THESIS

ATTITUDE TOWARD AND OBSERVANCE OF SOME HEALTH PRACTICES

BY

RURAL PEOPLE OF COLORADO

Submitted by Beatrice C. Young

In partial fulfillment of the requirements

for the Degree of Master of Science

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of

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I HEREBY RECOMMEND THAT THE THESIS PREPARED UNDER MY
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Permission to publish this thesis or any part of it must be obtained from the Dean of the Graduate School.

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Chapter I

Part I

INTRODUCTION 1/

Among the many problems confronting rural people, the problem of health has long held a prominent place. Although numerous investigations have been made with respect to health facilities and public health programs, few have dealt with the fundamental health practices underlying health programs, the extent to which

^{1/} This study is a part of a larger project of the Colorado Agricultural Experiment Station entitled "Attitude toward and observance of some health practices by rural people of Colorado, " which is being made among rural families living on (1) irrigated farms, (2) dryland farms, (3) mountain ranches, and (4) small tracts surrounding Denver. Various steps of the study including outlining of the problem, development of the schedule, gathering of the data, and checking its validity and reliability have been developed cooperatively with Dr. R. W. Roskelley who is responsible for the Experiment Station project and is supervisor of this thesis. writer is responsible for the findings presented in this thesis, which is based upon the analysis of a part of the material that was obtained by interviewing 100 farm families living in the irrigated area of Larimer County. The field work was done in 1940 with the assistance of two part time enumerators who were employees of the Experiment Station. The cooperative work between Dr. Roskelley and the writer has been of such a nature as to insure the writer the basic opportunities for growth and development that should come in the preparation of a master's thesis and still make the data that were collected for this thesis an integrated and functional part of the larger Experiment Station study.

people observe these health practices, and how they feel toward their own observance of them. These attitudes and patterns of behavior, usually assigned to the field of sociology, form the framework of this study. The study of behavior patterns and of attitudes presents one method of attacking social problems which involve human elements.

Attitudes are tendencies to act, representing the residue of past experiences, and as such become the keystone to behavior. Through them man expresses subjectively how he feels toward any situation.

Political and business groups have found the measurement of attitudes a useful technique in "feeling out" the public before new measures are launched. Britt said, "Actually a great deal of significant work is being done in the field of attitude measurement. Polls of opinion by the American Institute of Public Opinion, Fortune Magazine, and Psychological Corporation have been well executed and have had great practical value. The Psychological Corporation in particular has reduced many a problem in business and industry to a scientific study of attitudes, always with due caution against sweeping generalizations." E/ Such a procedure seems equally applicable to social problems with attitudes forming the basis for future planning of health programs.

^{2/} Steuart Henderson Britt, Social Psychology of Modern Life, (New York: Farrar and Rinehart, Inc., 1940) p. 120.

From the general field of health arose the question as to the nature of behavior patterns of rural farm families in respect to the frequency with which they observe some of the health practices usually prescribed for healthful living and also as to their attitudes of sufficiency and nonsufficiency toward such practices.

In further defining the problem as conceived in this thesis and the methods of studying the problem, a number of subordinate questions arose, namely:

- 1. What association exists between tenere status, the frequency with which certain health practices are observed, and peoples' attitudes toward it?
- 2. In what way is the education of the homemaker related to the practice of certain health mebits and to attitudes of sufficiency toward the observance of them?
- 3. To what extent is the homemaker's participation in organizations (social, service, religious and educational) related to the frequency with which certain health habits are practiced and what effect does the degree of such participation have on attitudes of sufficiency?
- 4. What effect does the possession of a garden have upon the frequency with which certain diet items are eaten and upon attitudes of sufficiency toward the observance of this particular practice?

Part II METHODOLOGY OF THE STUDY

Although much research has been done in the field of health, little consideration has been given the fundamental health practices underlying the health programs, the extent to which people observe them, and their attitudes toward them. These behavior patterns and attitudes are usually assigned to the field of sociology and are referred to in this study as the sociological aspects of health.

Delimiting the Field

There are many aspects of the field of health. This fact presented the problem of how to delimit the field. Since the sociological aspects of health involvenot only behavior patterns but also a study of attitudes, it was decided after much consideration to limit the scope of the survey to some of the health practices usually prescribed for healthful living, the frequency with which people observe these various health habits, and their attitudes of sufficiency and nonsufficiency toward the observence or nonobservance of them.

Compilation of Health Practices

From a general knowledge of the field, a review of literature, and the case history technique, a

tentative list of health practices which seemed to be the most important for healthful living were drawn up in schedule form. To eliminate the possibility of having omitted a fundamental health practice, this list in schedule form was submitted to selected specialists in the field of health for confirmation of the choice of practices. The list in schedule form was approved by Mrs. Shanstrum, superintendent of nurses, Larimer County Hospital; Miss Ruth E. Phillips, director, Division of Public Health Nursing, State Division of Public Health, Denver, Colo.: Miss Norma Michaelson, Larimer County public health nurse: Dr. Ruth Sumner, assistant professor of physiology, Colorado State College; and Mrs. Carmen Johnson, Larimer County home demonstration agent. The final list that was decided upon was as follows:

- 1. Physical and dental examinations
- 2. Brushing the teeth
- 3. Bathing
- 4. Relaxing
- 5. Diet
- 6. Other sanitary practices

A preliminary analysis of some of the data indicated that an analysis of all the data for the six health practices was beyond the scope of a master's thesis. Therefore, it was decided to restrict the present thesis to a treatment of:

- 1. Dental examinations and attitudes toward sufficiency in this respect.
 - 2. Selected sanitary practices and related

attitudes.

3. Diet: vegetables and attitudes toward their adequacy in the diet.

Behavior Patterns, Attitudes, and Reasons

The next problem arising was that of obtaining behavior patterns and attitudes of sufficiency and nonsufficiency toward the observance of these health prac-The frequency with which people observed or did not observe the various health practices was selected as the basis of one pattern of behavior. In regard to dental examinations, however, it was necessary to distinguish between examinations made because of illness or ailment and those made voluntarily. Since the attitudes to be investigated were covert, it was felt that the only feasible method of evaluation was to accept the verbal expression of the interviewee, a common technique in sociological methodology. But was this enough in the case of an attitude of nonsufficiency? At length it was decided that the reasons behind such an attitude might be significant in regard to the total problem. The case history method was used to obtain a sample list of reasons. Six homemakers were interviewed at this time. The writer found that in many cases the reasons given by each person for an attitude of nonsufficiency were the same in regard to a particular health practice. facilitate measurement, the most common reasons for each

health practice were compiled and listed at the bottom of the schedule page following the health practice to which they related. Space was provided in the schedule for listing additional reasons at the time of the interview.

Further consideration of the problem brought up the question of other factors influencing attitudes and behavior patterns. Did education, for example, have a bearing on the attitude of sufficiency toward the observance or nonobservance of some health practice? Did it influence the frequency with which family members observed this health practice? Did age, sex, tenure status, and the like also influence them? Such questions led to the compilation of a list of factors which, it was felt. might be related to the problem of health practices and related attitudes. Again the problem was studied intensively by the case history technique and by obtaining confirmation from the specialists mentioned previously. The list of factors which it was thought would have a bearing on the behavior patterns and attitudes of persons toward health were:

- 1. Education of the head and homemaker
- 2. Age
- 3. Sex
- 4. Type of farm
- 5. Size of farm
- 6. Tenure status
- 7. Nativity
- 8. Budgeting
- 9. Insurance: health and accident
- 10. Organizations to which the homemaker

belonged and measures of her participation in them

The limited sample used for this thesis and the amount of work that could be reasonably required for a master's thesis suggested the advisibility of analyzing the attitudes and behavior patterns on the basis of but three variables, namely: tenure status, education of the homemaker, and her participation in organizations.

Other Information

Other information of a general nature was included in the schedule which had been drawn up jointly by Dr. Roskelley and the writer to serve two purposes:

(1) As a basis for this thesis, and (2) to be used later in an Experiment Station publication. This other information consists of checks on ventilation, days of illness, medical costs, and the presence or absence of gardens and dairy cows.

Selection of the Interviewee

The next major step was to decide what member of the family should be interviewed. Could the information be more easily obtained from the head, the home-maker, or from all family members? The writer assumed that the homemaker would be the best interviewee for the following reasons: (1) She was probably more actively interested in the problem of health than the other family

. . .

members; (2) she was more frequently to be found at home than other family members; and (3) children were unable to express their attitudes because of immaturity. Hence in most cases the homemaker gave the desired information. The schedule formed the basis of the interview.

The Schedule

The problem of composing the schedule was most difficult. It had to contain all the information required and answer all questions accurately and convincingly. It had to be brief and concise. All items had to be grouped logically. It had to be easy to score and convenient to carry. The questions could not be ambiguous. It had to be constructed to permit a quantitative evaluation of the data wherever possible. These criteria and many others had to be satisfied. Various plans were considered and discarded before the writer and Dr. Roskelley finally approved the final form.

Three copies were then taken into the field by the writer to be tested. Defects found in this preliminary test were corrected and a new schedule made. Fight revised copies were taken into the field by the writer and three Experiment Station investigators. Each investigator filled out two schedules. Following the field work a conference was held to discuss the difficulties encountered by each enumerator, and on the basis of their

suggestions the schedule was revised into its final form. Since the schedule was organized in conjunction with the compilation of health practices, it also received the criticism of the previously mentioned specialists in the field of health. See page 146 for a sample of the schedule.

Definitions

Certain terms which need some explanation have been used in the schedule. These definitions are consistent throughout the study.

- 1. Head --man in authority in the household.
- 2. Homemaker --woman in charge of domestic affairs.
- 3. Sufficiency --estimate of adequacy with which a health habit is practiced.
- 4. Nonsufficiency --estimate of inadequacy with which a health practice is observed.
- 5. Attitude --expression of how an individual feels toward any given situation.
- 6. Ailment -- any dental disorder which requires attention.
- 7. Voluntary -- examinations made because of habit and training rather than because of ailment.
- 8. Participation --activity in organizations.
 High --attends two-thirds of the meetings,
 pays dues, and holds office.
 Nedium --Attends one-third to two-thirds
 of the meetings, pays dues.
 Low --Attends less than one-third of the
 meetings, pays dues.

Procedure of the Interview

The following procedure was used for obtaining the information for each of the selected health practices.

Concerning dental examinations made in the year

preceding the interview, the investigator asked the interviewee, usually the homemaker, if the head of the household had a dental examination during that period. If the answer was affirmative, the investigator then asked if the visits had been made voluntarily or because of some ailment. The total number of visits, both voluntary and ailment, was recorded on the schedule under the frequency of dental examinations. The homemaker was then asked if the number of visits made by the head had been sufficient. An affirmative reply was recorded in the "yes" column under "sufficiency." If the homemaker said the number of visits had been inadequate, then a check for each visit was made under "sufficiency" in the "no" column. The interviewer through direct or indirect questioning determined the reason or reasons for an attitude of nonsufficiency. If the reasons were among those listed at the bottom of the schedule page, the corresponding number was placed in the column provided for reasons. Additional reasons were written on the schedule, numbered, and recorded in a like manner. Replies which were not ascertainable (NA) were also indi-Similarly, entries were made for each family member living in the household at the time of the interview.

The method of obtaining the information was

essentially the same for each health practice, although the approach varied. The more personal health practices were approached indirectly; for example, the question of bathing was related to the bathing facilities in the home. Significant comments made during the interview were recorded on the margin of the schedule.

Editing

At the close of each day the schedules obtained by each worker were edited by him. After the field work was completed the next step was the editing of the schedules by the writer. This was done with the center of attention being on missing and incomplete entries as well as on the system of scoring -- NA (nonascertainable items), zeros, and blanks.

Types of Information

quantative data brought to light the fact that the schedule was composed of the following types of information sought: (1) Information of such a personal nature that the only surety of accuracy was dependent on a general confirmation of the integrity of the interviewee as obtained from a secondary source, (2) information which could be checked by observation, (3) information about which a reliable estimate of accuracy could be made by community leaders and friends of the interviewee.

Validity and Reliability

The problem of reliability and validity had been anticipated before the field work was begun. Several possibilities of testing it were discussed at that time. The very fact that the information contained in the schedule was so favorably received by specialists in the field of health, together with the fact that at their suggestions questionable items were discarded, indicated that they believed it possible to get the desired information from the people by means of the schedule and personal interviews. After the interviewing was completed it was felt that reliability could best be tested by checking each schedule with a community leader and a friend of the interviewee. The schedule and separate diet sheet which had been made were taken into the field and the various items rechecked by these community leaders and friends. Any changes that were made were noted in red pencil. With the exception of diet, about which a fairly accurate estimate could be made, the checks consisted in the observation of various items. such as screening, fly control, and condition of water containers, and the confirmation of the integrity of the interviewee.

Coefficients of correlation were computed for some of the information about which a fairly reliable estimate of accuracy could be made, specifically the diet

items. Fight diet items were selected at random and two sets of correlations were computed, one for the information obtained by the interviewer and checked by the community leader and the other for information obtained by the interviewer and checked by a friend of the interviewee. In turn the reliability of these computed correlations was estimated by the computation of the standard errors of the coefficients of correlation obtained. The unknown true coefficient of correlation measuring reliability was then considered with reasonable certainty not to differ from the sample coefficient of correlation by more than twice the latter's. Thus a fair measure of at least part of the survey questionnaire was determined. Tables 1 and 1a show the results of the correlations and the standard error for each coefficient.

TABLE 1.—COEFFICIENT OF CORRELATION AND STANDARD ERROR OF SOME DIET ITEMS OBTAINED BY INTERVIEWER AND CHECKED BY FRIENDS

DIET ITEMS	SUMMER		GINTER	
	r	0		0
#1k	1.	0.	1.	0.
Vegetable Protein	1.	0.	1.	0.
Sggs	1.	0.	.6438	.0283
Butter	.9990	.0001	.9962	.0005
Fresh Fruit	.8073	.0238	.6735	.0373
Meat	.7209	.0328	.9994	.00008
Citrus Fruit	.6927	.0355	.7968	.0249
Green Leafy Vegetables	. 6658	.0380	.8201	.0223

Note: Coefficient correlations and S.E. are based on 215 cases.

TABLE 1a.--COEFFICIENT OF CORRELATION AND STANDARD ERROR OF SOME DIET ITEMS OBTAINED BY INTERVIEWER AND CHECKED BY COMMUNITY LEADERS

DIET ITEMS	SUMMER		WINTER	
	r	0	r	0
ers.	1.	0.	.6594	.0353
Butter	.9997	.00008	,9959	.0005
Vegetable Pretein	.9850	.0019	.9205	.0095
Citrus Fruit	.7955	.0029	.7802	.0244
Fresh Fruit	.7776	.0247	.8197	.0205
Meat	.6573	.0354	.7333	.0258
wilk .	,6544	.0357	.6584	.0353
Green Leafy Vegetables	• 6538	•0357	•8508	.0172

Note: Coefficient correlations and S.E. are based on 257 cases.

Information which could be checked by observation was assumed to be correct since the enumerators either recorded disagreements with an item on the margin of the schedule or discussed a doubtful item until it was satisfactory to both the interviewee and the enumerator. Information of a personal nature was checked only by a confirmation as to the integrity of the individual interviewed.

The high correlations showed that roughly the same information which was obtained during the interview could also be obtained from a community leader or friend of the interviewee. However, an aggregate standard error of the coefficient of correlation is necessary to show which procedure is best to follow. Since the writer is

interested only in indicating that the information could be obtained from a friend or community leader, it is not necessary to use this standard error which is merely a technique for deciding if the friend was a better source of information than the community leader and vice versa.

Tabulation

Where answers did not agree with those of either a friend or community leader, the data was tabulated on the basis of the statements of the friend or community leader as being possibly more reliable.

within many of the categories the samples were so small that only possibilities of trends were suggested. A more exhaustive study would be needed to show conclusively whether or not these suggested trends are of a definite nature.

In order to determine a significant difference between two sample percentages, it is necessary to apply a statistical technique. Two sample proportions, p₁ and p₂ may be considered to differ significantly if:

$$\frac{P_{1} - P_{2}}{\sqrt{p^{1}q^{1}}} \sqrt{\frac{N_{1} N_{2}}{N_{1} + N_{2}}} > 1.96$$

where

 P_1 and P_2 are the two percentages N_1 and N_2 are the total number of cases

$$p^{1} = \frac{N_{1}R_{1} + N_{2}P_{2}}{N_{1} + N_{2}}$$

$$q^{1} = 1 - p^{1}$$

and where the critical value 1.96 is based upon an arbitrary level of significance of .05.

Example:

P₁ = observed proportion of tenant class who visit a dentist because of ailment

P₂ = observed proportion of owners who visit a dentist because of ailment

N₁ = 51 = total number of tenants in sample

 $N_{p} = 47 = total$ number of owners in sample

 $P_1 = .353$

 $P_2 = .181$

$$p^{1} = \frac{N_{1}P_{1} + N_{2}P_{2}}{N_{1} + N_{2}} = \frac{18 + 8.5}{98} = \frac{26.5}{98} = .27$$

$$q^{1} = 1 - p^{1} = .73$$

$$\frac{P_1 - P_2}{\sqrt{\frac{p^1 q^1}{p^1 q^1}}} \sqrt{\frac{N_1 N_2}{N_1 + N_2}} = 1.91 > 1.96$$

Hence the difference must be considered not significant, although significance is admittedly approached.

The writer has recognized the need for the application of such precise statistical techniques in

order that complete confidence may be placed in the conclusions. However, because of the fact that the variation in many of the comparable proportions is not extreme and since the number of samples in many cases were limited, it was recognized that but few of the cases of definite significance could be proved. Hence it was decided to suggest the possible trends and their evaluation rather than limit the discussion to those few points of difference which statistical analysis would confirm as existing for a more general population. Thus to a considerable degree this study must be construed as descriptive of a limited situation rather than as of an analytical nature endeavoring to establish generalizations.

Presenting the Findings

In analyzing and presenting the findings of the survey with which Chapters III, IV and V will deal, it was necessary to eliminate many of the minor details connected with the study and to stress only the most important differences which were found. Since the writer is interested in presenting the material not so much for the technical reader as for the layman, the findings are presented in a general rather than a technical fashion. Implications and comments made during the interview have been included in the body of the discussion.

In order, hereafter, to emphasize certain comparisons and to make the meaning and import of the aggregate collected information more readily understandable,
such devices as tables and graphs are freely employed.
They serve to suggest possibilities of trends and differences and also as a convenient basis upon which to rest
the incident discussion. See the footnote below Figure
4 for explanation of the legend relating to education of
the homemaker.

