# RB58-186 The Existing Space in Nebraska Multistory Tee Houses 

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## Research Bulletin 186

# The Existing Space In Nebraska Multistory Tee Houses 

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by
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## University of Nebraska College of Agriculture

The Agricultural Experiment Station
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 FARM FAMILY HOUSING NEEDS AND PREFERENCES*Administrative Adviser<br>R. K. Frevert, Assistant Director, Agricultural Experiment Station, Iowa State College, Ames, Iowa

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[^1]
## CONTENTS

Technical Committee for Regional Research in Farm Family Housing Needs and Preferences ..... 1
Summary of Findings ..... 4
Introduction ..... 5
Purpose of Study ..... 5
Standards for Adequacy ..... 6
Objectives ..... 6
Method and Procedure ..... 6
Description of the Sample ..... 7
Collection of the Data ..... 9
Summarization of the Data ..... 10
Characteristics of the Tee Shaped Farmhouse of More Than One Story ..... 10
The Building Site ..... 10
Age of the House ..... 12
Exterior, Interior Structural Condition ..... 13
The House Plan. ..... 16
Room Arrangement in Cross of Tee ..... 16
Room Arrangement in Stem of Tee ..... 16
Size of Tee House. ..... 16
Openings in Tee House ..... 18
Hallways and Stairways. ..... 18
Second Floor of Tee House ..... 19
Basement ..... 19
Kitchens and Bathrooms. ..... 19
Storage ..... 24
Modernization ..... 24
Remodeling ..... 26
Characteristics of the Family. ..... 26
The Family Members. ..... 26
Income ..... 28
Tenure ..... 28
Space Standards ..... 31
Adequacy ..... 31
Storage ..... 31
Family Activities ..... 31
Personal ..... 33
Food Preparation and Preservation ..... 35
Living Space ..... 35
Housekeeping Activities ..... 35
Other ..... 35
Circulation ..... 36
Appendix A. List of Figures and Tables ..... 36
Appendix B. List of Supplementary Tables ..... 37

## SUMMARY

In this manuscript data are presented regarding the space and characteristics of multistory teeshaped farmhouses.* Six economic areas were arbitrarily chosen for this project carried on by the University of Nebraska Experiment Station. The multistory tee house was found to be most prevalent in the areas of Nebraska included in this study. The sample comprised houses chosen by a method of randum sampling. A personal interview was made at each farmhouse by a home economist and an agricultural engineer. Detailed measurements of the entire house and a sketch of the farmstead were made.

The multistory tee houses measured formed characteristic patterns. The size of the majority of the houses varied slightly. In a high percentage the first floor had two rooms in the cross and one or two rooms in the stem of the tee.

The lack of modernization in these houses was conspicuous. About 80 per cent of the houses had no central heating; almost 50 per cent had no water piped into the house; more than 50 per cent had no water heater, and the same percentage had no sewage disposal system. Practically all houses were electrified.

Most of the work-centers in the kitchen could not be classified into any generally accepted shape. Kitchens in most of the houses had inadequate counter and storage space.

The lack of good traffic patterns

[^2]in these houses was apparent. Major trafficways made imaginary paths through activity centers in the houses because of the many door openings in rooms.

A definite lack of storage space was noted in almost every house where an interview was made. When the space used for storage was compared to the standards published by the American Public Health Association in 1950, almost all houses sampled failed to meet minimum requirements.

Total living space in the houses was compared to standards published by the American Public Health Association. From this comparison about two-thirds of the houses were found to have floor space adequate for the conduct of basic household activities.

One hundred and three families owned the farms on which they lived, and ninety-nine rented. The families who lived in the rented houses had, in general, fewer modern conveniences than did those in owner-occupied houses.

Almost 60 per cent of the families surveyed were in the stage of the family cycle in which the homemaker had a peak load of work. Half of the couples were forty-five years of age or younger.

The data collected regarding income were available for approximately half of the families. Using the information at hand, the income which occurred most frequently was between $\$ 3,000$ and \$4,999.

The placement of the houses on farmsteads was considered satisfactory. More than 75 per cent of the houses were in good condition and
appeared to warrant expenditure for remodeling.

Since the majority of the multistory tee houses in this sample appeared structurally sound and adequate in total living space, the seriious lacks and inadequacies can be alleviated by remodeling.

From this information it is recommended the application of this data be used in the following steps.

1. Develop patterns of remodeling with particular emphasis on improved traffic patterns and room use.
2. Formulate plans for increased modernization to meet healthful standards.
3. Develop plans that will save time and energy for the farm families, with emphasis on kitchen planning.
4. Plan the incorporation of storage facilities that will meet the needs of farm families living in these houses.
5. Educate landlords as to the importance of adequate housing for their tenants.
6. Consider family cycle and age of occupants in developing plans for remodeling.
7. Formulate remodeling plans which could be accomplished in step-by-step fashion to allow for variability in farm incomes.

# The Existing Space in Nebraska Multistory Tee Houses 

By Virginia Trotter ${ }^{1}$

## INTRODUCTION

## Purpose of Study

Many articles have been written about remodeling farmhouses, but few have been based upon actual research findings.

Houses were built forty years ago with little or no regard to the needs of the families that would occupy them. Today these houses are even less able to meet the functions of everyday living in terms of living space, efficient work areas, and available utilities and appliances.

[^3]The occupants of existing farmhouses are interested in remodeling; this fact is evidenced from the study "Nebraska Needs and Preferences in Farm Housing." In that sampling it was found that while five per cent of the Nebraska farm families planned to build new homes, 12 per cent planned to remodel their existing homes. ${ }^{2}$

Remodeling is difficult to plan for in such a way that it will bring about the most satisfactory result for the time and money invested.

[^4]It is hoped that the present study will point out the extent to which plans of multistory tee houses are similar.

## Standards for Adequacy

Any appraisal of family housing carries with it the problem of suitable standards for adequacy. The standards used in this research were developed for new houses, but can be applied to remodeling old houses.

We believe that every dwelling, if
it is to contribute to the physical and
mental health of the family, should
have well organized, effective space for:

1. Sleeping and dressing
2. Personal cleanliness and sanitation
3. Food preparation and preservation
4. Serving food and dining
5. Recreation and self-improvement
6. Extra-familial association
7. Housekeeping
8. Care of infants or of the ill and infirm
9. Circulation between various areas of the dwelling
10. Operation of utilities

It is a reasonable assumption that estimates of the necessary space for the required furniture and equipment, and their convenient use and storage, can contribute to substantial improvement in design. ${ }^{3}$
These standards were determined to be the best available and were taken as a technique to use in determining the adequacy of space in the Nebraska tee farmhouse of more than one story.

## Objectives

This study was made to determine the extent of similarity in the plan of the tee house of more

[^5]than one story. Patterns of remodeling will be developed if the similarity of existing houses is justified.

The objectives of this study:

1. To determine the nature of the occupied tee house of more than one story in terms of placement on the farm, condition of the structure, the floor plan, the existing utilities, work areas and storage space.
2. To determine the adequacy of tee houses of more than one story in terms of recommended minimum health requirements and the stage of the family cycle.
3. To suggest recommendations for remodeling the tee house of more than one story.

## METHOD AND PROCEDURE

Many farmhouses are built in similar fundamental shapes. The Agricultural Engineering Department at the University of Nebraska noted the types of farmhouses and how often each type occurred. They found that basic shapes of most of the houses could be classified as square, rectangular, tee, or ell, of one or two stories. ${ }^{4}$ The agricultural engineers observed that the tee house of more than one story occurred more frequently than any other type.

To determine the predominant types of dwellings located on the farms in the sampling segments included in this study 1,487 Nebraska

[^6]houses were observed. About 90 per cent of these houses were occupied and were considered over ten years old. The farmhouses sampled were classified to find which types were prevalent (Table 1).

Tee houses, the greater number of which had more than one story, were found more frequently than any other single type of house. About 20 per cent of all farmhouses typed were multistory tee houses and about 95 per cent of them had been built more than ten years ago. About 15 per cent of the multistory tee farmhouses were not occupied.

The tee house of more than one story was chosen for this study because of the frequent occurrence, its apparent age, and the many remodeling problems which might be anticipated (Figures 1, 2, and 3).

## Description of the Sample

To determine the prevalence of all major house types in the six eastern economic areas of Nebras$\mathrm{ka}^{5}$ a random sample was drawn. All houses within each segment were typed. A resident of each
multistory tee house was interviewed. A sample of 300 houses was recommended as the number desirable for a maximum decrease in the variance of the sample mean for the time and money expended.

From data supplied by the agricultural engineers about 20 per cent of the houses were expected to be multistory tee houses. To obtain 300 interviews it was necessary to survey about 100 segments of fifteen to twenty farmhouses.

These segments were chosen from economic areas 3a, 3b, 4, 5, 6, and 7. Economic areas one and two (the sandhill and panhandle regions) were omitted from the sample because the nature of these areas is such that fewer houses of this type would be expected and the great distance between houses would add considerably to the cost

[^7]Table. 1. Types of houses in the sampling segment, the state of occupancy and the age.

| Types of houses | Houses Observed |  | Occupied |  | More than 10 years old |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Number | Percentage of type | Number | Percentage of type |
| All houses | 1487 | 100.0 | 1364 | 91.7 | 1360 | 91.4 |
| Multistory tee | 265 | 17.8 | 220 | 83.0 | 247 | 93.2 |
| Two story ell | 201 | 13.5 | 186 | 92.5 | 187 | 93.0 |
| Two story square | 167 | 11.2 | 160 | 95.8 | 155 | 92.8 |
| Two story rectangle | 201 | 13.5 | 187 | 93.0 | 183 | 91.0 |
| $11 / 2$ story square | 90 | 6.1 | 83 | 92.2 | 82 | 91.1 |
| One story rectangle | 162 | 10.9 | 142 | 87.7 | 146 | 90.1 |
| One story square | 110 | 7.4 | 106 | 96.3 | 100 | 90.9 |
| Bungalow | 97 | 6.5 | 96 | 98.9 | 83 | 85.5 |
| One story ell | 58 | 3.9 | 53 | 91.4 | 55 | 94.8 |
| One story tee | 63 | 4.2 | 58 | 92.1 | 60 | 95.2 |
| Ranch | 3 | . 2 | 3 | 100.0 | 1 | 33.3 |
| [Inclassified | 70 | 4.7 | 70 | 100.0 | 61 | 87.1 |



Figure 1. Sample house plan, first floor.
of the survey without appreciable contribution to its accuracy.

The master sampling plan developed by the Bureau of Census was used as the basis for choosing the sample.

In this plan the entire state was divided into Master Sample Sampling Units (MSSUs) consisting of from three to five households.

These MSSUs were numbered within each county. The counties included in this study were numbered in serpentine manner and a cumulative list of the MSSUs was made, totaling 25,986.

To obtain sampling segments with the desired number of houses four contiguous MSSUs were required. Since approximately 100


Figure 2. Sample house plan, second floor.
segments of 15 to 20 households each were needed in the sample, a number between one and 259 was chosen from a table of random figures to be the number from which to start. (The number was one.)

The MSSU chosen and the next three MSSUs were outlined on a county map as one sampling segment. The second segment was
designated by adding 259 to the starting number and combining it with the next three MSSUs. This was done through the entire 25,986 MSSUs. A total of 101 segments was outlined on appropriate maps (Figure 4).

## Collection of the Data

Upon reaching a segment (a group of four MSSUs chosen as de-


SCALE $=1 / 16^{\prime}=20^{\prime}-0$
Figure 3. Sample farmstead.
scribed) each farmhouse within its boundary was classified as to type, state of occupancy, and date of construction. ${ }^{6}$ A resident of each occupied tee house of more than one story was interviewed by a home economist and an agricultural engineer.
The two questionnaires filled out by these interviewers included data on the structure and condition of the house, its conveniences, work and living areas, storage facilities, and certain characteristics of the family occupying the dwelling. The agricultural engineer drew a sketch of the placement of the farm buildings and the home economist sketched the floor plan and storage space within the house. From these sketches, scale drawings of the farm building site and the house plan were made.

The interviews took from an

[^8]hour to an hour and a half depending upon the person interviewed, the size and modernization of the house, and the number of farm buildings. Observations by the interviewers were the basis for many answers.
If the occupant was not at home, subsequent visits were made. If the occupant was still not at home or if a refusal was given, a substitute house was found in the sections adjoining the segment. A sample size of 204 tee houses of more than one story was used in this study.

## Summarization of the Data

Data collected were coded into numbers so that a punched card system of processing could be used. Six cards were needed to record data collected on each house. The data were summarized and tabulated. In most comparisons the mode was used as the basis for establishing trends of similarity in the houses surveyed.

## CHARACTERISTICS OF THE TEE SHAPED FARMHOUSE OF MORE THAN ONE STORY

## The Building Site

The location of the house in relation to the road and other farm buildings is an important consideration when remodeling. About 50 per cent of the Nebraska multistory tee farmhouses surveyed were less than 100 feet from a public road (Table 2). The majority of the houses were located on public roads which were graveled, and less than one-fourth of the houses were on roads which had no surfacing (Table 3). The farmhouse was placed between the public road and the other farm buildings in about


70 per cent of the sampling (Table 4).

The front entrance was accessible from the driveway in only 33 per cent of the houses. An additional 50 per cent of the farmsteads could be so arranged that the family could use the front entrance if they

Table 2. Distance of the Farmhouse from the Public Road.

| Distance | Number and percentage of <br> houses a specified <br> distance from road |  |
| :--- | :---: | :---: |
| Feet | Number | Percentage |
| Less than 100 | 102 | 50.0 |
| $101-250$ | 46 | 22.5 |
| $251-400$ | 13 | 6.4 |
| $401-550$ | 8 | 3.9 |
| $551-700$ | 13 | 6.4 |
| $701-850$ | $\ldots$ | $\ldots .6$ |
| $851-1000$ | 1 | 1.6 |
| 1001-1250 | 16 | 7.8 |
| 1251-5000 | $\ldots$. | $\ldots$ |
| More than 5000 | 3 | 1.5 |
| No information | 204 | 100.0 |
| Total |  |  |

Table 3. Type of Surface on Public Road Nearest the Farmhouse.

| Type of surface <br> on nearest <br> public road | Number and percentage of <br> houses on a specified <br> type of road |  |
| :--- | :---: | ---: |
|  | Number | Percent |
| Earth | 53 | 25.9 |
| Gravel | 138 | 67.6 |
| Rock | 3 | 1.5 |
| Paved | 4 | 2.0 |
| Oil mat | 2 | 1.0 |
| Other | 2 | 1.0 |
| No information | 2 | 1.0 |
| Total | 204 | 100.0 |

so desired. In only 17 per cent of the farmsteads would the house or the driveway have to be changed before a front entrance would be accessible from the private drive.

About 70 per cent of the houses had well kept yards and about the same percentage had windbreaks; 90 per cent had shade trees in the yard.

The driveway was visible from the kitchen in 70 per cent of the houses. Fifty per cent of the farm buildings were visible from the kitchen in the farmhouses surveyed. A view of both the farm buildings and the driveway from the kitchen was listed as desirable by Nebraska farm women in the "Nebraska Farm Family Needs and Preference Study."

## Age of the House

About one-third of the respondents knew the exact age of the houses they occupied. Estimates of the age of the remaining houses were obtained by observing the characteristics of the woodwork, the presence of wainscoting, the type of foundation material and other physical features typical of certain eras of building. From the

[^9]Table 4. Relation of Farmhouse to Farm Buildings and Public Road.

| Description of Site | Number and percentage of <br> houses with specified <br> farmsite arrangement |  |
| :--- | :---: | :---: |
|  | Number | Percent |
| House between road and most farm buildings | 148 | 72.5 |
| Farm buildings between house and public road | 12 | 5.9 |
| House beside other buildings | 10 | 4.9 |
| Buildings closer to road than house (not between) | 32 | 15.7 |
| Other arrangement (too far from road to make a difference) | 2 | 1.0 |
| Total | 204 | 100.0 |

Table 5. Age of the Two-Story Tee Farmhouses.

| Age of houseYears | Total houses reported |  | Number and percentage of houses with specified age |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Known age |  | Estimated age |  |
|  |  |  | Number | Percent | Number | Percent |
| Less than 50 | 15 | 7.4 | 11 | 16.9 | 4 | 3.1 |
| 51-60 | 89 | 43.6 | 20 | 30.8 | 69 | 53.1 |
| 61-75 | 74 | 36.3 | 27 | 41.5 | 47 | 36.1 |
| Over 75 | 17 | 8.3 | 7 | 10.8 | 10 | 7.7 |
| No information | 9 | 4.4 |  |  |  |  |
| Total | 204 | 100.0 | 65 | 100.0 | 130 | 100.0 |

comparison of the known age with the estimated age of these houses it may be assumed that the estimates on age were conservative (Table 5).

## Exterior, Interior Structural Condition

The mode was determined for structural characteristics of the houses. Ninety-eight per cent of the Nebraska tee farmhouses surveyed were of frame construction. More than 95 per cent had gabled roofs, only two per cent had both hipped and gabled roofs.

The condition of the basic structure of the house should be a determining factor when considering remodeling. For this reason the condition of the foundation, siding and roofing are important. Brick, stone or a combination of materials were most frequently used for the foundation of the tee farmhouses surveyed (Table 7).

When the parts of the house had been built at different times or when the foundation had been repaired, a combination of materials in the foundation was encountered.

The foundation of more than half of the houses in the sampling was good. A sound foundation is necessary before extensive remodeling is practical. Since the rebuild-
ing of a foundation is one of the most expensive operations in remodeling, its condition merits particular attention. ${ }^{8}$

About 70 per cent of the Nebraska tee farmhouses had sound siding. Wood was the most prevalent siding material. The age of the house had little or no bearing on the soundness of the siding. About 80 per cent of the houses were found to have roofing materials in sound condition. Wooden shingles used on two-thirds, and composition roofing was used on about 15 per cent of the multistory tee farm houses observed. The paint on the exterior of the house was classified good in only 46 per cent of the houses (Table 6).

