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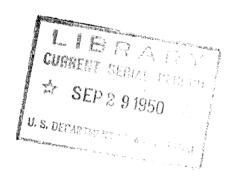
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Rice
Preferences
Among
Household
Consumers



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# BUREAU OF AGRICULTURAL ECONOMICS DIVISION OF SPECIAL SURVEYS

This is one of a series of studies of consumer preferences conducted by the Division of Special Surveys under the direction of Forrest E. Clements, Head of the Division.

The study director was:

TRIENAH MEYERS

Assisted by:

Louis Vexler

The following persons made up an advisory committee that assisted in planning the study and setting its objectives: Robert E. Post, Bureau of Agricultural Economics, Charles B. Howe, Production and Marketing Administration, Rosalind C. Lifquist, Bureau of Human Nutrition and Home Economics

# RICE PREFERENCES AMONG HOUSEHOLD CONSUMERS

PREPARED IN THE BUREAU OF AGRICULTURAL ECONOMICS 1

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#### INTRODUCTION

As a result of a greatly expanded production compared with pre-war and prospects that exports will be substantially reduced from present levels, the United States is faced with the likelihood of an accumulation of rice surpluses. An increase in domestic consumption would reduce the magnitude of surpluses, or abundances, and the size of the necessary acreage reductions.

Because of increased export outlets for United States rice which followed a decline in Oriental trade caused by the war, production of rice in the United States has been greatly expanded. The outturn in 1948 (the year of this study) reached the equivalent of about 2,500 million pounds of milled rice. This was about 75 percent above the 1935-39 average. In 1948, exports soared to four times the prewar

The Bureau of Agricultural Economics assumed major responsibility for this report, with cooperation and advice from the Bureau of Human Nutrition and Home Economics and the Production and Marketing Administration.

<sup>&</sup>lt;sup>1</sup> This project was recommended and given high priority by the Rice Advisory Committee serving under the Research and Marketing Act Program. The research on which this report is based was made possible by funds provided by the Agricultural Research and Marketing Act of 1946.

average. Because of the sharp drop in world trade, exports from the United States comprised 11 percent of the total world exports of rice compared with only about 1 percent in 1936–40. In 1948–49, disappearance of United States rice totaled about 2,400 million pounds, of which about 1,150 million pounds were used in continental United States and 330 million in United States territories. About 920 million pounds were exported.

In 1948–49, production in the exporting countries of Asia increased to within 10 percent of the 1935–39 average. Exports from these countries, however, were still less than half of prewar. If the political situations of these countries improve, Asiatic exports would be expected to increase. As a result of the reduction in Oriental trade, production and exportable supplies of rice in Egypt and surplus-producing areas of Latin American countries were greatly increased. Moreover, limited dollar exchange is resulting in the reduction of

exports from the United States.

The large domestic crop in 1948 caused the carry-over in the United States at the end of the marketing year to be the largest in 5 years. In 1949, a year after this study was started, growers in the United States again increased their acreage. They produced a record crop 5 percent larger than that of the previous year and 42 percent above the previous 10-year average. As a result of the very large supplies, the carry-over at the end of the 1949-50 year is expected to be substantially increased. In order to avoid further accumulation of surpluses, producers have been requested to reduce their 1950 acreage.

With a view to reducing surpluses of rice, efforts are being made to find larger outlets in the United States. It is the purpose of this consumer preference study to help rice growers and the rice industry to evaluate domestic consumption with a view to its possible expan-

sion. A study of the export market is also in progress.

# Scope of the Study

By analyzing consumer preferences, it is thought that ways may be found to expand the domestic demand among those who are either nonusers or small users. It has been assumed that many people in this country do not use rice at all and that some use it for dessert only.

The study was designed to find out:

(1) Reasons for use or nonuse of rice and relation of price to

purchase.

(2) Ways in which homemakers use rice, the number of families utilizing it in these various ways, the meals at which rice is served, and the food combinations in which it is served.

(3) The number of users who are aware of different lengths of grain in rice, their preference in regard to grain length, their reasons for

stated preferences, and availability of the preferred grain.

(4) The number of homemakers who cook rice by different methods (boiled, steamed, etc.), length of cooking time, methods of preparation, preferences as to dry-flaky versus soft-and-sticky results after cooking, ability to produce the desired cooking results, any difficulties in cooking, and homemakers' analyses of the sources of these difficulties.

(5) The number of users of rice who use both white and brown, their preferences between the two, intensity of these preferences, reasons for the stated preferences, and availability of the preferred rice.

(6) Extent of the homemakers' knowledge and opinions of home-

makers regarding the nutritive values of white and brown rice.

(7) The foods high users of rice sometimes serve in place of rice, frequency of serving the substitution, and homemakers' evaluation of the relation of the price of rice to the price of substitutes.

(8) Size and frequency of purchase, size and kind of package which rice users prefer, preferences for specific brands, reasons for these preferences, attitudes toward printed recipes on packages, and avail-

ability of the kind of package preferred.

(9) Use and preferences regarding quick-cooking rice and processed rice such as breakfast cereals (puffed rice, rice flakes, etc.), and availability of these items.

# Design of the Sample

The "universe" sampled consisted of the private households in the United States. It is estimated that there are approximately 42 million such units. Tabulations were made for the total United States and for Chicago. This city was chosen for separate tabulations because it was thought advisable to select a city representing an intensely concentrated cosmopolitan center which included several

nationality groups.

A uniform sampling rate was applied, except for the Chicago metropolitan area where the sampling rate was increased to allow separate estimates to be made. The sampling rate was set to yield a minimum of about 2,500 interviews.<sup>2</sup> The sample was a probability sample and the techniques used by the Bureau of Agricultural Economics in its attitudinal studies were followed. Three subuniverses were involved: (1) The 14 largest metropolitan areas; (2) cities having more than 10,000 inhabitants in 1940; (3) territory not included in (1) and (2) which was covered by means of a sample of 25 counties in the North and 25 counties in the South.<sup>3</sup> Stratification was geographic within four size groups on the basis of size of the largest city in the county. Counties were selected with probabilities proportional to their population, excluding the population of any places of 10,000 or more inhabitants.

Within the sample cities, the sampling procedure followed the usual area-sampling techniques of selecting blocks, listing addresses in the blocks, and sampling addresses on the list. In the open country, no listing was done; instead, all households within selected geographic

segments were included in the sample.

<sup>&</sup>lt;sup>2</sup> Actually 2,450 interviews were successfully completed. This is a combined figure representing the interviews taken to represent the United States and the additional special interviews taken to provide separate estimates for Chicago.

<sup>3</sup> The South as used here includes the census divisions of South Atlantic, East

<sup>&</sup>lt;sup>3</sup> The South as used here includes the census divisions of South Atlantic, East South Central, and West South Central. The North includes the remainder of the country.

#### Who Was Interviewed

An interview was taken in each household in the sample except in those in which meals were never prepared at home. If meals were usually prepared in the home, an interview was taken. The person eligible for interview in this survey was the person in the family who had the main responsibility for buying and preparing food. In most cases this person was the housewife, but men who prepared meals were interviewed.

If one person in the family bought most or all of the food and another prepared it, the person who had chief responsibility for preparing the food was interviewed. If the person who prepared the meals was a paid cook, the "lady of the house" was interviewed.

If two or more families used the same kitchen facilities but usually prepared meals separately, an interview was taken with the person

eligible for interview in each of the families.

#### When Interviewing Took Place

Interviewing took place simultaneously all over the country in the last 2 weeks of October 1948. Because the patterns of rice usage seem to be relatively stable the findings reported here for October 1948 probably would not differ in any statistically significant respect from those based on interviews taken since that time.

#### SUMMARY OF MAJOR FINDINGS

Users and nonusers of rice.—Almost 9 in 10 homemakers in the United States reported using rice as part of their meals. Most of those who said they were not using it at the time the survey was

taken, reported that they had used it at times in the past.

Characteristics of users.—Homemakers who were members of large families were more likely to use rice than were those with smaller families. Also, homemakers with high family incomes were somewhat more likely to use it than were those with smaller incomes. Age, educational level, or place of residence of the homemakers were not found to be related to the use of rice.

Frequency of serving.—Slightly more than 4 in 10 users reported serving rice less than four times a month. A corresponding proportion said they served it from 4 to 15 times a month and slightly over 1 in 10 reported using it as often as 16 times a month. For purposes of comparison, these three groups are shown in the report as "infrequent," "moderate," and "frequent" users.

Characteristics of infrequent, moderate, and frequent

users.—Generally speaking, the more frequent the consumption the more the group is characterized by larger families and lower incomes.

Reasons for using.—In order of mention, the three chief reasons homemakers gave for using rice were: (1) Its favorable taste, (2) its usefulness in adding variety to meals, and (3) its healthful, nourishing qualities. Other reasons were also mentioned, although less frequently than those shown above.

How rice is used.—Approximately three in four users of rice reported that they cooked it separately and served it along with other foods. Meat, chicken, and vegetables were the foods most often used by homemakers when they cooked rice in this way. A similar proportion said they cooked rice mixed with other foods. Meats, soups, chicken, and vegetables were the more frequently mentioned foods with which rice was prepared in this way.

Of those who used rice 76 percent said they served it as a dessert

and only 19 percent reported serving it as a breakfast food.

Methods of cooking rice.—A majority of the homemakers said they usually washed the rice before cooking it, then boiled it in plain water in a regular pot or a double boiler for a median time of 25 minutes. About half run water through it either during the cooking period or after it has been cooked. Almost all said they preferred to have the rice grains stand apart from each other after they are cooked. Very few reported difficulty in having the rice cook up as preferred.