Part III

SOME CHARACTERISTICS OF THE PEOPLE

In every group of human beings, certain aggregate or population characteristics are found which not
only provide a basis for a general description and
understanding of the nature of the group but also often
directly influence group practices and habits to an
extent that definite trends may be observed.

Some of the fundamental group characteristics of the people with regard to whom the survey was conducted follow:

Sex distribution

Males	
Parents	97
Children	107
Females	
Parents	99
Children	71

Nativity Native born----- 90.0% Foreign or mixed parentage -- 3.0% Foreign born----- 6.0% Nonascertainable----Education of the head and homemaker Grade school (0-8) Head----- 23.5% Homemaker---- 20.0% High school (9 - 12)Head----- 19.0% Homemaker---- 18.5% College (13 - 16) Head----Homemaker---- 9.0% Nonascertainable--- 6.5% Tenure status Owner additional --- 2.04 Owners----- 48.0% Tenants----- 51.0% Organizations to which the homemaker belonged and measure of her participation in them Belonged to no club----- 49.0% Belonged to one or more clubs--- 51.0% Type of organization and measure of participation per homemaker Extension club---- 11 High----Medium----Poh-----Service---- 15 High

Medium------Low----

Social----- 45
High---- 28
Medium---- 8

Church
Mixed1
Budgets
Groceries Yes 33.0% No 67.0% Medical care Yes 16.0% No 84.0%
Insurance
<u>None</u>
Parents 79.0% Children 90.7%
<u>Health</u>
Parents 1.0% Children 1.1%
Accident
Parents 4.00% Children 0.55%
Health and accident
Parents 3.00% Children 0.55%
One or other of the parents insured 13.0% One or more children but not all insured 7.1%
Vaccination and immunization, Tuberculin test
Tuberculin test
Parents 2.0%

	Children not attending school*20.8% Children in school
D	iphtheria
	Parents
In two fa	milies, only part of the children were d and immunized.
<u>s</u>	mall Pox
	Parents
I	yphoid
	Parents
<u>k</u>	hooping Cough
	Parents
. T	

* In two families part of the children were not vaccinated or immunized.

Chapter II

REVIEW OF LITERATURE

Although much of the literature reviewed was not directly related to the thesis problem, it nevertheless served as a frame of reference for the study.

Research conducted by the United States

Public Health Service and other state experiment stations have considered such problems as public and rural health facilities, sickness and medical care, and vital statistics. Very little attention has been given to the problem of behavior patterns as they are related to the field of health. The following studies are most closely related to that of the writer.

Isabella C. Wilson and William H. Metzler (15) writing of sickness and medical care in the Ozarks stated that 15 percent of the families and 5.1 percent of all persons used the services of a dentist. The principal reason given for not having had the teeth cared for was lack of funds. The study also included information on the type and availability of medical care and the relationship of sickness and medical care to income groups, residence, and occupation and tenure.

A section of a survey of health facilities

and agencies and the extent they are used by rural people in Ross County, Ohio, was also devoted to dental care. C. E. Lively and P. G. Beck (9) in 1927 found that of the 200 families studied 89 had dental care. Forty-seven families were classified as owners, 26 as renters, and 16 as laborers and others. Dentists credited examinations made at school for the increase of children who visited a dentist. The data as well as the field observation revealed that the dental work done was mainly a matter of relieving an aching tooth.

In a survey of the rural health situation in South Dakota W. F. Kumlien (7) reported with respect to sanitation that the majority of homes in Brookings County maintained a fairly satisfactory water supply and that the milk supply was of at least average grade. The remainder of the bulletin was devoted to general facts about health agencies in South Dakota and particularly to the health conditions in Brookings County.

Mr. Kumlien in the same survey found that the showing of people in Brookings County with respect to vegetables in the diet was quite good. Besides potatoes, some vegetables, cooked or raw, were served 7.49 times per week for country families and 9.58 times for town families.

Mary M. Clayton (3), studying the food habits and physical condition of children in some Maine commun-

ities, found that very few children in the localities visited ate raw vegetables. Sixty-three percent had cooked vegetables on the day preceding the interview. Two succulent vegetables, excluding tomatoes, were eaten by 21.6 percent of the children, while one succulent vegetable was eaten by 31.3 percent. Over one-half (55.2 percent) had potatoes once a day but almost one-third (30.3 percent) had them twice or more. Miss Clayton also stated that there was a relatively low consumption of milk, fruits, and cooked and raw succulent vegetables in the children's diet.

Miss Anna Heisler (5) indicated a health need pertinent to Larimer County, Colo., when she stated in her survey of public health nursing, "Also community interest in developing a health program for the family as a whole or for the community as a whole seemed to be almost entirely lacking."

Letters were sent to the United States Public Health Service and the Division of Public Health for the state of Colorado inquiring about studies similiar in nature to that undertaken in this thesis. The writer was informed that to the best of their knowledge no such study had been made.

Chapter III

PRACTICES AND ATTITUDES RELATING TO DENTAL HYGIENE

Within recent years more emphasis has been placed upon dental hygiene, particularly upon the care of the teeth as a preventive measure. Medical science has brought to light the fact that many physical disorders originate as the result of poor teeth. For this reason a great deal has been done in an effort to educate the public as to proper and desirable dental practices. The elements of dental hygiene have been presented not only in our educational system, but also through the media of radio, popular literature and advertising, and many varied educational programs.

It is of importance in this study to examine the extent to which rural people follow recommended dental practices. How do they regard the adequacy of the care given their teeth? Do children follow the same dental practices as their parents? Does the frequency of brushing the teeth bear any relationship to seeking dental examinations? Does tenure status, education of the mother, or her participation in organizations have any bearing on the problem?

General information as to the extent to which these rural people, parents and children, have dental examinations, together with the reasons therefore, may be gained from a consideration of Figure 1. This percentage distribution graph classifies the families according to their tenure status, thus making comparisons on this basis possible.

Scale of Percent

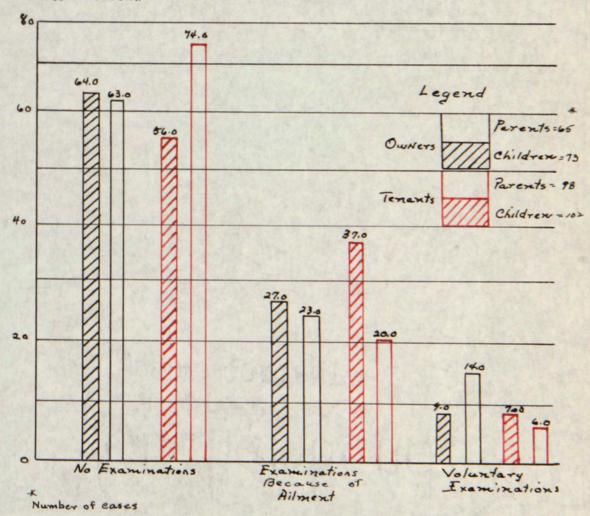


Fig. 1.--Percentages of owners and tenants (both parents and children) who did not have dental examinations, who had such examinations because of ailment, or who had them voluntarily

The most striking point evidenced by the data is that the majority of families, both tenants and owners, had no dental examinations at all during the year. Apathy in regard to visiting a dentist is rather general, notwithstanding the flood of educational propaganda on this point. Also, with but slight variation, children tended

to follow the example set by their parents with respect

to visits to the dentist.

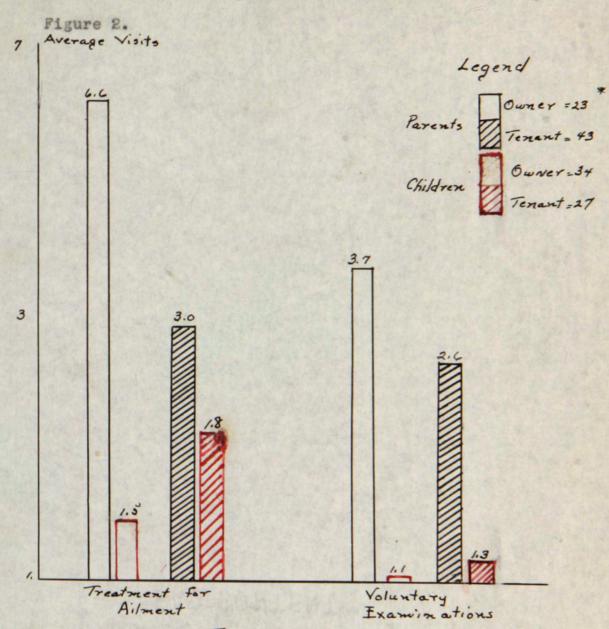
اق الوسر : ماييات

tenure status seems slight. Although more families owning their farms (parents 9 percent, children 14 percent) voluntarily sought dental check-up than did tenant families (parents 7 percent, children 6 percent), the differences appear to be too small to be regarded as significant. It is rather surprising that parents in both owner and tenant families visited the dentist either voluntarily or by reason of ailment more often than did their children, with the only exception noted in the case of voluntary examinations by members of owner families.

It is noteworthy that in general more dentist visitations were made because of ailment than were made voluntarily. Without doubt toothaches were a stronger motivating influence than was education in regard to this practice.

A comparison of owners with tenants as well as parents with children in regard to the frequency of

dental examinations per individual is facilitated by



Type of Examination

Fig. 2.--Average number of dental examinations for persons having such examinations classified with respect to tenure status.

^{*} Number of cases

In the matter of the number of dental examinations per person, regardless of the motivating reason, an entirely different type of family pattern than that depicted by Figure 1 persists. Parents make far more visits to the dentist per person than do their children. Dental ailments of the parents were probably more serious than those of the children, thus accounting for more visits, but the reason for the difference in the case of voluntary examinations is not very evident. As mentioned previously ownership and tenancy appear to have slight relationship to dental examinations with the exception of per person frequency of dental examinations of parents, but the association of tenure status with this practice as far as children are concerned seems negligible.

全边

TABLE 2. --NUMBER AND PERCENT OF PERSONS IN EACH CLASSIFICATION (OWNER, TENANT, PARFNT, CHILD) WHO, IN THE OPINION OF THE HOMEMAKER, HAD A SUFFICIENT OR NONSUFFICIENT NUMBER OF DENTAL EXAMINATIONS

ል ሞም ተሞተበድ ቤ ምር -		OWNER	H.			THANT	'NT.	
WARD DENTAL		PAPENTS	CHI	CHILDREN	Yd	PARENTS	ายอ	CULLDREN
examinations	Mumber	Percent	Number	Percent Number	Number	Percent	Number	Percent
Sufficient	43	0•99	39	85.0	78	79.0	37	85.0
Nonsufficient	ઉપ હેરો	34.0	Ħ	15.0	SS	21.0	1. 33	15.0
Total	6 55	100.0	73	100.0	98	100.0	301	100.0

An analysis of attitudes evinced by these rural people as to the adequacy of their visits to the dentist is exhibited in Table 2. Here two points deserve mention. As a whole, the parents seemed to be more satisfied as to the sufficiency of the professional dental care provided for their children than for themselves. As to tenure status, 34 percent of the parents who were owners admitted a feeling of dissatisfaction in regard to their adequacy of their dentist visitations, whereas but 21 percent of the tenant parents indicated a similar

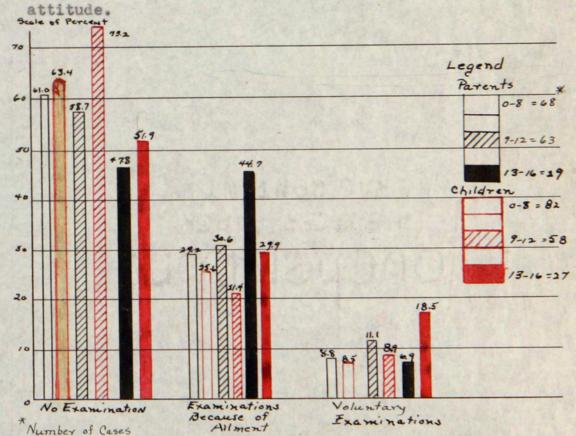
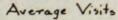


Fig. 3.--Percentages of both parents and children who did not have dental examinations, who had such examinations because of ailment, or who had them voluntarily, classified by the degree of education of the homemaker.

Information relative to possible association of the prevalency of dental examinations with the degree of formal schooling possessed by the nother of the family is presented in Figure 3. Here the practices of both parents and children are comparatively portrayed under three categories of education possessed by the homemaker. Although, as was indicated before, most persons had no examination at all within the year preceding the survey, there appears to exist a general and definite tendency relating the practice of parents seeking professional dental care with superior education as possessed by the mother, with one exception being in the case of voluntary examinations. The transfer of the benefits of education to daily living, although perhaps slow and only partial in nature, is nevertheless quite real and recognizable. In this graphic analysis, like that for tenure status, children in general seemed to receive less professional dental attention than did their parents. A possible reason for this condition might have been a hesitancy on the part of the parents to incur expense in having the temporary teeth of their children cared for properly. Another conclusion permitted by a study of the data is that a college education apparently influenced homemakers to see to it that their children had voluntary dental examinations but did not produce a like reaction in regard to themselves and their husbands.



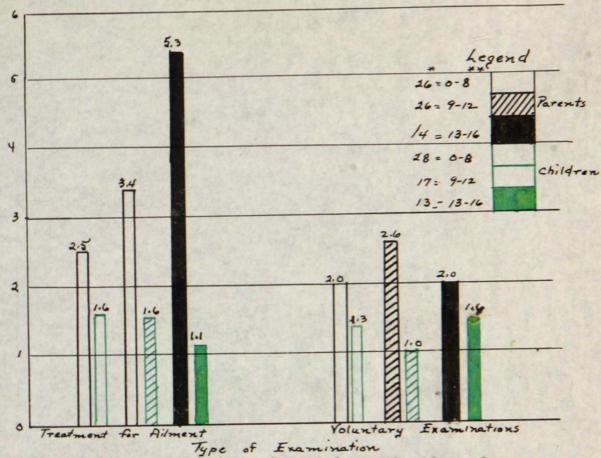


Fig. 4.--Average number of dental examinations for persons having such examinations (parents, children) classified with respect to educations of the homemaker.

0-8 Grade school education 9-12 High school education 13-16 College education

^{*} Number of Cases

TABLE 3. -- ATTITUDES OF HOMEMAKERS REGARDING SUFFICIENCY OF DENTAL EXAMINATIONS FOR PARENTS AND CHILDREN COMPARED BY EDUCATION OF THE HOMEMAKER

ATTITUDES	0	0 - 8 YEARS	TEARS			9 - 12 YEARS	YEARS		r-f	13 - 14 YFARS	YFARS	
	PARENTS	3	CHILDREN	REN	PARENTS	TS	CHILDREN	REN	PARENTS	TS	CHILLPRIN	PEN
	Number of Persons	L		r t	Number of Persons	Per- cent	Number of Persons	Per- cent	Number of Persons	Per- cent	Per- Number cent of Persons	Per- cent
Suff1- clent	53	77.5	76	92.7	51.	80.9	48	92.8	16	ಸು ಕಾ ೧/	13	44.4
Nonsuff1- clent		22.5	9	7.3	12	19.1	10	17.2	21	44.8	හ	१६ ६४ ६४
Total	69	100.0	82	100.0	83	100.0	58	0.001	62	0.001	. L3	100.0

In order to investigate more completely a possible bearing of education of the mother upon the practice of having dental examinations, as well as upon attitudes of sufficiency in this respect, attention is directed to Figure 4, depicting average number of dental examinations, and to Table 3, showing the distribution of attitudes regarding adequacy. From Figure 4, one new piece of information is obtained. There is a direct tendency for a greater average number of dentist visitations by parents for needed treatment to be associated with the degree of formal schooling possessed by the mother. This trend does not persist in the case of voluntary examinations, nor does it carry over to the children.

Table 3 gives evidence as to the existence of two somewhat different trends in attitudes of sufficiency. A substantial decrease in the prevalency of the feeling of satisfaction as to the sufficiency of dental examinations for parents is not noted until the education of the homemaker reaches the college level. On the other hand, with regard to their children, an inverse relationship between the degree of education possessed by the mother and the frequency with which satisfaction of sufficiency was expressed is rather definitely continuous.

In designing and planning the survey it was recognized that homemakers might very well have been

mental health practices and precautions emanating from sources other than formal schooling. Participation of mothers in clubs, organizations, and community activities with at least a partial educational implication was selected as possibly having some bearing on the health practices of their families. Four degrees of such participation are employed in the subsequent analysis and discussion of dental hygiene habits.

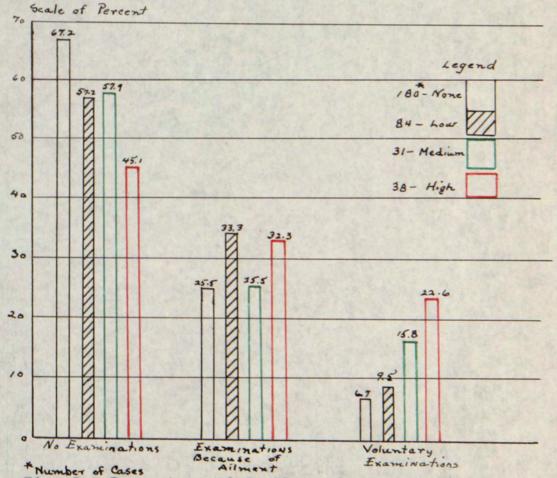


Fig. 5.--Percentage of family members who did not have dental examinations, who had such examinations because of ailment, or who had them voluntarily, classified by the degree of participation of the homemaker in organizations.

Figure 5 indicates that there exists something of a distinct trend for an increase in participation in such organizations to be accompanied by a decrease in the cases of neglect and an increase in the number of voluntary dentist visitations. With regard to cases where treatment was needed, no connection with organization activity is evidenced. It is true that organization participation might be strongly correlated with formal education, and hence it would be unwise to attempt any comparative evaluation of their relative importances in affecting dental hygiene practices.



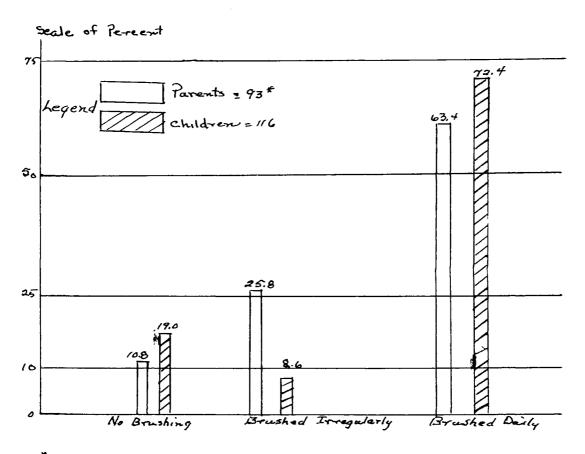
Fig. 6.--Average number of dental examinations for persons having such examinations, classified with respect to the degree of participation of the homemaker in organizations.

