
Summer1 day						
Unwilling Uncertain Willing	12 9 94	10 8 82	12 7 56	16 9 75	24 16 150	13 8 79
Summer2 to 4 days						
Unwilling Uncertain Willing	12 11 94	10 9 80	15 9 52	20 12 68	27 20 146	14 10 76
Summer1 week						
Unwilling Uncertain Willing	29 17 72	25 14 61	34 9 34	44 12 44	63 26 106	32 13 54
Summer2 weeks						
Unwilling Uncertain Willing	51 30 36	44 26 31	54 9 13	71 12 17	105 39 49	54 20 25

	Attended		Did Not Attend		Total	
Possible Time Periods	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
Summer3 weeks						
Unwilling Uncertain Willing	71 25 19	62 22 17	59 13 4	78 17 5	130 38 23	68 20 12
Summer4 weeks		•				
Unwilling Uncertain Willing	80 23 12	70 20 10	62 12 3	81 16 4	142 35 15	74 18 8
Summer8 weeks						
Unwilling Uncertain Willing	84 22 6	75 20 5	63 10 3	83 13 4	147 32 9	78 · 17 5
During school yearConcentrated weekend						
Unwilling Uncertain Willing	35 24 57	30 21 49	32 9 36	42 12 47	67 33 93	35 17 48
During school yearSaturdays						
Unwilling Uncertain Willing	60 16 39	52 14 34	43 9 25	56 12 32	103 25 64	54 13 33

	Attended		Did Not Attend		Total	
Possible Time Periods	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
During school year1 day during school week						
Unwilling Uncertain Willing	21 12 84	18 10 72	9 4 65	12 5 83	30 16 149	15 8 76
During school yearHoliday vacations						
Unwilling Uncertain Willing	100 8 9	85 7 8	64 5 8	83 6 10	164 13 17	85 7 9
During regular semester15 weeks (1 meeting per week) evening						
Unwilling Uncertain Willing	48 16 51	42 14 44	27 19 32	35 24 41	75 35 83	39 18 43
During regular semester15 weeks (1 meeting per week) late afternoon						
Unwilling Uncertain Willing	41 18 57	35 16 49	23 13 41	30 17 53	64 31 98	33 16 51

Note. The number (\underline{n}) in each column represents responses to each of the three levels for each item. The percentage (%) shown is of the total responses of the three levels to each of the items.

APPENDIX H

Number and Percentage of Responses to Preference for Possible Time Periods for Nonacademic Credit Inservice Education Programs by Teachers Who Attended and Who Did Not Attend Vocational Summer Workshop

	Atten	Attended		Did Not Attend		Total	
Possible Time Periods	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%	
SummerHalf-day							
Unwilling Uncertain Willing	24 8 82	21 7 72	25 14 38	32 18 49	49 22 120	26 12 63	
Summer1 day							
Unwilling Uncertain Willing	21 9 85	18 8 74	26 7 45	33 9 58	47 16 130	24 8 67	
Summer2 to 4 days							
Unwilling Uncertain Willing	37 13 64	32 11 56	37 10 30	48 13 39	74 23 94	39 12 49	
Summer1 week							
Unwilling Uncertain Willing	52 15 46	46 13 40	55 9 13	71 12 17	107 · 24 59	56 13 31	
Summer2 weeks							
Unwilling Uncertain Willing	73 20 19	65 18 17	62 9 7	79 12 9	135 29 26	71 15 14	

•	Atte	nded	Did Not Attend		Total	
Possible Time Periods	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
Summer4 weeks						
Unwilling Uncertain Willing	89 18 8	77 16 7	69 7 1	90 9 1	158 25 9	82 13 5
During school yearHalf-day		٠				
Unwilling Uncertain Willing	27 12 75	24 11 66	13 ·10 55	17 13 71	40 22 130	21 12 68
During school yearSaturdays						
Unwilling Uncertain Willing	67 17 29	59 15 26	13 10 55	60 16 25	113 29 48	60 15 25
During school year1 day during school week					•	
Unwilling Uncertain Willing	28 15 72	24 13 63	14 7 57	18 9 73	42 22 129	22 11 67
During school yearHoliday vacation						
Unwilling Uncertain Willing	101 8 4	89 7 4	68 3 6	88 4 8	169 11 10	89 6 5