Foods used in place of rice.—Of those who used rice frequently, 3 in 4 said that when it was omitted from a meal they put something in its place—potatoes and cereal pastes such as macaroni and spaghetti were most often used. According to the homemakers, about 3 out of 10 of the alternatives cost more than rice, three-tenths cost

the same; and four-tenths cost less.

Seasonal use of rice.—Almost three in five homemakers said they used rice more often during certain times of the year than at others. With few exceptions, those who varied their consumption of rice did so by increasing its use during the cooler seasons particularly during the winter.

Brown rice.—Approximately two-thirds of the homemakers in the sample said they had heard of brown rice. In this group, less than half reported using it; they were about equally divided in their opinions about it. Those who said they did not like it criticized primarily its taste and color.

Among those who had heard of it, approximately 4 in 10 said they

were usually able to buy it in nearby shopping areas.

Quick-cooking rice.—Slightly more than half the interviewed homemakers said they had heard of quick-cooking rice. About half of those who had heard of it said they had used it. About half

of those who used quick-cooking rice said they liked it.

Ready-to-eat rice breakfast foods.—More than 2 in 3 home-makers reported using breakfast foods made of rice. Of this group, about 9 in 10 said they had used rice crispies, 7 in 10 reported using puffed rice, and 3 in 10 mentioned using rice flakes. Most of those who used these breakfast foods tended to diversify their purchases instead of using one kind to the exclusion of others.

Among homemakers whose families contained children, about 8 in 10 mentioned using rice breakfast foods. Even among all-adult families, however, nearly 6 in 10 homemakers said they used these

breakfast foods.

Purchases—type and size.—Most of the homemakers reported buying rice in packaged form, either in boxes or in bags. Those expressing a preference for boxes favored those with cellophane windows. Similarly, those who preferred bags were partial to cellophane bags or bags with cellophane windows.

About 6 in 10 homemakers said they usually bought rice in units of 1 pound or less, and almost 3 in 10 said they bought 2 pounds at a Relatively few said their usual purchases were in units of 3 or

more pounds.

Brand preferences.—The majority of rice users reported no special brand preference, 6 in 10 said they were not partial to any particular brand. This group was primarily of the opinion that, (1) there was little or no difference between brands, (2) the acceptability of rice could be learned by seeing whether it was unbroken and long grained, and (3) such small quantities were bought that brands were of little importance.

Homemakers who expressed a preference for a particular brand most frequently mentioned names of regular unprocessed rice. Very few showed a preference for processed brands that were either parboiled, quick-cooking, or had vitamins added.

Rice recipes on packages.—More than half of the homemakers who usually bought packaged rice said they knew of the recipes printed on the packages and about 4 in 10 of this group mentioned using them. The remainder said they relied principally on memory or referred occasionally to a cookbook when they cooked rice. A substantial proportion thought it would be a good idea to continue printing the recipes, primarily to aid other or inexperienced homemakers.

Suggestions for increasing the use of rice.—Two-thirds of the homemakers made suggestions for increasing the use of rice. They would rely heavily on printed material for media and on some version of cooking instruction as the action to be taken. appear to want new and improved recipes and suggestions for the

use of rice.

Price.—Less than a third of those who used rice said they would increase their purchases if the price were lowered. Very few of the nonusers thought they would come into the market even with a reduction in price. At the time of the survey, only about a fifth of the users appear to know that potatoes and rice cost about the same for serving; a fourth thought rice cost more, and a third thought it cost less.

Only half of the homemakers who used rice said they knew the

price per pound of white rice.

Food value of white and brown rice.—Of the interviewed homemakers 7 in 10 could name some item of food value in white rice. More than half said it contained starch or carbohydrates. Other relatively frequent answers were that it contained vitamins, and that it had a high caloric value. Similar items were mentioned by those who had heard of brown rice. Regarding brown rice, however, only about half were able to report some food value.

Grain lengths.—Less than half of the homemakers said they had heard of rice of different grain lengths. Most of those who said that they were aware of different lengths said they knew only of long and short rice. Very few appeared to know that there are three lengths.

Chicago.—For the most part, the results of the Chicago survey closely parallel the findings for the United States. Discussions of differences, when they occur, may be found on pages 31-38.

#### SURVEY FINDINGS FOR THE UNITED STATES

#### Users and Nonusers of Rice

Almost all the interviewed homemakers said they used rice. The findings of the survey show that 88 percent of the homemakers in the United States said they were using it as a part of the meals served their families. The remaining 12 percent said they were not using it. However, a great many of the nonusers said they had used it at some time in the past. Only 3 percent of all those interviewed said they had never used it (table 4, p. 39). The reason given most frequently by all nonusers was, "I just don't like it and my family doesn't like it," (tables 5 and 6).

In a few sections of this report all users of rice are treated as a group. However, the frequency of use of this food varies widely and it was considered unwise to treat the analyses of many of the opinion and practice questions as though they reflected a homogenous population. Therefore, very early in the report users are grouped according to their "frequency of serving rice" and the larger part of the report is treated in this way.

#### Characteristics of Users

Size of family.—Homemakers' families were grouped according to size as follows: (1) Small, (2) medium-sized, and (3) large families. Infants under 1 year were not considered as part of the family when this classification was established. When these three groups were compared, it was found that homemakers with large families were somewhat more likely to use rice than those with smaller families. The following proportions of homemakers within each group were reported using rice (table 7):

95 percent who have large families (5 or more persons).

89 percent who have medium-sized families (3 or 4 persons).

83 percent who have small families (1 or 2 persons).

Family income.—Homemakers in the sample were divided into groups, on the basis of their gross pooled income, by taking the lowest, the middle, and the upper thirds and designating the members of these groups as low, middle, and high-income families. The ranges of the groups were: \$2,240 or less, \$2,241 to \$3,600, and \$3,601 and over. Survey results indicate that homemakers with high family income were somewhat more likely to use rice than were those with

<sup>&</sup>lt;sup>4</sup> Small families totaled 801 cases, or 35 percent of the sample. These were 1- or 2-person families. Most of them were 2-person adult families, whereas the few remaining cases were families of a single adult plus 1 child. Medium-sized families totaled 933 cases, or 41 percent of the sample. These were 3- or 4-person families. Two-thirds of these families were composed of adults and children. The remaining third were all-adult families. Large families totaled 544, or 24 percent of the sample. These were families of 5 or more persons. Most of these were families composed of both adults and children. The few remaining cases were all-adult families.

smaller family incomes. The proportion of homemakers within each income group who reported using rice were (table 8):

92 percent of the high-income group (\$3,601 and over). 89 percent of the middle-income group (\$2,241-\$3,600). 85 percent of the low-income group (\$2,240 or less).

It is generally thought that the high proportion of upper-income users of rice is a reflection of greater variety in their meals. Although more homemakers within this income group tend to use rice than do homemakers in the other two groups, later in the study it will be seen that when frequency of use is related to income, the low-income group contains a higher proportion of frequent users than do the other

income groups.

Size of place of residence. Age and education of home-maker.—The use of rice does not appear to be related to the size of the community in which the homemakers live. About the same proportion of homemakers living in metropolitan centers and urban areas use rice as do those living in small towns or in the open country.5 In addition, no significant differences in usage were found between homemakers of different ages, or between those of different educational levels.

### Frequency of Serving

Infrequent, moderate, and frequent users.—As previously noted in the analysis of the data collected for this report ALL users might have been regarded as a unit; and the replies from each user given equal weight. However, users of rice represent a particularly uneven market because they run the gamut from a small nucleus of frequent users to large groups of moderate and infrequent users.

It was decided, therefore, that a more useful analysis could be made of consumption of rice in private households, by regarding

consumers as separate markets based on levels of use.

On the basis of replies to the question, "About how often would you say that you serve rice this time of the year?", homemakers who use rice were classified into three general groups as follows: (1) Infrequent users, those who said they served rice less than 4 times a month: (2) moderate users, those who said they served it from 4 to 15 times a month; and (3) frequent users, those who said they served it 16 or more times a month. A monthly basis was chosen for this classification because a great many users spontaneously mentioned this period of time as a basis for their estimates. It should be noted particularly that this classification refers to the frequency of use, although it may reasonably be assumed, in a large proportion of cases, that the relation between frequency of use and volume consumed is close.

Table 9, which illustrates this three-way grouping, shows the specific frequency categories from which each of the groups was constructed. The first two groups are about equal in size; that is, 43 percent of homemakers are classified as infrequent users and 44 percent as moderate users. Those homemakers who have been

<sup>&</sup>lt;sup>5</sup> The sample for this study was not designed for separate regional analysis No data can be shown, therefore, for the South, or for any other specific area close to the source of supply of rice where its use is known to be widespread.

classified as frequent users represent only 13 percent of the total number of homemakers who use rice. This three-way view of rice users is presented throughout most of the remainder of the report (fig. 1).

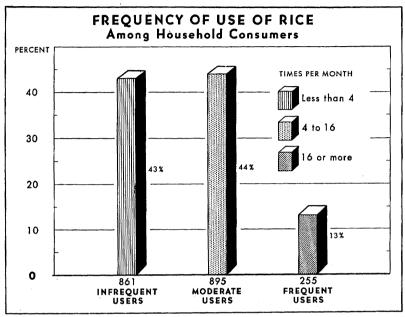


FIGURE 1.

LAL 4/349-X

# Characteristics of Infrequent, Moderate, and Frequent Users of Rice

The study shows that certain personal characteristics of the home-maker's family bear some relation to whether or not she uses rice. A further examination of these characteristics for each of the three levels of users shows more clearly the differences among the three.

levels of users shows more clearly the differences among the three. Size of family.—Users of rice are primarily characterized by medium-sized families (3 to 4 persons). Approximately 40 percent of the homemakers within each of the three groups reported families of this size. Generally speaking, however, the higher the consumption the more the group is characterized by large families. Frequent users have a significantly higher proportion of large families than the two other groups. Of these frequent users 38 percent reported large families as compared with 28 percent among the moderate users, and only 19 percent among the infrequent group. Conversely, among the homemakers in the infrequent group there is a higher proportion of small families than among those in the two other groups (table 10).