An examination of Figure 6 produces comparisons based upon the average number of dentist visitations, both voluntary and because of ailment, among the four classifications of participation by the homemaker in social, religious, educational, and service activities. There appeared to be less need for treatment due to ailment in families where the mother was active in varied organizations. Furthermore, in families where the mother was most active in this sort of work an increased tendency to make voluntary dental examinations a part of the general family health routine is clearly noticeable.

TABLE 4. --NUMBER AND PERCENT OF PERSONS IN FACH CLASSIFICATION OF PARTICIPATION BY THE HOMEMAKER, HAD A SUFFICIENT ONLY ENAMINATIONS OF NONSUFFICIENT NUMBER OF DENTAL EXAMINATIONS

	A) (ON	B	107		MEDIUM	M	HIGH	Part 1
ATTITUDES	Mumber of Persons	Percent	Number of Persons	Percent	Number of Persons	ercent	Number of Persons	Percent
Sufficient	148	78.9	29	3 * 28	43	1.78	20	78.9
Not Sufficient	38	21.1	16	12.8	4	0°31	8	1.13
Totel	180	0.001	. 32	100.0	51	0.001	88	100.0

Table 4, which presents frequencies and percentages with which attitudes of sufficiency and nonsufficiency regarding professional dental care were expressed by the mothers classified according to the degree of their organization activity, offers little hint of the existence of any trend.



* Number of Cases

FIG. 7.--Percentages of parents and children having no dental examinations, who did not brush their teeth, brushed them irregularly, or brushed them daily.

Figure 7 suggests that the children possess better and more regular habits than do their elders. This conclusion results from a comparison of the percentages of those who brush their teeth irregularly with those who have acquired a daily habit. The fact that a greater percentage of children than parents have no toothbrush habit at all is easily accounted for by the infancy of many of the children.

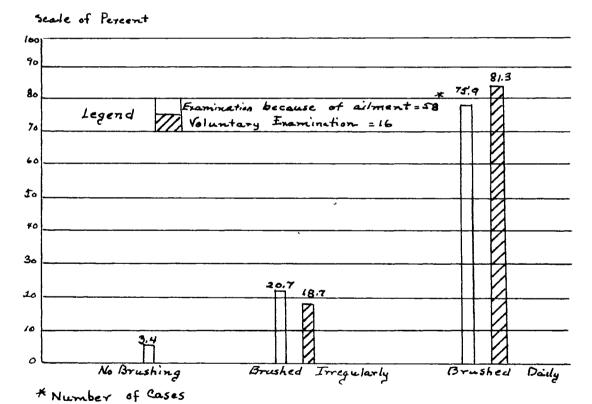


Fig. 8.--Percentage of parents having dental examinations, who did not brush their teeth, brushed them irregularly, or brushed them daily.

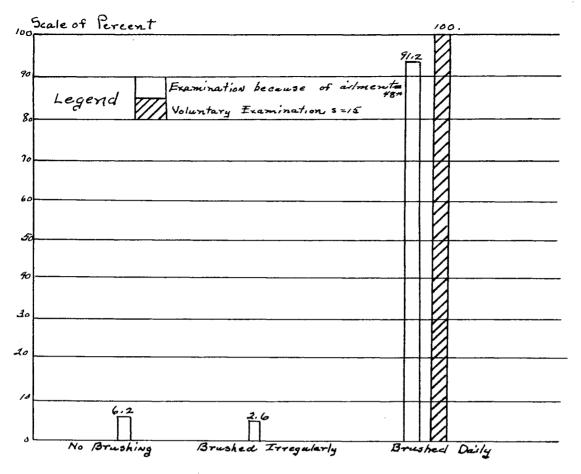


Fig. 8a.—Percentage of children having dental examinations, who did not brush their teeth, brushed them irregularly, or brushed them daily.

* Number of Cases

An analysis of Figures 8 and 8a permits several interesting inferences. It would appear that the people who have dental examinations are those who are most regular in the home care of the teeth. This fact is more pointedly evident with regard to the children than to the parents. However, cause and effect inferences in this matter may result in conclusions which are entirely unjustified. Nevertheless, it seems but natural to expect that a high percentage of those people who visit their

dentist voluntarily would be found to brush their teeth regularly. This conclusion is vividly illustrated by the graphs.

Paradoxically, however, those who needed a dentist's care because of ailment, also, for the most part (parents 75.9 percent, children 91.2 percent), brushed their teeth regularly. Various constructions may be placed upon this evidence, but since it is universally recognized that daily brushing cannot create good teeth but can only help to preserve them, it is reasonable to assume that concern over poor teeth and resultant dentist visitation tended to produce more regular home dental hygiene practices. The data confirm the contention that toothaches and consequent visits to the dentist tend to result in the formation of daily brushing habits.

Tables 5a, 5b, and 5c present frequencies with which various reasons were forwarded in explanation of attitudes of nonsufficiency in regard to dental examinations. These three tables are based upon tenure status, degree of education of the mother, and the extent of her participation in organizations, respectively.

TABLE 5a.--REASONS ADVANCED BY HOMEMAKERS FOR CONSIDERING THE NUMBER OF DENTAL EXAMINATIONS RECEIVED BY THEIR FAMILY MEMBERS AS INSUFFICIENT, CLASSIFIED BY TENURE STATUS

REASONS FOR	-	OW	OWNER			TH	TENANT	
ATTITUDE OF	PAREN	TS		CHILDREN	PAR	PARENTS	CHI	CHILDREN
NONSUFFICIENCY	Number	Per- cent	Number	Per- cent	Number	Per-	Number	Per- cent
Fear of pain			Н	7.7		3.9		
Lack of money	10	50.0		46.3	17	65.4	13	31.3
Put off visit	10	50,0	3	23.0	4	15.4	બ	18.7
Fear of what may have to be done	0	0.0	ଌ	15.4	4	_ ភ ខ		
Weglect	0	0.0	-1	7.6				
Total	20	100,0	13	100.0	93	100.0	16	16 100.0

Note: Owner Additional (1 case) not included.

TABLE 55.--REASONS ADVANCED BY HOWEMAKERS FOR CONSIDERING THE NUMBER OF DENTAL EXAMINATIONS RECEIVED BY THEIR FAMILY MEMBERS AS INSUFFICIENT, CLASSIFIED BY EDUCATION OF THE HOMEMAKER

REASONS FOR		0	8			6	31 - 6			13 - 16	16	
ATTITUDE OF	PARENTS	1	CHILDREN	REN	PARENTS	TS	CHILDREN	REM	PARENTS	TS	CHILDREN	KEN
MONSUFFICIENCY	Number	Per-	Number	Per-	Number Per-Number Per-	Per-	Number	Per-	Number Per- Number Per-	Per-	Number Per-	Per-
		cent		cent		cent		cent		cent		cent
Fear of paln			-1	9.1					H	7.1		
Lack of money			\$	45.5	31	66.7	4	70.0	රි	64.3	£~	87.5
Put off visit	ဖ	37.5	છ	27.3	9	33.3	ŧΩ	30.0	េ	21.4		
rear of what												
be done	ω.	31.3	8	18.1					-1	7.2		
Neglect	Q.	31.8									-4	12.5
Total	16	100.0	11	100.0018		100.0	10	10 100.0		14 100.0	ප	100.0

TABLE 5c.--REASONS ADVANCED BY HOMEMAKERS FOR CONSIDERING THE NUMBER OF LENTAL EXAMINATIONS RECEIVED BY THEIR FAMILY MEMBERS AS INSUFFICIENT, CLASSIFIED BY THE DEGREE OF PARTICIPATION BY THE HOMEMAKER IN ORGANIZATIONS

REASONE FOR		NONE	H			LOW	池			KED	KEDIUM			HICH	ш	
ATTITUDE OF	2	PARENTS	CHILDREN)REN	PARENTS	ITS	CHI	CHILDREN	PARENTS	ATS	CHI.	CHILDREN	PAR	PARFNTS	CHILLREN	REN
NONSUFFI-	-ann	per-		١.	-wn		-un N		-any	Num- Per-	Num-	Per-	Num-	Num- Per- Num- Per-	Mum- Per	Per-
CIENCY	er	cent	per	cent	per	cent	per	cent	Der	cent	ber	cent ber	ber	cent ber	ber	cent
Fear of pain	·												1	25.0	H	25.0
Lack of	12	12.5	14	63.8	10	71.4	હ	0.00	93	50.0						
Put off visit	ಬ	20.8		28.7		28.6			લ્ય	50.0		1 100.0	10	75.0	5 C	75.0
Fear of																
what may have to be done	4	16.7	લ	9.1												
Weglect			Н	4.6												
Total	24	24 100.0 22	32 22	100.0	14	100.0 14 100.0	Q.	2 100.0 4 100.0 1 100.0 4 100.0 4 100.0	4	100.0	Н	100.0	4	100.0	4	100.0

Sparse sampling and the danger of lack of honesty in these expressions make any attempt to interpret the data for possible trends rather futile. Lack of money and an apathetic inertia appear to be the principal reasons advanced for failure to visit the dentist. These data are included more for the sake of completeness than as evidence of the existence of any trends or patterns.

many thought-provoking and sometimes amusing comments were interpolated by the people interviewed. A frequent statement made in connection with dental examinations was, "If I did'nt feel well, I'd go more often." One homemaker thought it wise not to see a dentist too frequently because "Cleaning cracks the teeth and makes them decay easier." Several men attributed their poor teeth to what they felt was inadequate dental care during the first World War.

In summary of the material of this chapter it seems worthwhile to reemphasize the following findings and conclusions.

1. A large majority of the people included in this study, both parents and children, had no dental examination whatever during the year preceding the survey.

- 2. With respect to those who did undergo examination, actual ailment was a far stronger motivating force than any educational influence.
- 3. Definite family patterns persist both as to dentist visitation and home practices in the care of the teeth.
- 4. Associations of tenure status with dental hygiene practices seemed to be slight and unworthy of serious consideration.
- 5. There exist definite trends of correlation of better dental health habits with a higher degree of formal education of the homemaker. Satisfaction with the adequacy of family dentist visitations diminished with a higher level of schooling possessed by the mother.
- 6. A greater degree of participation by the homemaker in activities appeared to have some influence in bettering the family dental hygiene practices.
- 7. Dentist visitation, both voluntary and because of ailment, was highly correlated with regular home care of the teeth.
- 8. The principal reasons advanced for insufficient professional care of the teeth were lack of money and an admitted apathy in regard to the matter.

Chapter IV

PRACTICES AND ATTITUDES RELATING TO CERTAIN PHASES OF FARM SANITATION

Within recent years much attention has been centered on the role which sanitation plays in the community. Most people in urban centers accept complacently the sanitary measures designed to safeguard the health of their families or are quite ignorant in regard to these The incidence of milk- or water-borne diseases measures. has fallen markedly by reason of regular and thorough inspections of these possible sources of infection. Likewise, with about 70 percent of the meat in the United States now inspected, there is less possibility of food poisoning from this source. In crowded centers of population these sanitary measures are enforced, but the extent to which they are practiced by rural families is open to question and invites inquiry. Again, is ownertenant status or the degree of education of the homemaker in any way associated with the practice of certain types of sanitary precaution or with the recognition of a need therefore?

Because of the fact that inspection of water supply is primarily dependent upon the source of supply, it was regarded as essential to make inquiry regarding

the nature of the source of supply. In the case of the 100 farms considered in this study, it was found that more than two-thirds were supplied with city water, either piped from the Fort Collins or Greeley waterworks or else hauled and then stored on the farm premises.

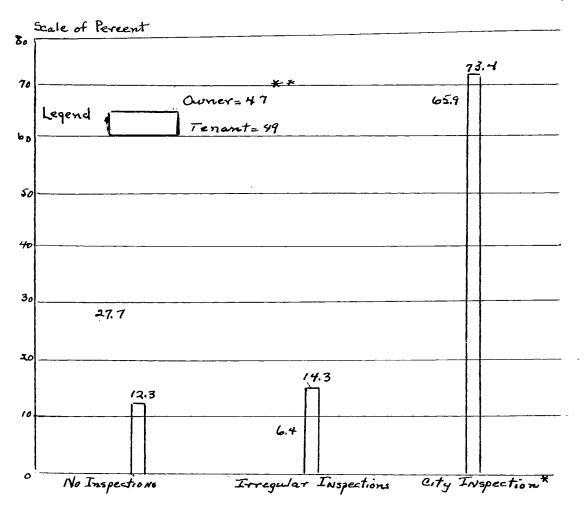
Table 6 reveals the number of farms classified by tenure status, which were supplied with water by various means.

TABLE 6.--SOURCE OF WATER SUPPLY FOR 100 FAMILIES CLASSIFIED BY TENURE STATUS

			OURCE OF	WATER			
TENURE		WEI		CITY	HATER	UAH	LFD
STATUS	Persons	Num- ber	Per- cent	Num- ber		Num- ber	Per- cent
Owner	47	13	27.7	18	58.3	16	34.0
Tenant	51	7	13.7	18	85 . 8	26	51.0
Owner A.*	2			1	50.0	1	50.0

^{*} Owner Additional

As to the owner-tenant status, about the same number of families in each category have city water piped to their farms. However, more of the owner families use wells, whereas more of the tenants haul and store their water. This may perhaps be accounted for by the fact that many of the owned farms are older and were operated before city water became readily available.



^{*} Bacterial plate counts twice a week Escheirchia coli counts twice a day

Fig. 9.--Percentages of farms, classified by tenure status, the water supply of which is either city-inspected, irregularly inspected, or not inspected at all.

Figure 9 portrays in terms of percentages the nature of water supply inspection for these farms classified by tenure status. As might be expected in the case of farm families living in rather close proximity to a

^{**}Number of cases

city, the data indicate that substantial rajorities of both owner (65.9 percent) and tenant (70.6 percent) families use city-inspected water. Like people living in cities, these families assumed for the most part that the municipal water supply was adequately inspected. It is interesting to note, however, that of the remaining 29 families, more tenants than owners had their water analyzed. This circumstance may possibly be explained by the fact that tenant farms had fewer wells and by a greater concern in the matter resulting from a less secure and less extensive community background.

TABLE 7. -- ATTITUDES OF ADEQUACY EXPRESSED BY HOWFWAKERS RECARDING WATER INSPECTION, UNDER A TENURE SPATUS CLASSIFICATION

		MO.	OWNER						TENAME	٤٠		
ATTITUDE TOWARD TREET TOWARD THEODORIGH	Ho Inspection	Mo ction	lnspec	23	City Inspected	City	No Inspec	cton	1 - E	No 1 - 2 City Inspection inspected	C1ty Inspect	ty c ted
WOTTOT LOUT	Num- ber	per-	Num- ber	um- Per- er cent	Num-	Per- cent	Num- ber	Num- Per- ber cent	Num- ber	um- Per-	Num-	per-
Sufficient	11	84.6	છ	0.001	30	86.8	Ø	0.001 9	L	100.0		se 1.00.0
Not Sufficient	ભ	15.4			1	3.8						
Total	13	13 100.0	2	100.0	31	100.0	မ	0.001	7	100.0		36 100.0

Information for two other cases not Note: Two Owner Additionals not included. available.

The data exhibited in Table 7 indicate a generally high degree of satisfaction relative to the adequacy of water inspection. Only in the case of two owner families was an expression of doubt advanced. All families who had irregular inspection of their water supply, i.e., once or twice a year, indicated that they believed their water to be free of contamination.

TABLE 8.--FREQUENCY OF THE WATER SUPPLY INSPECTION FOR 100 FARM FAMILIES CLASSIFIED ACCOPLING TO THE DEGREE OF EDUCATION OF THE HOMEMAKER

		INS	SPECTIONS	PERY	EAR	L	
EDUCATION	Total	, -	IO CTION	PER	- 2 YEAR	ŧ.	TTY ICTED
OF THE HOMEMAKER	1	Num- Der	Per- cent	Num- ber	Per- cent	Hum- ber	Per- cent
0 - 3	43	7	16.3	5	11.6	28	65.1
9 - 12	40	ප	20 . 0	4	10.0	ନ୍ତ	70.9
13 - 16	14	1	7.1	1	7.1	18	55.7

association between an insistence for water inspection where the source of supply was not municipal and the degree of education possessed by the mother of the farm family. However, where the homemaker was highly educated, the families with but two exceptions were served with city-inspected water. Also, an examination of the right-

hand column of Table 8 reveals an increasing percentage of families using city-inspected water accompanying a rise in the level of schooling possessed by the homemaker of the family.

Since the character of the attitudes regarding adequacy of inspection was, as noted previously, so universally one of satisfaction, no attempt is made to analyze these attitudes as affected by the education of

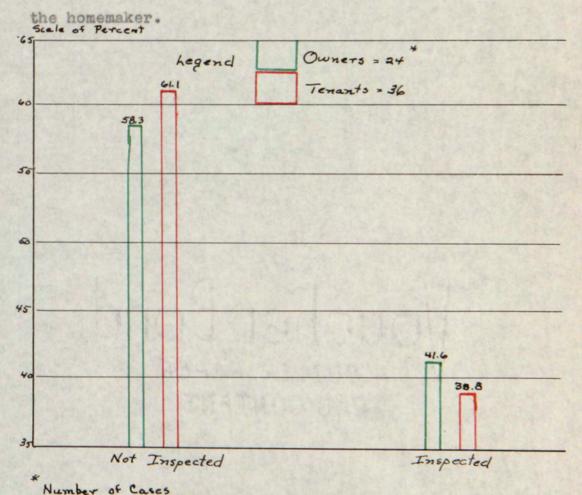


Fig. 10.--Percentages of owner and tenant families whose milk supplies were or were not inspected.