Table 6. The Condition of the Exterior Paint of the Houses.

| Condition of Paint | Number | Percent |
| :--- | :---: | ---: |
| Good | 94 | 46.1 |
| Faded | 33 | 16.1 |
| Peeling | 20 | 9.8 |
| Peeling and Faded | 32 | 15.7 |
| Cracked | 2 | 1.0 |
| Cracked and Faded | 2 | 1.0 |
| Siding Needs No Paint | 8 | 3.9 |
| No Paint | 8 | 3.9 |
| No Information | 5 | 2.5 |
| Total | 204 | 100.0 |

[^10]Table 7. Condition of Foundation by Material of Foundation and Age of House.

| Material of foundation | Total houses reported |  | Number and percentage of houses reported with specified condition of foundation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Sound |  | Cracked |  | Settled |  | $\begin{gathered} \text { Cracked } \\ \text { andded } \\ \text { Settled } \end{gathered}$ |  | Fair |  | Mortar Gone |  |  |  | $\begin{gathered} \text { No } \\ \text { infor- } \\ \text { mation } \end{gathered}$ |  |
|  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. |  | No. |  |
| Stone | 40 | 19.6 | 22 | 55.0 | 3 | 7.5 | 4 | 10.0 | 7 | 17.5 |  |  | 1 | 2.5 | 1 | 2.5 1.9 | 2 | 5.0 3.8 |
| Brick | 52 | 25.5 | 21 | 40.4 | 4 | 7.7 | 5 | 9.6 | 18 | 17.6 9.5 | 1 | 1.9 | " | $\ldots$ | 1 | 4.8 | 1 | 4.8 |
| Concrete Block | 21 | 10.3 | 16 | 76.2 | 1 | 4.8 | - | ..." | 2 | 9.5 9.1 | $\cdots$ | .... | .. | ... | 1 | 4.5 | .. | .... |
| Concrete | 22 | 10.8 | 17 | 77.3 | 2 | 9.1 | - | ..." | 2 |  | . | $\ldots$ |  | .... |  |  |  |  |
| Tile | 3 | 1.5 | 3 | 100.0 |  | 22.0 | 3 | 5.1 | 11 | 18.6 | 1 | 1.7 | .. | .... | 4 | 6.8 | 2 | 3.4 |
| Combination | 59 | 28.9 | 25 | 42.4 429 | 13 | 22.0 | $\stackrel{ }{ }$ | 5.1 | 1 | 18.6 | . | .... | .. | .... | .. | .... | 4 | 57.1 |
| No information | 7 | 3.4 | 3 | 42.9 | ... | .... | . |  | .... |  |  |  |  |  |  |  |  | 5.4 |
| Total | 204 | 100.0 | 107 | 52.4 | 23 | 11.3 | 12 | 5.9 | 40 | 19.6 | 2 | 1.0 | 1 | . 5 | 8 | 3.9 | 11 |  |
| $\begin{aligned} & \text { Age of house } \\ & \text { Years } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Less than 50 | 15 | 7.4 | 11 | 73.3 |  |  | 1 | 6.7 | 2 | 13.3 | . | .... | * | .... | 1 | 6.7 4.5 | 4 |  |
| 51-60 | 89 | 43.6 | 44 | 49.4 | 13 | 14.6 | 6 | ${ }_{5}^{6.7}$ | 18 | 20.2 | 2 | 2.7 | 1 | 1.4 |  | 2.7 | 6 | 8.1 |
| 61-75 | 74 | 36.3 | 36 | 48.6 | 7 | 9.5 17.6 | 4 | 5.4 | 16 | 11.8 | 2 | 2.7 |  |  | 1 | 5.9 | 1 | 5.9 |
| Over 75 | 17 | 8.3 | 10 | 58.8 66.7 |  |  | 1 | 11.1 | 2 | 22.2 | .' | .... | . | .... | .. | .... | . | .... |
| No information | 9 | 4.4 | 6 | 66.7 |  |  |  | . |  |  |  |  |  |  | 8 | 3.9 | 11 | 5.4 |
| Total | 204 | 100.0 | 107 | 52.4 | 23 | 11.3 | 12 | 5.9 | 40 | 19.6 | 2 | 1.0 | 1 | . | 8 | 3.9 | 1 |  |

Table 8. Condition of Siding by the Material of the Siding.

| Siding Material | Total houses reported <br> No. | Number and percentage of houses reported with specified condition of siding |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sound |  | Loose |  | Weathered |  | Cracked |  | $\begin{gathered} \text { Cracked } \\ \text { and } \\ \text { Weathered } \end{gathered}$ |  | Loose Cracked Weathered |  | Part Good Part Bad |  | Fair |  | $\begin{aligned} & \text { No } \\ & \text { infor- } \\ & \text { mation } \end{aligned}$ |  |
|  |  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| Wood | 162 | 117 | 72.2 | 1 | . 6 | 15 | 9.3 | 3 | 1.9 | 4 | 2.5 | 8 | 4.9 | 4 | 2.5 | 2 | 1.2 | 8 | 4.9 |
| Asbestos shingle | 14 | 13 | 92.9 | .. | .. | .... | .... | .. | . | .. | .... | . | .... | . | .... | .. | .... | 1 | 7.1 |
| Asphalt roll | 1 |  | 100.0 | .. | .. | .... | .... | .. | .... | .. | .... | .. | .... | .. | .... | .. | .... | .. | .... |
| Comp shingle | 5 |  | 100.0 | .. | .. | .... | .... | .. | .... | .. | .... | .. | .... | .. | .... | .. | .... | .. | .... |
| Stucco | 2 |  | 100.0 | .. | .. | .... | .... | .. | .... | .. | .... | . | .... | .. | .... | .. | .... | .. | .... |
| Combination | 4 |  | 100.0 |  |  |  |  |  |  |  |  | .. | .... | .. | .... | .. | .... |  |  |
| No information | 16 | 9 | 56.3 | 2 | 12.5 | 1 | 6.2 | 3 | 1.5 | 1 | 6.2 | .. | .... | . | .... | . | .... | 3 | 18.8 |
| Total | 204 | 151 | 74.0 | 3 | 1.5 | 16 | 7.8 | 3 | 1.5 | 5 | 2.4 | 8 | 3.9 | 4 | 2.0 | 2 | 1.0 | 12 | 5.9 |


| Roofing material | Total houses reported |  | Number and percentage of houses reported with specified condition of roofing |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Sound |  | Weathered |  | LooseandWeathered |  | Warped |  | Weathered and Warped |  | Weathered Warped Loose |  | Other |  | $\begin{gathered} \text { No } \\ \text { infor- } \\ \text { mation } \end{gathered}$ |  |
|  |  |  | No. | Pct. | No. |  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| Wood shingle | 136 | 66.6 | 113 | 83.1 | 11 | 8.1 | 5 | 3.6 | . | . | 2 | 1.5 | 2 | 1.5 | .. | .... | 3 | 2.2 |
| Composition | 31 | 15.2 | 25 | 80.6 | 2 | 6.5 | .. | .... | .. | .. | .. | .... | .. | .... | .. | .... | 4 | 12.9 |
| Combination | 8 | 3.9 | 6 | 75.0 | 1 | 12.5 | .. | .... | 1 | 12.5 | .. | .... | .. | .... | - | $\ldots$ | .. | .... |
| Asphalt shingle | 14 | 6.9 | 12 | 85.7 | 1 | 7.1 |  |  | .. | .... | .. | .... | .. | .... | 1 | 7.1 | .. | .... |
| Asphalt roll | 4 | 2.0 | 2 | 50.0 | 1 | 25.0 | 1 | 25.0 | .. | .... | . | .... | .. | .... | . | .... | .. | .... |
| Other | 4 | 2.0 | 3 | 75.0 | .. |  | 1 | 25.0 | .. | .... | .. | .... | .. | .... | .. |  |  |  |
| No information | 7 | 3.4 | 1 | 14.3 | .. |  | .. | ...... | . | .... | .. | .... | . | .... | . | .... | 6 | 85.7 |
| Total | 204 | 100.0 | 162 | 79.4 | 16 | 7.8 | 7 | 3.4 | 1 | . 5 | 2 | 1.0 | 2 | 1.0 | 1 | . 5 | 13 | 6.4 |

The interior state of repair of the house was judged by the condition of the plaster and floors. About 70 per cent of the houses had sound plaster, and about 65 per cent had good floors (Tables 10 and 11).

From the foregoing information (Tables 6 to 11) it is apparent that the age of the house is not the important factor in determining the apparent condition of the structure. Instead, each house must be judged on the basis of its present state of repair, and thus the practicability of remodeling established.

## THE HOUSE PLAN

In order to determine whether or not patterns for remodeling tee houses would be possible a comparison of the size and arrangement of the rooms in the houses was necessary.

## Room Arrangement in Cross of Tee

All of the houses had space for two rooms in the cross of the tee ${ }^{9}$ in both the first and second floor. Remodeling done before the interview was made had changed the division of the space in some of the houses (Table 12).

## Room Arrangement in Stem of Tee

The room arrangement in the stem of the tee was more varied. More than two-thirds of the houses had only one room in the stem and

[^11]about half of these had a second story room on the stem of the tee (Table 13).

## Size of Tee House

The tee houses of more than one story in this study fall into a pattern of sizes. Remodeling recommendations will be simplified if the trend is followed through the complete study. Although some variation in the overall dimensions of the houses was found, in about 95 per cent of the houses measured the width of the cross of the tee was within the range of 12 to 16 feet, with a width of 14 feet observed in about two-thirds of the houses. The length of the cross of the tee was in the range 22 to 30 feet in about 92 per cent of the houses, with a length of 24 to 26 feet most common.

The stem of the tee was generally about the same width as the cross, with 50 per cent of the stems 14 feet wide and 90 per cent in the range 12 to 16 feet. The most common length of the stem observed was 16 feet (over one-fourth of the houses), and about 70 per cent were within the range 14 to 20 feet. The measurements discussed are inside measurements.

About 50 per cent of the houses contained between 180 and 260 square feet in the stem. Forty per cent of the houses had between 320 and 370 square feet in the cross of the tee (Tables B-1 and B-2).

The distribution of square feet in the stem and in the cross does not vary to any great extent, but is concentrated close to the median (Table B-3). The mean of the size of the houses was also computed (Table B-4).
Table 10. The condition of the Plaster by the Age of the House.*

| Age of house Years | Total houses reported |  | Number and percentage of houses reported with specified condition of plaster |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cracked |  | Loose |  | Sound |  | Cracked and Loose |  | Fair |  | Wall Board |  | $\begin{gathered} \text { No } \\ \text { infor- } \\ \text { mation } \end{gathered}$ |  |
|  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| Less than 50 | 15 | 7.4 |  |  |  |  | 15 | 100.0 |  |  |  |  |  |  |  |  |
| 51-60 | 89 | 43.6 | 8 | 9.0 | 13 | 14.6 | 58 | 65.2 | 5 | 5.6 | 3 | 3.4 | 1 | 1.1 | 1 | 1.1 |
| 61-75 | 74 | 36.3 | 1 | 1.3 | 13 | 17.6 | 50 | 67.6 | 3 | 4.1 | 2 | 2.7 | . | .... | 5 | 6.7 |
| Over 75 | 17 | 8.3 | 1 | 5.9 | 3 | 17.6 | 11 | 64.7 | 1 | 5.9 | .. | .... | .. | .... | 1 | 5.9 |
| No information | 9 | 4.4 | .. | .... | 1 | 11.1 | 7 | 77.8 | .. | .... | .. | .... | .. | .... | 1 | 11.1 |
| Total | 204 | 100.0 | 10 | 4.9 | 30 | 14.7 | 141 | 69.1 | 9 | 4.4 | 5 | 2.5 | 1 | . 5 | 8 | 3.9 |

Table 11. The Condition of the Wood Floors by the Age of the House.

| Age of house Years | Total houses reported |  | Number and percentage of houses reported with specified condition of floors |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Not <br> Level |  | Warped |  | One Thickness |  | Good |  | $\begin{gathered} \text { Warped, } \\ \text { not } \\ \text { level } \end{gathered}$ |  | Fair |  | BothGood \&Bad |  | Good, not level |  | $\begin{aligned} & \text { No } \\ & \text { infor- } \\ & \text { mation } \end{aligned}$ |  |
|  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| Less than 50 | 15 | 7.4 | 1 | 6.7 |  | $\cdots$ |  |  | 13 | 86.6 |  |  |  |  | 1 | 6.7 |  |  |  |  |
| 51-60 | 89 | 43.6 | 14 | 15.7 | 3 | 3.4 | 1 | 1.1 | 62 | 69.7 | 4 | 4.5 | 1 | 1.1 | 1 | 1.1 | 2 | 2.2 | 1 | 1.1 |
| 61-75 | 74 | 36.3 | 14 | 18.9 | 5 | 6.7 | 3 | 4.1 | 38 | 51.4 | 2 | 2.7 | 2 | 2.7 | 5 | 6.7 | 2 | 2.7 | 3 | 4.1 |
| Over 75 | 17 | 8.3 | 3 | 17.6 | 1 | 5.9 | .. | .... | 7 | 41.1 | .. | .... | 2 | 11.8 | 1 | 5.9 | 2 | 11.8 | 1 | 5.9 |
| No information | 9 | 4.4 | 2 | 22.2 | .. | .... | .. | .... | 6 | 66.7 | .. | .... | .. | .... | .. | .... | .. | .... | 1 | 11.1 |
| Total | 204 | 100.0 | 34 | 16.7 | 9 | 4.4 | 4 | 2.0 | 126 | 61.8 | 6 | 2.9 | 5 | 2.4 | 8 | 4.0 | 6 | 2.9 | 6 | 2.9 |

Table 12. Room Divisions in the Cross of the Tee.

| Rooms on First Floor | $\underset{\substack{\text { Rooms on } \\ \text { Second } \\ \text { Floor }}}{ }$ | Number and percentage of houses reported as having specified room divisions |  |
| :---: | :---: | :---: | :---: |
|  |  | Number | Percent |
|  | Two rooms | 2 | 1.0 |
| One room | Two rooms | .... |  |
| One room | Three rooms | $\ldots$ |  |
| One room | Four rooms | 4 | 2.0 |
| Two rooms | One room | 4 168 | 82.3 |
| Two rooms | Two rooms | 168 15 | 7.3 |
| Two rooms | Three rooms | 1 | . 5 |
| Two rooms | Four rooms |  |  |
| Three rooms | One room | 9 | 4.4 |
| Three rooms | Two rooms | 3 | 1.5 |
| Three rooms | Three rooms | 3 | 1.5 |
| Three rooms | Four rooms | $\ldots$ |  |
| Four rooms | One room | 1 | . 5 |
| Four rooms | Two rooms | 1 | . |
| Four rooms | Three rooms | 1 | . 5 |
| Four rooms | Four rooms | 1 | . 5 |
|  | Total | 204 | 100.0 |

## Openings in Tee House

The number of openings in each room depended upon room placement with respect to the rest of the original tee rather than upon the room use. Seventy-five per cent of the houses with only one room in the stem had seven, eight, or nine openings. Two or three of these openings were windows, one or two outside doors, and three, four, or five inside doors. Most of the houses had about two openings on each wall except the wall where the stem of the tee joined the cross.

On this wall there were frequently more than two openings.

Fewer openings were found in the rooms in the cross of the tee. Four, five, or six openings were found most frequently; of these two or three were window, two or three inside doors and not more than one outside door. One or two openings were found on each wall of most of these rooms.

## Hallways and Stairways

Hallways on the first floor were found in only 29 per cent of the

Table 13. Room Divisions in the Stem of the Tee.

| Rooms on <br> First <br> Floor | Rooms on <br> Second <br> Floor |  | Number and percentage of houses <br> reported as having specified <br> room division |
| :--- | :--- | :---: | :---: |
|  | No room | Number | Percent |
| One room | No room | 68 | 33.3 |
| Two rooms | One room | 31 | 15.2 |
| One room | Two rooms | 71 | 34.8 |
| Two rooms | One room | 24 | 11.7 |
| Two rooms | Two rooms | 5 | 2.5 |
| One room | Three rooms | 3 | 1.5 |
| Three rooms | Three rooms | 1 | .5 |
| One room | Threr | 1 | .5 |
|  | Total | 204 | 100.0 |

Table 14. Placement of Downstairs Hallways.

| Placement of <br> Halls | Number and Percentage of <br> Houses Reported |  |
| :--- | :---: | :---: |
|  | Number | Percent |
| None | 144 | 70.6 |
| From front entrance to stairs | 12 | 5.9 |
| From dining room to bath | 5 | 2. |
| From living room to stairs | 10 | 2.4 |
| From back door to kitchen | 2 | 4.9 |
| Fiom front entrance to stairs and bath | 10 | 1.0 |
| From kitchen to stairs | 12 | 4.9 |
| Central hallway | 9 | 5.9 |
| Other | 204 | 4.4 |
| Total |  | 100.0 |

houses (Table 14). About 70 per cent of the houses had stairs that opened onto a second floor hallway. The stairway opened directly into a bedroom or storage room in about 30 per cent of the houses.

About half of the stairways were located between the two rooms in the cross of the tee. The entrance to the stairway of the mode house was in the stem of the tee (Table 15).

The height of stair risers did not vary between the first and second floor of most of the houses surveyed. Almost 75 per cent of these stairways had no landings or turns (Table 16). Forty-five per cent of the stairs had seven feet of headroom (Table 17). About half of the steps were from 29 to 32 inches wide, had an eight inch rise and a nine or ten inch tread (Table 18 and 19).

Minimum measurements for stairways of six feet eight inches headroom and of 36 inch width have been established. It is important that all steps have the same riser height. The recommended measurements for steps between first and second floor are a seven inch rise and a ten inch tread. ${ }^{10}$

[^12]
## Second Floor of Tee House

The second floor of most of the multistory tee houses had two or three rooms (Table 20). Two-thirds of these had sloping ceilings, the mode having a forty-five degree slope (Table 21). In about half of the houses the slope of the second story ceiling began so low on the wall that it interfered with furniture placement and use of the floor space (Table 22).

## Basements

Basements were found in 70 per cent of the houses surveyed. Only 11 per cent of the sample had full basements. Most of the basements had finished walls but had no method of drainage (Tables 23 and 24). Very few of the basement stairs in this sample met the specifications recommended by Carter and Hinchcliff ${ }^{11}$ (Tables B-7 to B-10).

Forty per cent of the families used the basement for storage while 30 per cent did not specify that the basement space was used at all (Table 25).

## Kitchens and Bathrooms

The kitchen of each multistory tee house was classified as to the

[^13]Table 15. Placement of the Stairway by the Room Opening to the Entrance of the Stairway.

| Placement of stairway | Total houses reported |  | Number and percentage of houses with specified stairway placement and room opening to entrance of stairway |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Living room |  | Dining room |  | Kitchen |  | Hall off living room |  | Hall off dining room |  | Hall off kitchen |  | Bedroom |  | Opening, 2 rooms or more |  | Other |  |
|  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| In cross of tee |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Between rooms entrance from cross of house | 17 | 8.3 | 1 | 5.9 | 1 | 5.9 | 1 | $5.9{ }^{\circ}$ | .... | .... | .... | $\ldots$ | $\ldots$ | $\ldots$ | 1 | 5.9 | 10 | 58.8 | 3 | 17.6 |
| Between rooms entrance from stem of house | 68 | 33.3 | 4 | 5.9 | 27 | 39.7 | 33 | 48.5 | .... | .... | 1 | 1.5 | $\cdots$ | .... | 1 | 1.5 | 2 | 2.9 | $\ldots$ | $\cdots$ |
| Parallel to cross entrance from center of house | 37 | 18.1 | 20 | 54.1 | 5 | 13.5 | 5 | 13.5 | .... | $\cdots$ | .... | .... | 2 | 5.4 | $\ldots$ | .... | 5 | 13.5 | $\ldots$ | .... |
| Parallel to cross entrance from side of house | 20 | 9.8 | 4 | 20.0 | 4 | 20.0 | 4 | 20.0 | $\ldots$ | .... | $\cdots$ | .... | 1 | 5.0 | 1 | 5.0 | 5 | 25.0 | 1 | 5.0 |
| Between rooms from middle | 7 | 3.4 | 4 | 57.1 | 1 | 14.3 |  |  | $\ldots$ | $\cdots$ | 1 |  | 2 | 15.4 | 1 | $\begin{array}{r} 14.3 \\ 7.7 \end{array}$ | 1 | $\begin{aligned} & 14.3 \\ & 23.0 \end{aligned}$ | 1 | 7.7 |
| Other | 13 | 6.4 | 2 | 15.4 | 2 | 15.4 | 1 | 7.7 | .... | .... | 1 | 7.7 | 2 | 15.4 | 1 | 7.7 | 3 |  | 1 | 7.7 |
| In stem of tee Parallel to cross | 14 | 6.9 | .. | .... | 4 | 28.6 | 7 | 50.0 | $\ldots$ | $\cdots$ | .... | $\ldots$ | 2 | 14.3 | .... | .... | $\ldots$ | .... | 1 | 7.1 |
| Perpendicular to cross | 15 | 7.4 | 1 | 6.7 | 2 | 13.3 | 3 | 60.0 23.0 | 1 | 6.7 |  |  | 2 | 13.3 | … | $\ldots$ | $\ldots$ | .... | … | .... |
| Other | 13 | 6.4 | 1 | 7.7 | 8 | 61.5 | 3 | 23.0 | .... | .... | 1 | 7.7 | .... | .... | .... | .... | $\cdots$ | . $\quad$ : | $\cdots$ |  |
| Total | 204 | 100.0 | 37 | 17.6 | 54 | 26.5 | 63 | 30.9 | 1 | . 5 | 3 | 1.5 | 9 | 4.4 | 5 | 2.5 | 26 | 12.7 | 6 | 2.9 |