Age of homemaker; size of place of residence.—No apparent differences were found among the groups in regard to age of the homemaker, nor were any differences found when these groups were compared on the basis of size of the community in which they lived. The proportion of infrequent, moderate, and frequent users in rural

areas and small towns was about the same as those in urban areas and

metropolitan centers.

Family income.—A particularly strong inverse relationship apparently exists between frequency of use of rice and income. Infrequent users, for example, tend to fall predominantly into the upper income groups—only 25 percent of them have low incomes. Moderate users appear to be divided almost evenly throughout the three income levels, whereas almost half (49 percent) of the frequent users have low incomes, only 17 percent falling into the high-income group (table 11).

Education of homemakers.—Similarly, frequency of use of rice was found to be related to the homemaker's education. Frequent users, who are characterized for the most part by relatively lower incomes, usually had fewer years of formal education than those who use rice moderately or infrequently. Infrequent users, on the other hand, included a large proportion of homemakers with high-school or college training (table 12).

These characteristics of income and education which apparently differ among the three groups of users must be regarded simply as traits that appear to be associated with level of usage—and not as

the complete causal influence.

#### Reasons for Using

Reasons for using rice (table 13) were given by the homemakers in answer to the question: "What would you say are the main reasons

why you use rice?"

The variation in emphasis of the first three reasons among the three levels of users provides an interesting pattern of relationships. Although the favorable "taste" qualitities of rice were mentioned most often by homemakers in all three groups, it was given a great deal more attention by the frequent users. This also holds true, on a smaller scale, for the "healthful" appeals of rice. The aspects of "variety" apparently appealed to many more of the infrequent users than to those in the other two groups.

Seven in ten homemakers gave more than one reason. They were asked to say which of the reasons mentioned was the most important This was done to ascertain whether the factor of verbal facility (multiple reasons) might have given undue weight to the replies of

some of the respondents.

After this screening, it was found that the original rank order remained-taste first, variety second, and health third. However, the loss in emphasis was not identical for all three factors. The more important the item in the original reporting, the better it held its position in the second reporting. Factors of taste lost least emphasis in proportion to original mention, factors of variety lost slightly greater proportions, and reasons of health lost most emphasis (table 14).

#### How Rice Is Used 6

In general, rice is used in four ways. When it is used in the main part of the meal it can be (1) cooked separately, then served along

<sup>6</sup> In all instances, "use of rice" refers to cooked rice only, not to prepared breakfast foods.

with other foods, or it can be (2) cooked mixed with other foods. It can also be used as (3) a dessert, or (4) a breakfast food.

To establish the pattern of use in the homemakers' meals, questions were asked about each of these general methods of preparation. For methods (1) and (2) an additional group of questions was asked concerning the particular foods with which rice is most often served.

Homemakers who use rice in different ways.—According to survey results, homemakers do not tend to limit the use of rice to any single method of preparation. The data show that they recognize the various ways in which it can be used, and consequently prepare it in more than one way. In the summary that follows, with the exception of rice as a breakfast food, approximately 3 in 4 homemakers said they used each of the major methods of preparation (table 1).

Table 1.—Proportion of homemakers who said they used each major method of preparation of rice

Methods of use	All rice users	Infrequent users	Moder- ate users	Fre- quent users
Cooked separately from other foodsCooked mixed with other foodsServed as a dessertServed as a breakfast foodNumber of homemakers	Percent 1 71 74 76 19 2, 019	Percent 1 57 67 77 13 861	Percent 1 79 80 77 19 895	Percent 1 93 80 73 45

<sup>&</sup>lt;sup>1</sup> Percentages total to more than 100 because many homemakers prepare rice in more than 1 way.

Infrequent, moderate, and frequent users varied greatly in their use of the four methods of preparation. A higher proportion of those who were classified as frequent users utilized each method than was the case of those classified as infrequent users. However, about the same proportions of each group said they used rice as a dessert.

Regarding the first two methods of preparation, that is, (1) cooking rice separately and serving it along with other foods, and (2) cooking it mixed with other foods, special tabulations were made to ascertain the extent to which homemakers used both of these methods. Infrequent, moderate, and frequent users were also compared in this respect.

Åmong all rice users, about 5 in 10 said they prepared rice according to both methods. Four in ten reported using only one. Fewer than 1 in 10 of all the homemakers said they restricted the use of rice to desserts or to breakfast use <sup>7</sup> (table 15).

Those who serve rice infrequently are more likely to use a single method of preparation than are those who use it more often. Among

<sup>&</sup>lt;sup>7</sup> Among many of the persons called upon for advice during the course of the study, there seemed to be a consistent thought that, "A large proportion of homemakers primarily use rice for desserts, as in puddings." According to the responses of this cross-section of homemakers, only 8 percent reported using rice for desserts or for breakfast to the exclusion of other methods of preparation.

the infrequent users, for example, 38 percent reported using it according to both major methods of preparation. In comparison, 75 percent

of the frequent users reported using both methods.

Classes of foods with which rice is used.—The report thus far has shown the number of homemakers who reported using rice in the four general methods of preparation. The discussion that follows concerns the foods with which rice is most often served when it is used as part of a main dish. This section, therefore, excludes rice for breakfast or as a dessert.

All users of rice who said they used it as part of a main dish were asked about five classes of foods: chicken, fish, seafood, such as shrimp, meat, and vegetables without meat. The summary that follows presents the proportions of homemakers who reported using rice with these five foods. It lists their preferences for combining rice with particular foods, regardless of the method of preparation (table 16).

Among all rice users-

48 percent said they served rice with meat.
48 percent said they served rice with chicken.
39 percent said they served rice with vegetables (no meat).
10 percent said they served rice with fish.

10 percent said they served rice with seafood (for example, shrimp).

These results reflect the homemakers' evaluations of the suitability or flexibility of rice in combination with different classes of foods.

The figures are determined to a considerable extent by a combination of influences. They combine the homemakers' preference for serving certain foods with rice and they reflect also the relative popularity of the basic foods themselves. From other sources 8 it is shown that in actual pounds consumed per household, meat is far in the lead, poultry is second although far below meat, and fish and seafood rank third.

The previous summary considered users of rice as a whole. When users are grouped according to frequency of use, differences were found in the proportions in each group who prepared these particular food combinations. As in the number of methods of preparation—when the frequency of serving rice increased, the likelihood of using each of the food combinations increased (table 17).

$Among \ infrequent \ users$	$Among\ moderate\ users$	Among frequent users	
57 30	76 58	78	percent said they served rice with meat. percent said they served rice with chicken.
29	42	60	percent said they served rice with vegetables (no meat).
5	10	30	percent said they served rice with fish.
5	11	25	percent said they served rice with seafood (for example, shrimp).

If we consider that homemakers might use all five of these food classes, and might prepare the rice for each combination either by cooking it separately or cooking it mixed with the other food, we can

<sup>&</sup>lt;sup>8</sup> United States Bureau of Human Nutrition and Home Economics, FOOD CONSUMPTION OF URBAN FAMILIES IN THE UNITED STATES., Washington, D. C. pp. 15 and 19.

assume that homemakers have 10 general ways of preparing and serv-

ing these particular foods.

Actually, 4 in 10 of these homemakers said they use rice in one or two ways, 3 in 10 use it in three or four ways, and slightly fewer than 3 in 10 use it in five or more ways. The data show an almost perfect relation between frequency of use of rice and number of ways it was used (table 18).

Homemakers who cook rice separately and serve it with other foods.—Homemakers who reported using rice in this way were asked whether they served rice with certain specified foods. In asking this question, a checklist of foods was read to the homemaker. In the pretest period this suggestive technique was found necessary because the majority of the respondents were moderate and infrequent users and thus had considerable difficulty in recalling their usage habits. Tabulation of replies to this checklist question (table 19) showed that:

- 69 percent said they cooked rice separately and served it along with meat.
- 54 percent said they cooked it separately and served it along with chicken.
  36 percent said they cooked it separately and served it along with vegetables
- 21 percent said they cooked it separately and served it along with gravy (no meat).
- 13 percent said they cooked it separately and served it along with Chinese foods.
- 12 percent said they cooked it separately and served it along with fish.
- 11 percent said they cooked it separately and served it along with seafood (for example, shrimp).

Frequency of serving rice with specific foods.—Homemakers who reported cooking rice separately and serving it along with each of the foods mentioned were asked to estimate about how often they served these recipes (table 20).

A graph of these data (fig. 2), combining specific foods and frequency of serving shows a fairly regular descending frequency of serving as the popularity of the food decreases. An exception is fish, which is apparently served rather often by the small group of people who

combine it with rice.

Homemakers who cook rice mixed with specific foods. 10—In obtaining data on this method of preparation a checklist question was asked homemakers about the same foods previously mentioned. And as before, those who mentioned preparing rice mixed with these foods were asked how often they served each food combination.

In the answers to the question about cooking rice mixed with other foods, a ranking of foods similar to that shown in the replies to the question on cooking rice separately was obtained—with one exception—soup came into the listing. About the same proportion of homemakers reported using rice with soups 11 as with meat. The

<sup>&</sup>lt;sup>9</sup> Chinese dishes were placed in a separate category because of replies to the question: "Are there any other foods you serve rice along with?" This recipe was recalled voluntarily so frequently that it was included as an additional item in the final tabulation.

<sup>&</sup>lt;sup>10</sup> See table 1.