TABLE 9.--ATTITUDES OF HOMEMAKERS OF OWNER AND TENANT FAMILIES WITH RESPECT TO THE ADEQUACY OF THE INSPECTION OF THEIR MILK SUPPLIES

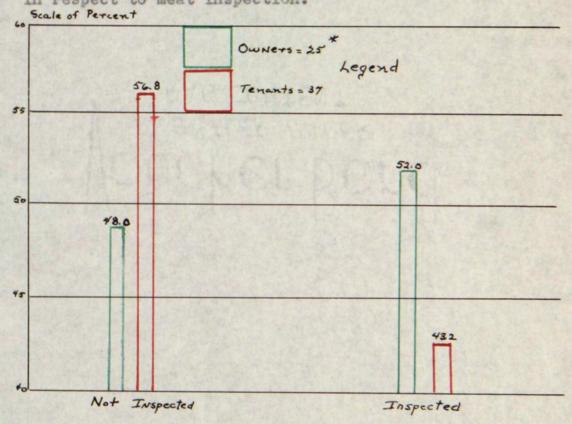
	1	OWN	ER		1	TENA	NT	
ATTITUDES OF SUFFICIENCY	NC INSPI		INSPE	CTUD	NO INSPE		INSP	ECTED
	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent
Sufficiency	13	92.9	10	100.0	20	90.0	14	00.0
Non- Sufficiency	1	7.1			٤	9.1		
Total	14	100.0	10	L00.0	22	100.0	14	L00.0

In order to gain some information in regard to milk inspection practices of these farm families and also to determine something of the nature of the attitudes of the homemakers relative to milk inspection, Figure 10 and Table 9 were compiled.

The principal conclusion derived from Figure 10 is that approximately only 40 percent of all the families had their milk inspected. Tenure status appeared to have little bearing on the prevalency of this practice. The data incorporated in Table 9 surprisingly indicate a high degree of satisfaction with the prevailing practices regarding milk inspection. From comments made during the interviews, the writer infers that inspections were often made only because the milk was to be sold rather than used for home consumption.

An attempt was made to gather data dealing with practices followed to insure a clean milk supply, as, for example, washing the hands before milking. However, the fact that the milk producers were able to enumerate only a few such sanitary practices other than those suggested by the interviewers indicated a lack of consciousness of the existence of this particular problem.

Figure 11 and Table 10 provide the fundamental information regarding the practices of these farm families in respect to meat inspection.



* Number of Cases

Fig. 11.--Percentages of owner and tenant families using inspected meat.

45.5

TABLE 10. -- NUMBER AND PERCENTAGE OF FAMILIES, CLASSIFIED ACCORDING TO EDUCATION OF THE HOMEMAKER, WHO USE INSPECTED MEAT

NA = 3		ME.	AT INSPECTIO)NS	
EDUCATION	Total		NOT PE C TED	INSP	ECTED
OF THE HOMEMAKER	Fami- Lies	Number	Percent	Number	Percent
0 - 8	43	13	56.5	10	43.5
9 - 12	40	11	47.8	12	52.2
· · · · · · · · · · · · · · · · · · ·				†	

54.6

14

13 - 16

More owners used inspected meat than did tenants but the difference seems slight. Of greater importance is the fact that the meat used by more than half of all the families was not inspected. The data in Table 10 give no indication that the education of the homemaker is in any way associated with the practice of meat inspection.

As to attitudes, it may be stated that homemakers in all families believed their home meat supply to be safe. Frequently the comments were made that "we butcher only healthy animals" and "we know when an animal is sick or well and don't need to have the meat inspected."

The fact that there is an increased use made of freezing lockers for the storage of meat might par-

tially account for a certain amount of meat inspection, because in a good many cases the interviewee remarked that the meat was butchered and inspected at the lockers.

To summarize the findings of this chapter the following conclusions appear to be most noteworthy.

- 1. Approximately two-thirds of all the farmers were supplied with city-inspected water.
 - 2. More owners than tenants used wells.
- 3. Homemakers of tenant families appeared to be slightly more concerned over the analysis of their water supply than did homemakers of owner families, although a high degree of satisfaction in the matter was expressed by the homemakers of the families as a whole.
- 4. A tendency to use city-inspected water seemed to accompany an increased level of education of the family homemaker.
- 5. Only about 40 percent of the families had their milk inspected. Neither tenure status nor education of the mother appeared to have any bearing relative to this practice.
- 6. The meat used by more than half of all the families was not inspected. At the same time a universal expression of satisfaction with regard to the safety of meat used for family consumption was advanced.

Chapter V VEGETABLES IN THE DIET

Within recent years the use of vegetables in our diets has assumed an increasing importance. transportation and refrigeration have made it possible to have fresh vegetables at a moderate cost even in midwinter. The discovery of vitamins has focused public interest upon the value of various types of vegetables in the diet as potential safeguards of health. Today, magazines display attractive pictures of vegetable dishes tempting to almost every taste and in many cases provide directions for preparing such dishes. Frequently instructions are presented for methods of preparing vegetables for the table which insure the preservation of their vitamin value. there is every reason to believe that homemakers more than ever before are giving thought to balanced menus and the use of vegetables to achieve them.

It is proposed to present and discuss in this chapter the survey findings dealing with the extent to which vegetables of various types are eaten by the rural families, and also to show the attitudes expressed by the homemakers relating to the eating of vegetables

by their families. Four general types of vegetables are dealt with in the discussion: green leafy vegetables, such as spinach and lettuce; yellow vegetables, such as corn, carrots, and squash; other vegetables which are nonclassifiable, such as onions, parsnips, and radishes; and, lastly, potatoes, which have such an important place in the diet of most people.

The survey results make it possible to observe any difference relative to vegetables in the dietary practices of these families in summer as against winter, and also whether or not the possession of a garden has any influence on the extent to which vegetables are eaten.

Again tenure status, the degree of education of the homemaker, and how extensively she participates in organizations as these things are associated with the frequency with which these special types of vegetables are eaten, are a subject of inquiry.

In the subsequent tables and graphical distributions the extent to which the vegetables are eaten is measured by weekly frequency under three classes, 0 to 4, 5 to 9, and 10 to 14 times a week. The data presented refer to the numbers of individual persons, parents or children, having the stated dietary practices regarding the eating of vegetables. The

percentages merely reduce these frequencies to a common factor in order to facilitate comparisons based upon tenure status, degree of education of the homemaker, the extent of her participation in organizations, and whether or not the family possesses a garden.

GREEN LEAFY VEGETABLES

The pertinent data dealing with the extent to which green leafy vegetables are used winter and summer by these rural families, both parents and children, under a tenure classification of the families, are presented in Table 11.

TABLE 11. --NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTS, CHILDREN) WHO EAT GREEN LEAFY VEGETABLES WITH VARYING FREQUENCIES (SUMMER, WINTER), CLASSIFIED BY TENURE STATUS OF THE FAMILIES

WINTER	Percent	52.23	37.2	10.6		100.0	52.7	52.4	14.9	100.0		68.7	27.5	8.8	000	100.0	ଚ୍ଚିତ୍ର	21.6	ଓ ଓ	100.0
	Number	49	38	1.0		94	39	24	1.1	74		ଟନ	88	6	901	TOE	7.7	33	6	102
SUMMER	Percent	86.6	8*39	10.6		100.0	17.6	63.5	18,9	100.0		32.4	6.35	14.7	0 00 5	I TOO I	8.78	51.0	11.7	100.0
ROS	Number	255	59	10		94	73	47	14	7.4		22	54	1.5	e e	I TOK	38	52	12	102
FREQUENCY OF	EATING	% - 0	- 6 - 2	10 - 14		Total	7 - 0	5 - 9	10 - 14	Total	**************************************	0 - 4	5 - 9			Total	0 • 4	ය •	1 1	Total
THMURE STATUS	PAMILY STATUS		PARENTS		H			CHILDREN T		4			PARENTS -		!			CHILLREN	+-	
THRUPE	PAMILY	_		·	,	43	I N	МC)						IN	IA	N.	IT		

Note: 2 owners additional not included. Information for 3 children not available.

Any attempt to analyze the tabulated material is obstructed by a complexity resulting from the several classifications. However, as might be expected, the dietary practices of the children in regard to the eating of green stuffs are quite similar to those of their elders. Therefore the data concerning the parents only is graphically depicted by means of Figure 12 to aid in making comparisons and in discussing trends and patterns.

These data corrorborate the obvious inference that in general green leafy vegetables are eaten more frequently in summer than in winter. However, it is worth noting that those relatively few parents who eat these vegetables most frequently in summer also find means of having them very frequently during the winter.

Tenure status in general appears to have but slight bearing upon the extent to which these vegetables are employed in the diet. Owner families ate this type of vegetable more often than tenant families but the difference was so small it must be considered not significant.

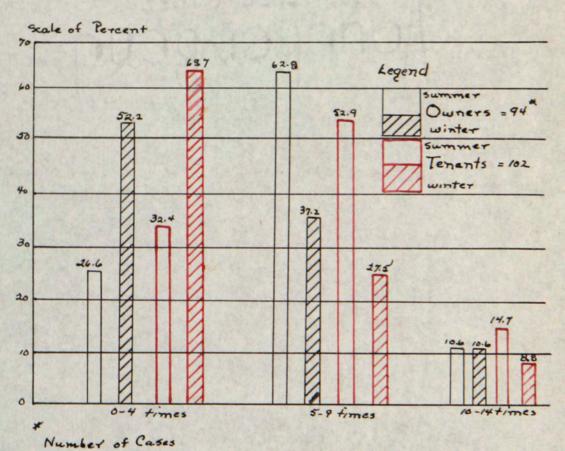


FIG. 12.--Percentages of parents in owner and tenant families who eat green leafy vegetables 0 to 4, 5 to 9, or 10 to 14 times a week, subclassified as to summer or winter

TABLE 12. --NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING ATTITUDES OF SUFFICIFNCY OR NONSUFFICIENCY AS TO THE FREQUENCY WITH WHICH THEIR FAMILY MEMBERS (PARENTS, CHIL-DREN) EAT GREEN LEAFY VEGETABLES DURING WINTER OR SUMMER, CLASSIFIED BY TENURE STATUS

MER	Tenant , ofner , than	Parents Children Parents Children Parents Children	Num- Per- Num- Per-Num- Per- Num- Per-Num- Per-	ber cent	94 92.2 96 94.1 90 95.7 65 87.8 84 82.4 88 86.3	8 7.8 6 5.3 4 4.3 9 12.2 18 17.6 14 13.7	102 100.0 102 100.0 94 100.0 74 100.0102 100.0 102 100.0
	10		Per-Num- Pen	centher		4	100.0 94 100.
	TENANT		Per-	cent	3°36	7.8	100.0 102
SUMMER			Per-	cent	70 94.6 94	4 5.4 8	74 100.0 102
	OWNER	Parents Children	Num-Per-Num-	ber cent ber	90 95.7	4 4.3	94 100.0
SEASON	TENURE	AND PAR-	ILY STA-	TUS	Attitude of Suffici- ency	Attitude of Nonsuffi- ciency	Total

Table 12 dealing with attitudes of sufficiency expressed by the homemakers, indicates a high degree of satisfaction relative to the frequency with which green stuffs are served their families in the summer. As for winter practices, this feeling of satisfaction changed in some cases to one of doubt.

Most homemakers seemed to recognize the importance of green stuffs in the diet. Several women attributed the excellent health of their families in part to the frequent use of this particular diet item. One mother remarked that although her family disliked, lettuce, spinach, chard and similar foods, she nevertheless served them because she felt it to be the right thing to do. Still another mother expressed the opinion that the inclusion of more green leafy vegetables in her family's diet would be a definite health benefit.

TABLE 13. -- NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTE, CHILDREN) WHO EAT GREEN LEAFY VEGETABLES WITH VARYING FREQUENCIES (SUMMER, WINTHE), CLASCIFITD RELATIVE TO THE DEGREE OF EDUCATION OF THE HONDMAKER

-		-11			a de la constante de la consta	
I G	EDUCATION OF HOMEMAKER AND	FREQUENCY OF EATING	03	SUMMER		
19.2	FAMILY STATUS	VEGETABLES	Number	Percent	Number	श्री द्वार
		0 - 4	50 07	40.0	т. Ф	70.0
	PARENTS	ა მ	43	53.8	19	
{		10 - 14	9	3.6	£C:	್ಯ
3		Total	୧୫	0*007	80	
•		7 - 0	3 2	40.0	39	8.18
0	CHILDREM		37	52,5	6	4.2
		10 - 14	9	7.5	9	က် (၁)
		0	80	100.0	90	1 6
		0 - 4	18	84.8	40	54.1
	PAREMIE	,	48	64.9	30	
3		10 - 14	æ	10.8	₹	€
ï		Total	<i>ት</i>	100.0	74	
****		7 - 0	17	18.3	83	46.7
6	CHILDREM	1	4.1	68.8	93	
}		10 - 14	8	13.4	ဖ	10.0
		0	09	100.0	09	100.0
		7 - 0	9	16.7	10	27.0
***************************************	PARIMIE	6 - 3	03	55.6	03	i *
9			01	27.7	9	7.07
T		Total	92	100.0	36	100.0
***		Q. 1. Q.	OT	25.7	77	0.03
2	CHILDREW		7	28.62	10	7. FO
ī		70 - 14	l,	25.0	4,	16. TO
		0	28	100.0	සු =	100.0
	Note: Info	Information for 5 pa	parents and 13	children not av	available.	Consideration of the contract

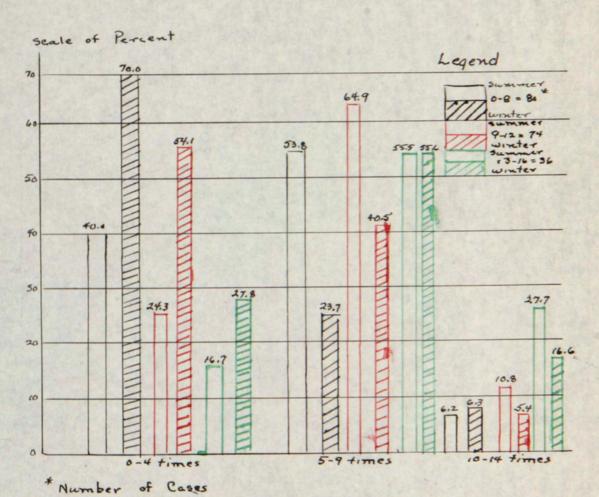


FIG. 13.--Percentages of parents, for each classification of degree of education of the homemaker, who eat green leafy vegetables (summer, winter) with varying frequencies.

Information relative to the influence of the degree of education possessed by the mother upon family dietary habits as regards the use of green stuffs is made available in Table 13. Somewhat easier to analyze is Figure 13 which pictures in terms of percentages that portion of the data of Table 13 as pertains to the parents.

exists relating a greater use of this type of vegetable with an increasing degree of education of the mother. This trend is consistent in regard to this dietary practice in both summer and winter. Furthermore there appears to be a greater similarity in the summer and winter patterns with regard to the eating of these vegetables in those families where the homemakers were most highly educated.

TABLE 14. -- ATTITUDES OF SUFFICIENCY EXPRESSEE BY HOMEMAKERS, POSSESSING VARYING DIGREES OF FORMAL SCHOOLING, AS TO THE FREQUENCY WITH WHICH THFIR FAMILY MEMBERS (PARENTS, CHILDREN) EAT GREEN LEAFY VEGETABLES (SUMMER, VINTER)

		CHILDREN	percent	ନ୍ଦ୍ର କୁ	6.7	100.0
	Œ,	CHIL	Number	විලි	4	60
	W.I.W.	PAREMTS	Percent	81.1	18.9	100.0
31		PAE	TedmuM	60	14	74
6		CHILDREN	Percent	93.7	ស្ ១ ទ	100.0 74
	H	HIT	redmuil	59		60
	SUMMER	PARENTS	Percent	91.9	8.1	0.001
	_		Aaqunn	ଞ	9	14
		CHILDREN	aueoxed	8.96	5.7	100.0 74 100.0
	WINTER	CEI	TodmuN	24	ಬ	90
	IM	Parente	Percent	86.3	13.7	100.0
ဆ		PAB	<i>Mu</i> mper	69	11	80
- 0		CHILDREN	Jasors	92.5	7.5	100.0
	SUMMER		Илтрег	74		90
	500	PAREMTS	Percent	. 91.3	8.7	80 100.0 80 100.0
ļ	L	Va.	Number	7.3	۵	80
ED. OF HOME-	Seasons	Family Status		Attitude of buffi- clency	Attitude of Mon- suffi- clency	Total

Note: Information for 5 parents and 13 children not evallable.

TABLE 14. -- ATTITUDES OF SUFFICIENCY EXPRESSED BY HOMEMAKERS, POSSESSING VARYING DEGREES -OF FORMAL SCHOOLING, AS TO THE FREQUENCY WITH WHICH THEIR FAMILY MEMBERS (FARENTS, CHILDREN) EAT GREEN LEAFY VEGETABLES (SUMMER, WINTER) -- Continued

					_
	LDREN	Percent	6°26	7.1	100.0
EH	CHI	Number	93	Q	28
KINT	RENTS	Percent	94.4	۳۶ 6	38 100.0 28
	Vď	Number	34	ಡ	36
	LDREN	Percent	89.5	10.7	100.0
ŒR	СНІ	дэфипрец	୍ୟ	83	83
MAS	FNTS	Percent	94.4	5.6	100.0
	PAR	Тэбший	34	જ ્	56
Seasons	Family Status		Attitude of Sufficiency	Attitude of Nonsuffi- ciency	Total
	SUMMER	S PARENT	Number PARENTS CHILDRIN PARENTS CHILDRIN PARENTS CHILDRIN PARENTS CHILDRIN PARENTS CHILDRIN Percent Number	PARENTS CHILDRAN PARENTS CHIL NA CHILDRAN PARENTS CHIL	SUMMER FINITE CHILDREN FINITER CHILDRENTS CHILDREN PARENTS CHILDREN PARENT

No association seems to exist relating attitudes of sufficiency with the amount of schooling possessed by the mother. In general, approximately 90 percent of the mothers believe that their families eat enough of this type of vegetable. The general character of the attitudes as regards the adequacy of this particular dietary practice varies but little from summer to winter.

A close examination of the data compiled in Table 15 gives no indication of any trend relating the frequency with which green stuffs are eaten during either summer or winter with the degree of activity of the mother in various organizations. A surprising fact for which there appears no evident explanation is that in those families where the activity of the mother in organizations is moderate, green leafy vegetables are eaten far more frequently than in families corresponding to any other degree of activity participation by the homemaker.