Table 16. Description of the Stairway to Second Floor by the Characteristics of the Risers.

| $\begin{aligned} & \text { Description } \\ & \text { of } \\ & \text { stairway } \end{aligned}$ | Total houses reported <br> Number | Number and percentage of houses having specified features |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Risers same height |  | Risers different heights |  | No information |  |
|  |  | No. | Pct. | No. | Pct. | No. | Pct. |
| Straight | 148 | 137 | 92.6 | 8 | 5.4 | 3 | 2.0 |
| Wind | 37 | 34 | 91.9 | 1 | 2.7 | 2 | 5.4 |
| Landing | 3 | 3 | 100.0 |  |  |  |  |
| Landing an | Vind 8 | 3 | 37.5 | 2 | 25.0 | 3 | 37.5 |
| No informa | - 8 | 2 | 25.0 | .... | .... | 6 | 75.0 |
| Total | 204 | 179 | 87.7 | 11 | 5.4 | 14 | 6.9 |

Table 17. Headroom Dimensions of Stairway to Second Story.

| Headroom |  | Number and percentage of stairways with specified dimensions |  |
| :---: | :---: | :---: | :---: |
| Feet | Inches | Number | Percent |
| 5 | 0 | 1 | . 5 |
| 5 | 6 | 11 | 5.4 |
| 6 | 0 | 32 | 15.7 |
| 6 | 6 | 9 | 4.4 |
| 7 | 0 | 93 | 45.6 |
| 7 | 6 | 6 | 2.9 |
| 8 | 0 | 17 | 8.3 |
| No info | ion | 35 | 17.2 |
| Total |  | 204 | 100.0 |

Table 18. Width of Steps of Stairways to Second Story.

| Width of <br> step <br> Inches | Number and percentage of <br> stairways with specified di- <br> mensions |  |
| :--- | :---: | :---: |
|  | Number | Percent |
| $25-28$ | 10 | 4.9 |
| $29-32$ | 93 | 45.6 |
| $33-36$ | 54 | 26.5 |
| 37 or more | 14 | 6.8 |
| No information | 33 | 16.2 |
| Total | 204 | 100.0 |

Table 20. Number of Rooms on Second Floor.

| Number of <br> rooms | Number and percentage of <br> houses with specified number <br> of rooms |  |
| :---: | :---: | :---: |
|  | Number | Percent |
| 2 | 90 | 44.1 |
| 3 | 81 | 39.7 |
| 4 | 24 | 11.8 |
| 5 | 8 | 3.9 |
| 6 | 1 | .5 |
| Total | 204 | 100.0 |

Table 21. Angle of Slope in Ceilings of Second Story Rooms.

| Angle of <br> slope | Number and percentage of <br> ceilings with specified <br> degree of slope |  |
| :--- | :---: | ---: |
|  | Number | Percent |
| None | 20 | 9.8 |
| $33^{\circ}$ | 20 | 9.8 |
| $45^{\circ}$ | 98 | 48.1 |
| Slope but degree <br> not known | 37 | 18.1 |
| No information | 29 | 14.2 |
| Total | 204 | 100.0 |

Table 22. Height of Beginning of the Slope in Second Story Rooms.

| Height of wall beiore slope begins | Number and percentage of walls of specified height |  |
| :---: | :---: | :---: |
| Feet | Number | Percent |
| Less than 4 | 18 | 8.8 |
| 4-less than 5 | 21 | 10.3 |
| 5 -less than 6 | 35 | 17.2 |
| 6 -less than 7 | 7 | 3.4 |
| 7 -more | 2 | 1.0 |
| Slope but height of wall not known | 72 | 35.3 |
| No slope | 20 | 9.8 14.9 |
| No information | 29 | 14.2 |
| Total | 204 | 100.0 |

Table 23. Material in Basement Walls.

| Material | Number and percentage <br> of houses with <br> specified feature | Percentage of houses <br> with basements <br> with specified feature |  |
| :--- | :---: | :---: | :---: |
|  | Number | Percent | Percent |
| Stone | 32 | 15.7 | 22.1 |
| Brick | 32 | 15.7 | 22.1 |
| Concrete block | 15 | 7.3 | 10.3 |
| Concrete | 24 | 11.8 | 16.6 |
| Tile | 5 | 2.5 | 3.4 |
| Dirt | 7 | 3.4 | 4.8 |
| No basement | 59 | 28.9 | 11.7 |
| Combination | 17 | 8.3 | 9.0 |
| No information | 13 | 6.4 | 100.0 |
| Total | 204 | 100.0 |  |

Table 24. Drainage of Basement.

| Method of <br> drainage | Number and percentage <br> of houses with <br> specified feature |  | Percentage of houses <br> with basements <br> with specified feature |
| :--- | :---: | :---: | :---: |
|  | Number | Percent | Percent |
| Floor drain | 13 | 6.4 | 9.0 |
| Pump | 2 | 1.0 | 1.4 |
| No basement | 59 | 28.9 | 1.5 |
| Other | 3 | 55.4 | 2.0 |
| None | 113 | 6.8 | 77.9 |
| No information | 14 | 100.0 | 9.7 |
| Total | 204 | 100.0 |  |

Table 25. Use of Basement.

| Use | Number and percentage <br> of families reporting <br> specified use | Percentage of houses <br> with basements where <br> families reported <br> specified use |  |
| :--- | :---: | :---: | :---: |
|  | Number | Percent | Percent |
| Storage | 82 | 40.2 | 56.6 |
| Water heater | 37 | 18.1 | 25.5 |
| Pump | 30 | 14.7 | 20.7 |
| Washer | 15 | 7.4 | 10.3 |
| Bath | 5 | 2.5 | 3.4 |
| Dairy equipment | 6 | 2.9 | 4.1 |
| Freezer | 3 | 1.5 | 2.1 |
| Water softener | 1 | .5 | .7 |
| Water storage | 1 | .5 | .7 |
| No use specified | 45 | 22.1 | 31.0 |
| No basement | 59 | 28.9 | $\cdots . .$. |

shape of the existing work area, $\mathrm{U}, \mathrm{L}$, two wall, single wall, or no planned arrangement. The amount of storage and work space was studied in relationship to the arrangement of the kitchen, in order to ascertain whether the work areas in kitchens of any one specified shape had more space than did those of any other. More than half of the work centers could not be classified into any specified shape (Tables B-11 to B-16). Many of those with some semblance of arrangement still had little work and storage space.

One of the conditions noted in Nebraska tee farmhouses surveyed was the lack of kitchen sinks and
drains. About 20 per cent of the houses had no sink in the kitchen while ten per cent of the kitchens had sinks with no drains. Twenty per cent of the houses had sinks but the water had to be carried into the house.

About one-fifth of the houses had sinks that were not enclosed. An additional one-fifth of the sinks were enclosed, but were not part of a counter top.

Another remodeling problem presented in the tee houses studied was the bathroom. More than 50 percent of the houses had rooms the families designated as bathrooms. This room did not necessarily have a flush toilet, lavatory

Table 26. Bathrooms and Bathroom Facilities.

| Bathroom facilities | Number and percentage of houses |  |  |  | $\begin{aligned} & \text { Drain } \\ & \text { no water } \end{aligned}$ |  | Drain cold water |  | Drain hot and cold water |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Without specified facilities |  | With specified facilities |  |  |  |  |  |  |  |
|  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| Bathrooms | 106 | 52.0 | 98 | 48.0 | .... | .... | .... | .... |  |  |
| Flush toilet | 121 | 59.3 | 79* | 38.7 | .... | .... | .... | .... |  |  |
| Shower bath | 179 | 87.7 | 25 | 12.3 |  |  |  |  |  |  |
| Lavatory | 109 | 53.4 | 81** | 39.7 | 5 | 2.5 | 8 | 3.9 | 82** | 40.2 |
| Bathtub | 117 | 57.4 | 87 | 42.6 | 10 | 4.9 | 6 | 2.9 | 71** | 34.8 |

[^14]or bathtub with hot or cold water (Table 26). In the houses where this designated room had been built these facilities could usually be added at a minimum cost and inconvenience. In houses without this space the bathroom should be incorporated into the overall remodeling program.

## Storage

Storage space was one of the most serious inadequacies observed in the multistory tee houses surveyed. Many homemakers used one or more of the available bedrooms for storage (Table 27).

The amount of storage space provided in closets and storage furniture was measured and totaled in square feet of floor space. In addition, each homemaker was asked if her storage space was adequate. Those women who did not believe they had adequate storage were asked in which rooms they would like more. Although a number of women expressed doubts that enough storage could ever be provided, indications from the tabulated results are that women with greater amounts of storage space
tend to be more satisfied with their storage than the women with lesser amounts.

## MODERNIZATION

The multistory tee houses in this sample had more modern conveniences than was shown in the 1940 census for all Nebraska farm families. ${ }^{12}$ Ninety-eight per cent of the sample surveyed had electricity at least for lighting (Table 28).

Water was piped into about 50 per cent of the houses, and about 45 per cent had a sewage disposal system. More than 40 per cent had water heaters, but only three percent had water softener units (Table 29). Central heat was found in less than 20 per cent of the houses, and not all of these could heat all of the rooms (Table 30).

Mechanical refrigerators and power washers were found in nearly all houses. About three-fourths of the families had electric or gas ranges, about half had electric pumps, about one-third had electric milk separators, and almost one-fourth had freezers (Table 31).

[^15]Table 27. Number of Bedrooms in the House and Number Used for Storage.

| Number of bedrooms | Number and percentage of houses with specified number of bedrooms |  | Number and percentage of families using specified number of bedrooms for storage |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Number | Percent |
| 0 | .... | .... | 99 |  |
| 1 | $\cdots$ | $\ldots$ | 54 | 26.5 |
| 2 | 2 | 1.0 | 37 | 18.1 |
| 3 | 75 | 56.8 | 11 | 5.4 |
| 4 | 87 | 42.6 | 2 | 1.0 |
| 5 | 31 | 15.2 | .... | $\ldots$ |
| 6 | 6 | 2.9 | ... | $\cdots$ |
| 7 | 1 | . 5 | $\ldots$ | .... |
| $8$ | $1$ | . 5 |  | . 5 |
| No information | 1 | . 5 | 1 | . 5 |
| Total | 204 | 100.0 | 204 | 100.0 |

Table 28. Number and Types of Electrical Circuits.

| Number of circuits | Number and percentage of houses with specified types of circuits |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Lighting* |  | Power |  | Convenience |  |
|  | No. | Pct. | No. | Pct. | No. | Pct. |
| 0 | 1 | . 5 | 24 | 11.8 | 39 | 19.1 |
| 1 | 7 | 3.4 | 48 | 23.5 | 20 | 9.8 |
| 2 | 41 | 20.1 | 16 | 7.8 | 14 | 6.8 |
| 3 | 21 | 10.3 |  |  | 1 | . 5 |
| 4 | 29 | 14.2 | 1 | . 5 | 1 | . 5 |
| 5 | 12 | 5.9 |  |  |  | .... |
| 6 | 2 | 1.0 | 1 | . 5 |  |  |
| No electricity | 4 | 2.0 | 4 | 2.0 | 4 | 2.0 |
| No information | 87 | 42.6 | 110 | 53.9 | 125 | 61.3 |
| Total | 204 | 100.0 | 204 | 100.0 | 204 | 100.0 |

[^16]Table 29. Water and Sewage Disposal Facilities.

| Type of Facility | Number and percentage of houses having specified facilities |  |
| :---: | :---: | :---: |
|  | Number | Percent |
| Water system |  |  |
| Type |  |  |
| Pressure | 79 | 38.7 |
| Gravity | 26 | 12.7 |
| Pitcher pump | 14 | 6.9 |
| Other | 1 | . 5 |
| None | 72 | 35.3 |
| No information | 12 | 5.9 |
| Total | 204 | 100.0 |
| Sewage disposal system |  |  |
| Type |  |  |
| Septic tank | 46 | 22.5 |
| Cesspool | 24 | 11.8 |
| Open line | 10 | 4.9 |
| Combination | 6 | 2.9 |
| Other | 6 | 2.9 |
| None | 108 | 52.9 |
| No information | 4 | 2.0 |
| Total | 204 | 100.0 |
| Hot water heater |  |  |
| Type ${ }_{\text {Electric }}$ ( 64.4 |  |  |
|  |  |  |
| Gas | 16 | 7.8 |
| Oil | 7 | 3.4 |
| Type not known | 2 | 1.0 |
| Other (range or furnace heated) | 2 | 1.0 |
| None | 109 | 53.4 |
| No information | 4 | 2.0 |
| Total | 204 | 100.0 |
| Water softener unit |  |  |
| Have one | 6 | 2.9 |
| None | 164 | 80.4 |
| No information | 34 | 16.7 |
| Total | 204 | 100.0 |

No clothes driers or garbage disposal units were owned by the families included in this study.

## REMODELING

Some modernization and remodeling had been done in many of the houses. In addition to modernization, one or more additions had been built onto three-fourths of the houses surveyed. These additions were most frequently built into the right angle formed by the juncture of the stem and the cross of the tee. In most houses a room or two had been added in this fashion, but no plan for improved circulation or improved use of space was apparent (Table 32).

## CHARACTERISTICS OF THE FAMILY

No study of family housing would be of value without a knowledge of the types of families occupying the dwellings. Characteristics of the family influence the space and equipment needed in a house. For this reason all unoccupied houses in this study were automatically eliminated.

## The Family Members

Ninety-five per cent of the households surveyed included a husband and wife. There were children living at home in over two-thirds of the houses (Table 33). Occupants other than the immediate members of the family were found in only ten per cent of the cases, of which eight per cent were related to the family. ${ }^{13}$

[^17]In households where the interviews were held, the total number of persons ranged from one to nine and did not exceed four in about 75 per cent of the houses. Most of the houses met the requirement of one room per person, ${ }^{14}$ but some families did not use the recommended number of rooms even though they were available (Table 34 ) and (B-17). This sampling showed no apparent relationship between the number of rooms in the house and the number of people living in it.
In assessing housing needs not only the number of members in a household is important but also the age of the members and composition of the family. In 45 per cent of the households surveyed both the husband and wife were 40 years of age or under. Thirtyfive per cent of them were between the ages of 40 and 60 . In about ten per cent of the families both husband and wife were over 60 years old. Over half of the farm couples in this study were 40 years of age or over (Table 35).

A division of households according to the age of all members of the family including the husband and wife has been made. The largest number of families fall into the stage of the family cycle where the women have a peak load of work (one couple with children). Many families in this study having peak loads did not have modern conveniences (Table 36). Careful planning and increased modernization when remodeling would save these

[^18]Table 30. Kind of Fuel Used by Type of Heating Plant.

| Type of heating plant | $\begin{gathered} \text { Total } \\ \text { houses } \\ \text { reported } \end{gathered}$ |  | Number and percentage of heating plants using specified fuel |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Oil |  | Coal |  | Wood |  | Coal \& Wood |  | Propane |  | Gas |  | $\begin{gathered} \text { Combin- } \\ \text { ation } \end{gathered}$ |  | No information |  |
|  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| Steam | , | . 5 | $\ldots$ | .... |  |  | .... | .... |  |  | .... | .... | .... | .... | 1 | 100.0 | .... | .... |
| Hot water | 2 | 1.0 |  |  | 1 | 50.0 | .... | .... | 1 | 50.0 |  |  |  |  | .... | .... | .... | .... |
| Forced air | 22 | 10.7 | 13 | 59.1 | 3 | 13.6 | .... | .... | 1 | 4.5 | 4 | 18.2 | 1 | 4.5 | .... | .... | .... | .... |
| Pipeless | 4 | 2.0 | 1 | 25.0 | 1 | 25.0 | .... | .... | 2 | 50.0 |  |  | .... | .... | .... | $\ldots$ | $\ldots$ | $\ldots$ |
| Floor furnace | 2 | 1.0 | 1 | 50.0 | .... | . | $\cdots$ |  | $\ldots$ | .... | 1 | 50.0 | $\ldots$ | $\cdots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ |
| Gravity | 10 | 4.9 | 2 | 20.0 | 5 | 50.0 | 2 | 20.0 |  |  | 1 | 10.0 | .... | .... |  |  |  |  |
| Space heater | 132 | 64.7 | 78 | 59.1 | 4 | 3.0 | 6 | 4.5 | 11 | 8.3 | 5 | 3.8 | .... | .... | 26 | 19.7 | 2 | 1.5 |
| Central heat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No central heat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Combination | 3 | 1.5 | 2 | 66.7 |  |  | .... | ..." | $\ldots$ | $\cdots$ |  |  |  |  | 1 | 33.3 3.6 |  |  |
| No information | 28 | 13.7 | 5 | 17.8 | 4 | 14.3 | .... | .... | .... |  | 2 | 7.1 | 1 | 3.6 | 1 | 3.6 | 15 | 53.6 |
| Total | 204 | 100.0 | 102 | 50.0 | 18 | 8.8 | 8 | 3.9 | 15 | 7.4 | 13 | 6.4 | 2 | 1.0 | 29 | 14.2 | 17 | 8.3 |

Table 31. Types and Kinds of Equipment Used.

| Type of equipment | Number and percentage of families with specified kind of equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Electric |  | Gas |  | Hand |  | Combination |  | Wood |  | Electric \& Wood |  | Gas \& Wood |  | Wood \& Kerosene |  | Other |  | None |  | No information |  |
|  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| Range | 54 | 26.5 | 53 | 26.0 | .... | $\ldots$ | 13 | 6.4 | 32 | 15.7 | 16 | 7.8 | 15 | 7.3 | 4 | 2.0 | 7 | 3.4 | 2 | 1.0 | 8 | 3.9 |
| Refrigerator | 178 | 87.3 | 12 | 5.9 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ... | .... | 2 | 1.0 | 6 | 2.9 | 6 | 2.9 |
| Washer |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Conventional | 180 | 88.2 | 3 | 1.5 | .... | $\ldots$ | .... | $\cdots$ | .... | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\cdots$ | $\ldots$ | 2 | 1.0 | 5 | 2.5 | 8 | 3.9 |
| Automatic | 6 | 2.9 | .... | .... | .... | .... | .... | .... | .... | $\ldots$ | $\ldots$ | $\ldots$ | $\cdots$ | $\ldots$ | .... | $\ldots$ | $\cdots$ | .... |  |  |  |  |
| Ironers | 6 | 2.9 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ... | .... | .... | .... | .... | 190 | 93.1 | 8 | 3.9 |
| Freezer | 49 | 24.0 | ... | .... |  |  | .... | .... | $\ldots$ | . | .... | .... | .... | .... | .... | .... | .... | .... | 147 | 72.1 | 8 | 3.9 |
| Milk separator | 71 | 34.8 | .... | .... | 32 | 15.7 | .... | .... | .... | .... | ... | .... | .... | ... | .... | .... | .... | . | 90 | 44.1 | 11 | 5.4 |


| Electric <br> No. Pct |  | Gas |  | Electric \& Hand |  | Electric \& Windmill |  | Windmill |  | Hand \& Windmill |  | Other |  | None |  | No Information |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | No. | Pct. | No. | Pct | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| Pump | 10551.5 | 1 | .. | 3 | 1.5 | 2 | 1.0 | 27 | 13.2 | 14 | 6.9 | 13 | 6.3 | 30 | 14.7 | 9 | 4.4 |

Table 32. Number and Types of Additions Built.

| Type of addition | Number and percentage of houses <br> with specified addition |  |
| :--- | :---: | :---: |
|  | Number | Percent |
| Addition to one side of the stem | 90 | 44.1 |
| Addition to both sides of the stem | 24 | 11.8 |
| Other additions | 8 | 3.9 |
| More than one addition | 25 | 12.3 |
| Addition to end of the stem | 6 | 2.9 |
| No addition | 51 | 25.0 |
| Total | 204 | 100.0 |

Table 33. Children Iiving at Home.

| Number of children | Number and percentage of <br> households with specified <br> number of children |  |
| :---: | :---: | :---: |
|  | Number | Percent |
| 0 | 58 | 28.4 |
| 1 | 38 | 18.6 |
| 2 | 57 | 28.0 |
| 3 | 28 | 13.7 |
| 4 | 7 | 3.4 |
| 5 | 11 | 5.4 |
| 6 | 2 | 1.0 |
| 7 | 3 | 1.5 |
| Total | 204 | 100.0 |

homemakers much time and energy.