<sup>11</sup> Soup was included because of replies to the question: "Are there any other ways you serve rice mixed with other foods?" Soup was mentioned so often that it assumed second place among the foods with which rice is cooked.

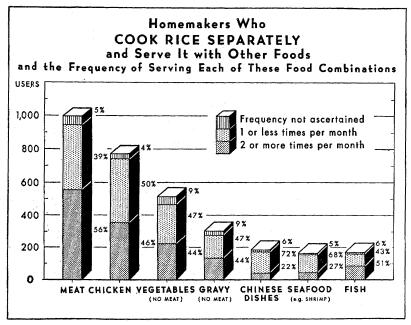


FIGURE 2.

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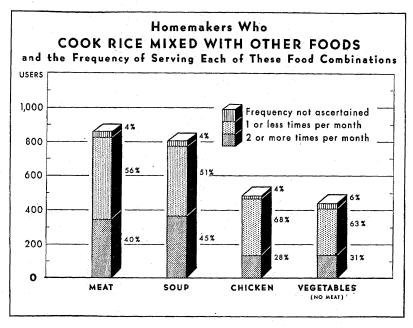


FIGURE 3.

proportions of homemakers who said they cooked rice mixed with each of the foods listed (table 21) follows:

57 percent said they cooked rice mixed with meat. 54 percent said they cooked it mixed with soup.

32 percent said they cooked it mixed with chicken.
29 percent said they cooked it mixed with vegetables (no meat).
6 percent said they cooked it mixed with seafood (for example, shrimp).
3 percent said they cooked it mixed with fish.

Frequency of serving rice cooked with specific foods.—Figure 3 illustrates the frequency with which rice is cooked with specific foods. 12 Homemakers reported cooking it with soups and with meat rather often each month (table 22). Those who used this method of cooking with chicken or with vegetables prepared it much less often.

Homemakers are quite aware of the differences in cooking time required for rice and for the other foods with which it is often used. In soups, stews, or the casserole type of cooking, rice and meat, or rice and chicken, can be mixed together for the entire or almost the entire cooking period. But when rice is used with foods that require relatively short cooking, as fish and seafood, few homemakers attempt to combine the rice and the basic food item during the cooking period.

#### Use for Breakfast and as a Dessert

Homemakers who use cooked rice for breakfast and frequency of use.—In reply to the question, "Do you ever serve cooked rice for breakfast?" about one out of every five said, "yes" (table 1).

$Among \ all \ users$	$Among \ infrequent$	$Among \\ moderate$	$Among \\ frequent$
19	$users \\ 13$	$users \\ 19$	users 45 percent said they served cooked rice for breakfast

Among those who reported serving cooked rice for breakfast, 7 in 10 indicated that it was not a very customary part of this meal as they estimated serving it in this way four or fewer times a month.

Only 2 in 10 said they served it more frequently.

Use of cooked rice at the morning meal is definitely a characteristic of the frequent users, appears to be a slight habit among moderate users, and is seldom used in this way by the infrequent users. Whereas 78 percent of the frequent users said they served rice for breakfast at least once a week, 46 percent of the moderate users and only 4 percent of the infrequent users followed this practice (table 23).

How homemakers cooked rice at breakfast.—Most of the home-

makers who serve cooked rice for breakfast said they added sugar, cream, or butter. Eight in ten mentioned serving it in this way, and two in ten said they used gravy. Fewer than I in 10 mentioned

other ways of serving (table 24).

Homemakers who use rice as a dessert and frequency of use.—It was mentioned that about 75 percent of the homemakers reported using rice desserts (table 1). It was also noted that the use of rice as a dessert was apparently unrelated to the frequency of use of

<sup>&</sup>lt;sup>12</sup> Data for seafood and fish are omitted because so few homemakers mentioned cooking rice with them.

rice in general, as about equal proportions within each of the three

groups said they used it in this way.

A tabulation of the homemakers' estimates of how often they served rice as a dessert to their families shows that they do not serve rice desserts very frequently (table 25). Only 21 percent of the homemakers said they served it this way four or more times a month.

A large proportion of homemakers who use rice infrequently serve it as a dessert. However, only 2 percent of the infrequent users estimated serving it in this way four or more times a month, whereas 30 percent of the moderate users and 52 percent of the frequent users reported using it this often.

Time of day at which main meal is served.—Users of rice, like most homemakers in the United States, considered their evening meal as the main meal of the day. However, a fair proportion said they

as the main meal of the day. However, a fair proportion said they served the main meal at midday. In answer to the question, "When do you usually serve the main meal of the day?" about 7 in 10 mentioned the evening meal, and about 1 in 4 the midday meal (table 26).

Meal at which rice is most frequently served.—Rice appears to be strongly associated with the evening meal, regardless of when the main meal is served. Among the homemakers who considered the evening meal as the main meal of the day, more than 8 in 10 said they served rice most often at this time. A somewhat similar situation was found even among those who considered the midday meal as the main meal of the day. In this group, 6 in 10 reported serving rice most often for the evening meal, whereas fewer than 2 in 10 said they served it most often at their midday meal (table 27).

# Methods of Cooking

For most homemakers, the cooking of rice is a very simple procedure. Most of them wash the rice before cooking, then boil it in plain water in a regular pot or a double boiler for a median time of 25 minutes. About half then run water through it either during or after it is cooked.

Cooking utensils used.—Approximately 6 in 10 homemakers said they cooked rice by simply boiling it in plain water in a regular pot. About 2 in 10 mentioned using a double boiler. Very few said they used other or more complicated methods (table 28).

Length of cooking time.—Homemakers varied their cooking time as they varied the type of utensil used. The median length of time for those using a plain pot was 25 minutes, for a double boiler 30 min-

utes, and for a pressure cooker 7 minutes.

These median cooking periods closely approximate those recommended by cooking experts. The homemakers' estimates of length of cooking time show considerable variation around the median, which can probably be accounted for by variations in quantities of water used, and by the use of a quick-cooking or precooked rice (table 29).

Homemakers who wash rice.—Ninety percent of the homemakers said they usually washed the rice before cooking it. Although no specific questions were included in the final questionnaire regarding reasons for this washing, pretest experience showed that those who bought rice which was either packaged by the grocer or loose from a container were particularly concerned, and complained that the product was dirty. Those who reported washing the clean prepackaged

rice are probably carrying over a habit from the days when most rice was sold from open containers and definitely required washing (table

30).

Somewhat less than half of the homemakers reported running water through the rice before it was completely cooked or after it was cooked. The low consumers were more likely to give this rinsing—but even among the high consumers, more than a third said they did so (table 31).

Homemakers who add ingredients other than salt to the cooking water.—Tabulation of replies to the question: "Do you add anything to the water you cook rice in besides salt?" showed that only about 1 in 10 of the interviewed homemakers use additional

ingredients in the cooking water (table 32).

Those who add something extra primarily reported using either butter, milk, vinegar, or lemon juice (table 33).

Among those who made additions to the cooking water-

½ said they used butter or other fats. ½ said they used milk or milk and sugar. ½ said they used vinegar or lemon juice.

Homemakers' preferences for different grain textures after cooking.—More than 8 in 10 homemakers said they preferred to have the rice grains stand apart from each other after cooking. Only about 1 in 10 preferred to have them stick together. These preferences in regard to texture after cooking are about the same for all three groups of users (table 34).

A special tabulation was made among those who used a "plain pot" for cooking to learn whether those who preferred a drier rice used, on the average, a longer or shorter cooking period than those who preferred a stickier product. It was found that, regardless of these preferences in the end product, the homemakers who boiled the rice in plain pots reported almost identical cooking times (table 35).

Homemakers who reported trouble in having rice cook up as preferred.—Homemakers were asked: "Do you find that you have any particular trouble in having rice cook up as you like it?" Most of them said that their cooked rice usually turned out well. Almost

9 in 10 reported no difficulties (table 36).

For the most part, those few who mentioned having had some difficulty in cooking rice said the rice cooked up sticky or gummy. A small group reported that it didn't cook up evenly, but contained some hard parts (table 37).

#### Foods Used in Place of Rice

Homemakers who use foods in place of rice.—It has been shown that most homemakers tend to use rice rather infrequently, in contrast to the regularity with which they use many other foods. For the homemakers who were classified as infrequent and moderate users, it may be assumed that rice is used in the diet to take the place of another starchy food or as a means of satisfying a general need for variety in meals.

For a fairly small group of users (those who use it four or more times a week), rice is a relatively regular part of the meals, and deviation from its serving probably indicates that another food has been used

To obtain information concerning the substitute pattern, this group was asked: "When you don't serve rice, do you use anything else in place of rice?" (table 38).

77 percent said they used other foods in place of rice.

19 percent said they did not use other foods in place of rice.

Specific foods used in place of rice by frequent users.—Potatoes were reported by 7 in 10 of this group as the food used in place of rice; cereal pastes such as macaroni and spaghetti were mentioned by 5 in 10; and grits and miscellaneous vegetables each were reported by 2 in 10 (table 39).

Number of foods used in place of rice.—For the most part, frequent users of rice do not use a wide variety of foods as a substitute. About two-thirds said they used only one or two different foods and

one-third mentioned using three or four.

33 percent said they used only one food in place of rice. 36 percent said they used two foods in place of rice.

15 percent said they used three foods in place of rice.

16 percent said they used four foods in place of rice.

Frequency of use of "substitute" foods.—Judging by the reported frequency of serving "something else instead of rice" most of these high users considered rice an integral part of each noon and evening meal, and each time it wasn't served they were conscious of substituting for it. Almost 4 in 10 of the frequent users reported serving alternative foods once or twice a week, 3 in 10 indicated that they served them 3 or 4 times a week, 2 in 10 served substitute foods 5 to 7 times, and slightly more than 1 in 10 said that other foods were used in place of rice at least 8 times a week (table 40).