TABLE 15.--NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTS, CHILDREN) THO EAT GEFEN LEAFY VEGETABLES (SUMMER, VINTER) WITH VARYING FREQUENCIES, CLASSIFIED RFLATIVE TO THE DEGREE OF PARTICIPATION OF THE HOMEMAKER IN ORGANIZATIONS

- 6 4					
PARTICIPATION	FREQUENCY OF				
	EATING	SUMMER	WER		WINTER
ORGANIZATIONS	VEGETABLES	Number	Percent	Number	Percent
	•	Ç		Ø F C	
7	₹	0)	40.6	077	20.1
	5 - 9	91	46.9	63	32.5
NOME	10 - 14	52	12.9	27	10.8
	14 +	0	0.0	0	0.0
	Total	194	100.0	194	100.0
	7 - 0	12	8.03	55	
	5 - 9	lıla	76.2	43	42.6
TO M	10 - 14	3	3.0	ಣ	0.04
	14 4	0	0.0	0	0.0
	Total	101	100.0	101	100.0
	0 - 4	Ç	9.61		6.1%
	5 - 9	15	46.9	17	53.1
MELIUM	10 - 14	12	57.5	ထ	25.0
	† † T	0	0.0	0	0.0
	Total	32	100.0	38	100.0
	0 - 4	1.0	25.5	88	2. To
	6 - 3	25	58.1	18	41.9
HIGH	10 - 14	9	13.6	જ	ତ୍ର
	14 +	0	0.0	0	0.0
	Total.	43	100.0	45	100.0

TABLE 16.--NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING ATTITUDES OF SUFFICIENCY OR NONSUFFICIENCY AS TO THE FREQUENCY (SUMMER, WINTER) WITH WHICH THEIR FAMILY MEMBERS EAT GREEN LEAFY VEGETABLE, CLASSIFIED BY DEGREE OF PARTICIPATION IN ORGANIZATIONS

SEASONS	!			Summe	R				
	N	ONE	L) 7	MEDI	UM	HIGH		
PARTICIPATION IN ORGANIZATIONS	Mumber	Percent	Number	Percent	Number	Percent	Number	Percent	
Attitude of Sufficiency	180	92.8	99	98.0	32	100.0	40	93.0	
Attitude of Nonsuffi- ciency	14	7.2	2	2.0	0	0.0	3	7.0	
Total	194	100.0	101	100.0	32	100.0	43	100.0	

TABLE 16.--NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING ATTITUDES OF SUFFICIENCY OR NONSUFFICIENCY AS TO THE FREQUENCY (SUMMER, WINTER) WITH WHICH THEIR FAMILY MEMBERS EAT GREEN LEAFY VEGETABLES, CLASSIFIED BY DEGREE OF PARTICIPATION IN ORGANIZATIONS--Continued

SEASONScen				WINI	'ER			
		NONE	L	0두	IEW	DIUM	E	IGH
PARTICIPATION IN ORGANIZATIONScon	H	Percent	Number	Percent	Number	Percent	Number	Percent
Attitude of Sufficiency	175	90.2	95	94.1	32	130.0	3 5	81.0
Attitude of Nonsuffi- ciency	19	9.8	රි	5.9	0	0.0	8	18.6
Total	194	100.0	101	100.0	3 2	100.0	43	100.0

Table 16 shows that mothers whose participation in organizations is moderate were entirely satisfied with the frequency with which green stuffs are eaten by their families whereas the homemakers most active in organizations were the ones most doubtful as to whether their families obtained this type of vegetable sufficiently often. These conclusions appear to be justified as regards the attitudes toward both summer and winter practices.

The question of whether or not the possession of a garden had any influence on the extent to which green stuffs were served was considered a subject for investigation. The data assembled in Table 17 afford information on this point.

As might be expected, families with gardens used green leafy vegetables more often during the summer months than did those families without gardens. However, the possession of a garden is seen to have little or no bearing on this dietary question during the winter. The situation is summed up fairly well by the remark of one homemaker, "They (green stuffs) are harder to get when the garden goes."

Whether or not the family possessed a garden had little or no bearing upon the attitudes of adequacy expressed by the mothers concerning the extent to which

TABLE 17. --NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTS, CHILDREN) WHO FAT GREEN STUFFS WITH VARYING FREQUENCIES (VINTER, SUMMER), CLASSIFIED ACCORDING TO WHETHER OR NOT THE FAMILY HAD A GARDEN

000	CECCTON OF	POPULITARIA OF				
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GARDEN AND	EATING	SUMMER	MER	RINIER	Ter
45. 134	FAGILY STATUS	VEGETABLES	Number	Percent	Number	Percent
-						
		0 4	46	28.8	94	58.8
	PARENTS	5 - 9	91	56.8	19	31.8
		10 - 14	23	14.4	31	9.4
N.		Total	160	100.0	160	100.0
RDF		V = 0	46	8°0°	46	r. r.
V D	Natition	1 0	83	55.7	38	10 10 10 10 10 10 10 10 10 10 10 10 10 1
		١,	02	14.4	14	0.4
		Total	149	100.0	149	100.0
		V = 0	14	41.5	æĽ	О С.
	SOUTHER	7 O.	20	58.8	16	47.1
N		١	0	0.0	0	0.0
DE		Total	34	100.0	24	100.0
AAĐ		4 - 0	10	40.0	9 1	60-0
0	CHILLIPEN		15	60.09	10	0.0₺
N		10 - 14	0	0.0	0	0.0
		Total	ଥେ	100.0	98	100.0
	The second secon					

green stuffs were used in the family diet. This conclusion is based upon an examination of the data in Table 18.

TABLE 18.--NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING SATISFACTION OR DISSATISFACTION WITH THE EXTENT (SUMMER, WINTER) TO WHICH THEIR FAMILY MEMBERS EAT GREEN LEAFY VEGETABLES, CLASSIFIED ACCORDING TO WHETHER OR NOT THE FAMILY HAD A GARDEN

SEASONS				SUMM	ER			
	GARDEN NO GARDEN							
POSSESSION	Parents Children Parents		nts	Chi	ldren			
OF GARDEN AND FAMILY STATUS	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Attitude of Sufficiency	146	91.3	146	92.9	Ş2	94.1	21	84.0
Attitude of Nonsuffi- ciency	14	8.7	3	£.1	2	5.9	4	16.0
Total	160	00.0	149	L00.0	34	100.0	25	100.0

TABLE 18.--NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING SATISFACTION OR DISSATISFACTION WITH THE EXTENT (SUMMER, WINTER) TO WHICH THEIR FAMILY MEMBERS EAT GREEN LEAFY VEGETABLES, CLASSIFIED ACCORDING TO WHETHER OR NOT THE FAMILY HAD A GARDEN--Continued

EEASONScon				WINTE	P						
		GARD					RDEN				
Possession	Pare	ents	Chi	ldren	Pare	ents	Chi	ldren			
OF GARDEN AND FAMILY STATUScon	Number	percent	Number	Pe rce nt	Number	Percent	Number	Percent			
Attitude of Sufficiency	142	88.8	134	89.9	23	82.4	22	38.0			
Attitude of Nonsuffi- ciency	1 8	11.2	15	10.1	6	17.6	3	18.0			
Total	160	100.0	149	100.3	34	100.0	25	100.0			

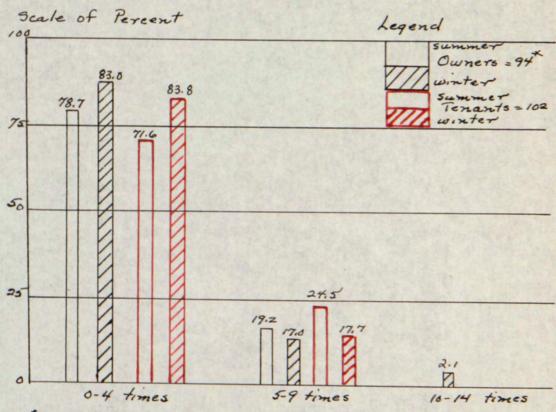
YELLOW VEGETABLES

The extent to which yellow vegetables were used in the menus of these rural families was investigated. The data relevant to this usage was obtained and tabulated in a manner analogous to that pertaining to green leafy vegetables. In order to shorten somewhat the presentation of this material, the related tables and figures, which correspond precisely with those concerning the use of green stuffs, now follow as a group.

TABLE 19. --NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTS, CHILDREN) THO EAT YELLOW VEGETABLES WITH VARYING FREQUENCIES (SUMMER, WINTER), CLASSIFIED BY TENURE STATUS OF THE FAMILIES

EATING Number Percent Number 0 - 4 74 78.7 78 10 - 14 2 2.1 0 10 - 14 2 2.1 0 5 - 9 9 12.2 12 5 - 9 9 12.2 12 10 - 14 3 4.0 0 10 - 14 7 100.0 74 5 - 9 25 24.5 13 10 - 14 7 2.9 2.9 5 - 9 25 24.5 13 10 - 14 7 2.9 2.9 10 - 14 7 2.9 2.9 10 - 14 7 2.1.6 80 10 - 14 7 6.8 4 10 - 14 7 6.8 4 10 - 14 7 6.8 4 10 - 14 7 6.8 4 10 - 14 7 6.8 4 10 - 14 7	TENO	TENURE STATUS	FRECUENCY OF	MUS	SUMMER	NIM	WINTER
0 - 4 74 78.7 78 10 - 14 E 2.1 0 10 - 14 E 2.1 0 5 - 9 9 12.8 62 10 - 14 3 4.0 0 10 - 14 74 100.0 74 10 - 14 72 71.6 82 10 - 14 16 2.6 80 10 - 14 75 71.6 80 10 - 14 75 71.6 80 10 - 14 75 71.6 80 10 - 14 75 71.6 80 10 - 14 75 71.6 80 10 - 14 75 71.6 80 10 - 14 75 71.6 80 10 - 14 75 71.6 80 10 - 14 7 6.8 4 10 - 14 7 6.8 4 10 - 14 7 6.8 4 10 - 14 7 6.8 4 10 - 14 7 6.8 4 10 - 14 7 6.8 4 10 - 14 7 6.8 4 10 - 14 7 6.8 4 10	FAMI		EATING	1	Percent		Percent
CHILDREW E E.1 16 Total E E.1 00.0 Total E E.1 00.0 Total E E.9 CHILDREW E E.9 CHILDREW E E.9 CHILDREW E E.9 CHILDREW E E.9 Total 100.0			4 - 0	74	78.7	78	83°O
CHILDREN 10 - 14		PARENTS	5 - 3	18	19.2	1.6	17.0
CHILDREN 0 - 4 62 83.8 62 62 62 62 62 62 62 62 62 62 62 62 62			,	Q	2.1	0	0*0
CRISDREM 5 - 9 9 12.2 12 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	H.		Total	94	100.0	ř 6	100.0
CRILDREM 5-9 9 12.2 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i N.M.C			ಷ 9	83.8	ಜ છ	හ. ස
PARENTS 10 - 14 5 4.0 0 0 0 74 100.0 74 72 71.6 82 82 82 84.5 10 - 14 14 3.9 100.0 102 102 108 10 - 14 73 71.6 80 80 CHILDREN 5 - 9 22 21.6 18 7 6.8 4 4 70.0 100.0 102)	CHILDRER	3	6	12.2	31	16.2
PARENTS 5 - 4 75 71.6 82 82 82 82 84.5 14 14 3.9 24.5 18 2.9 2.9 2.9 100.0 102 102 100.0 102 18 10 - 14 75 81.6 18 10 - 14 75 8.1.6 18 10 - 14 75 8.1.6 100.0 102			,	3	4.0	0]	0.0
PARENTS 0 - 4 7.5 71.6 82 82 84.5 13 85 84.5 13 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			Total	74	100.0	74	100.0
PARENTS 5 - 9 24.5 13 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				73	71.6	23 60	80.4
10 - 14 14 3.9 2 Total 102 0.0 102 0.0 102 0.0 CHILDREW 5 - 9 22 21.6 18 Total 102 102 100.0 102		PARENTS	1	23	24.5	13	17.7
CHILDREN 5 - 9 22 6.8 6.8 6.8 4 70 100.0 100.0	J.		10 - 14	14	S.Q	द	1.9
CHILDREN 5 - 9 22 21.6 80 10 - 14 7 6.8 4 Total 102 100.0 102	ΝA		Total	301	100.0	301	100.0
5 - 9 22 21.6 18 10 - 14 7 6.8 4 Total 102 100.0 102	ne t		0 1 4	73	71.6	80	78.4
10 - 14 7 6.8 4 Total 102 100.0 102 102 102		CHILDREM	G - G	22	21.6	1.8	17.7
1 108 1 100°0 II 108 II .				4	୫•୫	ት	6*2
			Total	301	100.0	301	100.0

Information not available for 3 children. 2 Owners Additional omitted. Note:



* Number of Cases

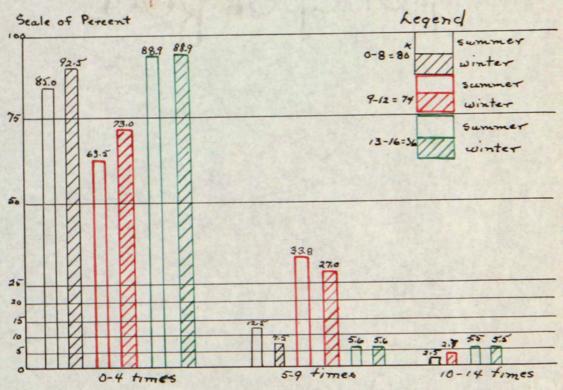
FIG. 14.--Percentages of parents in owner and tenant families who eat yellow vegetables 0 to 4, 5 to 9, or 10 to 14 times a week, subclassified as to summer or winter.

TABLE 20.--NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING ATTITUDES OF SUFFICIENCY OR NONSUFFICIENCY AS TO THE FREQUENCY WITH WHICH THEIR FAMILY MEMBERS (PARENTS, CHILPREN) EAT YELLOW VEGETABLES DURING WINTER OR SUMMER, CLASSIFIED BY TENURE STATUS

ŚEASON				SUMA	AMER							WINTER	'R			
TENURE		OWNER	R			TENANT	INT			OWNER				TENANT	£~;	
AND FAM-	Parents	nts	Children	lren	Par	Parents	Chi	Children	Parents		Children	ren	Parents	nts	Ch11 c	cren
ILY STA-	Num	Num- Per-		Num- Per-	-any	Per-	-wnw	Num- Per- Num- Per- Num- Per-	Hum N	Per-	-mnN	Num- Per-		-rad -mnw	Hum-Per-	Per-
TUS	ber	cent ber	ber	cent	ber	cent ber	ber	cent ber	ber	cent ber		cent ber	ber	cent	oer	cent
Attitude. of Suffi- clency	ଷ ଜ	97.9 73	73	98.6	98	94.1	66	97.1	3 6	97.9	32	97.3	96	94.1	<u>ග</u> හ	97.1
Attitude of Nonsuffi- clency	ભ	. ∞	н	1.4	ဖ	ۍ . و	ស្	6 ° &	CQ	T.83	ଷ	ů. ů	ဖ	က ကိ	64	ୟ ଫ
Total	94	100.0 74		100.0	102	100.0	102	102 100.0 102 100.0		94 100.0	74	100.0	201	74 100.0 102 100.0 108	102	100.0

TABLE 21. --NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTS, CHILDREN) WHO BAT YELLOW VEGETABLES WITH VARYING FREQUENCIES (SUMMER, WINTER), CLASSIFIED RELATIVE TO THE DEGREE OF EDUCATION OF THE HOMEWAKER

	ii					
EDU HOM	EDUCATION OF HOMEWAKER AND	FREQUERCY OF EATING	DS:	SUMMER		WINTER
FAMILY	mail:	VEGETABLES	Number	Percent	Number	Percent
	·	0 4	89	85.0	74	Q) 64 R)
	PARENTS	5 - 9	10	12.5	ဖ	7.5
8		10 - 14	2	29. 5	0	0.0
} 		Total	80	100.0	80	100.0
• (7.1	88.8	75	92.8
0	CHILDREN	5 - 9	9	7.5	ນດ	ಚ•ಿ9
		10 - 14	2	3.7	0	0°C
		E.	80	100.0	80	100.0
		1	47	63.5	15.4 14.0	78.0
	PARENTE	5 - 9	25 75 75	33.8	O _S	27.0
ć			C)	2.3	С	0.0
31	, .	Total	74	100.0	74	100.0
4		0 - 4	47	78.3	47	78.5
• (CHILDREN	5 - 9	10	16.7	1.3	2 · Tes
ខ		10 - 14	ŧΦ	5.0	C	0.0
	****	Total	60	100.0	60	100.0
		0 - 4	32	88.9	32	98 . 9
	PAREMIS		2	5.6	3	5.6
9		10 - 14	Ç4	ය ව	8	ਜ਼ ੇ ਜ਼ਾ
Ţ	-	Total	36	100.0	36	100.0
, -		0 - 4	23	82.1	22	32.1
Ş	CHILLREN	5 - 9	7	9*8	1	\$ * %
T		10 - 14	4	14.8	4	ુ•• •
		Total	28	100.0	8 %	100.0
	Note: Info	Information not aver	available for 6	perents and 7 chi	children.	



* Number of Cases

FIG. 15.--Percentages of parents, for each classification of degree of education of the homemaker, who eat yellow vegetables (summer, winter) with varying frequencies.