## Income

The high cost of improvements, and low and variable farm incomes are often assumed to be causes of inadequate farm housing. To spot check the validity of this assumption and to serve as an indication
of the amount that might be spent for remodeling an estimate of net income for the preceding year was asked from each respondent.

Almost one-third of the people interviewed did not know and did not choose to estimate their incomes of the previous year. The distribution of the extent of modernization according to the income reported was tabulated with data available (Table 37). Increased income apparently has little relationship to the increased amount of central heating and electricity. Running water, hot water heater, and sewage disposal systems; however, do vary proportionately with the income.

## Tenure

Tenure is often assumed to be another important factor when con-

Table 34. Number of Rooms in the House by the Number of Persons in the Household.

| Number of persons in household | $\begin{gathered} \text { Total } \\ \text { households } \\ \text { reported } \end{gathered}$ |  | Number and percentage of houses with specified number of rooms |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 5 |  | 6 |  | 7 |  | 8 |  | 9 |  | 10 |  |
|  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| 1 |  | 2.0 |  |  | 2 | 50.0 | 2 | 50.0 |  |  |  |  |  |  |
| 2 | 50 | 24.5 | 3 | 6.0 | 20 | 40.0 | 14 | 28.0 | 9 | 18.0 | 4 | 8.0 |  |  |
| 3 | 42 | 20.6 | 11 | 26.2 | 11 | 26.2 | 12 | 28.5 | 6 | 14.3 | 1 | 2.4 | 1 | 2.4 |
| 4 | 53 | 26.0 | 10 | 18.9 | 19 | 35.8 | 8 | 15.1 | 10 | 18.9 | 5 | 9.4 | 1 | 1.9 |
| 5 | 32 | 15.6 | 5 | 15.6 | 13 | 40.6 | 8 | 25.0 | 2 | 6.3 | 2 | 6.3 | 2 | 6.3 |
| 6 | 6 | 2.9 | 2 | 33.3 | 1 | 16.7 | 2 | 33.3 | 1 | 16.7 | ... | .... | .... |  |
| 7 | 11 | 5.4 | 1 | 9.1 | 2 | 18.2 |  | 54.5 |  | 18.2 | .... | .... | .... |  |
| 8 | 2 | 1.0 | .... | .... | 2 | 100.0 |  |  |  |  | .... | .... | .... |  |
| 9 | 4 | 2.0 | .... | .... | 1 | 25.0 | 2 | 50.0 | 1 | 25.0 | .... | .... | .... | ... |
| Total | 204 | 100.0 | 32 | 15.7 | 71 | 34.8 | 54 | 26.4 | 31 | 15.2 | 12 | 5.9 | 4 | 2.0 |

Table 35. Age of the Head of the Household by Age of the Homemaker.

| $\begin{gathered} \text { Age of } \\ \text { homemaker } \\ \text { Years } \end{gathered}$ | Total reported |  | Number and percentage of the heads of the households of specified ageYears |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 25 orunder |  | $\begin{gathered} 26-30 \\ \text { No. Pct. } \end{gathered}$ |  | $\begin{gathered} 31-35 \\ \text { No. Pct. } \end{gathered}$ |  | $\begin{gathered} 36-40 \\ \text { No. Pct. } \end{gathered}$ |  | $\begin{gathered} 41-45 \\ \text { No. Pct. } \end{gathered}$ |  | $\begin{gathered} 46-50 \\ \text { No. Pct. } \end{gathered}$ |  |  |  | $\left\|\begin{array}{c} 56-60 \\ \text { No. Pct. } \end{array}\right\|$ |  | $\begin{gathered} 61-65 \\ \text { No. Pct. } \end{gathered}$ |  | $\begin{gathered} 66 \text { and } \\ \text { over } \end{gathered}$No. Pct. |  | Notappli-cableNo |  | $\begin{array}{\|c} \text { No } \\ \text { infor- } \\ \text { mation } \\ \text { No. Pct } \end{array}$ |  |
| 25 or under | 24 | 11.8 |  | 33.3 | 11 | 45.8 |  | 12.5 | 1 | 4.2 | $\ldots$ | . | .... |  | .... | ... | .... |  | 1 | 4.2 | .... | .... | .... |  |  |  |
| 26-30 | 30 | 14.7 | .... | .... | 10 | 33.3 | 16 | 53.3 |  | 10.0 |  |  |  |  | .... | $\ldots$ | .... | ... | .... |  | .... | .... | .... | .... | 1 | 3.3 |
| 31-35 | 19 | 9.3 | .... | .... | 1 | 5.3 |  | 31.5 |  | 31.5 | 4 | 21.1 |  | 5.3 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1 | 5.3 |
| 36-40 | 22 | 10.8 | .... | .... | .... | .... | 1 | 4.5 |  | 22.7 | 10 | 45.5 |  | 27.3 |  |  | .... | .... | .... | ... |  | .... | .... | .... |  |  |
| 41-45 | 19 | 9.3 | .... | .... | .... | .... | .... | .... | ... | .... | 9 | 47.4 |  | 31.5 |  | 21.1 | .... | .... | ... | ... | .... | .... | .... | .... |  |  |
| 46-50 | 19 | 9.3 | .... | ... | .... | .... | ... | .... | .... | .... | 1 | 5.3 |  | 52.6 |  | 42.1 |  |  |  |  |  |  |  |  |  |  |
| 51-55 | 19 | 9.3 | .... | ... | .... | .... |  |  | .... | .... | ... | .... |  | 21.1 |  | 31.5 |  | 42.1 |  | 5.3 |  |  |  |  |  |  |
| 56-60 | 15 | 7.4 | .... | .... | .... | .... | 1 | 6.7 | .... | .... |  |  | .... | .... | .... | .... |  |  |  | 26.7 | 1 | 6.7 |  |  |  |  |
| 61-65 | 12 | 5.9 | ... | .... | .... | .... | .... | .... |  |  | 1 | 8.3 |  |  | $\ldots$ | .... | .... | $\cdots$ |  | 41.7 | 6 | 50.0 |  |  |  |  |
| Over 65 | 9 | 4.4 | .... | ... | ... | ... | .... | .... |  | 22.2 | .... | .... |  | 11.1 | ... | ... | . | . |  |  |  | 44.4 |  | 22.2 |  |  |
| Not applicable | 6 | 2.9 | .... | .... | .... |  | .... | .... |  | 33.3 |  | ... |  | 33.3 | .... | $\ldots$ |  |  |  | 16.7 |  | 16.7 |  |  |  |  |
| No information | 10 | 4.9 | .... | .... | .... | ... | .... | ... | ... | . | .... | . | ... | .... | .... | .... |  | 20.0 | .... | ... | .... | ... |  |  |  | 60.0 |
| Total | 204 | 100.0 | 8 | 3.9 |  | 10.8 | 27 | 13.2 | 19 | 9.3 | 25 | 12.3 | 30 | 14.7 | 18 | 8.8 |  | 9.3 | 12 | 5.9 | 12 | 5.9 | 4 | 2.0 | 8 |  |

Table 36. Extent of Modernization by Family Type.

| $\begin{aligned} & \text { Item of } \\ & \text { modernization } \end{aligned}$ | Number and percentage of each family type with specified facilities |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Single <br> Persons |  | One couple families |  |  |  | Families with children |  |  |  |  |  |  |  | Adult families |  |  |  | Grandparents and Grandchildren |  |
|  |  |  | Couples | Couple and other adults |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Woman over 35 years |  | Woman under 35 years |  | Children under 8 years |  | Children up thru 18 years |  | Children under 8 years |  | Children up thru 18 years |  |  |  | Two bedrooms |  | More than two bedrooms |  |
|  | No. | Pct. | No. |  | No. |  |  | Pct. | No. |  | No. | Pct. | No. |  | No. | Pct. |  |  | No. | . Pct. |
| Central heat- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Have central heat | 1 | 10.0 | 2 | 28.6 | 8 | 21.1 | 11 | 20.8 | 13 | 19.7 | 1 | 20.0 | 2 | 33.3 | 1 | 10.0 | 2 | 25.0 |  |  |
| Have no central heat | 9 | 90.0 | 5 | 71.4 | 30 | 78.9 |  | 79.2 | 52 | 78.8 | 4 | 80.0 | 4 | 66.7 | 9 | 90.0 | 6 | 75.0 | 1 | 100.0 |
| No information | ... |  | .... | .... | .... | .... | .... | .... | 1 | 1.5 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Running water- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pitcher pump | 2 | 20.0 |  |  | 4 | 10.5 | 3 | 5.7 | 3 | 4.5 | 1 | 20.0 |  |  |  |  | 1 | 12.5 | $\ldots$ | .... |
| Pressure system | 2 | 20.0 | 3 | 42.9 | 13 | 34.2 | 23 | 43.4 | 30 | 45.5 | 2 | 40.0 | 4 | 66.7 | 1 | 10.0 | 1 | 12.5 | .... | .... |
| Gravity system | 1 | 10.0 | 3 | 42.9 | 2 | 5.3 | 7 | 13.2 | 6 | 9.1 | .... | .... | 1 | 16.7 | 3 | 30.0 | 3 | 37.5 | .... | .... |
| Other | 4 |  | 1 |  | 1 | 2.6 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |
| None No information | 4 | 40.0 10.0 | 1 | 14.2 | 15 | 39.5 7.9 |  | 35.8 | 23 | 34.8 |  | 20.0 | 1 | 16.7 | 5 | 50.0 | 2 | 25.0 | 1 | 100.0 |
| No information Hot water heater- | 1 | 10.0 | .... |  | 3 | 7.9 |  | 1.9 | 4 | 6.1 |  | 20.0 | ... | .... | 1 | 10.0 | 1 | 12.5 | .... | .... |
| Have heater | 2 | 20.0 | 3 | 42.9 | 16 | 42.1 | 25 | 47.2 | 32 | 48.5 | 3 | 60.0 | 4 | 66.7 | 2 | 20.0 | 4 | 50.0 |  |  |
| Have no heater | 8 | 80.0 | 4 | 57.1 | 21 | 55.3 | 25 | 47.2 | 34 | 51.5 | 2 | 40.0 | 2 | 33.3 | 8 | 80.0 | 4 | 50.0 | 1 | 100.0 |
| No information | .... | .... | .... | .... | 1 | 2.6 | 3 | 5.6 | $\ldots$ | .... | .... | $\ldots$ | .... | $\ldots$ | $\cdots$ | .... | .... | .... | .... | $\cdots$ |
| Sewage disposal system |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Have sewage disposal | 1 | 10.0 | 2 | 28.6 | 15 | 39.5 | 28 | 52.8 | 35 | 53.0 | 2 | 40.0 | 4 | 66.7 | 2 | 20.0 | 3 | 37.5 |  |  |
| Have no sewage disposal | 9 | 90.0 | 5 | 71.4 | 22 | 57.9 | 22 | 41.5 | 31 | 47.0 | 3 | 60.0 | 2 | 33.3 | 8 | 80.0 | 5 | 62.5 | 1 | 100.0 |
| No information | .... | .... | .... | .... | 1 | 2.6 | 3 | 5.7 | .... | .... | .... | .... | $\ldots$ | .... | $\ldots$ | .... | .... | .... | $\ldots$ | .... |
| Electricity |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lighting only | 1 | 10.0 |  |  | 1 | 2.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lighting and power | 6 | 60.0 | 2 | 28.6 | 16 | 42.1 | 22 | 41.5 | 27 | 40.9 | 2 | 40.0 | 2 | 33.3 | 6 | 60.0 | 4 | 50.0 | 1 | 100.0 |
| House lights and running water | $\ldots$. | .... | .... | .... | .... | .... | .... | .... | 1 | 1.5 | $\ldots$ | $\cdots$ | .... | ... | $\ldots$ | $\ldots$ | .... | ... | $\ldots$ | $\cdots$ |
| House lights, power, and running water | 3 | 30.0 | 5 | 71.4 | 18 | 47.4 | 30 | 56.6 | 36 | 54.5 | 3 | 60.0 | 4 | 66.7 | 2 | 20.0 | 4 | 50.0 | .... | - |
| None | .... | .... | .... | $\ldots$ | 2 | 5.3 | 1 | 1.9 |  |  | .... | .... | .... | .... | 2 | 20.0 | .... | .... | .... | $\ldots$ |
| No information | .... | .... | .... | .... | 1 | 2.6 | .... | .... | 2 | 3.0 | .... | .... | .... | .... | . | .... | .... | .... | .... | $\ldots$ |
| Total | 10 | 4.9 | 7 | 3.4 | 38 | 18.6 | 53 | 26.0 | 66 | 32.4 | 5 | 2.5 | 6 | 2.9 | 10 | 4.9 | 8 | 3.9 | 1 | . 5 |

sidering farmhouse improvement (Table 38). In this sampling owneroccupied multistory tee farmhouses had more modernization than rented houses.

## SPACE STANDARDS

The advantages of these modernization features are many when viewed in the light of comforts and conveniences in daily living. However, modernization will not necessarily cause a house to meet the family needs and requirements.

## Adequacy

Adequate space for the activities of the members of the family must also be provided. The number of square feet in the tee houses was compared with the space recommended by the American Public Health Association. ${ }^{15}$ Recommendations by the committee on healthful housing were made in terms of activities carried on in the house rather than upon partitioned rooms. The committee analyzed the space for activities in terms of three requirements: (1) space necessary for furniture and equipment essential to the activity, (2) space adjacent to the furniture or equipment essential to the performance of the activity, and (3) space necessary for storage of materials and equipment essential to the activity.

While the space allotments do not represent specific rooms, these standards are the best known to date. For this study it was not deemed advisable to ask questions on activity placement, because of the length of the questionnaire. A comparison was made, however, of

[^19]the size of the rooms in which the furniture and equipment essential for the given activity were usually found and the space recommendations listed by the American Public Health Association. If any houses were consistently limited in the space allotments, such shortcomings would show up in the total number of square feet of the house when compared with the total recommended square footage. These standards were developed according to the number of people in the household. The published recommendations are for households of from one to six people. Households with greater numbers of people were included in this study, and the recommendations were estimated at a proportional rate of increase.

When compared with the American Public Health Association standards about 45 per cent of the measured multistory tee houses had inadequate living space (Table 39).

## Storage

The lack of sufficient storage space in these multistory tee houses was very conspicuous. About 90 per cent of the families did not have the recommended minimum storage space within the total living area (Table 40). Almost this number of homemakers expressed a desire for additional storage space.

## Family Activities

From a comparison of the recommended space with the actual space available for family activities, an indication of adequacy was obtained. The space in the bedrooms of most of the houses was ample to
Table 37. Extent of Modernization by Income.

| Item ofmodernization | Number and percentage of families with specified facilities |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Lostmoney |  | $\begin{aligned} & \$ 0- \\ & 599 \end{aligned}$ |  | $\begin{aligned} & \$ 600- \\ & 1499 \end{aligned}$ |  | $\begin{aligned} & \$ 1500- \\ & 2999 \end{aligned}$ |  | $\begin{gathered} \$ 3000- \\ 4999 \end{gathered}$ |  | $\begin{aligned} & \$ 5000- \\ & 7499 \end{aligned}$ |  | $\begin{gathered} \$ 7500- \\ 9999 \end{gathered}$ |  | $\begin{aligned} & \$ 10,000- \\ & \text { \& over } \end{aligned}$ |  | No information |  | Don't know |  |
|  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| Central heat- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Have central heat |  |  | 1 | 33.3 | 1 | 5.9 | 4 | 10.3 | 10 | 23.3 | 10 | 45.5 | 3 | 37.5 | 1 | 20.0 | 8 | 14.3 | 3 | 33.3 |
| Have no central heat | 2 | 100.0 | 2 | 66.7 | 15 | 88.2 | 35 | 89.7 | 33 | 76.7 | 12 | 54.5 | 5 | 62.5 | 4 | 80.0 | 48 | 85.7 | 6 | 66.7 |
| No information |  |  |  |  | 1 | 5.9 | .... | .... |  |  |  |  |  |  |  |  |  |  |  |  |
| Running water - - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pitcher pump |  |  | .... | .... | 2 | 11.8 | 4 | 10.8 | 2 | 4.7 | 2 | 9.1 | 1 | 12.5 |  |  | 2 | 3.6 | 1 | 11.1 |
| Pressure system | 1 | 50.0 | , |  | 4 | 23.5 | 13 | 33.3 | 20 | 46.5 | 12 | 54.5 | 4 | 50.0 | 3 | 60.0 | 18 | 32.1 | 4 | 44.4 |
| Gravity system | .... | .... | 1 | 33.3 | 1 | 5.9 | 3 | 7.7 | 8 | 18.6 | 3 | 13.6 | 1 | 12.5 | 1 | 20.0 | 7 | 12.5 | 1 | 11.1 |
| Other |  |  |  |  |  |  |  |  | 1 | 2.3 |  |  | .... |  |  |  |  |  |  |  |
| None | 1 | 50.0 | 1 | 33.3 | 10 | 58.8 | 15 | 38.4 | 11 | 25.6 | 3 | 13.6 |  |  | 1 | 20.0 | 27 | 48.2 | 3 | 33.3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Have heater | 1 | 50.0 | 1 | 33.3 | 4 | 23.5 | 16 | 41.0 | 21 | 48.8 | 14 | 63.6 | 6 | 75.0 | 4 | 80.0 | 19 | 33.9 | 5 | 55.6 |
| Have no heater | 1 | 50.0 | 2 | 66.7 | 13 | 76.5 | 23 | 59.0 | 21 | 48.8 | 6 | 27.3 | 2 | 25.0 | 1 | 20.0 | 36 | 64.3 | 4 | 44.4 |
| No information | .... | .... | .... | .... | .... | .... | .... | .... | 1 | 2.3 | 2 | 9.1 | 2 | 25.0 | 1 | 20.0 | 1 | 1.8 | 4 | . |
| Sewage disposal system |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Have sewage disposal | 1 | 50.0 |  |  | 5 | 29.4 | 15 | 38.4 | 22 | 51.2 | 15 | 68.2 | 6 | 75.0 | 4 | 80.0 | 20 | 35.7 | 4 | 44.4 |
| Have no sewage disposal |  | 50.0 | 3 | 100.0 | 12 | 70.6 | 24 | 61.5 | 20 | 46.5 | 5 | 22.7 | 2 | 25.0 | 1 | 20.0 | 35 | 62.5 | 5 | 55.6 |
| Electricity |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lighting only |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 3.6 |  |  |
| Lights and power | 1 | 50.0 | 2 | 66.7 | 12 | 70.6 | 20 | 51.3 | 17 | 39.5 | 5 | 22.7 | 1 | 12.5 | 1 | 20.0 | 25 | 44.6 | 4 | 44.4 |
| House lights and running water | .. | .... | .... | $\ldots$ | $\ldots$ | ... | $\cdots$ | .... | .... | .... | .... | .... | .... |  | .... |  |  |  | 1 | 11.1 |
| House lights, power |  | 50.0 | , | 93.3 | , | 29.4 | 7 | . | ... | .... | ... | .... | .... | .... | .... | $\ldots$ | $\ldots$ | $\ldots$ |  |  |
| and running water | 1 | 50.0 | 1 | 33.3 | 5 | 29.4 | 17 | 43.5 | 26 | 60.5 | 16 | 72.7 | 7 | 87.5 | 4 | 80.0 | 24 | 42.9 | 4 | 44.4 |
| None <br> iJn information | $\cdots$ | .... | .... | $\ldots$ | .... | .... | 1 | 2.6 | .... | .... | , |  | .... | .... | .... |  | 4 | 7.1 | .... | .... |
| ion information | - | $\ldots$ | $\ldots$ | $\ldots$ | .... | .... | 1 | 2.6 | .... | .... | 1 | 4.5 | $\ldots$ | .... | $\ldots$ | ... | 1 | 1.8 |  |  |
| Total | 2 | 1.0 | 3 | 1.5 | 17 | 8.3 | 39 | 19.1 | 43 | 21.0 | 22 | 10.8 | 8 | 3.9 | 5 | 2.5 | 56 | 27.5 | 9 | 4.4 |