Comparison of price of rice and of foods used in its place. For each alternate food mentioned, the respondent was asked if she thought it cost more, the same, or less to serve than rice. Although a considerable number thought their substitutes were less expensive than rice, almost three-fifths thought they cost the same or more (table 41). For about 60 percent of those who were asked about substitutes, additional factors must come into play—such as the attempt to please the family's taste, and the need for variety which directs

even these frequent users toward using alternatives. According to the homemakers' appraisal-

26 percent of the substitutes cost more to serve than rice.

33 percent of the substitutes cost the same to serve as rice. 41 percent of the substitutes cost less to serve than rice.

#### Seasonal Variation

Homemakers who used rice more often during certain times of the year.—Almost three in five homemakers reported that they used rice more often during certain times of the year. The remaining two out of five said they used rice practically constantly throughout

No great seasonal differences in use were found between those who use rice more or less frequently. However, frequent users tend to be slightly more constant in their usage than either moderate or infre-Of the frequent users 46 percent said they consumed about the same quantity throughout the year, whereas only 37 percent of the moderate users and 42 percent of the infrequent users so

reported (table 42).

Seasons of the year when homemakers increase the use.— With few exceptions, those who vary consumption do so by increasing usage during cooler periods of the year, particularly during the winter. Only a very small proportion increased its use during warmer weather (table 43).

Reasons homemakers gave for using more rice during fall and winter.—All reasons homemakers gave for using more rice during the fall and winter centered around its appropriateness to cooler

weather (table 44). Among the more frequent reasons:

56 percent said, "Family members have better appetites—need hotter, more filling meals.

21 percent said, "Cooler weather is more conducive to cooking."

16 percent said, "Rice is suitable for cooler weather because it provides

warmth and energy."

12 percent said, "Rice is used because of poor selection, high prices, and unavailability of other foods during winter."

Thus about 6 in 10 said that additional use of rice was caused by the family's demands and 2 in 10 said that cooler weather was more conducive to cooking. Fewer than 2 in 10 based their increased use on wintertime energy needs of the family, and more than 1 in 10 referred to the unfavorable market situation of other foods.

#### Brown Rice

Homemakers who have heard of brown rice.—About twothirds of the regular rice users reported that they had heard of brown rice (table 45). Equal proportions of infrequent, moderate, and frequent users said they were aware of it. The homemakers were specifically asked about, "brown rice, not wild rice."

Homemakers who have used brown rice.—Over-all, about 4 out of 10 of those who had heard of brown rice said they had used it. Moderate and frequent users of regular white rice who had heard of that product were much more likely to have used brown rice than were infrequent users. Use of brown rice rose from 35 percent in the infrequent group to 52 percent in the frequent group (table 46).

Homemakers' reactions to brown rice.—Slightly more than half of those who had tried brown rice were not favorably disposed

toward it.

56 percent of those who had used it said they did not like it.

44 percent of those who had used it said they liked it.

Frequent users of rice apparently were more likely to dislike the brown rice even though a larger proportion of them had tried it than was true for the less frequent users. Probably it was their strong liking for white rice that tempted them to try another kind; also the strong taste habit of white rice tends to make for dislike of brown rice (table 47).

Among those who had had experience with brown rice and hadn't liked it, the principal criticisms advanced were:

And the second s	Percent
Did not like its taste, its flavor	45
Did not like its appearance, its color	37
Took too long to cook—did not get tender	12
Texture was too coarse, tough, hard, grainy	7
Stuck together, cooked up gummy, mushy	5

Among those who have tried and liked brown rice, approximately two out of three said they preferred to use it for some kinds of recipes only. They singled out meat, stuffing for meat or fowl, and with just gravy or butter (tables 48 and 49).

The reasons given by those who preferred to use brown rice for all kinds of rice cooking show that its food value is regarded as superior (table 50). The favorable taste qualities of brown rice were also

given frequent mention.

To measure the intensity of the homemaker's preference for brown rice, those who had used and liked it were asked, "If you can't get brown rice when you want it—do you usually just use white rice instead or do you skip that recipe until you can get brown rice?" Most of the homemakers in this group said they wouldn't wait until brown rice could be bought, and would buy white rice in its place. Only 1 in 10 of the homemakers were so favorably disposed toward brown rice that they said they would rather skip the particular recipe (table 51).

Availability of brown rice.—Among those who had heard of brown rice, about 4 in 10 said they were usually able to buy it. About the same proportion said they were uncertain as to its availability, and only 2 in 10 indicated that it was not usually available in the

stores at which they shopped.

A comparison between users and nonusers of brown rice with regard to their respective opinions about its availability showed that well over half of those who had used it said they were usually able to buy it. Among the nonusers, the reverse was found to be true; more than half in this group were uncertain about its availability (table 52).

# Quick-Cooking Rice

Homemakers who have heard of quick-cooking rice.— Slightly more than half of the homemakers in the sample reported that they had heard of quick-cooking rice.

Homemakers who used the regular rice frequently were no more aware of the precooked rice than were those who used it infrequently. The moderate users appeared to be slightly more aware of it than the

other two groups (table 53).

Homemakers who have used quick-cooking rice.—Almost half of those who had heard of quick-cooking rice said that they had used it. Although this represents only about a fourth of the homemakers in the total sample, this seemingly small group of users is, in reality, a very high measure of sales success-according to the replies, of every two persons who had heard of it, one had tried it (table 54).

Reactions to quick-cooking rice.—Homemakers were about equally divided in their opinions about this rice. Among those who had used it, 54 percent said they liked it and 46 percent said they dis-

liked it (table 55).

Those who approved of it gave three principal reasons: 13

82 percent said it cooked up quickly and easily.

17 percent said the grains stood out; they were dry and flaky.

12 percent said it tasted as good as regular rice.

<sup>13</sup> The statements made by the favorable and unfavorable groups each total to more than 100 percent because some gave more than one reason for approval or disapproval. Several minor categories have been omitted in these summaries. For complete details, see tables 56 and 57.

Those who disapproved of it commented as follows:

49 percent said the grains did not stand apart; it was too mushy.
45 percent said it did not taste as good as regular rice.

14 percent said it was not tender when cooked.

9 percent said it was more expensive than regular rice.

Infrequent users of regular rice apparently liked the quick-cooking rice more than did frequent users. Almost 6 in 10 of the low consumers expressed approval of it, whereas only 4 in 10 of the high consumers liked it.

Reasons for not using quick-cooking rice.—The homemakers who had heard of this product but who said they had never used it were asked: "How does it happen that you have never tried quickcooking rice?"

26 percent said they preferred to use regular rice.
23 percent said they had no particular reason; they just had not bought any. 14 percent said they were not very familiar with it; they had just recently seen it or heard of it.

10 percent said it was not available where they did their shopping.

4 percent said it was too expensive.

Several additional reasons were reported but each was mentioned

by only 1 percent or less of the homemakers.

Apparently, among those who have heard of quick-cooking rice nonuse is not based on aversion resulting from experience. Many respondents had not tried it simply because they "just hadn't gotten around to it." They hadn't been adequately motivated by store displays, advertising in general, or hearsay, to lead to purchase.

Availability of quick-cooking rice.—A majority of those who had heard of this rice indicated that they could usually find it in the stores where they did their shopping. A sizable proportion, however, said they were uncertain as to its availability. Among those who reported using it, 82 percent indicated that it was usually available. In contrast, only 45 percent of the nonusers said it was usually available (table 58).

# Ready-to-Eat Rice Breakfast Foods

Use of rice breakfast foods.—The tabulation of the question, "Do you ever use breakfast cereals made of rice, like rice crispies, rice flakes, and puffed rice?" shows that these breakfast foods are popular among the homemakers in the sample. It was found that:

69 percent said they used these rice products.

31 percent said they did not use them.

A comparison of the infrequent, moderate, and frequent users of regular rice, with respect to their use of breakfast foods made of rice, shows the same kind of reaction as was found for brown and for quickcooking rice. Frequent users of regular rice are less likely to use these rice breakfast foods. Those classed as infrequent users are more likely to use them (table 59).

In a previous section of the report it was shown that a large proportion of frequent consumers used cooked rice as a breakfast item (table 1). Apparently, a kind of balance exists in the use of rice at the breakfast meal. It is a popular food for the morning meal—but if homemakers use the prepared product often, they are less likely to

use the cooked one, and vice versa.

Use of specific kinds of rice breakfast foods.—Those who reported using the ready-to-eat rice were asked to specify which they had used. The findings show that of the three kinds, rice crispies was the most popular type, puffed rice ranked second, and rice flakes third (table 60).

Of those who used breakfast foods made of rice:

91 percent said they used rice crispies. 74 percent said they used puffed rice. 34 percent said they used rice flakes.

Most of the users of rice breakfast foods tended to diversify their purchases of these three products rather than to use only one kind (table 61).

Seven in ten mentioned using more than one kind of rice product:

Among these homemakers the most popular combination was rice crispies and puffed rice—4 in 10 said this. The second most popular combination included all three, crispies, puffs, and flakes—3 in 10 said this.

Three in ten mentioned using only one kind of rice product:

In this group, rice crispies was far in the lead with 2 in 10. Puffed rice was second most popular in this group with about 1 in 10 using it.

Frequency of use of rice breakfast foods.—The majority of homemakers who use rice breakfast foods said they served them fairly often, at least once a week (table 62). Users of these rice products reported the following:

35 percent said they served them three to seven times a week. 32 percent said they served them one to two times a week. 17 percent said they served them less than once a week.

6 percent said they did not serve them at all "this time of the year"—autumn.