TABLE 22. -- ATTITUDES OF SUFFICIENCY EXPRESSED BY HOMEMAKERS, POSSESSING VARYING DEGREES OF FORMAL SCHOOLING, AS TO THE FREQUENCY WITH WHICH THEIR FAMILY MEMBERS (PARENTS, CHILDREN) EAT YELLOW VEGETABLES (SUMMER, WINTER)

ED. OF HOME-			0 - 8								9 - 12				
SUMMER	E	æ			WINTER	3R		S	SUMMER				WINTER	F. 5.	
Parents		Ch1]	Ch11dren	1 9.	Parents	Ch1	Ch11dren	Par	Parents	Ch1	Ch11dren	Par	Parents	Ch1:	Ch11d ren
Number Percent		Number	Percent	្ត្រូវបាន ប្រជាព្យា	2 er cen t	nnmper	percent	Иштрег	Percent	TedmuM	5ercent	TodmuN	Percent	Number	Percent
74 98.5		77	£*96	74	ය ද ව	74	98°.5	72	97.3	50	යි. දී	69	ୟ ଜୁ ଓଡ଼	<u>6</u>	60 60 60
6 7.5		. 10	3.7	တ	7.5		7.5	લ્ય	2.03	10	16.7	£Ĉ	න ේ ගු	10	16.7
90 TOO 0		80	100.0	80	0.001	80	100.0	7.4	74 100.0	60	100.0	74	100.0	09	0.001

TABLE 22. --ATTITUDES OF SUFFICIENCY EXPRESSED BY HOMEMAKERS, POSSESSING VARYING DEGRFES OF FORMAL SCHOOLING, AS TO THE FREQUENCY WITH THICH THEIR FAMILY MEMBERS (PARENTS, CHILDREN) EAT YELLOW VEGETABLES (SUMMER, WINTER)--Continued

1	_	_				
		Children	2ercent	89,5	L*0T	100.0
	Œ	ຣົ	Number	ਲ ਲ	8	36
	WINTER	Parents	gueorez 1	83.9	17.1	100.0
16		ال ال	тэфший	32	せ	38
13 - 16		Children	tmeorec	89.3	10.7	0.001
	SULKER	ပ်	Number	ାର ୧୯	κŷ	23
	ROS	rents	3ercent	88.9	11.1	100.0
		∵ 3	Mumber	32	4	36
ED. OF HOME- MAKERcon.	Seasons	Family Status		Attitude of Sufficiency	Attitude of Wonsuffi- clency	Total

COLORATE OFFICE THE STREET

TABLE 23. -- NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTS, CHILDREN) WHO EAT YELLOW VEGETABLES (SUMMER, WINTER) WITH VARYING FREQUENCIES, CLASSIFIED RELATIVE TO THE DEGREE OF PARTICIPATION OF THE HOMEWAKER IN ORGANIZATIONS

	13				
PARTICIPATION	FREGUENCY OF			****	
N	EATING	០ន	COMMUR		MINTER
ORGANIZATIONS	VEGETABLES	Number	Percent	Number	Percent
	7 - 0	144	6.27	757	6 08
HNON	5 - 9	34	17.5	62	15.0
	10 - 14	16	8.3	8	4.1
	Total T	194	100.0	194	100.0
	0 - 4	08	79.8	o _ව	3.67
1.01	5 - 9	13	80.8	ম্ভ	20.8
	10 - 14	0	0.0	0	0.0
	Total	101	100.0	101	100.0
	,	O'G	8 : 00	90	0 00
1	•	200	9.08	עים	0.00
MEDION I	5 = B	Ç	9.4	ن	9.4
	10 - 14	0	0.0	0	0.0
	Total [32	100.0	52	100.0
	0 - 4	38	88.4	4.1	95.4
HOH	5 - 9	រប	11.6	ଅ	4,6
	10 - 14	0	0.0	0	0*0
	Total	48	100.0	11 43	100.0

TABLE 24.--NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING ATTITUDES OF SUFFICIENCY OR NONSUFFICIENCY AS TO THE FREQUENCY (SUMMER, WINTER) WITH WHICH THEIR FAMILY MEMBERS EAT YELLOW VEGETABLES, CLASSIFIED BY DEGREE OF PARTICIPATION IN ORGANIZATIONS

SEASONS			A	SUM	ER			
	N(ONE	L	0 7	MEI	IUX	E.I	GH
PARTICIPATION IN ORGANIZATIONS AND ATTITUDES	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Attitude of Sufficiency	183	94,3	90	89.1	£9	90.6	34	79.1
Attitude of Nonsuffi- ciency	11	5.7	11	10.9	3	9.4	9	£0 . 9
Total	194	100.0	101	100.0	32	100.0	43	100.0

TABLE 24.--NUMBER AND PERCENTAGE OF HOMENAKERS EXPRESSING ATTITUDES OF SUFFICIENCY OR NONSUFFICIENCY AS TO THE FREQUENCY (SUMMER, WINTER) WITH WHICH THEIR FAMILY MEMBERS EAT YELLOW VEGETABLES, CLASSIFIED BY DEGREE OF PARTICIPATION IN ORGANIZATIONS--Continued

SEASONScon	L			VINI				
	N	ONE	Ĭ	OW	MED	IUZ]!I	GH
PARTICIPATION IN ORGANIZATIONS AND ATTITUDEScon	Number	Percent	redmu	Percent	Mumber	Percent	Number	Percent
Attitude of Sufficiency	185	95.4	90	89.1	29	90. 6	36	85.7
Attitude of Nonsuffi- ciency	9	6.6	11	10.9	3	9.4	7	1 8.8
Total	194	100.0	101	100.0	32	100.0	4 5	100.0

TABLE 25. --NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTS, CHILDREN) THO EAT YELLOW VEGETABLES WITH VARYING FREQUENCIPS (WINTER, SUBMER), CLASSIFIED ACCORDING TO WHETHER OR NOT THE FAMILY HAD A GARLEN

80 80±000000c	ac Aphilipade				
GARDEN AND	FREQUENCY OF EATING	Hamios	ZER	HILMI.A	- 4
FAMILY STATUS	VEGETABLES	Number	Percent	Number	Percent
		•			
	0 - 4	120	75.0	132	35.5
PARENTO	6 - 3	24	21.3	93	16.3
	10 - 14	9	7.0	3	0. T
E	Total	160	100.0	160	100.0
ΉĀ		211	9 ਸ	110	20.0
	•	200 200) i	993 944	3 0
	,	0.7	(•) T	ÓZ	C • & *
	10 - 14	10	6.7	4	2,6
	Total	149	100.0	149	100.0
	0 - 4	38	94.1	38	94.1
PLHENTS	2 - 9	8	6•3	3	್ಪ
	10 - 14	0	0.0	0	0.0
DI	[Total	₹2	100.0	54	100.0
1V					
হ	0 - 4	25	100.0	స్టు	100.0
CHILDREN	5 - 9	0	0.0	0	0.0
	10 - 14	0	0.0	0	0.0
	Total	32	100.0	55	100.0
Note:	Information for	6 parents end	7 children not a	available.	

TABLE 26.--NUMBER AND PERCENTAGE OF HOMEMAKERS EXPERSING SATISFACTION OR DISSATISFACTION WITH THE EXTENT (SUMMER, WINTER) TO WHICH THEIR FAMILY MEMBERS EAT YELLOW VEGETABLES, CLASSIFIED ACCORDING TO WHETHER OR NOT THE FAMILY HAD A GARDEN

SEASONS				SUM	áER			3
		GARD	en			NO GAR	ELEN	
POSSESSION	Pare	nts	Chil	.dren	Par	ents	Chi	ldren
OF GARDEN AND FAMILY STATUS	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Attitude of Sufficiency	152	95.0	139	93 . 3	કુટ	82.4	22	88.0
Attitude of Nonsuffi- ciency	3	5.0	10	6.7	6	17.6	3	12.0
Total	160	100.0	149	100.0	34	100.0	25	100.0

TABLE 26.--NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING SATISFACTION OR DISSATISFACTION WITH THE EXTENT (SUMMER, WINTER) TO WHICH THEIR FAMILY MEMBERS RAT YELLOW VEGETABLES, CLASSIFIED ACCORDING TO WHETHER OR NOT THE FAMILY HAD A GARDEN--Continued

SEASONScon				MINJ	ER			
		GARD				NO GAR		
POSSESSION	Par	ents	Ch1	dren	Par	ents	Chi	ldren
OF GARDEN AND FAMILY STATUScon	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Attitude of Sufficiency	148	92.5	136	91.3	2 8	82.4	25	100.0
Attitude of Nonsuffi- ciency	1,2	7.5	13	8.7	6	17.6	0	0.0
Total	160	100.0	149	100.0	34	100.0	25	100.0

Examination of the foregoing tables and figures leads to some conclusions and inferences. Tenure status may have a slight bearing upon the frequency with which families eat yellow vegetables but not upon their attitudes toward this dietary practice. A larger proportion of tenant families, generally speaking, serve yellow vegetables more frequently than owner families. Approximately one-fourth (24.5 percent) of tenant parents and one-fifth (19.2 percent) of those owning their farms eat these vegetables once a day on the average. Again. family patterns appear to be well defined, with the children eating yellow vegetables with about the same frequency as their parents. The differences between the owner and tenant families relative to this dietary practice during the winter season appear to be nonsignificant. See Tables 19, 20, and Figure 14.

It is interesting to note that the majority of families ate yellow vegetables less than four times a week. Especially was this true in the case of families wherein the mother possessed either the least or else the highest degree of formal education. In families where the mother had attended high school, yellow vegetables were served more often or about once a day. Of the three classes, the homemakers who had a college education expressed more dissatisfaction as to the fre-

quency with which vegetables were eaten. See Tables 21, 22, and Figure 15.

There seemed to be a tendency indicated by the data for families in which the homemaker took an active part in club work to eat yellow vegetables less frequently than families where the mothers were not affiliated at all with organizations or where the mothers' activity in club work was of a minor character. Under the classification of the degree of participation of the homemakers in organizations, but little difference is noted between summer and winter usage of yellow vegetables. Women who were extremely active in organizations expressed the greatest degree of dissatisfaction with the number of times their families ate this type of vegetable. See Tables 23, 24.

The absence of a garden in the winter months apparently resulted in fewer yellow vegetables being eaten during these months, since the data indicate that in general a larger proportion of families ate these vegetables less frequently than during the summer. The possession of a garden, however, did seem to have a bearing upon the frequency with which yellow vegetables were included in the diet, since many such vegetables were garden-grown. The majority of the families contacted had gardens, although in a few cases it was remarked that because of lack of moisture little had been

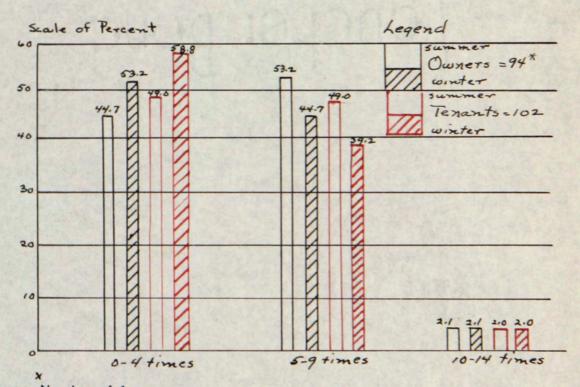
realized from them. Nevertheless, the data indicate that families who put out gardens were able to use yellow vegetables more often in their menus during both winter and summer. Families without gardens had a greater tendency to recognize a deficiency of these vegetables in their diet. See Tables 25, 26.

OTHER VEGETABLES

The survey also treated with the practices of the farm families in regard to the eating of other vegetables nonclassifiable in the two categories already considered. The data expressing the findings with respect to this subject are now presented in a single group of tables and figures just as the material concerning yellow vegetables was treated.

TABLE 27. -- NUMBER AND PERCENTAGE OF FAMILY MENBERS (PARENTS, CHILDREN) THO FAT OTHER VEGETABLES FITH VARYING FREQUENCIES (SUMMER, WINTER), CLASSIFIEL BY TENURE STATUS OF THE FAMILIES

Note: 2 Owner Additionals not included. Information for 3 children not available.



Number of Cases
FIG. 16.--Percentages of parents in owner and tenant
families who eat other vegetables 0 to 4, 5 to 9,
or 10 to 14 times a week, subclassified as to summer
or winter.

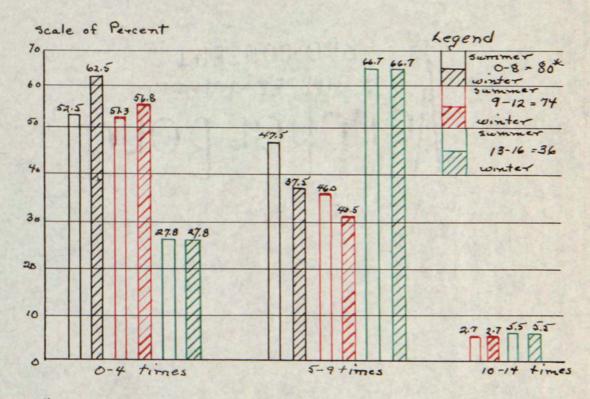
TABLE 28. - NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING ATTITUTES OF SUFFICIENCY OR NONSUFFICIENCY AS TO THE FREQUENCY WITH WHICH THFIR FAMILY MEMBERS (PARTNIS, CHILLERIN) EAT OTHER VEGETABLES DURING WINTER OR SUMMER, CLASSIFIED BY TENURE STATUS

SEASONS				SUM	MER							WINTER	ER			
TEMURE		OWNER	ER			THINANT	Į.			OWN EIR				TENANT	£~4	
AND PAM-	Par	Parents	Ch1	Children	Par	Parents	Ch11	Ch11dren	Pare	Parents Children	h11d.	ren	Parents	រក្ន	Chil	Children
ILY	-um,	Per-	Num-	Per-	Num	Num- Per- Num-	Num-	Per-	Num-	per- Num-	Num	1	Fan H	1		Num+ Per-
STATUS	\mathfrak{der}	cent	ber	cent	ber	cent ber	ber	cent ber	ber	cert ber	per	cent ber	Der	cent	bor	cent
Attitude of Suffi- clency	94	94 100.0	74	100.0	98	96.1	රිරි	97.1	36	97.9	74	74 100.0	96	94.1	96	1.50
Attitude of Nonsufil- clency	0	0*0	0	0°0	4	8.8	5	ი	હ્ય	2.3	0	0•0	9	G) L:	၁	တ <u>့</u> ယ်
Total		84 100.0	74	100.0	102	0.001	102	102 100.0 102 100.0 34 100.0	ઝ4	100.0	74	74 100.0 105 100.0 105	301	100.0	301	100.0

TABLE 29. -- NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTS, CHILIFIEN) THO FAT OTHER VEGETABLES TITH VARYING FREQUENCIES (SUMMER, WINTER), CLASSIPIED RELATIVE TO THE DEGREE OF EDUCATION OF THE HOMEMAKER

			*					l								l							1			4
m A	Percent	्र इ.	1 65	0.0	100.0	62.5	9.7°		100.0	æ•94.	40.E	cv.	100.0	lás O	:: :::::::::::::::::::::::::::::::::::	11.7	0.001	0.73	⊱.୧୧	ਨ: ਜ਼ੈ.	100.0	46•4	E0.0	9.5	100.0	
E TE NIL	Number	50	30	0	80	50	50	0	GB GB	\$\$.	30	Q	74	39	74	7	60	10	ЪЗ	લ્ય	36	13	14		83	avallable.
HR	Percent	धः ऽ- ४८			100.0	52.3		0.0	100.0	51.8	46.0	2.3	100.0	0.09	2 1.	8 . 3	100.0	27.8	66.7	5.5	100.0	6*37	53.6	3.5	100.0	children not av
SUMMER	Number	7	858	0	80	41	89	0	80	88	34	ä	74	36	18	5	60	10	24	સ	26	12	15	7	28	parents and 13
FREQUENCY OF EATING	VEGETABLES	0 - 4	•	10 - 14	Tota1	1	5 - 9	10 - 14	Total	0 - 4	S - 9		Total	0 - 4	5 - 9		Total		6 - 3		Total			١,	Total	្ព
EDUCATION OF HOMEWAKER AND	FAMILY STATUS		PARENTS		8		O CHILDREN O				STRUME.	•	31		CHILDREN	5	•		PARIMIE		T		CHILLREN	T	1	Note: Infor

٠.,



Number of Cases
FIG. 17. -- Percentages of parents, for each classification
of education of the homemaker who eat other vegetables
(summer, winter) with varying frequencies.

TABLE 30.--ATTITUDES OF SUFFICIENCY EXPRESSED BY HOMEMAKERS, POSSESSING VARYING DEGREES OF FORMAL SCHOOLING, AS TO THE FREQUENCY WITH WHICH THEIR FAMILY MEMBERS (PARENTS, CHILDREN) EAT OTHER VEGETABLES (SUMMER, WINTER)

31 - 6		Parents Children Parents Children Parents Children	Percent Number Number Percent Number Percent Number Percent	100.0 80 100.0 74 100.0 58 86.7 74 100.0 5E 91.7	0.0 0 0.0 0 0.0 8 8.8 0 0.0 E 8.8	100.0 80 100.0 74 100.0
	MMFR					09 0
	SU	Parent				74 100
		.cren			0.0	100.0
	PER	ch11	TedmuN		0	80
	WINT	ents	Percent	0°001	0•0	0.001
_		Par	Number	80	0	30
C		Ch11dren	percent	0.001	0*0	100.0
	H	Ch	Number	ce	0	80
	SUMMER	Parents	Percent	0.001	0.0	80 100.0
		Par	Илшрет	80	O	80
ED. OF HOME-	Seasons	Fa mil y Status		Attitude of Suffi- clency	Attitude of Non- suffi- ciency	Total

TABLE 30.--ATTITUDES OF SUFFICIENCY EXPRESSED BY HOMEMAKERS, POSSESSING VARYING DEGREES OF FORMAL SCHOOLING, AS TO THE FREQUENCY VITH THICH THEIR FAMILY MEMBERS (PARENTS, CHILDREN) EAT OTHER VEGETABLES (SUMMER, WINTER)--Continued

1						
		Children	Percent	100*0	C * 0	100.0
	FR	Ch1	Number	28	0	28
	WINTER	Parents	Percent	100.0	c•o	100.0
91		Pa	изафший	36	0	92
13 - 16		Ch11dren	Percent	96.4	ે.6	100.0 36
	æ	Ch41	Number	2.7	1	28
	SUMMER	Parents	Percent	23 0.001	0.0	100.0 28
		Par	Number	36	0	36
ED. OF HOME-	Seasons	Family Status		Attitude of Sufficiency	Attitude of Nonsuffi- clency	Totsl

TABLE 31. -- NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PAREFITS, CHILDREN) WHO FAT OTHER VESETABLES (SUMMER, WINTER) WITH VARYING FREQUENCIES, CLASSIFIED RELATIVE TO THE DEGREE OF PARTICIPATION OF THE HOMENAKER IN ORGANIZATIONS

PARTICIPATION IN	FREQUENCY OF	STIMBER	fiz.		a winte
ORGANIZATIONS	VEGETABLES	Number	Percent	Number	Percent
	0 4	114	ස ක හ	126	0 ୍ରିଞ
NOW WIND	ව - ව	73	87.6	19	81.4
	10 - 14	7	2.6	4	∂. €
	Total	194	100.0	194	100.0
	0 - 4	51	50.5	51	50.5
**OT		50	49.5	.χO	49.5
	10 - 14	0	0.0	0	0.0
	Total	101	100,0	101	100.0
	4 - 0	10	51.8	10	6 . 180
MEDIUM	5 - 9	19	59°4	13	59.4
	10 - 14	3	9.4	62	9.4
	Total	38	100.0	45.	100.0
	7 - 0	80	2. 97	03	40. F
HEE	ය ය	23	FS. 5	23	자. 작.
	10 - 14	0	0.0	0	0.0
	To tal	48	100.0	43	100.0

TABLE 32.--NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING ATTITUDES OF SUFFICIENCY OR NONSUFFICIENCY AS TO THE FREQUENCY (SUMMER, WINTER) WITH WHICH THEIR FAMILY MEMBERS EAT OTHER VEGETABLES, CLASSIFIED BY DEGREE OF PARTICIPATION IN ORGANIZATIONS