Table 38. Extent of Modernization by Tenure.

| Item | Number and percentage of families with specified facilities |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Own |  | Rent |  | No information |  |
|  | No. | Pct. | No. | Pct. | No. | Pct. |
| Central heat |  |  |  |  |  |  |
| Have central heat | 27 | 26.2 | 13 | 13.1 | 1 | 50.0 |
| Have no central heat | 75 | 72.8 | 86 | 86.9 | 1 | 50.0 |
| No information | 1 | 1.0 |  |  | .... | .... |
| Running water-pitcher pump | 3 | 2.9 | 11 | 11.1 |  |  |
| Pressure system | 49 | 47.6 | 29 | 29.3 | 1 | 50.0 |
| Gravity system | 13 | 12.6 | 13 | 13.1 | .... | .... |
| Other |  |  | 1 | 1.0 | 1 |  |
| None | 31 | 30.1 | 40 | 40.4 | 1 | 50.0 |
| No information | 7 | 6.8 | 5 | 5.1 | .... | .... |
| Hot water heater |  |  |  |  |  |  |
| Have heater | 57 | 55.3 | 33 | 33.3 | 1 | 50.0 |
| Have no heater | 44 | 42.7 | 64 | 64.6 | 1 | 50.0 |
| No information | 2 | 1.9 | 2 | 2.0 | $\ldots$ | $\cdots$ |
| Sewage disposal system |  |  |  |  |  |  |
| Have sewage disposal | 56 | 54.4 | 35 | 35.4 | 1 | 50.0 |
| Have no sewage disposal | 45 | 43.7 | 62 | 62.6 | 1 | 50.0 |
| No information | 2 | 1.9 | 2 | 2.0 | .... | , |
| Electricity |  |  |  |  |  |  |
| Lighting only | 1 | 1.0 | 1 | 1.0 |  |  |
| Lights and power | 36 | 35.0 | 51 | 51.5 | 1 | 50.0 |
| House lights and running water | 1 | 1.0 | .... | .... | .... | .... |
| House lights, power, and running water | 61 | 59.2 | 43 | 43.4 | 1 | 50.0 |
| None | 2 | 1.9 | 3 | 3.0 | .... | 50.0 |
| No information | 2 | 1.9 | 1 | 1.0 | .... | ... |
| Total | 103 | 50.5 | 99 | 48.5 | 2 | 1.0 |

meet the requirements suggested for sleeping and dressing. Additional activities could be carried on in the bedrooms in most of the houses without crowding (Table B-18). Although the bedrooms were of adequate size in most of the tee houses, the space used for closets and storage furniture did not meet the minimum recommendation in 45 per cent of the houses (Table B-19).

## Personal

Comparison was also made of the space recommended for personal cleanliness and sanitation with the space in the room designated by the family as the bathroom. Since many houses had no bathroom, all of these houses were classed as inade-
quate in this space allowance. In some additional houses the space used for the bathroom was not large enough to meet the standard for the number of people in the household (Table B-20).

In houses with no bathroom, equipment for personal cleanliness and sanitation located within the house would probably be in the kitchen and bedrooms. Storage space within the bathroom frequently occupies little or no floor space, since cabinets built in the wall are sufficient to hold many of the items used in this room. Because of this no standards for minimum storage were recommended by the American Public Health Association.
Table 39. Total Living Space Available by Number of Persons in the Household.

| Number of square feet | Total families reported |  | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | 2 |  | 3 |  | 4 |  | 5 |  |  |  |  |  |  |  | 9 |
|  |  |  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |  | Pct. |
| Less than 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 400-749 | 9 | 4.4 | ... |  | * |  | 3 | 33.3 | 1 | 11.1 | 3 | 33.3 | 1 | 11.1 | 1 | 11.1 |  |  | .... | .... |
| 750-999 | 46 | 22.5 | 1 | 2.2 |  | *23.9 | 11 | 23.9 | 13 | 28.3 | 7 | 15.2 | 1 | 2.2 |  |  | 2 | 4.3 | .... |  |
| 1000-1149 | 53 | 26.0 | 1 | 1.9 | 15 | 28.3 | 9 | *17.0 | 13 | 24.5 | 9 | 17.0 | 2 | 3.8 | 2 | 3.8 |  |  | 2 | 3.8 |
| 1150-1399 | 60 | 29.4 | 1 | 1.7 | 17 | 28.3 | 12 | 20.0 | 17 | *28.3 | 6 | 10.0 | 2 | 3.8 | 5 | 8.3 | $\ldots$ | .... | 2 | 3.8 |
| 1400-1549 | 23 | 11.3 | 1 | 4.3 | 5 | 21.7 | 6 | 26.1 | 6 | 26.1 | 2 | *8.7 | .... |  | 3 | 13.0 | $\ldots$ | $\ldots$ | .... | .... |
| 1550-1699 | 11 | 5.4 | .... | .... | 2 | 18.2 | 1 | 9.1 | 3 | 27.3 | 4 | 36.3 | ..... | * | .... |  | $\ldots$ | .... | 1 | 9.1 |
| 1700-1849 | 1 | . 5 | .... | .... | .... | $\ldots$ | .... | .... | .... | ... | .... | ... | $\ldots$ | .... | ..... | * | .... |  | 1 | 100.0 |
| 1850-1999 |  |  | .... | .... | .... | .... | .... | .... | .... | $\ldots$ | $\ldots$ | .... | .... | .... | .... | .... | .... | * |  | 100.0 |
| 2000-2149 | 1 | . 5 | .... | .... | .... | .... | .... | .... | .... | $\ldots$ | 1 | 100.0 | $\ldots$ | .... | .... | $\ldots$ | .... | .... | * | $\cdots$ |
| 2150 and over |  |  | $\ldots$ | $\ldots$ | .... | $\ldots$ | .... | $\ldots$ | $\ldots$ | . |  |  | $\ldots$ | $\ldots$ | $\ldots$ | .... | .... | .... | * | .... |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |
| * Recommended space for specified number of persons in household. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| $\underset{\substack{\text { square } \\ \text { feet }}}{\text { Number of }}$ | Total families reported |  | Number and percentage of persons in houses with specified storage space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 |  | 2 |  | 3 |  | 4 |  | 5 |  | 6 |  | 7 |  | 8 |  | 9 |  |
|  | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| Less than 44 | 27 | 13.2 | 2 | 7.4 | 9 | 33.3 | 4 | 14.8 | 4 | 14.8 | 5 | 18.5 |  |  | 2 | 74 | 1 | 3.7 |  |  |
| 44-106 | 115 | 56.4 | 2 | *1.7 | 23 | 20.0 | 23 | 20.0 | 33 | 28.7 | 21 | 18.3 | 5 | 4.3 | 2 | 4.3 | 1 | . 9 | 2 | 1.7 |
| 107-156 | 48 | 28.5 | .... | .... | 15 | * 31.3 | 13 | 27.1 | 9 | 18.7 | 4 | 8.3 | 1 | 2.1 | 4 | 8.3 | .... |  | 2 | 4.2 |
| 157-188 | 8 | 3.9 | .... | .... | 3 | 37.5 | 1 | * 12.5 |  | 50.0 |  |  |  |  |  |  | .... | $\ldots$ |  |  |
| 189-232 | 3 | 1.5 | .... | .... | .... | .... |  |  | 2 | *66.7 | 1 | 33.3 | $\ldots$ | .... | $\ldots$ | ... | .... | $\ldots$ | .... | $\ldots$ |
| 233-250 | 2 | 1.0 | .... | .... | .... | .... | 1 | 50.0 |  |  | 1 | 50.0 | $\ldots$ | ..... | .... | .... | ... | $\ldots$ | $\ldots$ | $\ldots$ |
| 251-270 | .... | .... | ... | .... | .... | .... | .... | 50.0 | $\ldots$ | .... | 1 | * | .... | $\ldots$ | . . | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\cdots$ |
| 271-290 | .... | $\cdots$ | .... | .... | .... | .... | .... | $\ldots$ | $\ldots$ | $\ldots$ | .... | .... | * | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ |
| 291-310 | ... | $\ldots$ | .... | .... | .... | $\ldots$ | $\ldots$ | .... | .... |  | ... | $\ldots$ |  | .... | * | $\ldots$ | .... |  | $\ldots$ | $\ldots$ |
| 311-330 |  |  | .... | .... | .... | .... | .... | $\ldots$ | .... | $\ldots$ | ... | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | * |  |  | $\ldots$ |
| 331 and more | 1 | . 5 | .... | .... | $\ldots$ | .... | .... | .... | 1 | 100.0 |  |  |  |  |  | $\ldots$ |  |  | * |  |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |

## Food Preparation and Preservation

Space for food preparation and preservation is found in the kitchens and pantries. Space for serving food and dining is also found in the kitchen, particularly in houses where there is no separate dining room. ${ }^{16}$ To obtain an approximation of the adequacy of this space three separate comparisons were made. The kitchen space found in the houses with dining rooms was compared with the space recommended for food preparation and preservation. Most of these houses were found to have adequate floor space, and less than half had adequate storage space in the kitchen and pantries (Tables B-21 and B-22).

A second comparison was made of the space recommended for serving food and dining with the space in dining room area. Half of these areas were of adequate size, but the storage again failed to meet the minimum standards in most of the houses (Tables B-23 and B-24).

For the third comparison the space requirements for food preparation and preservation and food serving and dining were totaled. This total was compared with the space in the kitchen and dining room if the house had both rooms or with the kitchen if there was no dining room. Most of the houses had sufficient space within these rooms for these activities, but the storage was very inadequate, since more than 90 per cent of the houses did not meet the minimum standard (Table B-26).

[^20]
## Living Space

The size of the living rooms was compared with the space recommendations for family recreation and self-improvement and extrafamilial associations. In most of the houses the living room space alone was inadequate to meet the space requirements for these activities (Table B-27). Because of the nature of the activities an overlapping into the kitchen and dining areas, as well as into the bedrooms, would be expected. This overlapping would tend to make the inadequacy less critical. According to the recommended minimum standards storage again was inadequate in this area (Table B-28).

## Housekeeping Activities

The American Public Health Association standards included space for what they called housekeeping activities. Few homemakers had special rooms that could be classified as being primarily for housekeeping activities. In the few homes where such rooms were found they were small and contained almost no storage space. Evidently most of the so-called "housekeeping activities" were carried on throughout other parts of the house (Tables B-29 and B-30).

## Other

Space for other basic household activities was either non-existent or included in another area. For example, none of the houses had special space for the care of the infant or the ill. The space for the operation of utilities was included in other room measurements or in the basement areas.

## Circulation

Halls are necessary to keep traffic out of living areas and to aid in convenience. The halls and stairways were compared with the circulation standards set by the American Public Health Association. Almost 70 per cent of the houses had the space necessary to keep major traffic routes out of the living area
of the house (Table B-31).
The data collected in this study provide evidence that many problems exist in the multistory tee house and suggest that some of these may be alleviated by remodeling. The sampling indicates that special attention should be given to the grave inadequacy of storage space.

## APPENDIX A

## List of Figures and Tables

Number Figures Page
1 Sample House-First Floor. ..... 8
2 Sample House Plan-Second Floor ..... 9
3 Sample Farmstead ..... 10
4 Location of Sampling Segments of Two Story Tee Farm Houses ..... 11
Number Tables ..... Page
1 Types of Houses in the Sampling Segment, the State of Occupancy and the Age ..... 7
2 Distance of the Farmhouse From the Public Road ..... 12
3 Type of Surface on Public Road Nearest the Farm House ..... 12
4 Relation of Farmhouse to the Farm Buildings and Public Road ..... 12
5 Age of the Two Story Tee Farmhouses ..... 13
6 The Condition of Exterior Paint ..... 13
7 Condition of Foundation by Material of the Foundation and Age of House ..... 14
8 Conditon of Siding by the Material of the Siding ..... 15
9 Condition of the Roofing by the Material of the Roofing ..... 15
10 The Condition of the Plaster by the Age of the House ..... 17
11 The Condition of the Wood Floors by the Age of the House ..... 17
12 Room Divisions in the Cross of the Tee ..... 18
13 Room Divisions in the Stem of the Tee ..... 18
14 Placement of Downstairs Hallways ..... 19
15 Placement of the Stairway by the Room Opening to the Entrance of the Stairway ..... 20
16 Description of the Stairway to Second Floor by the Characteristics of the Risers ..... 21
17 Headroom Dimensions of Stairway to Second Floor ..... 21
18 Width of Steps of Stairways to Second Story ..... 21
19 Dimensions of Risers and Treads of Stairways to Second Flcor ..... 21
20 Number of Rooms on Second Floor ..... 21
21 Angle of Slope in Ceilings of Second Story Rooms ..... 22
Number Tables Page
22 Height of Beginning of the Slope in Second Story Rooms ..... 22
23 Material in Basement Walls ..... 22
24 Drainage of Basement ..... 22
25 Use of Basement ..... 23
26 Bathrooms and Bathroom Facilities ..... 23
27 Number of Bedrooms in the House and Number Used for Storage ..... 24
28 Number and Types of Electrical Circuits ..... 25
29 Water and Sewage Disposal Facilities ..... 25
30 Kind of Fuel Used by Type of Heating Plant ..... 27
31 Types and Kinds of Equipment Used ..... 27
32 Number and Types of Additions Built ..... 28
33 Children Living at Home ..... 28
34 Number of Rooms in the House by the Number of Persons in the Household ..... 28
35 Age of the Head of the Household by Age of the Homemaker ..... 29
36 Extent of Modernization by Family Type ..... 30
37 Extent of Modernization by Income ..... 32
38 Extent of Modernization by Tenure. ..... 33
39 Total Living Space Available by Number of Persons in the Household ..... 34
40 Total Storage Space Available by Number of Persons in the Household ..... 34

## APPENDIX B

Supplementary Tables
Number Tables Page
B-l Dimensions of the Cross of the Tee ..... 39
B-2 Dimensions of the Stem of the Tee ..... 39
B-3 Square Feet in the House ..... 40
B-4 Average Inside Dimensions of Multistory Tee Houses ..... 40
B-5 Description of the Height of the Ceilings ..... 41
B-6 Description of the Placement of the House on the Farmstead ..... 41
B-7 Description of the Stairway to Basement by the Characteristics of the Risers ..... 41
B-8 Headroom Dimensions of the Stairway to Basement ..... 41
B-9 Width of Steps of Stairways to Basement ..... 42
B-10 Dimensions of Risers and Treads of Stairways to Basement ..... 42
B-11 Amount of Counter Space in the Kitchen by the Shape of the Work Center ..... 43
B-12 Amount of Storage Space for Foodstuffs in the Kitchen by the Shape of the Work Center ..... 44
B-13 Amount of Storage Space for Pots and Pans in the Kitchen by the Shape of the Work Center ..... 44
Number Tables Page
B-14 Amount of Storage Space for Utensils in the Kitchen by the Shape of the Work Center ..... 45
B-15 Amount of Storage Space for Dishes in the Kitchen by the Shape of the Work Center ..... 45
B-16 Amount of Storage Space for Linens in the Kitchen by the Shape of the Work Center ..... 46
B-17 Number of Rooms Used for Living by Number of Persons in Household ..... 46
B-18 Space for Sleeping and Dressing by Number of Persons in the Household ..... 47
B-19 Storage in Sleeping and Dressing Area by Number of Persons in the Household ..... 47
B-20 Space for Personal Cleanliness and Sanitation by Number of Persons in the Household ..... 48
B-21 Space for Food Preparation and Preservation by Number of Persons in the Household ..... 49
B-22 Storage in Food Preparation and Preservation by Number of Persons in the Household ..... 49
B-23 Space for Serving Food and Dining by Number of Persons in the Household ..... 50
B-24 Storage in Serving Food and Dining Area by Number of Persons in the Household ..... 50
B-25 Space for Food Preparation, Preservation, Serving and Dining by Number of Persons in the Household ..... 51
B-26 Storage in Food Preparation, Preservations, Serving and Dining Areas by Number of Persons in the Household ..... 51
B-27 Space for Recreation, Self-Improvement, and Extra Familial Association by Number of Persons in the Household ..... 52
B-28 Storage in Recreation, Self-Improvement, and Extra Familial Association by Number of Persons in the Household ..... 52
B-29 Space for Housekeeping by Number of Persons in the Household ..... 53
B-30 Storage in Housekeeping Area by Number of Persons in the Household ..... 53
B-31 Space for Circulation Between Various Areas of the Dwelling by Number of Persons in the Household ..... 54
Table B-1. Dimensions of the Cross of the Tee.


[^21]Table B-3. Square Feet in the House.

| Spuare <br> Feet* | Number and percentage of houses of specified size |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\text { No. }{ }_{\text {Stem. }}^{\text {Pct. }}$ |  | Cross |  |
|  |  |  | No. | Pct. |
| Less than 140 | 6 | 2.9 | 1 | . 5 |
| 140-159 | 11 | 5.4 | .... | $\ldots$ |
| 160-179 | 17 | 8.3 | .... | ...... |
| 180-199 | 27 | 13.2 | $\ldots$ | ...... |
| 200-219 | 21 | 10.3 | .... | ....... |
| 220-239 | 29 | 14.2 | $\ldots$ | $\ldots$ |
| 240-259 | 20 | 9.8 | 3 | 1.5 |
| 260-279 | 11 | 5.4 | 7 | 3.4 |
| 280-299 | 11 | 5.4 | 12 | 5.9 |
| 300-319 | 14 | 6.9 | 3 | 1.5 |
| 320-339 | 9 | 4.4 | 25 | 12.2 |
| 340-359 | 8 | 3.9 | 22 | 10.8 |
| 360-379 | 7 | 3.4 | 40 | 19.6 |
| 380-399 | 3 | 1.5 | 15 | 7.3 |
| 400-419 | 3 | 1.5 | 21 | 10.3 |
| 420-439 | 2 | 1.0 | 22 | 10.8 |
| 440-459 | 1 | . 5 | 11 | 5.4 |
| 460-479 |  | .... | 6 | 2.9 |
| $480-499$ | 1 | . 5 | 2 | 1.0 |
| 500-519 |  |  | 6 | 2.9 |
| 520-539 | 1 | . 5 | 2 | 1.0 |
| 540-559 |  |  | 3 | 1.5 |
| 560-579 | 2 | 1.0 |  |  |
| 580-599 | .... | .... | 2 | 1.0 |
| 600-619 Over 619 | $\ldots$ | .... | $\ldots$ |  |
| Total |  |  |  |  |
| Total | 204 | 100.0 | 204 | 100.0 |

*These represent inside measurements.