Relation between presence of children and use of rice break-fast foods.—A comparison between homemakers in all-adult families and those in families with children <sup>14</sup> shows that a much larger proportion of homemakers whose families contain children reported using these cereal preparations than did those whose families were composed of adult members only. These results are causally associated with well-known merchandising and advertising practices aimed at encouraging children to use dry cereal products of all types. Nevertheless, it should be noted particularly that these rice breakfast foods are not to be rigidly categorized as solely for children. The data show, for example, that even among families in which there are no children, approximately 6 in 10 reported using these foods (table 63).

Among families with children:

78 percent said they use rice breakfast foods.

Among families without children:

59 percent said they use rice breakfast foods.

The survey also shows that among the homemakers whose families consisted of both adults and children, in most instances, both young and old eat these rice foods (table 64).

<sup>&</sup>lt;sup>14</sup> Respondents included in this category answered "Yes" to the question: "Are there any children under 18 in your family?" Fifty-two percent of the users said they had children in this age group.

#### Among families with children:

7 in 10 said that both adults and children eat them.

2 in 10 said that only children eat them. 1 in 10 said that only adults eat them.

Children were reported to use these cereal products more often than adults (table 65). In answer to the question: "Do the children eat them more often than the adults?", among families with children:

73 percent said the children used rice breakfast foods more frequently than adults.

27 percent said the adults used rice breakfast foods as frequently as children.

Reasons homemakers gave for not using rice breakfast foods.—Homemakers who said they did not use ready-to-eat breakfast foods made of rice were asked why they did not use them. of the replies were in terms of the positive appeals of other foods rather than any negative aspect of these preparations. About half said that the members of their families preferred other kinds of food for break-About a fourth said that the members of their families did not like ready-to-eat breakfast foods made of rice; they preferred other kinds (table 66).

Availability of breakfast foods made of rice.—In a further attempt to discover why some respondents did not use this product, all nonusers were asked: "Do the stores around here sell breakfast foods

made of rice?"

78 percent said the product was available locally.

14 percent said they didn't know whether it was available locally.

1 percent said the product was not available locally.

# Purchases—Type, Size, and Frequency

Homemakers who buy rice in boxes, bags, or loose.—Most of the users of rice reported buying it in packaged form. Seventy-four percent said they usually bought boxed rice and 20 percent reported buying rice in bags. Those who bought rice in bags were not asked whether it was prepackaged or store-packaged. They could not always know where the paper or cellophane bags had been filled—at the millers, distributors, or at the store.

Although boxed rice was bought by the greatest proportion in each group of rice users, the higher consumers were more likely to buy bagged or loose rice and less likely to buy the boxed rice than were the other two groups. While a third of the frequent users bought bagged rice, only a sixth of the other two groups did so. And whereas threefourths of the less frequent users said they bought boxed rice, about

half of the frequent users did so (table 67).

Preferences for different kinds of packaging.—The question: "Regardless of the way stores usually sell it, which way would you prefer to buy it—in a box, bag, or loose out of a bin or bag?"—indicated that there were no great differences between "usual" purchase and "preferred" purchase.

Preferr	
purcha	ise
percer	nt)
72	Rice in boxes.
17	Rice in bags.
6	Loose rice.
	purcha percer 72 17

The frequent users tended to shift slightly toward loose rice. Although only 5 percent usually bought it this way, 13 percent said

they preferred it this way.

Those who said they preferred to buy rice in boxes favored boxes with cellophane windows. Homemakers who expressed a preference for bags were extremely partial to cellophane bags or bags with win-

dows (tables 68, 69).

Reasons homemakers gave for preferring different types of packaging.—Those who preferred to buy rice in boxes held the opin-The appeal of cleanliness is a strong one but ion that it was cleaner. it may be more a result of contrasting bulk rice with boxed rice rather than a positive appeal of boxed rice itself. A second reason given for preferring boxes was that the box is in itself a storage container, thus making it unnecessary to transfer the rice to another container after opening.

Bags are apparently preferred because of greater visibility which allows the purchaser to evaluate the quality of the rice. "You can see what you're getting," was the usual reason given by most purchasers for their preference. An additional group of preferences was

based on qualities of cleanliness.

Homemakers who favored bulk rice spoke most frequently of its

price advantage over the packaged types (table 70).

Although many additional reasons for preference for each type of packaging were given, those listed below were most frequently

Among those who preferred boxes,

64 percent said they were cleaner, more sanitary. 36 percent said they were more convenient for storing.

Among those who preferred bags,

47 percent said, "You can see what you're getting." 28 percent said they were cleaner, more sanitary.

Among those who preferred bulk purchases,

53 percent said it was less expensive.

Usual size of rice purchase. Most homemakers said they bought rice in fairly small quantities. About 6 in 10 said they bought in units of 1 pound or less whereas almost 3 in 10 reported buying 2 pounds at a purchase. Only 1 in 10 said their usual purchases were

in units of 3 or more pounds.

As might be expected, the usual size of purchase varied considerably among the three groups of users. Infrequent users tended to buy rice in smaller quantities, whereas the more frequent users reported larger purchases. About three-fourths of the infrequent users said they usually bought 1 pound or less; only a fourth of the frequent users reported buying in such small quantities (table 71).

$Among \ infrequent$	$Among\ moderate$	Among frequent
users	users	users
77	51	25 percent said they usually bought 1 pound or less at a time.
23	49	75 percent said they usually bought 2 pounds or more at a time.

As those who buy rice in boxes comprise such a large proportion of all buyers of rice, the over-all data shown in table 71 are primarily a reflection of the buying activities of this group. In order to evaluate the influence of the kind of package usually bought by purchasers, a separate review was made of the "usual amounts" bought by homemakers who said they made their purchases in boxes and those who reported purchase of bags.

A much larger proportion of those who buy in bags reported making larger individual purchases of rice than did those buying boxed rice

(table 72).

Among homemakers who
USUALLY
buy boxed rice
66
38 percent said they bought 1 pound or less at a
time.
34
62 percent said they bought 2 or more pounds at a

Preferences for different sizes of packages.—The survey results indicate that the available package sizes satisfactorily met the demands of homemakers. The figures on preference closely approximate those shown for the usual size of purchase, both among homemakers who bought rice in boxes and those who bought rice prepackaged in bags (tables 72, 73).

Frequency of purchase.—Although for the population as a whole rice is a rather infrequently purchased item of food, a consideration of the survey results in terms of different frequencies of use shows an accumulating intensity in several factors among the frequent users. They use rice most frequently, they buy larger quantities in each

purchase, and they buy more often (tables 71, 74).

Frequency of purchase was also analyzed in terms of the quantity of rice homemakers usually bought at each purchase. The more frequent purchasers were much more likely to buy in larger units than

Table 2.—Replies to the question: "About how often do you usually buy rice?"

$\frac{1}{2} \left( \frac{1}{2} \right) \right) \right) \right) \right)}{1} \right) \right) \right)} \right) \right) \right) \right) \right) \right) \right)} \right) \right) \right)} \right) \right)}}}}}}}}$	Homemakers who used rice			
Replies	All users	Infrequent users	Mod- erate users	Frequent users
Less than 1 time a month  1 time a month  2 times a month  3 or more times a month  Not ascertained		Percent 74 15 5 1 5	Percent 20 39 22 16 3	Percent 6 13 23 54 4
Total	100	100	100	100
Number of homemakers	2, 019	861	895	255

were those who bought infrequently. More than half of those who bought at least three times a month said they buy 2 or more pounds at a time whereas only about a third who bought less than once a month said their usual purchase is this size (table 3).

Table 3.—Relation between frequency of purchase and size of purchase of rice

	Hom	nemakers wh	o bought ri	ce—
Size of purchase	Less than 1 time per month	1 time per month	2 times per month	3 or more times per month
1-pound units	Percent 63 25 12	Percent 55 33 12	Percent 53 31 16	Percent 45 26 29
Total	100	100	100	100
Number of homemakers	824	450	286	288

#### **Brand Preferences**

Preference for brands of rice.—Homemakers were asked, "When you buy white rice do you usually like to buy one particular brand or name of rice?" The primary purpose of this question was to discover whether homemakers had "brand loyalties."

The majority of users said they had no special brand preference. Six in 10 said they were not partial to any particular brand. Fewer

than 4 in 10 favored a brand.

Those who expressed no preference as to brand were of the opinion that brands differed very little, if at all, and they decided on the acceptability of rice by looking at it to see whether it was unbroken and long-grained. Some said they used rice in such small quantities

that brands were of no concern to them (tables 75, 76).

Homemakers who expressed a preference for a particular brand most frequently mentioned names of regular unprocessed rice. Very few reported a preference for brands that were parboiled, quickcooking, or had vitamins added. This preference appears to reflect in large measure the availability of different kinds of rice on the Most rice is not subjected to processing, and only a small proportion is treated in special ways to add vitamins, or to shorten its cooking time (table 77).

Reasons homemakers gave for preferring specific brands.— Those who expressed a preference for unprocessed rice based their preferences, to a considerable extent, on favorable cooking qualities. Less frequent mention was made of the external appearance of the

rice.

Regarding cooking qualities:

<sup>47</sup> percent said the grains stand apart, flaky. 14 percent said it cooks up quickly, easily.

#### Regarding appearance qualities:

17 percent said it is a clean rice; no black spots.

15 percent said it is a large, long-grain rice.

Similar results were obtained for those who preferred a vitaminadded rice. Most of the homemakers who preferred this kind said they were impressed by its good cooking qualities, and a few favored

it because of its external appearance (table 78).15

Complaints about preferred brands.—Most of the homemakers who preferred specific brands reported that they were generally satisfied with them. Ninety-five percent said they were satisfied with the quality of their preferred brand. Only 4 percent said they found some fault with it (table 79).