	Atte	nded	Did Not Attend		Total	
Possible Time Periods	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
During school yearConcentrated weekend						
Unwilling Uncertain Willing	62 15 36	55 13 32	50 8 20	64 10 26	112 23 56	59 12 29
During regular semester15 weeks (1 meeting per week) evening						
Unwilling Uncertain Willing	63 19 31	56 61 27	47 9 19	63 12 25	110 28 50	59 15 27
During regular semester15 weeks (1 meeting per week) late afternoon						
Unwilling Uncertain Willing	58 16 40	51 14 35	41 7 29	53 9 38	99 23 69	52 12 36
During extended contract (1-2 weeks)						
Unwilling Uncertain Willing	27 20 65	24 18 58	31 13 33	40 17 43	58 33 98	31 18 52
During extended contract (3-4 weeks)						
Unwilling Uncertain Willing	53 25 34	47 22 30	51 13 12	67 · 17 16	104 38 46	55 20 25

Note. The number (\underline{n}) in each column represents responses to each of the three levels for each item. The percentage (%) shown is of the total responses of the three levels to each of the items.

APPENDIX I

Number and Percentage of Responses to Preference of Topics to be Included in Inservice Programs (Curriculum Content) by Teachers Who Attended and Who Did Not Attend Summer Vocational Workshop

	Atter	Attended		Did Not Attend		Total	
Topics: Curriculum Content	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%	
Clothing and Textiles							
Undesirable Uncertain Desiralle	7 3 105	6 3 91	6 4 66	8 5 87	13 7 171	7 4 90	
Consumer Management Skills							
Undesirable Uncertain Desirable	7 6 102	6 5 89	7 4 65	9 5 86	14 10 167	7 5 87	
Housing and Home Furnishings							
Undesirable Uncertain Desirable	9 3 102	8 3 90	2 6 69	3 8 90	11 9 171	6 5 90	
Foods and Nutrition							
Undesirable Uncertain Desirable	5 2 111	4 2 94	5 4 6 9	6 5 89	10 6 180	5 3 92	
Family/Interpersonal Relations							
Undesirable Uncertain Desirable	8 4 100	7 4 89	4 0 72	5 0 95	12 4 172	6 2 92	

		Attended		Did No	Total		
Topics: Curri	culum Content	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
Child Develop	nent						
Undesirabl Uncertain Desirable	Le	6 6 104	6 5 89	6 1 71	8 1 91	13 7 175	7 4 90
Wage Earning/O	Careers		•				
Undesirabl Uncertain Desirable	Le	. 12 17 83	11 15 74	6 7 61	8 10 82	18 24 144	10 13 77
Occupational 1 Services	Programs in Child Care						
Undesirabl Uncertain Desirable	Le	34 19 61	30 17 54	20 14 41	27 19 55	54 33 102	29 17 54
Occupational I	Programs in Food Services						
Undesirab Uncertain Desirable	Le	35 16 64	30 14 56	21 11 45	27 14 59	56 27 109	29 14 57
Occupational Services	Programs in Clothing						
Undesirab Uncertain Desirable	Le	37 17 58	33 15 52	23 14 39	30 18 51	60 31 97	32 16 52

	Attended		Did Not Attend		Tot	al
Topics: Curriculum Content	<u>n</u>	% 	<u>n</u>	%	<u>n</u>	%
Occupational Programs in Home Furnishings						
Undesirable Uncertain Desirable Occupational Programs in Management	42 20 51	37 18 45	22 18 35	29 24 47	64 38 86	34 20 46
Aide Services Undesirable Uncertain Desirable	48 26 38	43 23 34	32 17 26	43 23 35	80 43 64	43 23 34
Future Homemakers of America (FHA)/Home Economics Related Occupations (HERO)						
Undesirable Uncertain Desirable	15 15 85	13 13 74	21 6 51	27 8 65 .	36 21 136	19 11 70

<u>Note</u>. The number (\underline{n}) in each column represents responses to each of the three levels for each item. The percentage (%) shown is of the total responses of the three levels to each of the items.