Table B-4. Average Inside Dimensions of Multistory Tee Houses.

| Average | Average |  |
| :---: | :---: | :---: |
| Length of cross (29, 30, 31) | 25.4 | feet |
| Width of cross (32, 33, 34) | 14.9 | feet |
| Square feet in cross (35, 36, 37) | 381.9 | square feet |
| Length of stem (38, 39, 40) | 17.95 | feet |
| Width of stem (41, 42, 43) | 13.7 | feet |
| Square feet in stem ( $44,45,46$ ) | 248.8 | square feet |
| Length of living room (47, 48) | 14.9 | feet |
| Width of living room (49,50) | 12.98 | feet |
| Square feet in living room (51,52,53) | 198.9 | square feet |
| Length of dining room (54,55) | 14.6 | feet |
| Width of dining room ( 56,57 ) | 12.3 | feet |
| Square feet in dining room (58,59,60) | 186.9 | square feet |
| Length of kitchen ( 61,62 ) | 11.9 | feet |
| Width of kitchen ( 63,64 ) | 9.4 | feet |
| Square feet in kitchen (65, 66, 67) | 141.8 | square feet |
| Length of bedroom (68,69) | 13.3 | feet |
| Width of bedroom ( 70,71 ) | 10.1 | feet |
| Square feet in bedroom ( $72,73,74$ ) | 138.2 | square feet |

Table B-5. Description of the Height of the Ceilings.

| Height | $\begin{aligned} & \text { Basement } \\ & \text { No. Pct. } \end{aligned}$ |  | First Floor No. Pct. |  | Second Floor No. Pct. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 ft or less | 6 | 2.9 | 0 | ...... | 2 | 1.0 |
| $61 / 2 \mathrm{ft}$ or less | 2 | 1.0 | 0 |  | 6 | 2.9 |
| 7 ft or less | 54 | 26.5 | 3 | 1.5 | 25 | 12.3 |
| $71 / 2 \mathrm{ft}$ or less | 6 | 2.9 | 13 | 6.4 | 32 | 15.7 |
| 8 ft or less | 35 | 17.2 | 61 | 29.9 | 69 | 33.8 |
| $81 / 2 \mathrm{ft}$ or less | 0 | ...... | 46 | 22.6 | 15 | 7.4 |
| 9 ft or less | 5 | 2.5 | 53 | 26.0 | 8 | 3.9 |
| $91 / 2 \mathrm{ft}$ or less | 3 | 1.5 | 8 | 3.9 | 1 | . 5 |
| 10 ft or less | 0 |  | 3 | 1.5 | 1 | . 5 |
| No information | 24 | 11.8 | 17 | 8.3 | 44 | 21.6 |
| Not applicable | 69 | 33.8 | 00 | ...... | 1 | . 5 |
| Total | 204 | 100.0 | 204 | 100.0 | 204 | 100.0 |

Table B-6. Description of the Placement of the House on the Farmstead.

| Placement | Number | Percent |
| :--- | ---: | ---: |
| Cross of tee parallel to public road and in front | 85 | 41.7 |
| Stem of tee parallel to public road | 98 | 48.0 |
| Stem of tee perpendicular to public road and in front | 17 | 8.3 |
| Not applicable | 4 | 2.0 |
| Total | 204 | 100.0 |

Table B-7. Description of the Stairway to Basement by the Characteristics of the Risers.

| Description | $\begin{gathered} \text { Total } \\ \text { houses } \\ \text { reported } \\ \text { No. } \end{gathered}$ | Number and percentage of houses having specified features |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Steps all the same height No. Pct. |  |  | ps not the height Pct. | Not applicable |  | $\begin{aligned} & \text { No } \\ & \text { infor- } \\ & \text { mation } \end{aligned}$ |  |
| Stairway outside the house | 37 |  |  | .... | .... | 1 | 2.7 | 36 | 97.3 |
| Have landing | 3 | 3 | 100 | . | .... | .... | .... | .... | ...... |
| Wind | 4 | 3 | 75 | 1 | 25 | .... | .... | .... | ...... |
| Straight (down) | 66 | 49 | 74.2 | 7 | 10.6 |  | ... | 10 | 15.2 |
| No basement | 69 | . | ..... |  |  | 69 | 100. |  |  |
| No information | 26 | 1 | 3.8 | 1 | 3.8 |  | . | 24 | 92.3 |
| Total | 204 | 56 | 27.5 | 9 | 4.4 | 69 | 33.8 | 70 | 34.3 |

Table B-8. Headroom Dimensions of the Stairway to Basement.

| Headroom | Number and percentage of <br> stairways with specified <br> dimensions |  |  |
| :---: | :---: | :---: | :---: |
|  | Inches | Number | Percent |
| 5 | 0 | 3 | 1.5 |
| 5 | 6 | 11 | 5.4 |
| 6 | 0 | 11 | 5.4 |
| 6 | 6 | 1 | .5 |
| 7 | 0 | 20 | 9.8 |
| 7 | 6 | 6 | 2.9 |
| 8 | 0 | 1 | .5 |
| Not applicable |  | 89 | 33.8 |
| No information |  | 82 | 40.2 |
| Total | 204 | 100.0 |  |

Table B-9. Width of Steps of Stairways to Basement.

| Width of <br> step <br> Inches | Number and percentage of <br> stairways with specified <br> dimensions |  |
| :--- | :---: | :---: |
|  | Number | Percent |
| $25-28$ | 3 | 1.5 |
| $29-32$ | 24 | 11.8 |
| $33-36$ | 11 | 5.4 |
| 37 or more | 11 | 5.4 |
| Not applicable | 69 | 33.8 |
| No information | 86 | 42.1 |
| Total | 204 | 100.0 |

Table B-10. Dimensions of Risers and Treads of Stairways to Basement.

Table B-11. Amount of Counter Space in the Kitchen by the Shape of the Work Center.

| Shape of work counter | Totalhousesreported |  | Number and percentage of kitchens with specified amounts of counter space Inches |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{gathered} \text { Less } \\ \text { than } 30 \end{gathered}$ |  | 81-60 |  | 61-90 |  | 91-110 |  | 111-140 |  | 141-170 |  | 171-230 |  | ${ }^{*}$ Not |  | No information |  |
|  | No. |  | No. | Pct. | No. | Pct. | No. | Pct. |  | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| U | 2 | 1.0 | $\ldots$ | $\ldots$ |  |  | $\cdots$ |  | 2 | 100.0 |  |  |  |  |  |  | $\cdots$ | $\ldots$ | $\cdots$ |  |
| L | 31 | 15.2 | ... | .... | 2 | 6.5 | 11 | 35.5 | 8 | 25.8 | 1 | 3.2 | 2 | 6.5 | 1 | 3.2 | .... | .... | 6 | 19.3 |
| Broken U | 17 | 8.3 |  |  | 5 | 29.4 | 4 | 23.5 | 2 | 11.8 | 2 | 11.8 | 2 | 11.8 | 1 | 5.9 | .... | $\ldots$ | 1 | 5.9 |
| Two wall | 14 | 6.9 | 2 | 14.3 | 4 | 28.6 |  |  | 5 | 35.7 | $\ldots$ | $\ldots$ | .... | .... | .... | .... | .... | .... | 3 | 21.4 |
| Single wall | 13 | 6.4 |  |  | 5 | 38.5 |  | 38.5 |  |  |  |  |  |  |  | $\ldots$ |  |  | 3 | 23.0 |
| No arrangement | 121 | 59.3 | 12 | 9.9 | 43 | 35.5 | 26 | 21.5 | 9 | 7.4 | 8 | 6.6 | 2 | 1.7 | 1 | . 8 | 1 | . 8 | 19 | 15.7 |
| No information | 6 | 2.9 | .... | .... | .... | .... | .... | .... | 2 | 33.3 | 3 | 50.0 | .... | .... | ... | .... | $\ldots$ | .... | 1 | 16.7 |
| Total | 204 | 100.0 | 14 | 6.9 | 59 | 28.9 | 46 | 22.5 | 28 | 13.7 | 14 | 6.9 | 6 | 2.9 | 3 | 1.5 | 1 | . 5 | 33 | 16.2 |

[^22]Table B-12. Amount of Storage Space for Foodstuffs in the Kitchen by the Shape of the Work Center.

| Shape of work center | Total houses reported No. Pct. |  | Number and percentage of kitchens with specified amounts of storage space Inches |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{aligned} & \text { ss than } \\ & 20 \\ & \quad \quad \text { Pct. } \end{aligned}$ | a No. | ${ }^{60}$ Pct. |  | 61-90 o. Pct. |  | 110 Pct. |  | - 140 Pct |  | $1-170$ Pct. | 17 <br> No. | -230 |  |  |  |  |  | ore an 91 Pct | Do ap No. |  |  | nfor- <br> tion Pct. |
| 1) | 2 | 1.0 |  |  |  |  | 1 | 50.0 | 1 | 50.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| L | 31 | 15.2 |  |  | 5 | 16.1 | 5 | 16.1 | 2 | 6.5 | 4 | 12.9 | 5 | 16.1 | 5 | 16.1 | I | 3.2 | .. | .... | .. |  | .. | .... |  |  |
| Broken U | 17 | 8.3 | 2 | 11.8 | 1 | 5.9 |  | 11.8 | ... |  | 1 | 5.9 |  |  | 5 | 29.4 | 3 | 17.6 | .. | $\ldots$ | .. | $\ldots$ | .. | .... |  |  |
| Two wall | 14 | 6.9 | . | .... | 6 | 42.9 |  |  |  |  | 1 | 7.1 | 1 | 7.1 |  |  | 1 | 7.1 |  | $\ldots$ | . | $\ldots$ | .. | ... |  | 35.7 |
| Single wall | 13 | 6.4 |  |  | 1 | 7.7 |  | 15.4 |  | 23.0 | 1 | 7.7 |  |  | 3 | 23.0 |  |  | 1 | 7.7 | $\cdots$ |  | .. | ... |  |  |
| No arrangement | 121 | 59.3 | 14 | 11.6 | 13 | 10.7 | 23 | 19.0 | 11 | 9.1 |  | 12.4 | 9 | 7.4 | 7 | 5.8 | 3 | 2.5 | 3 | 2.5 | 4 | 3.3 | 2 | 1.7 |  | 14.0 |
| No information | 6 | 2.9 |  |  | .... | .... | .. |  | 1 | 16.7 |  | 16.7 |  | 33.3 | 1 | 16.7 | 1 | 16.7 |  |  | .. |  | .. |  |  |  |
| Total | 204100.0 |  | 16 | 7.8 | $26 \quad 12.733$ |  |  | 16.2 | 18 | 8.8 | 2311.3 |  | 17 | 8.321 |  | 10.3 | 9 | 4.4 |  |  | 4 | 2.0 | 2 | 1.0 | 31159 |  |
| * Pantry storage only. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Shape of work center | $\begin{gathered} \text { Total } \\ \text { houses } \\ \text { reported } \\ \text { No. Pct. } \end{gathered}$ |  | Number and percentage of kitchens with specified amounts of storage space Inches |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{aligned} & \text { Less } \\ & \text { an } 30 \\ & . \quad \text { Pct. } \end{aligned}$ |  | $\begin{gathered} 1-60 \\ \text { Pct. } \end{gathered}$ |  | $\begin{gathered} 1-90 \\ \quad \text { Pct. } \\ \hline \end{gathered}$ |  | ${ }_{\text {Pct. }}^{10}$ |  | $\begin{aligned} & 11-140 \\ & \text { o. Pct. } \end{aligned}$ |  | $\begin{gathered} -170 \\ \text { Pct. } \end{gathered}$ |  |  | $\begin{gathered} -230 \\ \text { Pct. } \end{gathered}$ | * Do ap No. | $\begin{gathered} \text { not } \\ \text { Ply } \\ \text { Pct. } \end{gathered}$ |  | nfor- <br> tion <br> Pct. |
| U | 2 | 1.0 | .... | .... |  |  | ... |  | 1 | 50.0 |  |  |  |  |  |  |  |  |  | 1 | 50.0 |
| L | 31 | 15.2 | .... |  | 5 | 16.1 | 14 | 45.1 | 3 | 9.7 | 1 | 3.2 | 2 | 6.5 | 3 |  | 9.7 | . |  | 3 | 50.7 |
| Broken U | 17 | 8.3 | 2 | 11.8 | 4 | 23.5 |  | 29.4 | 1 | 5.9 | 1 | 5.9 | 1 | 5.9 | 1 |  | 5.9 | .. | .... | 2 | 11.8 |
| I'wo wall | 14 | 6.9 | 3 | 21.4 | 4 | 28.6 |  | 14.3 | 1 | 7.1 |  |  |  |  |  |  | .... |  |  | 4 | 28.6 |
| Single wall | 13 | 6.4 | 1 | 7.7 | 3 | 23.0 |  | 23.0 | 1 | 7.7 | 2 | 15.4 | 1 | 7.7 |  |  | .... |  |  | 2 | 15.4 |
| No arrangement | 121 | 59.3 | 15 | 12.4 | 38 | 31.4 |  | 15.7 | 17 | 14.0 | 6 | 5.0 | 6 | 5.0 | 5 |  | 4.1 | 1 | . 8 | 14 | 11.6 |
| No information | 6 | 2.9 | .... |  | .... |  |  | 50.0 | .... |  | 2 | 33.3 | .. |  | 1 |  | 16.7 | . |  |  |  |
| Total | 204 | 100.0 | 21 | 10.3 | 54 | 26.5 |  | 22.5 | 24 | 11.8 | 12 | 5.9 | 10 | 4.9 | 10 |  | 4.9 | I | . 5 | 26 | 12.7 |

Table B-14. Amount of Storage Space for Utensils in The Kitchen by the Shape of the Work Center.

For the sake of consistency for these 6 tables-using 14.3 instead of $14.2(8)$
In this case it causes total of 100.1 -but needed in other tables.
Table B-15. Amount of Storage Space for Dishes in the Kitchen by the Shape of the Work Center.

| Shape of work center | $\begin{gathered} \text { Total } \\ \text { houses } \\ \text { reported } \\ \text { No. Pct. Pt. } \\ \hline \end{gathered}$ |  | Number and percentage of kitchens with specified amounts of dish storage space Inches |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{aligned} & \text { Less than } \\ & \text { No. }{ }^{30} \text { Pct. } \end{aligned}$ |  | $\begin{array}{r} 31-60 \\ \text { No. Pct. } \\ \hline \end{array}$ |  | $\begin{array}{r} 61-90 \\ \text { No. }{ }^{2} \text { Pct. } \\ \hline \end{array}$ |  | 91-110 |  | $\begin{gathered} 111.140 \\ \text { No. } \quad \text { Pct. } \\ \hline \end{gathered}$ |  | $\begin{array}{r} \text { 141-170 } \\ \text { No. Pct. } \\ \hline \end{array}$ |  | $\begin{array}{r} 171-230 \\ \text { No. Pct. } \\ \hline \end{array}$ |  | $\begin{aligned} & 231-260 \\ & \text { No. Pct. } \end{aligned}$ |  | $\begin{array}{r} 261-290 \\ \text { No. } \quad \text { Pct. } \\ \hline \end{array}$ |  | More than 291 <br> No. Pct. |  | $\begin{gathered} \text { Not } \\ \text { apply } \\ \text { vo. Pct. } \end{gathered}$ |  | No information No. Pct. |  |
| U | 2 | 1.0 | .. |  | 1 | 50.0 |  |  |  |  |  |  |  |  |  |  | .. | .... |  | 50.0 |  |  |  |  |  |  |
| L | 31 | 15.2 | - |  | 3 | 9.7 | 6 | 19.3 | 3 | 9.7 |  | 22.6 | 6 | 19.3 | 3 | 9.7 | .. | .... | .. |  | 1 | 3.2 | .. |  | 2 |  |
| Broken U | 17 | 8.3 | 1 | 5.9 | 5 | 29.4 | 3 | 17.6 |  |  |  | 11.8 |  |  | 4 | 23.5 | .. |  |  |  |  |  |  |  |  | 11.8 |
| Two wall | 14 | 6.9 | 1 | 7.1 | 3 | 21.4 | 1 | 7.1 | 1 | 7.1 | .... | ...... | 3 | 21.4 | 1 | 7.1 |  |  | . |  |  |  |  |  |  | 28.6 |
| Single wall | 13 | 6.4 |  |  | 1 | 7.7 | 2 | 15.4 | 2 | 15.4 |  |  | 1 | 7.7 | 4 | 30.7 | 1 | 7.7 |  |  | 1 | 7.7 |  |  | 1 | 7.7 |
| No arrangement | 121 | 59.3 | 7 | 5.8 | 21 | 17.4 | 28 | 23.1 | 11 | 9.1 | 11 | 9.1 | 11 | 9.1 | 14 | 11.6 | 2 | 1.7 | 1 | . 8 | , | . 8 | 1 | . 8 |  | 10.7 |
| No information | 6 | 2.9 | . |  | .. |  | 2 | 33.3 | I | 16.7 | 1 | 16.7 | .. |  | 2 | 33.3 | .. |  |  |  |  |  |  |  |  |  |
| Total | 204 | 100.0 | 9 | 4.4 | 34 | 16.7 | 42 | 20.5 | 18 | 8.8 | 21 | 10.3 | 21 | 10.3 | 28 | 13.7 | 3 | 1.5 | 2 | 1.0 | 3 | 1.5 | 1 | . 5 | 22 | 10.8 |

${ }^{*}$ Totals $99.8-$ For sake of consistency-using same percent for certain numbers titroughout the tables.
Table B-16. Amount of Storage Space for Linens in the Kitchen by the Shape of the Work Center.

| Shape of work center | Total houses reported No. Pct. | Number and percentage of kitchens with specified amounts of storage space Inches |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Less than } \\ & { }^{15} \text { No. }{ }^{\text {Pct. }} \end{aligned}$ |  | 16-30 |  | $31-45$ |  | 46-60 |  | $61-75$ $76-90$ |  |  |  | 91-105 |  | $\left\|\begin{array}{c} \text { More than } \\ 135 \end{array}\right\|$ |  | ${ }^{*}$ Does not apply |  |  | $\begin{aligned} & \text { No infor- } \\ & \text { mation } \\ & \text { No. Pct. } \end{aligned}$ |  |
| U | 21.0 |  |  | $\ldots$ | $\ldots$ | ... | ..... | 2 | 100.0 | .. |  | . | ... | . | . | . | .... | .. |  |  | $\ldots$ |  |
| L | $31 \quad 15.2$ | 3 | 9.7 | 14 | 45.1 | 4 | 12.9 | 2 | 6.5 | 1 | 3.2 | 1 | 3.2 | . | . | . | .... | .. | .. |  | 6 | 19.3 |
| Broken U | $17 \quad 8.3$ | 3 | 17.6 | 6 | 35.3 | 2 | 11.8 | 1 | 5.9 | .. |  | -• |  | .. | .. | 1 | 5.9 | .. | . |  | 4 | 23.5 |
| Two wall | $14 \quad 6.9$ | 4 | 28.6 | 3 | 21.4 | 2 | 14.3 |  |  | * | .... | 1 | 7.1 | . | .. | .. | .... | .. | .. |  | 4 | 28.6 |
| Single wall | $13 \quad 6.4$ | 3 | 23.1 | 5 | 38.5 | 2 | 15.4 | 1 | 7.7 |  |  | .. | .... | .. | .. | .. | .... | .. | .. |  | 2 | 15.4 |
| No arrangement | 12159.3 | 30 | 24.8 | 33 | 27.3 | 14 | 11.6 | 9 | 7.4 | 6 | 5.0 | $\S$ | 2.5 | 1 | . 8 | .. | . | 1 | . 8 |  | 24 | 19.8 |
| No information | $6 \quad 2.9$ | .... | ... | 3 | 50.0 | 1 | 16.7 | .. |  |  | 16.7 | .. | .... | .. | .. | .. | .... | .. | .. |  | 1 | 16.7 |
| Total | 204100.0 | 43 | 21.1 | 64 | 31.3 | 25 | 12.3 | 15 | 7.3 | 8 | 3.9 | 5 | 2.5 | 1 | . 5 | 1 | . 5 | 1 | . 5 |  | 41 | 20.1 |