# Recipes on Packages

Homemakers who are aware of recipes on rice packages.—Of all the homemakers who said they usually bought packaged rice, only 55 percent said they had noticed recipes printed on the outside of the package. There seemed to be little relation between level of use and awareness of the recipes, for infrequent users were usually as aware of these recipes as were those who used rice more often (table 80).

Homemakers who use the rice recipes.—The recipes that appear on boxes are not used by all who notice them. About 4 in 10 who

have noticed them said they use the recipes.

Most homemakers who knew of the rice recipes but who did not use them said they relied primarily on memory when they prepared rice. Only a small proportion said they referred to a cookbook.

Although frequent, moderate, and infrequent users were about equally aware of these recipes, their use of the recipes differed. The infrequent and moderate groups reported higher usage than did the frequent users—4 in 10 as compared with 3 in 10 (tables 81, 82).

Attitudes toward continuation of recipes on packages.—Although less than half of those who have seen the recipes said they used them, more than two-thirds would like to have them continued on the packages. This seeming contradiction is explained in some of the reasons they gave; they said the recipes were useful in furnishing new ideas in cooking. However, this is probably advice for others because they also mentioned the fact that the recipes were helpful for inexperienced cooks, and that they eliminated guesswork and the need for referring to cookbooks (tables 83, 84).

# Suggestions for Increasing the Use of Rice

Homemakers who made specific suggestions.—In the case of consumption of rice it was assumed and later corroborated, that homemakers differed considerably in their rice habits—and that these

<sup>&</sup>lt;sup>15</sup> As so few of the preferred brands were parboiled or quick-cooking detailed reasons for their preference are not shown. On the whole, however, certain emphasis is evident. Parboiled rice apparently has the same general pattern of appeals as regular rice, but received a greater vote of approval on the dry-flaky characteristic. Quick-cooking rice also followed the same general pattern. Here, however, in spite of the small number reporting preference there was a noticeable addition to the usual appeals as almost 100 percent reported on ease and quickness of cooking as a desirable characteristic.

habits were based on one or more fairly personal reasons. For example, the homemaker's own preference, the family preference, food habits acquired in parent's home, and economic requirements all influence the individual's use of rice. Asking the respondent directly what could be done to get her to use more rice has a personal tone which might cause her embarrassment. Therefore, instead of asking the question directly, a more general wording was used: "What do you think might be done to get people to use more rice?" (table 85).

67 percent made specific suggestions.

25 percent said they didn't know what could be done.
2 percent said they didn't think anything could be done.

Kinds of suggestions made by homemakers.—The answers given by those who made suggestions fell into two general categories—specific media which could be used for dissemination of information concerning rice and courses of action that could be taken. Some suggested a course of action alone, but many suggested a medium plus a course of action.

Among the media suggested, the more popular in order of mention were magazines, radio, newspapers, books, and retail store displays. Packaging and personal contacts such as cooking demonstrations were

also mentioned (table 86).

Of those who spoke of action programs, the more frequently mentioned were advertising and distribution of recipes. Some of the respondents mentioned the high price of rice and suggested that a

lower price might increase its use.

Homemakers who suggested using magazines were equally divided in their proposals for advertising and the actual distribution of recipes. Those suggesting radio leaned heavily toward advertising, the supporters of newspapers as media slightly favored recipes, and those who suggested booklets showed considerable interest in the recipe idea.

Those who thought the stores should lead a campaign for higher consumption suggested it be done with advertising, distribution of

recipes, demonstrations, and special displays (table 87).

Of those who suggested action:

				$Via \ books$		
But	Via		Via	and	Via	
no	maga-	Via		book-	the	
media	zines	radio	papers	lets	stores	
13	36	45	25	9	23	percent suggested using advertising, general.
11	12	14	10	12	4	percent suggested advertising its food value.
32	48	29	52	74	18	percent suggested distributing recipes and cooking instructions.
<b>29</b>					- 4	percent suggested reducing prices.
					18	percent suggested putting on demonstrations.
			'-		4	percent suggested setting up special displays.

For reasons which can readily be understood, homemakers are well aware of the role of advertising in promoting sales. It is therefore hardly surprising that in answering the question, many suggested this technique. However, the keen interest a majority showed in new and more widely available recipes involving rice indicates a valuable clue for advertisers.

Although many people use rice, it is not used with such frequency that its preparation is easy and automatic. Also, rice is usually served with other foods. It seldom stands alone as a single-dish menu. Homemakers want new or improved recipes and suggestions for its use as they search for variety and taste appeals in their meals.

# Price-Inducements and Comparisons 16

Price inducements.—In several of the consumer preference studies conducted by the Bureau of Agricultural Economics in the last few years, some attempt has been made to investigate the elasticity of demand based on price levels, and on price levels combined with other influences. For the most part, in food as well as in clothing purchases, a slight variation in price alone did not influence to any great extent the expressed preferences of consumers. The major proportion of the respondents predicated that their buying behavior would remain constant, or relatively constant, regardless of price variations suggested to them in hypothetical situations.

During the last few years, when consumers have had fairly steady incomes, they have been able to continue many of their buying habits through periods of price shifts—particularly when these shifts have

involved rather low cost items.

Among users of rice, slightly less than a third said they would buy more rice if the price were lower. In this study there were no follow-up questions to try to measure how much more they would buy at which

price levels.

The high users seemed considerably more susceptible to variations in price than were the lower users. Almost half of the frequent users said they would buy more, whereas only a third of the moderate users and a fifth of the infrequent users seemed interested in increasing purchases if a lower price were charged (table 88). The fact that frequent users have lower incomes naturally makes them more interested in prices (table 11).

When nonusers of rice were asked, "If the price of most foods stayed about the same, but the price of rice were lower, do you think you would become interested in using rice?", these respondents indicated an even firmer adherence to past practices. Only 12 percent of this group said they would become interested in using rice (table 89).

**Price comparisons.**—During the period when this survey was conducted, available information indicated that it cost most housewives about the same money per serving to use either rice or potatoes. Obviously, there were local variations, but on the whole it was not thought that either product had a significant price advantage over the other.

Notwithstanding this, a third of the users thought it cost less to serve rice, a fourth thought it cost more, and only a fifth considered that there was no price difference per serving. The greater the quantity of rice people used, the more likely they were to consider it the more expensive of the two foods—rice and potatoes. Of the frequent

<sup>16</sup> United States Bureau of Agricultural Economics, Women's Preferences Among Selected Textile Products, U. S. Dept. Agr., Misc. Pub. 641; Potato Preferences Among Household Consumers, U. S. Dept. Agr. Misc. Pub. 667; Potato Preferences Among Restaurant and Hotel Buyers, U. S. Dept. Agr. Misc. Pub. 682; Men's Preferences Among Selected Clothing Items, U. S. Dept. Agr. Misc. Pub. 706.

users 37 percent thought rice was more expensive, 23 percent of the less frequent users thought so, and only 14 percent of the nonusers held this opinion (table 90).

The volume consumed by the frequent users apparently made them more conscious of the increases in the price of rice which had taken

place in the last few years.

Selling price.—Only half of the homemakers who used rice said they knew what white rice sold for per pound. These said they paid a median price of 21 cents, with a range of less than 15 cents to more than 40 cents. Most of them said they paid between 15 and 29 cents (tables 91, 92). The very low prices reported were probably those for broken-grain bulk rice. At the upper end of the range were those who probably bought the more expensive vitamin-processed and quick-

cooking rice.

Evidently some confusion as to price existed even among the half of the users who said they knew the current price of rice. For example, one woman complained that she had recently been grossly overcharged for a box of rice. When she brought the box out of the pantry to corroborate her story, the interviewer saw that she had received a 2-pound box and had paid a fair price for it. The respondent usually bought in 1-pound units and assumed that all rice was packaged that way. Thus she supposed that any deviation from the usual price was a price change alone and not a change in size of package. Examples such as this were picked up by chance and there is no way of measuring, from data available, how many homemakers reported the 2-pound price thinking that it was the cost of a pound package.

#### Food Values of White and Brown Rice

All homemakers who reported using white rice were asked, "As far as white rice is concerned, what food value do you think it has?" In addition, all homemakers who said they had heard of brown rice were asked, "\* \* what food value do you think it has?"

A considerably higher proportion knew about the food values of white rice than about the food values of brown rice. Seven in ten mentioned at least one value for white rice, whereas only 5 in 10

mentioned any food value for brown rice (table 93).

White Brown
rice rice
73 51 percent did not mention anything about food value.
49 percent did mention something about food value.

Of those who used white rice, more than half said it contained starch. Decidedly fewer replied in terms of any other single food value.

For brown rice, on the other hand, only 16 percent spoke of starch content. Emphasis shifted sharply to the vitamin content and the belief that brown rice is generally superior to white rice in food value.

The following were some of the ideas the homemakers had about food values:

White	Brown	
rice	rice	
54	16	percent said it contains starch, carbohydrates.
. 8	13	percent said it contains vitamins (none specifically men-
		tioned).
7	2	percent said it has high caloric value, provides energy.
6	. 5	percent said it is nourishing, healthful: builds up the body.

Though some minor variations occurred between the high, medium, and low users, there were no real differences in their reporting of food values. This was true for their replies to the question on white rice and to the question on brown rice (table 94).

# Grain Lengths

Homemakers who know of different grain lengths in rice.— In answer to a question concerning awareness of different grain lengths, fewer than half of the homemakers who use rice said they had heard of different lengths. People who use rice most often were more aware of differences in grain length than were the more casual consumers.

v _ ±	moderate	$Among \ frequent$	
users 36	$users \\ 51$	65 percent said they had heard of grain lengths.	different

Most users who said they had heard of lengths said they knew of long and short rice. Some said they had come across long rice and broken rice. Very few seemed to know there are three lengths.