APPENDIX J

Number and Percentage of Responses to Preference of Topics to be Included in Inservice Education Programs (Teacher Activities) by Teachers Who Attended and Who Did Not Attend Summer Vocational Workshop

		Attended		Did Not Attend		Total	
Topics: Teacher Activities	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%	
Planning use of department space and equipment							
Undesirable Uncertain Desirable	19 11 87	16 9 74	22 13 47	29 17 54	41 24 134	21 12 67	
Planning department budgets							
Undesirable Uncertain Desirable	29 14 73	25 12 63	20 8 47	27 11 63	49 22 120	26 12 63	
Managing teaching time					•		
Undesirable Uncertain Desirable	19 9 89	16 8 76	17 7 53	22 9 · 69	36 16 142	19 8 73	
Managing departments with one or more teachers							
Undesirable Uncertain Desirable	33 11 73	28 9 62	19 13 45	25 17 59	52 24 118	27 12 61	

	Attended		Did Not Attend		Total	
Topics: Teacher Activities	<u>n</u>	%	<u>n</u>	%	<u>n</u>	% .
Planning curriculum						
Undesirable Uncertain Desirable	12 7 98	10 6 84	7 7 62	9 9 80	19 14 160	10 7 83
Evaluating and measuring student progress		•				
Undesirable Uncertain Desirable	14 12 91	12 10 78	9 7 61	12 9 79	23 19 152	12 10 78
Evaluating program components such as follow-up of students, employment, etc.						
Undesirable Uncertain Desirable	34 23 57	30 20 50	22 21 34	29 28 44	56 44 91	29 23 48
Using counseling techniques						
Undesirable Uncertain Desirable	19 15 80	17 13 70	11 11 55	14 14 72	30 26 135	16 14 71
Motivating students						
Undesirable Uncertain Desirable	4 6 108	4 5 92	5 3 69	7 4 90	9 9 177	5 5 91

	Attended		Did Not Attend		Tot	tal
Topics: Teacher Activities	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
Using audio-visual aids						
Undesirable Uncertain Desirable	21 11 84	18 10 72	14 15 48	18 20 62	35 26 132	18 13 68
Conducting conferences with parents, students, employers, and administrative personnel		•				
Undesirable Uncertain Desirable	30 21 64	26 18 56	19 11 44	26 15 60	49 32 108	26 17 57
Using an advisory committee						
Undesirable Uncertain Desirable	25 9 81	22 8 71	15 7 56	19 9 72	40 16 137	21 8 71
Coordinating secondary and postsecondary programs						
Undesirable Uncertain Desirable	28 21 68	24 18 58	15 17 45	20 22 59	43 38 113	22 20 58
Identifying student and community needs						
Undesirable Uncertain Desirable	19 15 83	16 13 71	5 11 60	7 15 79	24 26 143	12 13 74

	Attended		Did Not Attend		Total	
Topics: Teacher Activities	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
Planning and organizing occupational programs						
Undesirable Uncertain Desirable	30 19 66	26 17 .57	14 11 52	18 14 68	44 30 118	23 16 61
Recruiting students for home economics programs						
Undesirable Uncertain Desirable	8 5 102	7 4 89	8 3 66	10 4 86	16 8 168	8 4 88
Using innovative methods and techniques such as simulations, etc.						
Undesirable Uncertain Desirable	7 3 106	6 3 91	3 8 66	4 10 86	10 11 172	5 6 89
Implementing new educational concepts						
Undesirable Uncertain Desirable	6 5 105	5 4 90	3 7 66	4 9 87	9 12 171	5 6 89
Developing cooperation between adminis- tration and the home econmoics program Uncertain Desirable	15 11 90	13 10 78	8 9 60	10 12 78	23 20 150	12 10 78

	Attended		Did No	Tot	al	
Topics: Teacher Activities	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
Planning and integrating student out-of-class experience with classroom learning experiences						
Undesirable Uncertain Desirable	12 10 93	10 9 81	6 7 64	8 9 83	18 17 157	9 9 82
Choosing, obtaining, and evaluating instructional materials				,		
Undesirable Uncertain Desirable	10 4 101	9 4 88	8 4 64	11 5 84	18 8 165	9 4 86
Sharing of teaching techniques and materials						
Undesirable Uncertain Desirable	6 3 107	5 3 92	6 1 70	8 1 91	12 4 177	6 2 92
Teaching to meet cultural, social, and/or economic needs of students						
Undesirable Uncertain Desirable	12 6 98	10 5 85	5 8 64	7 10 83	17 14 162	9 7 84
Teaching in urban environment						
Undesirable Uncertain Desirable	41 20 51	37 18 46	24 15 38	31 20 49	65 35 89	34 19 47