Table B-17. Number of Rooms Used for Living by Number of Persons in Household

| Number in household | TotalhouseholdsreportedNo. Pct. |  | Number and percentage of fam lies using spec'fied number of rooms |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No. | Pct. | No. | ${ }^{3}$ Pct. | No. | ${ }^{4}$ Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | ${ }^{10} \text { Pct. }$ |
| 1 | 4 | 2.0 | - | .... | . | ...... | . | ...... | 2 | 50.0 | 1 | 25.0 | 1 | 25.0 | . | .... | .. | $\ldots$ | . | $\ldots$ |
| 2 | 50 | 24.5 | 1 | 2.0 | 5 | 10.0 | 3 | 6.0 | 15 | 30.0 | 9 | 18.0 | 13 | 26.0 | 3 | 6.0 | 1 | 2.0 | .. | .... |
| 3 | 42 | 20.6 | .. | .... | 2 | 4.8 | 5 | 11.9 | 10 | 23.8 | 17 | 40.5 | 7 | 16.7 | 1 | 2.4 | . | .... | .. | $\ldots$ |
| 4 | 53 | 26.0 | .. | .... | 3 | 5.7 | 3 | 5.7 | 14 | 26.4 | 16 | 30.2 | 8 | 15.1 | 7 | 13.2 | 2 | 3.7 | .. | .... |
| 5 | 32 | 15.6 | .. | .... | - | ...... | 4 | 12.5 | 8 | 25.0 | 11 | 34.4 | 6 | 18.8 | .. | $\ldots .$. | 1 | 3.1 | 2 | 6.2 |
| 6 | 6 | 2.9 | .. | .... | 1 | 16.7 | . | ...... | 1 | 16.7 | 2 | 33.3 | I | 16.7 | 1 | 16.7 | . | .... | .. | .... |
| 7 | 11 | 5.4 | .. | $\ldots$ | .. | ...... | .. | ...... | 3 | 27.3 | 4 | 36.3 | 3 | 27.3 | 1 | 9.1 | . | .... | .. | .... |
| 8 | 2 | 1.0 | .. | .... | .. | ...... | .. | ...... | 1 | 50.0 | 1 | 50.0 |  |  |  |  | .. | .... | . | .... |
| 9 | 4 | 2.0 | .. | . | $\cdots$ | ...... | . | ...... | 1 | 25.0 | 1 | 25.0 | 1 | 25.0 | 1 | 25.0 | . | .... | .. | .... |
| Total | 204 | 100.0 | 1 | . 5 | 11 | 5.4 | 15 | 7.3 | 55 | 26.9 | 62 | 30.4 | 40 | 19.6 | 14 | 6.9 | 4 | 2.0 | 2 | 1.0 |

Table B-18. Space for Sleeping and Dressing by Number of Persons in Household.

| Number of square feet | $\begin{gathered} \text { Total } \\ \text { families } \\ \text { reported } \end{gathered}$ |  | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No. | ${ }^{1} \text { Pct. }$ | No. | ${ }^{2} \text { Pct. }$ | No. | Pct. | No. | ${ }^{4} \text { Pct. }$ | No. | ${ }^{5} \text { Pct. }$ | No. | ${ }^{6} \text { Pct. }$ | No. | ${ }^{7} \text { Pct. }$ | No. | Pct. | No. | Pct. |
| Less than 74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 74-147 |  |  | * | $\ldots$ |  |  | $\ldots$ | $\ldots$ | $\ldots$ | ...... | .... | ...... | $\ldots$ | ...... | .... | ...... | .... | .... | $\ldots$ |  |
| 148-221 | 1 | . 5 | . | .... | 1 | *100.0 | ... | ...... | ... | $\ldots$ |  |  | .... | $\ldots$ | .... | ...... | .... | .... | .... |  |
| 222-297 | 2 | 1.0 | .. | .... | 1 | 50.0 | .... | * | .... |  | 1 | 50.0 |  |  |  |  |  |  | .... | .... |
| 298-369 | 13 | 6.4 |  |  | $\ldots$ |  | 5 | 38.4 | * | 15.4 | 2 | 15.4 | 2 | 15.4 | 1 | 7.7 | 1 | 7.7 | .... | .... |
| 370-443 | 20 | 9.8 | 1 | 5.0 | 3 | 15.0 | 5 | 25.0 | 7 | 35.0 | * 4 | 20.0 |  |  | .... | ... | $\ldots$ | $\cdots$ | .... | . |
| 444-517 | 25 | 12.2 | . |  | 9 | 36.0 | 6 | 24.0 | 6 | 24.0 | 3 | 12.0 | *1 | 4.0 |  |  | .... | .... |  |  |
| 518-591 | 32 | 15.7 | 1 | 3.1 | 10 | 31.3 | 5 | 15.6 | 10 | 31.3 | 3 | 9.4 | 1 | 3.1 | *1 | 3.1 | $\ldots$ |  | 1 | 3.1 |
| 592-665 | 33 | 16.2 | 2 | 6.1 | 5 | 15.1 | 6 | 18.2 | 7 | 21.2 | 7 | 21.2 | 2 | 6.1 | 3 | 9.1 | *1 | 3.0 |  |  |
| 666-739 | 30 | 14.7 | . | .... | 11 | 36.7 | 5 | 16.7 | 9 | 30.0 | 3 | 10.0 | .... | .... | 1 | 3.3 | .... | .... | *1 | 3.3 |
| 740 or more | 48 | 23.5 | . | .... | 10 | 20.8 | 10 | 20.8 | 12 | 25.0 | 9 | 18.8 | .... | ...... | 5 | 10.4 | .... |  | 2 | 4.2 |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |

Table B-19. Storage in Sleeping and Dressing Area by Number of Persons in Household.

| Number of square feet | $\begin{gathered} \text { Total } \\ \text { families } \\ \text { reported } \\ \text { No. } \end{gathered}$ | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} 1 \\ \text { No. Pct. } \\ \hline \end{gathered}$ |  | $\begin{gathered} 2 \\ \text { No. Pct. } \end{gathered}$ |  | $\begin{gathered} 3 \\ \text { No. Pct. } \end{gathered}$ |  | $\begin{gathered} \stackrel{4}{2} \\ \text { No. Pct. } \\ \hline \end{gathered}$ |  | No. Pct. |  | $\begin{gathered} 6 \\ \text { No. Pct. } \\ \hline \end{gathered}$ |  | $\begin{gathered} 7 \\ \text { No. Pct. } \\ \hline \end{gathered}$ |  | $\begin{gathered} 8 \\ \text { No. Pct. } \\ \hline \end{gathered}$ |  |  | $\begin{gathered} 9 \\ \text { No. Pct. } \end{gathered}$ |  |
| Less than 12 | 9 | 1 | 11.1 | 2 | 22.2 | 1 | 11.1 | $\ldots$ |  | 2 | 22.2 | .... |  | 3 | 33.3 |  |  |  |  | .... |
| 12-23 | 27 | 1 | *3.7 | 9 | 33.3 | 4 | 14.8 | 8 | 29.6 | 4 | 14.8 | .... |  |  |  | 1 |  | 3.7 |  | .... |
| 24-35 | 36 | -30.5 | , | 11 | * 30.6 | 7 | 19.4 | 10 | 27.8 | 6 | 16.7 |  |  | 2 | 5.5 |  | 25.0 | .... |  |  |
| 36-47 | 32 |  |  | 5 | 15.6 | 11 | *34.4 | 8 | 25.0 | 4 | 12.5 | 3 | 9.4 | -47.3 |  | . |  | .... | 1 | 3.1 |
| 48-59 | 32 | 2 | 6.2 | 6-49.5 | 18.8 | 2-52.4 | 6.2 | *10-49.2 | 31.3 | 9-48.2 | 28.1 | 1-55.7 | 3.1 | 2 | 6.2 |  |  | ... |  |  |
| 60-71 | 21 | .. | ...... | 2 | 9.5 | 5 | 23.8 | 7 | 33.3 | *2 | 9.5 | 1 | 4.8 | 1 | 4.8 | 1 |  | 4.8 | 2 | 9.5 |
| 72.83 | 13 | . | ...... | 4 | 30.8 | 4 | 30.8 | 4 | 30.8 |  |  | * | .... | 1 | 7.6 | .. |  | .... |  | .... |
| 84-95 | 13 | .. |  | 5 | 38.5 | 5 | 38.5 | 2 | 15.4 | 1 | 7.6 |  |  |  |  |  |  |  |  |  |
| 96-107 | 21 | .. | ...... | 6 | 28.6 | 3 | 14.3 | 4 | 19.0 | 4 | 19.0 | 1 | 4.8 | 2 | 9.5 | * |  | .... | 1 | 4.8 |
| 108-119 | .... | .. | ... | .. | ..... | .. | .... | $\ldots$ | ..... | .. | ...... | .. | .... |  | ..... | .. |  | $\ldots$ |  | .... |
| 120 or more | - .... | . | ...... | . | ...... | .. | ..... | $\cdots$ | ...... | . | ...... | . | .... |  | ..... | .. |  | .... |  |  |
| Total | 204 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 1 | 5.4 | 2 |  | 1.0 | 4 | 2.0 |

[^23]Table B-20. Space for Personal Cleanliness and Sanitation by Number of Persons in the Household.

| Number of square feet | Total families reported Number | Number and percentage of persons in houses with specified space available |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number | Percent | $\begin{array}{r} 5 \text { an } \\ \text { Number } \end{array}$ | re Percent |
| Less than 35 | 9 | 9 | 100.0 |  |  |
| 35-69 | 74 | 51 | * 68.9 | 23 | 31.1 |
| 70 or more | 16 | 11 | 68.7 | 5 | *31.3 |
| Not applicable | 101 | 75 | 74.3 | 26 | 25.7 |
| No information | 4 | 3 | 75.0 | 1 | 25.0 |
| Total | 204 | 149 | 73.0 | 55 | 27.0 |

* Recommended space.
Table B-21. Space for Food Preparation and Preservation by Number of Persons in the Household.

| Number of square feet | Totalfamiliesreportedvo |  | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No. | ${ }^{1} \text { Pct. }$ | No. | ${ }^{2} \text { Pct. }$ | No. | Pct. | No. | ${ }^{4}$ Pct. |  | ${ }^{5}$ Pct. | No. | Pct. | No. | ${ }^{7}$ Pct. | No. | Pct. | No. | Pct. |
| No separate space | 95 | 46.6 | 2 | 2.1 | 20 | 21.1 | 23 | 24.2 | 23 | 24.2 | 17 | 17.9 | 4 | 4.2 | 5 | 5.3 | . | $\ldots$ | 1 | 1.0 |
| Less than 8 |  | ...... | .. | .... | $\ldots$ | ....... | .... | ...... | .... | ...... | .... | ...... | . | .... | . | .... | * | $\ldots$ | . | .... |
| $8 \cdot 75$ | 1 | . 5 | .. | * .... | 1 | 100.0 | .... | $\ldots$ | $\ldots$ | ..... | .... | ...... | . | .... | $\stackrel{ }{*}$ | .... | . | $\ldots$ | . | .... |
| 76.96 | 3 | 1.5 | .. | .... | 3 | *100.0 | .... | ...... | .... |  | $\ldots$ |  | . | .... | .. | .... | .. | $\ldots$ | .. |  |
| 97-117 | 15 | 7.3 | .. | .... | 4 | 26.6 | 1 | *6.7 | 5 | * 40.0 | 2 | 13.3 | 1 | 6.7 | 1 | 6.7 |  |  | .. |  |
| 118-136 | 13 | 6.4 | .. | .... | 4 | 30.7 | 2 | 15.4 | 3 | 23.1 | 3 | *23.1 | .. | * | - | .... | 1 | 7.7 | . |  |
| 137-155 | 17 | 8.3 |  |  | 3 | 17.6 | 6 | 35.3 | 6 | 35.3 | 1 | 5.9 |  |  | 1 | *5.9 | .. | * |  |  |
| lis or more | 56 | 27.4 | 2 | 3.6 | 14 | 25.0 | 9 | 16.1 | 14 | 25.0 | 9 | 16.1 | 1 | 1.8 | 4 | 7.1 |  |  | 3 | *5.3 |
| No information | 4 | 2.0 | .. | .... | 1 | 25.0 | 1 | 25.0 | 1 | 25.0 | .... | ...... | .. | .... | .. | .... | 1 | 25.0 | .. |  |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |

Table B-22. Storage in Food Preparation and Preservation Area by Number of Persons in the Household.

| Number of square feet | Totalfamiliesreported |  | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No. | ${ }^{1}$ Pct. | No. | ${ }^{2} \text { Pct. }$ | No. | ${ }^{3} \text { Pct. }$ | No. | ${ }^{4} \text { Pct. }$ | No. | Pct. | No. | ${ }^{6}$ Pct. | No. | Pct. | No. | 8 Pct. | No. | Pct. |
| No separate space | 95 | 46.6 | 2 | 2.1 | 20 | 21.1 | 23 | 24.2 | 23 | 24.2 | 17 | 17.9 | 4 | 4.2 | 5 | 5.3 | . | .... | 1 | 1.0 |
| Less than 4 |  |  | , |  |  |  |  |  |  |  |  |  | . | .... |  |  |  |  | $\ddot{9}$ |  |
| 4.24 | 71 | 34.8 | 2 | *2.8 | 16 | 22.5 | 15 | 21.1 | 17 | 23.9 | 13 | 18.3 | . | .... | 4 | 5.6 | 1 | 1.4 | 3 | 4.2 |
| 24-33 | 21 | 10.3 | .. | .... | 9 | *42.9 | 2 | 9.5 | 6 | 28.5 | 1 | 4.8 | 1 | 4.8 | 2 | 9.5 | . | .... | . | .... |
| 34-41 | 8 | 3.9 | .. | .... | 3 | 37.5 | 1 | * 12.5 | 4 | *50.0 | .... | ...... | . |  | .. | .... | .. | .... | . |  |
| 42-49 | 1 | . 5 | .. | .... | .... | ...... | .... | ...... | .... | ... | . |  | * | * | . | $\ldots$ | . | $\ldots$ | . | ... |
| 50-57 |  |  | . | $\ldots$ | .... | ...... | $\cdots$ | ...... | , |  | 1 | 00.0 | .. | .... | .. | * | . | * |  |  |
| 58 or more | 1 | . 5 | .. | .... |  |  |  |  | 1 | 100.0 | $\ldots$ | ...... |  |  | . | $\cdots$ |  |  |  |  |
| No information | 7 | 3.4 | .. | .... | 2 | 28.6 | 1 | 14.3 | 2 | 28.6 | .... | ...... | 1 | 14.3 | .. | .... | 1 | 14.3 | . |  |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |

[^24]Table B-23. Space for Scrving Food and Dining by Number of Persons in the Household.

| Number square feet | Totalfamiliesreported |  | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No. | ${ }^{1}$ Pct. | No. | Pct. | No. | Pct. | No. | ${ }^{4}$ Pct. | No. | ${ }^{5}$ Pct. | No. | ${ }^{6}$ Pct. |  | ${ }^{7} \text { Pct. }$ | No. | ${ }^{8}$ Pct. | No. | Pct. |
| No separate space | 95 | 46.6 | 2 | 2.1 | 20 | 21.1 | 23 | 34.2 | 23 | 24.2 | 17 | 17.9 | 4 | 4.2 | 5 | 5.3 | .. | ...... | 1 | 1.0 |
| 53-69 | 1 | . 5 | .. | - .... | .... | ... | .... | ...... | .... | ...... | 1 | 100.0 | .. | ...... | .. | ...... | .. | ...... |  | .... |
| 70-90 | 1 | . 5 | .. | .... | .... |  | .... | ...... | .... | ... | 1 | 100.0 | .. |  |  |  |  | ..... |  |  |
| 91-104 |  |  |  | ..... | .... | ...... | .... | ...... | .... | $\ldots$ |  |  | .. | ...... | $\cdots$ | ...... | $\cdots$ | .... | * | $\cdots$ |
| 105-118 | 2 | 1.0 | 1 | 50.0 | ... |  | .... | ..... | 1 | *50.0 | .... | $\ldots$ |  |  | .. | $\ldots$ |  | ..... |  |  |
| 119-145 | 7 | 3.4 | .. | ... | 1 | 14.3 | .... | ..... | 4 | 57.1 |  | * | 1 | 14.3 |  |  | 1 | 14.3 |  |  |
| 146-159 | 6 | 2.9 | .. | ...... | 1 | 16.7 | $\ldots$ | ..... | 3 | 50.0 | 1 | 16.7 | .. | ..... |  | 16.7 | .. | ..... |  |  |
| 160-173 | 13 | 6.4 | .. | ... | 4 | 30.8 | 4 | 30.8 | 2 | 15.4 | 2 | 15.4 | .. | ...... | * | .... | .. |  | 1 | 7.6 |
| 174-193 | 15 | 7.3 |  |  | 5 | 33.3 | 5 | 33.3 | 3 | 20.0 | 2 | 13.3 | .. | ...... |  | ...... | .. |  |  |  |
| 194-207 | 10 | 4.9 | 1 | 10.0 | 4 | 40.0 | 1 | 10.0 | 1 | 10.0 | 2 | 20.0 |  | ... | 1 | 10.0 | .. |  |  |  |
| 208 or more | 50 | 24.5 | .. |  | 14 | 28.0 | 8 | 16.0 | 15 | 30.0 | 6 | 12.0 | 1 | 2.0 |  | 8.0 |  |  | 2 | 4.0 |
| No information | 4 | 2.0 | .. | ...... | 1 | 25.0 | 1 | ?5.0 | 1 | 25.0 | .... | ...... | .. | ...... | .. | ...... | 1 | 25.0 | .. |  |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 30.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |

## Table B-24. Storage in Serving Food and Dining Area by Number of Persons in the Household.

| Number of square feet | Totalfamiliesreported |  | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No. | Pct. | No. | ${ }^{2}$ Pct. | No. | ${ }^{3} \text { Pct. }$ | No. | ${ }^{4}$ Pct. | No. | ${ }^{5}$ Pct. | No. | Pct. | No. | Pct. | No. | 8 Pct. | No. | ${ }^{\text {Pct. }}$ |
| No separate space | 95 | 46.6 | 2 | 2.1 | 20 | 21.1 | 23 | 24.2 | 23 | 24.2 | 17 | 17.9 | 4 | 4.2 | 5 | 5.3 | . |  | 1 | 1.0 |
| Less than 6 | 33 | 16.1 | 1 | 3.0 | 10 | 30.3 | 5 | 15.2 | 6 | 18.2 | 7 | 21.2 | 1 | 3.0 | 1 | 3.0 | .. | ...... | 2 | 6.1 |
| 6-12 | 43 | 21.1 | 1 | 2.3 | 10 | *23.3 | 7 | 16.3 | 16 | 37.2 | 5 | 11.6 | 1 | 2.3 | 3 | 7.0 | .. |  |  |  |
| 13-14 | 7 | 3.4 | .. | .... | 2 | 28.5 | 1 | *14.3 | 1 | *14.3 | 1 | 14.3 | .. | .... | 1 | 14.3 | .. | ...... | 1 | 14.3 |
| 15-16 | 6 | 2.9 | .. | ... | 1 | 16.7 | 1 | 16.7 | 2 | 33.3 | 2 | *33.3 | .. |  | .. | .... | .. |  | .. | .... |
| 17-18 | 3 | 1.5 | .. | .... | 1 | 33.3 | 1 | 33.3 | 1 | 33.3 | .... | $\ldots$ | .. | .... |  |  |  |  |  |  |
| 18 or more | 13 | 6.4 | .. | .... | 5 | 38.4 | 3 | 23.1 | 3 | 23.1 | $\ldots$ | ...... | .. | .... | 1 | 7.7 | 1 | 7.7 |  |  |
| No information | 4 | 2.0 | .. | .... | 1 | 25.0 | 1 | 25.0 | 1 | 25.0 | .... | ...... | .. | .... | .. |  | 1 | 25.0 | . |  |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |

[^25]Table B-25. Space for Food Preparation, Preservation, Serving and Dining by Number of Persons in the Household.