SEASONS				នប	MER			
		NONE		LOW	M	EDIUM		RIGH_
PARTICIPATION IN ORGANIZATIONS	er	Percent	Number	Percent	Number	Percent	Number	Percent
Attitude of Sufficiency	187	96.4	101	100.0	32	.00.0	43	100.0
Attitude of Nonsuffi- ciency	7	3.6	Q	0.0	0	0.0		0.3
Total	194	100.0	101	100.0	32	.00.0	43	100.0

TABLE 32.--NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING ATTITUDES OF SUFFICIENCY OR NONSUFFICIENCY AS TO THE FREQUENCY (SUMMER, WINTER) WITH WHICH THEIR FAMILY MEMBERS EAT OTHER VEGETABLES, CLASSIFIED BY DEGREE OF PARTICIPATION IN OFGANIZATIONS--Continued

SEASONScon.					NTER			
		NONE		TOA.	M	EDIUM	<u>H</u>	IGH
PARTICIPATION IN ORGANIZATIONScon	Number	Percent	Number	Percent	lequny	Percent	Number	Percent
Attitude of Sufficiency	180	92.8	101	100.0	S	100.0	4 8	100.0
Attitude of Nonsuffi- ciency	14	7.2	0	0.0	0_	0.0	0	0.0
Total	194	100.0	101	100.0	8 2	100.0	43	100.0

TABLE 33. -- NUMBER AND PERCENTAGE OF FAMILY WEMBERS (PARFNIS, CHILDREN) THO FAT OTHER VEGETABLES WITH VARYING FREQUENCIES (WINTER, SUMMER), CLASSIFIED ACCORDING TO WHETHER OR NOT THE FAMILY HAD A GARDEN

		f	ı			
30d	POSSESSION OF	FREQUENCY OF				
G.A.	GARDEN AND	EATING	ROS	SUMMER		TIMTER
FAM	FAMILY STATUS	VEGETABLES	Number	Percent	Number	Percent
-						
		0 - 4	82	51.3	94	ଅକ୍ଟ
	PARFNTS	5 - 9	74	₹ 9 *	29	20°,
M3		10 - 14	<i>ት</i>	മ	4	E / Cù
D		Total	160	100.0	160	100.0
AA£		,	į	Ē	Ī	
)		•	1.3.	7.14	11 34	51.1
	CHILDREN	5 - 9	65	43.6		
		10 - 14	4	4.7	۲,	2 • Ý
		Total	149	100.0	149	100.0
		E .		•		
		0 - 4	12	85.8	1.4	41.5
ħ	PARENTS	5 - 9	22	64.7	60	ଟ•ଟ≟
E		10 - 14	0	0.0	0	0.0
18		Total	54	100.0	34	100.0
AD		•	,	-	Ç	•
(4 1 0	7 7	47.0	XX.	ر م
ON	CHILDREN	5 - 9	1.4	56.0	13	O•W
		10 - 14	0	0.0	0	0.0
		Total	255	100.0	11 25	100.0
	The second secon					

Note: Information for 6 parents and 7 children not available.

TABLE 34.--NUMBER AND PERCENTAGE OF HONEMAKERS EXPRESSING SATISFACTION OR DISSATISFACTION WITH THE EXTENT (SUMMER, WINTER) TO WHICH THEIR FAMILY MEMBERS EAT OTHER VEGETABLES, CLASSIFIED ACCORDING TO WHETHER OR NOT THE FAMILY HAD A GARDEN

SEASONS				SUM	MER			
		GAR	DEN			NO GAR		
POSSESSION	Pai	cents	Chi	ldren	Par	ents	Ch.	ildren
OF GARDEN AND FAMILY STATUS	Number	Percent	Number	percent	Number	Percent	Number	Percent
Attitude of Sufficiency	1,56	97.5	146	98.0	34	100.0	25	100.0
Attitude of Nonsuffi- ciency	4	2.5	3_	2.0	0	0.0	0	0.0
Total	160	100.0	149	100.0	34	100.0	25	100.0

TABLE 34.—NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING SATISFACTION OR DISSATISFACTION WITH THE EXTENT (SUMMER, WINTER) TO WHICH THEIR FAMILY MEMBERS EAT OTHER VEGETABLES, CLASSIFIED ACCORDING TO WHETHER OR NOT THE FAMILY HAD A GARDEN—Continued

SEASONScon				FINTE	₹			
		GARI					PEN	
POSSESSION	Pare		Chil		are		<u>Chi</u>	ldren
OF GARDEN AND	er	cent). 	an t	16	en t	£,	en t
FAMILY STATUS		2.0	ရင္မ	ຍູ້	q	ercen	up.	erce
con	in E	Per	Number	Percen	humber	P (9)	Number	Pej
						,,,,		
Attitude of Sufficiency	152	95.0	143	96.0	34	100.0	25	100.0
Attitude of				3 3 3 3				
Nonsuffi-						2.0		
ciency	8	5.0	6	4.0	0	0.0	0	0.0
Total	160	100.0	149	100.0	34	100.0	25	100.0

The circumstance of farm ownership does not appear to be closely associated with the family usage of these other vegetables such as peas, onions, and beets. The greatest differences appeared in the dietary practices of the children, with tenant children eating these vegetables less often than those of owners. However, these differences do not appear to be significant and are more likely to be accounted for as being the result of personal likes and dislikes than by any difference in economic status. The main inference to be drawn from the data is the obvious one that these vegetables are eaten less frequently in winter than in summer by the families in general. Tenure status seems to have no influence upon the opinions regarding adequacy of these vegetables in the diet. See Tables 27, 28, Figure 16.

The degree of education possessed by the mother has hardly any relation to the frequency with which family members eat these other vegetables. Summer and winter the relative frequencies under the homemaker-education classification are quite similar, although the college-trained mothers made a slightly greater use of this type of vegetable. Regardless of the degree of education possessed by the mother, there was a rather universal expression of satisfaction as to the adequacy of the usage of these other vegetables in the family

diet. See Tables 29, 30, Figure 17.

The usage of these vegetables, as well as the other types previously discussed, does not appear to be related to the degree of activity of the mothers in organizations. The only deviation to be noted is again the rather inexplicable fact that in homes where the organization activity of the mother is moderate these other vegetables are served more often. Furthermore, it was only this class of homemakers who expressed any appreciable degree of dissatisfaction with the sufficiency of these vegetables served to their families. See Tables 31. 32.

gardens would eat the vegetables under discussion more often than families without gardens, but the data indicate that actually the reverse was true. In families without gardens 64.7 percent of the parents and 56 percent of the children eat some of these vegetables approximately once a day, whereas only 46.2 percent of the parents and 46.2 percent of the children in families having gardens have these vegetables this often. This trend is noted for practices during the winter months as well as during the summer season. See Tables 33, 34.

Comments made by the interviewees were often interesting. A number of mothers felt that the lunches

served to the children by the schools had been a means of getting the children to eat vegetables more often. This same comment was made in connection with other diet items such as fruit. Several homemakers stated that when they were unable to obtain vegetables from the garden, they did not eat them a sufficient number of times because of the inconvenience of driving into town.

POTATOES

The data dealing with the usage of potatoes by these farm families and the attitudes of the mothers relative to the place of potatoes in the family diet are compiled in the group of tables which immediately follow.

TABLE 35. -- NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTS, CHILLREN) WHO FAT POTATOES WITH VARYING FREQUENCIES (SUMMER, WINTER), CLASSIFIED BY TENUFE STATUS OF THE EAVISIES

HRTHL	Percent	· 25.0	48.9	25.0	7.7	100.0	14.1	54.9	29.63	1.4	100.0	55.0	44.0	88.0	0*3	100.0	18.1	43.8	10° 00°	4.	000
Lai	Number	ि €	iC d	88	7	36	10	88	13	,4	7.1	25 	44	38	2	100	61]	4.6	48	v.	11 105
SUMMER	Percent	25.0	48.9	25.0	7.7	100.0	14.1	54.9	9.63	1,4	100,0	£2.0	44.0	88.0	0*3	100.0	18.1	43.8	32.3	4.8	0 001
is.	Number	82	45	23		36	OT	6%	13		7.1	22	7 7	32	્ય સ્થ	001	13	97	35	ĽΩ	105
FREQUENCY OF	EATING	4 - 0	ය • ම	10 - 14	14 +	Total	0 - 4	5 - 9	1	14 +	Total	0 - 4		10 - 14	14 4	Total	0 - 4	6 - 3	10 - 14	14 🛨	1000 P
TENURE STATUS AND	FAMILY STATUS		•	PARENTS		H:E	N	AO	CHILDREN	•	•			PAREMIS	,,	.N	AN		CHILDREN		

Note: 2 Owner Additionals not included. Information for 4 parents and 3 children not available.

TABLE 36. --NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING ATTITUDES OF STRFICIENCY OR NONSUFFICIENCY AS TO THE FREQUENCY WITH WHICH THEIR FAMILY MEMBERS (PARENTS, CHILDREN) EAT POTATOES DURING WINTER OR SUMMER, CLASSIFIED BY TENURE STATUF

SEASONS				SUM	ABR							TINGER	T.			
TENURE		OWNER	ER			TENANT	LIJ			OWNFR	Œ,			TENANT	E-J	***************************************
ANL	ragi.	Parents	Ch11dren	dren	Par	Parents	Chi	Children Parents	Pare	nts	Ch 1.1	Ch11dren	Pare	Parents	Chil	Chilóren
FAMILY	K um-	Kun-l Per-	Num	Num- Per-	NUB	Num- Per- Num- Per- Num-	Mum-	Per-	Num	Der-	lunu!	Num+ Per- Mum+ Per- Num+	+um y	ber-	Num-	Per-
STATUS	ber	cent	ber	cent	ber	cent ber	ber	cent	ber	cent	ber	cent ber	ber	cent ber	ber	cent
Attitude of Surfi- clency	36	12 0.001 36	**************************************	100.0	100	100 100.0 105 100.0 92 100.0	105	100.0	ය ග	100.0	7,1	71 100.0 100 100.0 105 100.0	100	100.0	105	100.0
Attitude of Monsuffi-	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	O	0.0	0	0.0
Total		0.001 28	0*001 74	100.0	100	0.001 38 0.001 301 0.001 001	105	0.001	ે. જ	100.0		71 100.0 100 100.0 105 100.0	cot	100.0	105	100.0

TABLE 27. --NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTS, CHILDREN) THO EAT POTATOES WITH VARYING FREGURNCIES (SUMBER, TINTER), CLASSIFIED ELLATIVE TO THE DEGREE OF EDUCATION OF THE HOMFMAKER

EDUCATION OF HOMFMAKER AND	FREGUENCY OF EATING	ns	SUZMER		WILTER	}}
FAMILY STATUS	VEGLTABLES	naber	Percent	Mumber	Percent	, ,
Peru-Sprider	0 - 4	13	27.6	4	27.6	
	5 - 9	12	40.8	51	40.8	1
PAREITS	10 - 14	33	0.63	ç.,	0.68	ı
	14 +	<i>द</i>	8.6	ÇQ	O.W	1
e	[Total	94	100.0	76	100.0	j
un	0 - 4	e	211	ථා	11.3	1
	6 - 3	37	55. 5	45	ŭ. * ₩	}
CHILDREN	10 - 14	ъЗ	30.0	24	30.0	j
•	7 7	G	3 9	EG.	8. 9 9	ł
	Total	30	100.0	80	100.0	J
						1
	0 - 4	14	18.9	14	18.8	ļ
	5 - 9	41,	55.4	41	55.4	ļ
PARENTS	10 - 14	19	1 25.7	19	2 · 40	1
3	14 +	. 0	0.0	0	0.0	}
	Total	ħL	100.0	74	100.0	j
	1 0 - 4	<i>3</i> 1	20.0	31	20.0	ł
6	5 - 9	7 2	66.7	27.7	7.0G	ı
CHILDREN	10 - 14	14	85.8	14	10. 50. 50.	1
•	14 +	0	0.0	0	0.0	1
	Total	60	100.0	09	100.0	ļ
				ll l		1

TABLE 57. --NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTS, CHILDREN) THE POTATOES WITH VARYING FREQUENCIES (SUMMER, FINTER), CLASSIFIED RELATIVE TO THE DEGREE OF EDUCATION OF THE HOMEMAKER--Continued

EDUCATION OF HOMEMAKER AND	FREQUENCY OF EATING	Ins	SUMMERcon	I as	NTFEcon
FAMILY STATUS	VEGRIABLES con	Number	Percent	Number	Percent
	0 - 4	3 T	2*22	31	
	5 - 9	14	6*82	14	o*82
PARENTS	10 - 14	4	19.4	4	19.4
8	14 +	2	8.4	ಣ	
Ţ	Total	92	100.0	36	100.0
	0 - 4	31	42.9	10	
<u>ç</u> .	6 - 3	4	0.58	ය	22.1
CHILDREN	10 - 14	8	28.6	8	9*83
	14 +	Ţ	2*2		9*2
-	Total	83	100.0	83	0.001

TABLE 38.--ATTITUDES OF SUFFICIENCY EXPRESSED BY HOMEMAKERS, POSSESSING VARYING DEGREES OF FORMAL SCHOOLING, AS TO THE FREQUENCY WITH "HICH THEIR FAMILY MEWBIRS (PARENTE, CHILDREN) EAT POTATOES (SUMMER, "INTER)

ED. OF HOME. MAKER				0 - 8								9 - 12				
Seasons		SUMMER	22			WINTER.	'R			SUMMER	IER			"INTER	<u> </u>	
Family Status	Pare	Parents	Ch 11	Ch11dren	Parents	nts	Ch1	Children Children	Par	Parents	ู้ บ	Ch11dren	Par	Parents	ដូ	Children
	И шрет	Percent	Number	Percent	Number	percent	Number	Percent	Иидрег	Percent	Number	taeo199	Number	Percent	Number	Percent
Attitude of Suffi- clency	76	130.0	80	100.0	76	100.0	80	100.0	74	100.0	60	100.0	74	100.0	င်	100.0
Attitude of Non- suffi- clency	0	0.0	0	0°0	0	0.0	0	0.0	0	0.0	0	0.0	0	0	O	0.0
Total	76	100.0	80	100.0 80 100.0	76	100.0	80	100.0	74	100.0	60	100.0	74	100.0	60	100.0

TABLE 38.--ATTITUDES OF SUFFICIENCY EXPRESSED BY HOMEMAKERS, POSSESSING VARYING DEGREES OF FORMAL SCHOOLING, AS TO THE FREQUENCY WITH WHICH THEIR FAMILY MEMBERS (PARENTS, CHILDREN) EAT POTATOES (SUMMER, WINTER)--Continued

				_	•	
		Children	Percent	100.0	0*0	100.0
	TER	ຣ໌	Humber	83	0	88
	WINTER	Parents	percent	100.0	0.0	100.0
16		a .	Илирег	36	0	36
13 - 16		Children	Percent	100.0	0*0	100.0
	MER	ទី	Number	83	0	83
	SUMMER	Perents	Percent	0*001	0°0	0.001
		Per	Number	36	0	36
ED. OF HOME-	Seasons	Family Status		Attitude of Sufficiency	Attitude of Nonsuffi- clency	Total

TABLE 39. --NUMBER AND PERCENTAGE OF FAMILY MEMBERS (PARENTS, CHILDREN) WHO EAT POTATOES (SUMMER, WINTER) WITH VARYING FREQUENCIES, CLASSIFIED RELATIVE TO THE DEGREE OF PARTICIPATION OF THE HOMEMAKER IN ORGANIZATIONS

PARTICIPATION IN	FREQUENCY OF EATING	MOS	SUMMER	NIM	WINTER
ORGANIZATIONS	POTATOES	អ្នកក្រុក	Percent	Number	Percent
	•	33	17.5	33	17.4
-	5 - 9	06	47.6	06	47.6
NON	١	99	54.9	୦୧	0.4% 0.4%
- '	14 +	0	0.0	0	0.0
-	Total	189	100.0	139	100.0
	\$	လ လ	65 50 50	93	C
•	5 - 9	36	35.7	36	35.7
MOI	•	32	31.7	Q 20	31.7
	-+	4	6.9	61	6.9
	Total Total	101	100.0	101	100.0
	4-0	4	10.2	4	и. С.
	0 - 3	6.7 5.0	71.9	88	71.9
MEDIUM	١	ች	12.5	4	<u>€</u>
- '	14 +		2.1		3.1
-	Total	32	100.0	53.7 3.7	100.0
		74	9,68	7	U
•	6 - 9		58.1	132) - (S) (F) (F) (F) (F) (F) (F) (F) (F) (F) (F
HIGH	10 - 14	4	9.3	4	ಕ್ಕಾರ
• '	14 +	0	0.0	0	0•0
•	Total	43	100.0	/ የ	100.0
	رگسیس بیان میں		<u> </u>		A

TABLE 40.--NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING ATTITUDES OF SUPFICIENCY OR NONSUFFICIENCY AS TO THE FREQUENCY (SUMMER, WINTER) WITH WHICH THEIR FAMILY MEMBERS EAT POTATOPS, CLASSIFIED BY DEGREE OF PARTICIPATION IN ORGANIZATIONS

SEASONS			Si	UMMER				
PARTICIPATION	N	ONE	<u>L</u> é	OW	KF	PIUM		HIG!
IN ORGANIZATIONS	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Attitude of Sufficiency	189	100.0	101	100.0	32	100.0	43	100.0
Attitude of Nonsuffi- clency	0	0.0	0	0. 0	0	0.0	0	ე.ე
Total	1 89	100.0	101	100.0	32	100.0	4 3	100.0

TABLE 40.--NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING ATTITUDES OF SUFFICIENCY OR NONSUFFICIENCY AS TO THE FREQUENCY (SUMMER, WINTER) WITH WHICH THEIR FAMILY MEMBERS EAT POTATOES, CLASSIFIED BY DEGREE OF PARTICIPATION IN ORGANIZATIONS--Continued

SEASONScon				alh				
	7	ONE	L	OF.	MEI	IUM		HIGH
PARTICIPATION IN ORGANIZATIONScon	er	Percent	Number	Percent	Number	Percent	Number	Percent
Attitude of Sufficiency	189	100.0	101	100.0	32	100.0	45	100.0
Attitude of Nonsuffi- clency	0	0,0	0	o .0	0	0.0	Ç	0.0
Total	189	100.0	101	100.0	ిస్ట్	100.0	45	100.0

TABLE 41. -- NUMBER AND PERCENTAGE OF FAMILY MFMBERS (PARFNTS, CHILDRIN) WHO EAT POTATOES WITH VARYING FREQUENCIES (WINTER, SUMMER), CLASSIFITE ACCORDING TO WHETHER OR NOT THE FAMILY HAD A GARPEN

TABLE 42.—NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING SATISFACTION OR DISSATISFACTION WITH THE EXTENT (SUMMER, WINTER) TO WHICH THEIR FAMILY MEMBERS EAT POTATOES, CLASSIFIED ACCORDING TO WHETHER OR NOT THE FAMILY HAD A GARDEN

SEASONS				SUM	KR		· 	
		CAR	DEN			NO GAR	DEN	
POSSESSION	Pa	rents	Ch	ildren	Pare	ents	Chi	ldren
OF GARDEN AND FAMILY STATUS	Number	Percent	Mumber	Percent	Number	Percent	Number	Percent
Attitude of Sufficiency	160	100.0	149	100.0	34	100.0	25	100.0
Attitude of Nonsuffi- ciency	0	0.0	0	0.0	0	0.0	0	0.0
Total	160	100.0	149	100.0	34	100.0	25	100.0

TABLE 42. -- NUMBER AND PERCENTAGE OF HOMEMAKERS EXPRESSING SATISFACTION OR DISSATISFACTION WITH THE EXTENT (SUMMER, WINTER) TO WHICH THEIR FAMILY MEMBERS EAT POTATOES, CLASSIFIED ACCORDING TO WHETHER OR NOT THE FAMILY HAD A GARDEN--Continued

SEASONScon				WI.W	TER			
á			IDEN		S. 1	NO GA	RDEN	
Possession	Pa	rents	Ch	ildren	Pa	rents	Ch	ildren
OF GARDEN AND FAMILY STATUScon	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Attitude of Sufficiency	160	100.0	149	100.0	34	100.0	25	100.0
Attitude of Nonsuffi- ciency	0	0.0	0	0.0	0	0.0	១	0.0
Total	1.60	100.0	149	100.0	54	100.0	25	100.0

It is not surprising to note that most of the families eat potatoes approximately once a day. Tenure status appears to make no difference as to how often potatoes are eaten, either by parents or children. Consistent family patterns are evident relative to the eating of potatoes. As to attitudes, there is not a single instance where the homemaker expressed the opinion that her family did not get enough potatoes. Instead, a frequent comment was "we think we have potatoes too often." See Tables 35, 36.