	Attended		Did Not Attend		Tot	tal
Topics: Teacher Activities	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
Teaching in rural environment						
Undesirable Uncertain Desirable	26 16 72	23 14 63	12 13 51	16 17 67	38 29 123	20 15 65
Working with the paraprofessional		•				
Undesirable Uncertain Desirable	27 27 60	24 24 53	12 16 46	16 22 62	39 43 106	21 23 56
Incorporating research findings into the classroom						
Undesirable Uncertain Desirable	24 15 80	20 13 67	15 15 47	20 20 61	39 25 127	20 13 66
Implementing interdisciplinary cooperative teaching approaches						
Undesirable Uncertain Desirable	23 13 83	19 11 70	12 21 42	16 28 56	35 34 125	18 18 64
Integrating the special and handicapped student into the classroom						
Undesirable Uncertain Desirable	11 16 92	9 13 77	11 5 61	14 7 79	22 21 153	11 11 78

	Atte	Attended		Did Not Attend		Total	
Topics: Teacher Activities	<u>n</u>	%	<u>n</u>	%	<u>n</u>	<u>%</u>	
Teaching energy management							
Undesirable Uncertain Desirable	19 11 89	16 9 75	10 14 53	13 18 69	29 25 142	15 13 72	
Using the computer		•					
Undesirable Uncertain Desirable	6 10 104	5 8 87	5 5 68	6 6 87	11 15 172	6 8 87	

<u>Note</u>. The number (\underline{n}) in each column represents responses to each of the three levels for each item. The percentage (%) shown is of the total responses of the three levels to each of the items.

APPENDIX K

Number and Percentage of Responses to Preference of Topics to be Included in Inservice Education Programs (Professional Concerns) by Teachers Who Attended and Who Did Not Attend Vocational Summer Workshop

		Attended		Did Not Attend		Total	
Topics: Professional Concerns	<u>n</u>	%	<u>n</u>	% 	<u>n</u>	%	
Certification requirements for occupational programs							
Undesirable Uncertain Desirable	31 15 71	26 13 61	18 12 43	25 16 59	49 27 114	26 14 60	
Home economics programs for elementary schools							
Undesirable Uncertain Desirable	43 25 50	36 21 42	24 9 43	32 12 57	67 34 93	35 18 48	
Recent trends in home economics			÷				
Undesirable Uncertain Desirable	4 3 113	3 3 94	4 2 70	5 3 92	8 5 183	4 3 93	
Future directions affecting home economics education							
Undesirable Uncertain Desirable	2 4 113	2 3 95	3 3 72	4 4 92	5 7 185	3 4 94	

	Atte	Attended		Did Not Attend		
Topics: Professional Concerns	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
Legislation affecting home economeducation	nics				-	
Undesirable Uncertain Desirable	3 4 123	2 3 94	3 3 71	4 4 92	6 7 194	3 3 94
Public relations activities						
Undesirable Uncertain Desirable	9 3 106	8 3 90	5 6 67	6 8 86	14 9 173	7 5 88
Development of administrative com	petence					
Undesirable Uncertain Desirable	15 12 91	13 10 77	9 12 55	12 16 72	24 24 146	12 12 75
Proposal writing for special gran	its					
Undesirable Uncertain Desirable	31 23 61	27 20 53	19 18 39	25 24 51	50 41 100	26 21 52
Leadership development						
Undesirable Uncertain Desirable	15 10 93	13 9 79	9 11 58	12 14 74	24 21 151	12 11 77

	Attended		Did Not Attend		Total		
Topics:	Professional Concerns	<u>n</u>	%	<u>n</u>	%	<u>n</u>	%
Legislat	ive involvement						
Unce	sirable rtain rable	24 20 75	20 17 63	13 16 47	17 21 62	37 36 122	19 18 63

Note. The number (\underline{n}) in each column represents responses to each of the three levels for each item. The percentage (%) shown is of the total responses of the three levels to each of the items.