| Number of square feet | Totalfamiliesreported |  | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No. | ${ }^{1}$ Pct. | No. | Pct. | No. | ${ }^{3}$ Pct. | No. | ${ }^{4}$ Pct. | No. | ${ }^{5}$ Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| $61-145$ | 7 | 3.4 | . | .... | 2 | 28.5 | 1 | 14.3 | 2 | 28.5 | 1 | 14.3 | 1 | 14.3 | . | ..... |  |  |  |  |
| 146-187 | 21 | 10.3 | .. | .... | 5 | 23.8 | 3 | 14.3 | 7 | 33.3 | 3 | 14.3 | 1 | 4.8 | .. |  | 1 | 4.8 | 1 | 4.8 |
| 188-212 | 23 | 11.3 | .. | .... | 5 | 21.7 | 7 | 30.4 | 6 | 26.1 | 2 | 8.7 |  | ..... | 3 | 13.0 | .. | .... | . | .... |
| 213-236 | 19 | 9.3 | . | .... | 4 | 21.1 | 5 | 26.3 | 4 | 21.1 | 5 | 26.3 | 1 | 5.2 |  |  |  |  | .. | $\ldots$ |
| 237-281 | 30 | 14.7 | 2 | 6.7 | 9 | 30.0 | 5 | 16.7 | 5 | 16.7 | 5 | 16.7 | 2 | 6.7 | 1 | 3.3 | 1 | 3.3 | . | .... |
| 282-295 | 9 | 4.4 |  |  | 1 | 11.1 | 3 | 33.3 | 4 | 44.4 | 1 | 11.1 | .. | ...... |  |  | . | .... | . | $\ldots$ |
| 296-328 | 22 | 10.8 | 1 | 4.5 | 5 | 22.7 | 5 | 22.7 | 5 | 22.7 | 5 | 22.7 | . | .... | 1 | 4.5 | . | .... |  |  |
| 329-348 | 11 | 5.4 |  |  | 1 | 9.1 | 2 | 18.2 | 5 | 45.4 |  |  | .. | $\ldots$ | 2 | 18.2 | .. | $\ldots$ | 1 | 9.1 |
| 349-381 | 28 | 13.7 | 1 | 3.6 | 10 | 35.7 | 3 | 10.7 | 7 | 25.0 | 6 | 21.4 |  |  | 1 | 3.6 |  | $\ldots$ |  |  |
| 382 or more | 34 | 16.7 | .. | .... | 8 | 23.5 | 8 | 23.5 | 8 | 23.5 | 4 | 11.8 | 1 | 2.9 | 3 | 8.8 | .. |  | 2 | 5.9 |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |

Table B-26. Storage in Food Preparation, Preservation, Serving and Dining Areas by Number of Persons in the Household

| Number of square feet | Totalfamilies <br> reportedres |  | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | 2 |  | 3 Pct |  | 4 |  | 5 |  |  |  |  |  |  |  | ${ }^{9} \mathrm{Pct}$ |
|  | No. | Pct. | No. | Pct | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| Less than 10 | 25 | 12.2 | 1 | 4.0 | 6 | 24.0 | 5 | 20.0 | 5 | 20.0 | 4 | 16.0 | 1 | 4.0 | 1 | 4.0 | 1 | 4.0 | 1 | 4.0 |
| 10-35 | 147 | ..... | $3 *$ | 2.0 | 34 | 23.1 | 33 | 22.4 | 35 | 23.8 | 27 | 18.4 | 5 | 3.4 | 7 | 4.8 |  | .... | 3 | 2.0 |
| 36-45 | 25 |  | .. | .... | 9 | *36.0 | 2 | 8.0 | 10 | 40.0 | .... | ...... | .. | .... | 3 | 12.0 | 1 | 4.0 | .. | .... |
| 46-55 | 2 | 1.0 | .. | .... | .... | ...... | 1 | *50.0 | 1 | *50.0 | .... |  | . | .... | . | .... | . | .... | . | $\ldots$ |
| 56-65 | 3 | 1.5 | .. | .... | .... | ...... | 1 | 33.3 | 1 | 33.3 | 1 | *33.3 | .. | .... | .. | ...... | .. | .... | . | .... |
| 66-75 | 1 | . 5 | .. | .... | 1 | 100.0 | .... | ...... |  |  | .... | ...... | . | .... | - | ...... | . | .... | . |  |
| 76 or more | 1 | . 5 | . | .... | $\ldots$ | ...... | .... | ...... | 1 | 100.0 | .... | ...... | . | .... | . | ...... | . | .... | . | * ... |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |

[^26]Table B-27. Space for Recreation, Self-Improvement, and Extr a Familial Association by Number of Persons in the Household.

| Number of square feet | $\begin{aligned} & \text { 1 otal } \\ & \text { fam lies } \\ & \text { reorted } \\ & \text { No. Pct. P. } \end{aligned}$ |  | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Vo. | Pct. | No. | ${ }^{2}$ Pct. | No. | ${ }^{3}$ Pct. | No. | ${ }^{4}$ Pct. | No. | Pct. | No. | Pct. | Vo. | Pct. | No. | Pct. | No. | Pct. |
| No separate space | 7 | 3.4 | . | .... | 1 | 14.3 |  |  | 1 | 14.3 | 3 | 42.8 | . | .... | 2 | 28.6 | . | $\cdots$ | . | $\ldots$ |
| Less than 142 | 5 | 2.5 |  |  | 1 | 20.0 | 2 | 40.0 |  |  |  | 20.0 |  |  | 1 | 20.0 |  |  |  |  |
| 112-180 | 46 | 22.5 | 1 * | 2.2 | 12 | 26.1 | 11 | 23.9 | 10 | 21.7 | 7 | 15.2 | 2 | 4.3 |  |  | 2 | 4.3 | 1 | 2.2 |
| 181-254 | 123 | 60.3 | 3 | 2.4 | 27 | *21.9 | 27 | 21.6 | 36 | 29.3 | 17 | 13.8 | 4 | 3.3 | 7 | 5.7 | .. | .... | 2 | 1.6 |
| 255-319 | 20 | 9.8 | .. | .... | 9 | 45.0 | 2 | ${ }^{*} 10.0$ | 4 | 20.0 | 3 | 15.0 | .. | .... | 1 | 5.0 | .. | .... | 1 | 5.0 |
| 320-407 | 3 | 1.5 | .. | .... | .... | ...... | .. | ...... | 2 | *66.7 | 1 | 33.3 | . | .... | . | ... | .. | $\ldots$ | .. | .... |
| 408.433 | .... | ...... | .. | .... | .... | ...... | $\ldots$ | ..... | .... | ... | .... |  | .. | .... | .. | ...... | . | .... | . |  |
| 434-480 | .... | ... | .. | .... | .... | ... | .... | ... | .... | $\ldots$ | .... | ...... | …" * | $\ldots$ | - | ..... | .. | $\ldots$ | .. | .... |
| 481-510 | $\ldots$ | $\ldots$ | .. | .... | .... | $\ldots$ | .... | $\ldots$ | .... | $\ldots$ | .... | ...... | .. | .... | * | ...... | .. | .... |  |  |
| 511-557 | .... | .... | .. | .... | $\ldots$ | $\ldots$ | .... | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | ...... | .. | .... | .. | $\ldots$ | .. | $\ldots$ |  |  |
| $558-588$ | .... | $\cdots$ | .. | .... | .... | ...... | .... | - ... | ... | ...... | $\ldots$ | ...... | * | .... | .. | ...... | .. | .... |  |  |
| 589 or more | .... | ...... | . | .... | .... | ..... | .... | ..... | .... | ...... | .... | ...... | . | .... | - | . | . | .... | . | .... |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |

* Recommended space.
Table B-28. Storage in Recreation, Self-Improvement, and Extra Famalial Association Areas by Number of Persons in the Household.

| Number of square feet | Totalfamiliesreported |  | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Vo. | Pct. | No. | $2_{\text {Pct. }}$ | No. | ${ }^{3} \text { Pct. }$ | No. | ${ }^{4} \mathrm{Pct} \text {. }$ | No. | ${ }^{5} \text { Pct. }$ | No. | ${ }^{6}$ Pct. | No. | Pct. | No. | Pct. | No. | Pct. |
| No separate space | 8 | 3.9 |  |  | 2 | 25.0 |  |  | 1 | 12.5 | 3 | 37.5 |  |  | 2 | 25.0 |  |  |  |  |
| Less than 6 | 116 | 56.9 | 3 | 2.6 | 34 | 29.3 | 21 | 18.1 | 30 | 25.9 | 15 | 12.9 | 4 | 3.4 | 5 | 4.3 | 2 | 1.7 | 2 | 1.7 |
| 6-8 | 33 | 16.1 | 1 * | 3.0 | 6 | 18.2 | 11 | 33.3 | 8 | 24.2 | 5 | 15.2 | .. | ...... | 1 | 3.0 | . | .... | 1 | 3.0 |
| $9-11$ | 25 | 12.2 | .. | .... | 5 | *20.0 | 5 | 20.0 | 7 | 28.0 | 4 | 16.0 | 1 | 4.0 | 2 | 8.0 | . | .... | 1 | 4.0 |
| 12-14 | 4 | 2.0 | .. | .... | 1 | 25.0 |  | 25.0 |  |  | 2 | 50.0 | .. | ...... |  |  | . | ... | .. | .... |
| 15-17 | 4 | 2.0 | .. | .... | . |  | 2 | 50.0 | 1 | *25.0 | .... | ..... | .. | $\ldots$ | 1 | 25.0 | .. | .... | .. | .... |
| 18-20 | 5 | 2.4 | . | .... | 1 | 20.0 | 2 | 40.0 | 2 | 40.0 | ... * | * ..... | . |  | .. | ..... | .. | .... | .. | .... |
| 21-23 | 4 | 2.0 | .. | $\ldots$ | 1 | 25.0 | ... | ...... | 1 | 25.0 | 1 | 25.0 | 1 | *25.0 | .. | ...... | .. | $\ldots$ | . | $\ldots$ |
| 24-26 | .... | $\ldots$ | .. | .... | .... | ...... | .... | ..... |  |  | .... | ...... | .. | ...... | .. | ...... |  |  | . | ... |
| 27-29 | 2 | 1.0 | .. | .... | .... | ...... | .... | ..... | 2 | 100.0 |  |  | .. | $\ldots$ | .. | ...... | . | $\ldots$ | . |  |
| 30-32 | 1 | . 5 | .. | .... | .... | $\ldots$ | .... | ...... |  |  | 1 | 100.0 | .. | $\ldots$ | .. | - | .. | .... | . | * .... |
| 33 or more | 2 | 1.0 | .. | .... | .... | ...... | .... | .... | 1 | 50.0 | 1 | 50.0 | . | ...... | . | $\ldots$ | . | $\cdots$ | . | .... |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |

Table B-29. Space for Housekeeping by Number of Persons in the Household.

| Number of square feet | TotalfamiliesreportedNo. $\quad$ Pct. |  | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No. | 1 Pct | No. | 2 Pct. | No. | ${ }^{3} \text { Pct. }$ |  | ${ }^{4} \text { Pct. }$ |  | ${ }^{5} \text { Pct. }$ | No. | ${ }^{6} \text { Pct. }$ |  | ${ }^{7}$ Pct. | No. | ${ }^{8}$ Pct. |  | Pct. |
|  | 140 | 68.6 | 3 | 2.1 | 32 | 22.9 | 33 | ?3.6 | 36 | 25.7 | 21 | 15.0 | 4 | 2.9 | 7 | 5.0 | 1 | . 7 | 3 | 2.1 |
| No separate space Less than 48 | 15 15 | 68.6 7.3 |  |  | 5 | 33.3 | 2 | 13.3 | 6 | 40.0 | 2 | 13.3 | . | 2.9 | . | 5.0 | .. | . 7 | 3 | .... |
| 48-90 | 25 | 12.3 | 1* | 4.0 | 4 | 16.0 | 5 | 20.6 | 7 | 28.0 | 6 | 24.0 | .. | ...... | 2 | 8.0 | .. | $\ldots$ | .. | .... |
| 91-109 | 2 | 1.0 | .. | .... |  |  | ... | ...... | 1 | 50.0 | .... | ...... | .. | ...... | 1 | 50.0 | .. | ...... | . |  |
| 110-126 | 7 | 3.4 | .. | .... | 5 | 71.4 | 1 | * 4.3 | . |  | $\ldots$ |  | - |  | . | ...... | . | ...... | 1 | 14.3 |
| 127-145 | 3 | 1.5 | .. | $\cdots$ | .... | ...... | .... | ...... | 1 * | 33.3 | 1 | 33.3 | 1 | 33.3 | . | ...... | . | ...... | . | .... |
| 146-148 |  | ..... | .. | .... | . |  | $\ldots$ | $\ldots$. | .... | ..... |  |  |  |  | " | ...... | . | ...... | . | $\ldots$ |
| 149-164 | 3 | 1.5 | .. | .... | 1 | 33.3 | .... | . ... | .... | ...... | 1 | 33.3 | 1 * | 33.3 | .. | ...... | . | $\ldots$ | . | $\ldots$ |
| 165-179 | .... | ...... | . | .... | $\ldots$ | ... | $\ldots$ | ..... | $\ldots$ | ..... | .... | ...... | . | ...... | .. | $\ldots$ | . | ...... | .. | .... |
| 180-194 |  |  | .. | .... | .... | ...... | .... | .... | .... | ...... | . |  | . | ..... | .. | ..... | .. |  | - | $\cdots$ |
| 195-209 | 1 | . 5 | .. | $\ldots$ | . |  | .... | .... |  |  | 1 | 100.0 | . | ...... | . | ...... | - | $\ldots$ | . |  |
| 210 or more | 2 | 1.0 | . | .... | 1 | 50.0 |  |  | 1 | 50.0 | .... | ...... | . | ...... |  |  |  |  | * | .... |
| No information | 6 | 2.9 | .. | .... | 2 | 33.3 | 1 | 16.7 | 1 | 16.7 | .... | ...... | . | ...... | 1 | 16.7 | 1 | 16.7 | . | .... |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |

* Recommended space.
Table B-30. Storage in Housekeeping Area by Number of Persons in the Household.


[^27]Table B-31. Space for Circulation Between Various Areas of the Dwelling by Number of Persons in the Household.

| $\begin{gathered} \text { Number of } \\ \text { square } \\ \text { feet } \\ \hline \end{gathered}$ | TotalfamiliesreportedNo. $\quad$ Pct. |  | Number and percentage of persons in houses with specified space available |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No. | Pct. | No. | Pct. | No. | ${ }^{3} \text { Pct. }$ | No. | Pct. | No. | ${ }^{5}$ Pct. | No. | Pct. | No. | Pct. | No. | Pct. | No. | ct. |
| Less than 20 |  |  |  |  |  |  |  | .... | $\ldots$ | ..... | $\ldots$ | $\ldots$ |  | $\ldots$ |  |  |  |  |  |  |
| 20-66 | 81 | 39.7 | 2 | 2.5 | 19 * | 23.4 | 20 | 24.7 | 19 | 23.4 | 10 | 12.3 | 5 | 6.2 | 2 | 2.5 | 2 | 2.5 | 2 | 2.5 |
| 67-76 | 12 | 5.9 | 1 | 8.3 | 3 | 25.0 | 3 | *25.0 | 2 * | 16.7 | 3 | 25.0 | .. | .... | .. | $\ldots$ | .. | .... |  |  |
| 77-86 | 17 | 8.3 | 1 | 5.9 | 8 | 47.0 | 2 | 11.8 | 4 | 23.5 | 2 | *11.8 | .. |  | .. | ...... | .. | .... |  |  |
| 87-97 | 13 | 6.4 | . | .... | 3 | 23.1 | 2 | 15.4 | 5 | 38.4 | 2 | 15.4 | . | .... |  |  |  |  | 1 | 7.7 |
| 98 or more | 80 | 39.2 | .. | .... | 17 | 21.3 | 14 | 17.5 | 23 | 28.8 | 15 | 18.7 | 1 | 1.2 | 9 | 11.3 | . | .... | 1 |  |
| No information | 1 | . 5 | .. | .... | .... | ...... | 1 | 100.0 | .... | ...... | .... | ...... | . | .... | .. | ... | .. | .... | .. | .... |
| Total | 204 | 100.0 | 4 | 2.0 | 50 | 24.5 | 42 | 20.5 | 53 | 26.0 | 32 | 15.7 | 6 | 2.9 | 11 | 5.4 | 2 | 1.0 | 4 | 2.0 |

[^28]
[^0]:    Trotter, Virginia Y., "RB58-186 The Existing Space in Nebraska Multistory Tee Houses" (1958). Historical Materials from University of Nebraska-Lincoln Extension. 1993.
    https://digitalcommons.unl.edu/extensionhist/1993

[^1]:    * A subcommittee of N. C. 9, Regional Technical Committee for RMA Project, Farmhouse Requirements.

[^2]:    * The tee house is shaped like the letter " t ," one wing perpendicular to the main portion of the house in such a way that the main portion projects on each side.

[^3]:    ${ }^{1}$ Associate Professor and Chairman of the Department of Home Economics, College of Agriculture and Home Economics, University of Vermont.

[^4]:    ${ }^{2}$ Virginia Trotter and Margaret Liston. Research Bulletin 175, Farm Family Housing Needs and Preferences in Nebraska. Lincoln, Nebraska, University of Nebraska. June, 1954.

[^5]:    ${ }^{3}$ American Public Health Association Committee on the Hygiene of Housing. Standards for Healthful Housing, Planning the Home for Occupancy. Chicago. Public Administration Service. 1950 p. 3.

[^6]:    ${ }^{4}$ The ell house is a variation of the tee where the main portion of the house projects only on one side of the perpendicular wing forming a house shaped like the capital "L." For the purpose of this study, houses were classified as being two story if the major wing of the house was more than one story.

[^7]:    ${ }^{5}$ State economic areas established by the Bureau of Census in 1951 to be a grouping of counties having similar economic and social characteristics. A complete discussion of these divisions is made in U. S. Bureau of the Census, State Economic Areas, by Donald J. Bogue. U. S. Government Printing Office, Washington, D. C., 1951.

[^8]:    ${ }^{6}$ Ten years was chosen arbitrarily as the distinction between a new house and an old one. This age was estimated by viewing the house from the public road or d:iveway.

[^9]:    ${ }^{7}$ Trotter, op. cit.

[^10]:    ${ }^{8}$ Dean Carter and Keith R. Hinchcliff. Family Housing. New York. Wiley and Sons. p. 110.

[^11]:    - The cross of the tee refers to the major portion of the house, the stem to the wing which is perpendicular to it.

[^12]:    ${ }^{10}$ Carter and Hinchcliff. op. cit. p. 166.

[^13]:    ${ }^{11}$ Ibid.

[^14]:    * 4 had 2 flush toilets.
    ** 14 had 2 lavatories.
    $\cdots$ 1 had 2 tubs hot and cold water.

[^15]:    ${ }^{12}$ U. S. Bureau of Census, op. cit.

[^16]:    * The number and types of circuits were not known by the occupants of many of the houses. The distinction between lighting and convenience circuits was not easily discernible even when the enumerator looked into the fuse box. Consequently, some lighting circuits may be classed as convenience circuits and some convenience circuits as lighting circuits.

[^17]:    ${ }^{13}$ Most of the households are identical with the family group and the words are used interchangeably in this study.

[^18]:    ${ }^{14}$ American Public Health Asosciation, Housing for Health, the Science Printing Company, Lancaster, 1941.

[^19]:    ${ }^{15}$ American Public Health, op. cit.

[^20]:    ${ }^{1 c}$ Trotter, op. cit.

[^21]:    *These represent inside measurements.

[^22]:    * All storage space in the pantry-No "work space" in kitchen.

[^23]:    Recommended space.
    Average.

[^24]:    * Recommended space.

[^25]:    * Recommended space.

[^26]:    - Recommended space.

[^27]:    * Recommended space.

[^28]:    - Recommended space.