Summer and winter practices relating to the use of potatoes by these families were identical. Considerable differences in how frequently potatoes are eaten in the families where the mother possessed varying degrees of schooling are evidenced by the data. These differences do not combine, however, to produce trends, and thus are difficult to account for. For one thing those homemakers who were college trained seemed to be less bound by the traditional custom of serving potatoes once a day. See Tables 37, 38.

In general, the data appear to justify the statement that potatoes were used less frequently in families where the homemaker was somewhat interested in organizations. There is evidence of a definite tendency for those mothers active in club work not to overempha-

size potatoes in the diet. See Tables 39, 40.

The possession of a garden had little or nothing to do with the frequency of eating potatoes. Potatoes are rarely grown in the ordinary vegetable garden. See Tables 41, 42.

Potatoes are, of course, one of the most popular American dishes and can be served on the table in many different ways. They can be stored for fairly long periods and are always available at food stores.

Although the price of potatoes fluctuates considerably because of various reasons, this fact produces little effect on the usage of potatoes. Potatoes on the menu have become an accepted American custom.

Data relative to various reasons for not serving vegetables sufficiently often are presented in the next group of tables.

TABLE 45.--REASONS ADVANCED BY HOMEMAKERS FOR CONSIDERING THE FREQUENCY WITH THICH CERTAIN VEGETABLES ARE EATEN BY THEIR FAMILY MEMBERS AS INSUFFICIENT, CLASSIFIED BY TENURE STATUS

REASONS FOR		T40	OFNER			TEN	Tenant	
ATTITUDE OF	Paren	ts		Ch11dren	Par	Parents	Children	ren
NONSUFFICIENCY	Mumber		Number	Per- cent	Number	Per- cent	Number	Per- cent
Lack of money	4	28.6	8	21.4	8	28.6	6	47.3
Dislike certain vegetables	દ	21.4	စ	48.9	11	37.3	10	52,7
No garden	0	0*0	0	0.0	8	7.1	0	0.0
Causes heartburn, indigestion	0	0.0	0	0.0	7	14.3	0	0•0
Don't get to town	ચ	14.3	64	21.4	Q	7.1	С	0.0
Don't fix them just for self	23	21.4	0	0.0	-	3.6	0	0•0
Laziness	૦ ૨	14.3	સ	14.3	0	0.0	0	0.0
Total	74	100.0	14	100.0	ស្ល	100.0	6	100.0
					-			

TABLE 44.--REASONS ADVANCED BY HOMEMAKERS FOR CONSIDERING THE FREQUENCY WITH WHICH CERTAIN VEGETABLES ARE EATEN BY THEIR FAMILY MEMBERS AS INSUFFICIENT, CLASSIFIED BY EDUCATION OF THE HOMENAKER

HEASONS FOR		GR.	GRADE			HIGH S	SCHOOL			COLLEGE	G EI	
344	Pare	Parents	Ch11	Ch11dren	Pare	nts	Chil	Children	Parents	ts	Children	ren
	Num-	Per-	Num-	Per-	Num-Per	Per-	Num-	Per-	Num-	Per-	Num-	Per-
Lack of money	4	18.2	9	42.9	မ	33.3	വ	35.7	Q	50.0	1	63 63 63
Dislike certain vegetables	ග	40.9	ĸ	35.7	4	6*82	ර	64.3	0	0.0	O	•
No garden	રહ	9.1	0	0.0	0	0.0	0	0.0	0	0	0	0.0
Causes heart- burn, indiges- tion	દપ	1.6	0	0.0	હ્ય	1.11	0	0.0	0	0.0	C	0.0
Don't get to town	4	18.2	89	21.4	0	0.0	0	0.0	0	0.0	0	0.0
Don't flx them		4.5	0	0.0	ß	16.7	0	0.0	0	0.0	0	0•0
Laziness	0	0.0	0	0.0	0	0.0	0	0.0	CV	0°0	G2	66.7
Total	83 83	100.0	14	100.0	18	18 100.0	14	100.0	4	100.0	80	100.0

TABLE 45.--REASONS ADVANCED BY HOMFRACERS FOR CONSIDERING THE FREGUENCY "ITH WEICH CERTAIN VEGETABLES ARE EATEN BY THEIR FAMILY MEMBERS AS INSUFFICIENT, CLASSIFIED BY THE DEGREE OF PARTICIPATION OF THE HOMEMAKER IN ORGANIZATIONS

REASONS FOR	ON	NONE	LOV	V.	MFPIUM	IUM	33	FIGH
ATTITUDE OF NONSUFFICIENCY	Number	Percent	Number	Percent	Number	Percent	Percent Number	Percent
Lack of money	15	34.8	9	31.6	0	0.0	ذكا	38.4
Dislike certain vegetables	15	34.8	11	57.9	0	0.0	હ્ય	₹ \$.
No gerden	83	4.7	0	0.0	0	0.0	0	0.0
Causes heart- burn, indigos- tion	લ્ય	4.7	ઘ	10.5	0	0.0	0	0
Don't get to town	7	16.3	0	0•0	0	0.0	C	0.0
Don't fix them just for self	QQ.	4.7	0	0.0	C	0.0	භ	15.4
Laziness	0	0.0	0	0.0	0	0.0	q	80.8
Total	43	100.0	19	100.0	0	0.0	13	100.0

TABLE 46. -- REASONS ADVANCED BY HOMFMAXERS FOR CONSIDERING THE FREQUENCY WITH PRICE CERTAIN VEGETABLES ARE EATEN BY THEIR FAMILY MEMBERS AS INSUFFICIENT, CLASSIFIED BY POSSESSION OF A GARDEN

		GAR	GARDEN			NO GARDEN	DEN	
REASONS FOR	Parents	ents	Children	ren	Ind	Parents	Children	dren
ATTITUDE OF NONSUFFICIENCY	Number	Per- cent	Number	Per-	Number	Per- cent	Mumber	Per-
Lack of money	12	42.9	α <u>.</u>	41.8	0	0.0	0	0.0
Dislike certain vegetables	Ξ	39 . 3	14	48.5	ĸ	81.3	0	0.0
No garden	0	0.0	0	0.0	Q	18.5	0	0.0
Causes heartburn, indigestion	હ્ય	7.1	Ċ.	0.0	લ્ય	12.5	O	0.0
Don't get to town		7.1	82	6°6	સ	12.5	G	0.0
Don't flx them just for self	1	3.6	0	0.0	છ	18.7	0	0•0
Laziness	0	0.0	0	0.0	C3	다 63 64	લ	100.0
Total	83	100.0	88	100.0	16	100.0	€₹	100.0

The chief reasons advanced for not serving vegetables sufficiently often were lack of money to buy and an admitted personal dislike for some kinds of vegetables. Inability to get into town during the week to buy vegetables was also a common reason. It was a frequent practice in families where one parent did not care for a certain vegetable for the homemaker to avoid serving that vegetable.

SUMMARY

In summarizing this chapter concerned with the use of vegetables in the diet, the more outstanding findings are now restated.

- 1. In general, consistent family patterns are evidenced, with children and parents having much the same dietary practices relative to the eating of vegetables.
- 2. With the exception of potatoes, vegetables were eaten less frequently in winter than in summer.
- 3. There is little or no reason to believe that tenure status has any influence upon the frequencies with which various types of vegetables appear on the family menu.

- 4. There is some indication that homemakers with a greater degree of formal education have a tendency to serve many types of vegetables more often than mothers having a lesser amount of schooling. Potatoes are the striking exception; they appear less often on the menus of the more highly educated homemakers.
- 5. Green leafy vegetables were eaten somewhat less frequently by families wherein the mother had no activity in organizations than by families where the mother did engage more or less in club work. Yellow vegetables and those classified as other vegetables were eaten most often by families where the organization activity of the mother was moderate.
- 6. In general there was an expression of satisfaction by the homemakers as to the sufficiency with which their families were served the various kinds of vegetables, this being true to a greater extent with regard to these dietary practices during the summer months than during the winter season.
- 7. With respect to the eating of many kinds of vegetables, the possession of a garden had a pronounced influence, particularly as regards the summer months. Gardens made many vegetables more available, with the result that they were eaten more frequently by the families who had gardens. This conclusion applies only to green leafy and yellow vegetables. Just the reverse was

true of other vegetables. Whether or not a family had a garden produced no effect on the frequency of serving potatoes.

8. In the cases where dissatisfaction was expressed as to the sufficiency of vegetables in the family diet, the principal reasons advanced were: lack of money, personal dislike for certain vegetables, and difficulty in getting to town regularly to buy vegetables.

Chapter VI

CONCLUSIONS

A broad view of the findings of this study discloses clearly one particularly important fact, namely an association between the educational status of the mother and the observance of basic health practices and attitudes toward them. As the education of the mother increased, there was a tendency for an increased observance of essential health practices.

Furthermore, the various educational possibilities connected with the activity of the mother in organizations have been seen to possess a definite implication in molding the character of certain family health practices. Somewhat contrary to expectations the findings indicate that the health measures and attitudes toward these practices did not appear to differ to any great extent between owners and tenants.

Health education and programs still have a tremendous task to perform. As has been noted, most of the family members covered by the survey had no dental examination within the year preceding the census.

Moreover, actual ailment rather than a recognition of regular examination as a desirable health measure

appeared to be the more significant motivating influence relative to dentist visitation. Good dental hygiene habits at home were seen to be highly correlated with the frequency of dental examination. It is impossible in this study to estimate the extent of the influence of economic circumstances upon family dental hygiene practices, but there is reason to believe that lack of money serves as only a partial deterrent to better dental habits. The general educational program relating to this question must have points of deficiency. Compulsory dental examinations for school children and the provision of dental clinics would most certainly benefit this class of rural people.

inspection services on the part of rural farm families is a more serious situation than among urban dwellers since the latter group is adequately protected, regardless of ignorance or apathy, by legal sanitary measures. The almost universal expression of a feeling of adequacy in regard to these health measures as now practiced would make it appear that the resources offered by the agricultural colleges for improving farm sanitation are for the most part unknown. The evidence in this thesis indicates a definite dealing with the problems of farm sanitation.

The family diet is a principal concern of the

that much of the educational efforts and propaganda relating to the part that diet should play in maintaining family health have not missed their mark. There seems to be ample evidence that many homemakers are beginning to recognize the dietary value of various types of vegetables and that these rural women try to plan well-balanced menus for their families. The very fact that so often attitudes of dissatisfaction were expressed by the mothers with regard to the sufficiency of vegetables in the diet of their families is pointed evidence that educational efforts along this line are making their influence felt.

It may be concluded, then, that in education lies the chief hope for an improvement of health and sanitation practices among rural people such as those studied. The force of education may be slow to make its effect, in many instances, but nevertheless in a democracy education must be recognized as the principal means for achieving any sort of social betterment.

APPENDIX

Some Health Practices and Attitudes and Related Problems of 300 Rural Farm Families in Colorado

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F. DIET Homemaker Head Diet S. S S S S S S S S S i tems per wk. g SYN Fr.eg. Freq. Y Fred P-AN Freq Rea. **T** Кев. Rea. Cereal, Bread ireen leafy vegs. Yellow vegs. Other vegs. Fresh fruit Canned fruit Citrus fruit Dried fruit Vegetable prot. Eggs Ln.Meat, fish. fowl Fats Butter Margarine Sugar Coffee. Tea Milk Milk P. Water į MILK VATER DIET l. Prefer other liquids l. Frefer other liquids Rea-1. Have no garden 2. Dislike taste 2. Prink it only at meals 2. Have no orchard sons 3. Don't get water during 3. Lack of money for 3. Lack of money working hours atti-4. Dislike certain vegeta- 4. Got enough in food 4. Never feel thirsty tude of5. Dislike certain fruits 5. Don't want to get fat 5. Dislike taste non-6. No means of preservation 6. Afraid of getting 6. Dislike cold water sufficiency discase 7. Foar discase from irrig 7. Dislike it because 7. Flushes kidneys water someone elsa dislikes 8. Causes indigestion 8. Dislike pasteurized 8. Causes digestive and and heartburn intestinal disorders 9. Dislike unpasteurized 9. Think its impure 9. Eat only vegetables milk

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Ι.			DAYS OF	'ILLMESS	द्रमण्ड	PALITIV	ALLWAND.			
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FREQUENCY OF RELAXING

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DAYS OF ILLNESS - PER FAMILY MEMBER

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CEREALS: BREAD	FRESH FRUIT	LEAN MEAT, FISH, FOWL
BROWN RICE WHOLE WHEAT CRACKED WHEAT ROLLED OATS WHOLE CORN MEAL POLISHED RICE SPAGHETTI MACARONI NOODLES PREPARED BREAKFAST WHITE BREAD	GOOSEBERRY	PORK BEEF HAM LAMB CHICKEN TROUT SALMON FATS LARD VEGETABIE OIL
WHOLE WHEAT BREAD RYE BREAD	RASPBERRY RHUBARB DATE PINEAPPLE	VEGETABLE FAT SALT PORK BACON OTHER SHORTENING
GREEN LEAFY VEGETABLES	F I G GRAPE	BUTTER
BEET GREENS DANDELION GREENS MUSTARD GREENS	CANNED FRUIT	MARGARINE
BRUSSEL SPROUTS CABBAGE CHARD ENDIVE WATERCRESS SPINACH LETTUCE	PI NEAPPLE FIG RASPBERRY BLUEBERRY STRAWBERRY BLACKBERRY	SUGAR BROWN SUGAR MOLASSES WHITE SUGAR HONEY JELLY
YELLOW VEGETABLES	CHERRY PEACH PEAR PLUM	JAM PRESERVES SYRUP
CARROTS PARSNIP	APRICOT	COFFEE, TEA
SQUASH SWEET POTATO TURNIP	CITRUS FRUIT	MILK
YELLOW CORN YELLOW BEANS	LIME LEMON ORANGE	MILK PRODUCTS CHEESE
OTHER VEGETABLES	GRAPEFRUIT TOMATO	COTTAGE CHEESE BUTTERMILK COCOA
ASPARAGUS STRING BEANS LIMA BEANS	DRIED FRUIT	ICE CREAM
BEETS CAULIFLOWER CELERY CORN EGG PLANT PEAS KOHLIRABI	DATE RAISIN APRICOT FIG PRUNE APPIE PEACH	WATER
OKRA ONION RADISH POTATO CUCUMBER	VEGETABLE PROTEIN DRIED BEANS DRIED PEAS LENTILS NUTS	
		(mmom)

ABBREVIATIONS USED IN THE SCHEDULE

Part A		
1.	H.H	Household
٤.	N	
3.		Foreign or mixed parentage
4.	F. B	Foreign born
5.	Ed	
6.	H'Maker	
7.	Res	
8.	Irrig.	
9.	<u></u>	
10.	II	
11.	Insur.	
12.		Health Insurance
13.		Accident Insurance
14.		
15.	Diphth	
16.	Whoop. cough	Whooping Cough
17.	Pa	Past
18.	Pre	
19.		
20.		High participation
£1.		Medium participation
22.		Low participation
Part B		
1.	¥.D.	
	Freq	Frequency
3.		Examinations made because of allment
4.	Vol	Examinations made voluntarily
5.	Suff	Sufficiency
6.	Y	Yes or sufficient
7.	N	No or insufficient
8.	Rea.	Reason
Part C*		
Part D*		
1. 2.	S	

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Part E*
      H. Higher
   1.
      L. Lower
      T.B. Tuberculosis
      Y. ---- Yes
      N . - - - No
      Inspec.---- Inspection
   8.
Part F*
      Wk. ---- Week
   1.
      S. ---- Sufficiency
      Vegs.----- Vegetables
Prot.----- Protein
   4.
      Ln. ---- Lean
      P. ---- Products
Part G*
Part H*
Part I*
      Dur. ---- Duration
    1.
Part J and K*
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^{*}See previous explanations of abbreviations.

INDIVIDUALS INTERVIEWED

- Mrs. Shanstrum
 Superintendent of Nurses
 Larimer County Hospital, Fort Collins, Colorado
- 2. Miss Ruth E. Phillips
 Director Division of Public Health Mursing
 State Division of Public Health, Denver, Colorado
- 3. Miss Norma Michaelson
 Larimer County Public Health Nurse
 200 East Laurel, Fort Collins, Colorado
- 4. Dr. Ruth Summer
 Assistant Professor of Physiology
 Colorado State College, Fort Collins, Colorado
- Mrs. Carmen Johnson
 Larimer County Home Demonstration Agent
 428 South Howes, Fort Collins, Colorado

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