Those who said they had heard of only one length said they knew

about long-grain rice.

There is no way to evaluate the answers of those who said they had heard of "long and short" lengths. Because most of the identification as to grain length that homemakers see on packages which advertise "long grain" it is very possible that a large proportion quite logically assumed, that if there were a long grain there would probably be a short grain also. However, this circumstantial sort of evidence is no real proof that the respondents were not well informed when more than a fourth of them reported that they had heard of both of these lengths (table 95).

Preferences for rice of different grain lengths.—Those users who said they had heard of more than one grain length were asked which they liked best. The expressed preference was in favor of the better-known length. Seven in ten said they preferred the long grain, 1 in 10 said they preferred the short, and almost 2 in 10 said it made

no difference (table 96).

From some of the comments recorded during the interviewing it appeared that many people call broken rice short rice. This may account for some of the preference accorded it—a preference based not on the general desirability of short (broken) rice, but on its relatively lower price.

# SURVEY FINDINGS—CHICAGO

The committee that acted as technical adviser to the study decided that, in addition to the national coverage, it would be desirable to have separate data for a large urban area which might serve in a general way, to typify similar large communities throughout the Nation. Chicago and its surrounding area was selected because, as an industrial metropolitan area composed of diverse nationality groups, it matched the requirements established. A total of 241 special interviews was obtained to represent this city.

The small size of the Chicago sample limited the extent to which detailed analyses were undertaken of various subgroups; only tabulations including the entire Chicago sample or major portions thereof are shown.

In general, the results obtained from Chicago were very similar to those for the United States as a whole. Significant statistical differences were found in fewer than half of the tabulations. When significant differences occur both United States and Chicago figures are shown or the differences are noted in the text. When no differences occur, only a reference is made to the tables.

Because of the over-all similarity in results, the discussion of the

Chicago findings is briefly stated.

Those interested in studying the tables that carry the Chicago

tabulations, may refer to the Guide to Tables, page 39.

Users of rice. Frequency of serving. Reason for using.— Chicago homemakers reported very much as did United States homemakers regarding the use of rice (table 4), frequency of use (table 9), and reasons for use (tables 13, 14).

#### How Rice Is Used 17

Homemakers in Chicago were asked whether they (1) cooked rice separately and then served it along with other foods, whether they (2) cooked rice mixed with foods, whether they (3) served it as a dessert, or whether they (4) used it as a breakfast food.

They were also questioned about different foods they used in prepa-

ration methods (1) and (2).

Homemakers who use rice in different ways.—Homemakers in Chicago, like those over the entire country, appear to be aware of the various ways in which rice can be prepared, and they mentioned using it in a number of ways.

These urban homemakers were less likely than the rest of the United States to serve it as a dessert, more likely to cook it separately or mixed with other foods, and about as likely to serve it as a breakfast food.

Survey results show that:

In the		
United	In	
States	Chicago	
71	86	percent said they cooked rice separately and served it
		along with other foods.
<b>7</b> 4	<b>7</b> 9	percent said they cooked it mixed with other foods.
<b>7</b> 6.	68	percent said they served it as a dessert.
19	17	percent said they served it as a breakfast food.

Regarding the first two methods of preparation, (1) cooking rice separately and serving it along with other foods, and (2) cooking it mixed with other foods, a higher proportion in Chicago said they used both methods than was found for the United States. About 7 in 10 of the Chicago homemakers said they used both methods, 2 in 10 reported only cooking it separately, and 1 in 10 said that they only cooked it mixed with other foods. Only 4 in 100 indicated that they

<sup>&</sup>lt;sup>17</sup> In all instances "use of rice" refers to cooked rice only.

used neither of these methods, but served it only as a dessert or as a breakfast food (table 15).

In the United States	$_{Chicago}^{In}$	
53	69	percent said they cooked rice separately and mixed with
21		other foods. percent said they only cooked it mixed with other foods.
18	17 4	percent said they only cooked it separately. percent said they served it only for breakfast or dessert.

Classes of foods with which rice is used .- Homemakers who said they prepared rice according either to method (1) or (2) were asked about the following classes of foods: chicken, fish, seafood (for example, shrimp), meat, vegetables (without meat), and gravy (without meat). Of these, five were common to both methods of preparation.

When the five food classes are considered in terms of the two major methods of preparation, it can be assumed theoretically that homemakers could prepare 10 different types of rice dishes. No significant differences were found between the United States and Chicago regarding either classes of food used or frequency of preparation (tables 16, 17).

Homemakers who cook rice separately and serve it with other foods.-Among the Chicago homemakers who said they cooked rice separately and then served it with other foods, these food combinations

were reported:

64 percent said they cooked rice separately and served it with meat.

43 percent said they cooked it separately and served it with Chinese dishes. 18

41 percent said they cooked it separately and served it with chicken.
25 percent said they cooked it separately and served it with vegetables.
20 percent said they cooked it separately and served it with gravy.
9 percent said they cooked it separately and served it with seafood.
7 percent said they cooked it separately and served it with fish.

A comparison of the United States and Chicago showed that the Chicago homemakers had a greater tendency to serve rice with Chinese dishes and less tendency to serve it with chicken and vegetables (table 19).

Homemakers who cook rice mixed with other foods .- Homemakers in Chicago and in the United States were very much alike in their reports of cooking rice mixed with each of the specified foods

(table 21).

Tables regarding the frequency of serving rice with these foods are not shown because of the small number of homemakers who reported

using each of the foods.

Homemakers who use rice as a dessert. Frequency of use.— Among the two-thirds of the Chicago homemakers who reported using rice as a dessert, the greater number said they used it with about the same frequency as reported in the United States survey (table 25).

When homemakers serve the main meal of the day.—Urban life appears to be highly associated with eating the main meal in the

<sup>&</sup>lt;sup>18</sup> See footnote 9.

evening. A larger proportion of Chicago homemakers reported the evening meal than did those in the United States (table 26).

In the United In States Chicago

69 91 percent said they usually serve the main meal in the

Meals at which rice is most frequently served.—As in the United States, a large majority of the Chicago homemakers considered rice most appropriate as a part of the main meal of the day. Because so few homemakers in this city consider the midday meal as the main meal of the day, no data are shown for the meal at which this group most often serve rice (table 27).

## Methods of Cooking

How homemakers prepare rice (cooking utensil, cooking time, washing, additions to water, grain textures, cooking difficulty).—Here again, results for Chicago were similar to those for the United States. Most Chicago homemakers reported that they cook rice by boiling it in plain water in a regular pot for a median time of 21 minutes, add only salt to the cooking water, and usually wash the rice before cooking. About half said that they run water through it before it is completely cooked or after it is cooked.

Most of them said they preferred to have the grains stand apart

Most of them said they preferred to have the grains stand apart after cooking. A very few said they had encountered some difficulty in having the rice cook up as they liked it (tables 28-32, 34, and 36).

### Seasonal Variation

Seasons of the year when homemakers increase the use of rice.—A majority of the Chicago homemakers said they used more rice at certain times of the year. Most of this group reported that more rice was used during the cooler weather, particularly during winter. The more frequently mentioned reasons for using a greater quantity during cooler weather were:

60 percent said: "Family members have better appetites—need hotter, more filling meals."

30 percent said: "Cooler weather is more conducive to cooking."

18 percent said: "Rice is suitable for cooler weather—provides warmth, energy."

In comparison with the United States, the Chicago homemakers seemed slightly more concerned with the comfort of cooking during cooler weather (tables 42-44).

#### Brown Rice

Almost three in four Chicago homemakers said they had heard of brown rice. Of this group almost half said they had used it. In this way, Chicago showed greater awareness of brown rice but no higher evidence of usage than the United States as a whole (tables 45, 46).

## Quick-Cooking Rice

Regarding quick-cooking rice, a considerably higher proportion had heard of it, a larger proportion had tried it, but about the same proportion said they liked it as in the total United States (tables 53-55).

In the		
United		
States	In Chicago	
52	81	percent had heard of quick-cooking rice.
46	61	percent of those who had heard of it had tried it.
54	59	percent of those who had tried it liked it.

## Ready-To-Eat Breakfast Foods

Use of rice breakfast foods.—The results of the Chicago survey show that 7 in 10 homemakers had used breakfast foods made of rice. Of this group, the following proportions reported using each of the three kinds:

94 percent said they had used rice crispies. 75 percent said they had used puffed rice. 45 percent said they had used rice flakes.

Chicago and the United States reported about the same for rice crispies and for puffed rice. Rice flakes apparently were more popular in Chicago than in the rest of the United States (tables 59, 60).

As in the United States, most of these users of breakfast foods indicated that they had had experience with a number of these rice products. Chicago homemakers were more likely to use all three foods than were the United States homemakers (table 61).

Frequency of use of rice breakfast foods.—As was true of the United States, Chicago users of these rice breakfast foods said they served them rather often—almost 7 in 10 served them at least once

a week (table 62).

Relation between presence of children and use of rice breakfast foods.—In Chicago, as in the United States, families with children <sup>19</sup> were more likely to use rice breakfast foods than were the all-adult families. However, Chicago families with children showed an even higher proportion using them (table 63).

In the United States In Chicago

78 89 percent of families with children used rice breakfast foods.

Among families consisting of both young and old, a comparison of adult use against use by children shows results almost identical to results for the United States (table 64).

# Purchases-Type, Size, and Frequency

Homemakers who buy rice in a box, a bag, or loose.—Virtually all the Chicago homemakers who used rice indicated that they bought it in boxes. Only 5 percent said that they bought it in bags and

 $<sup>^{19}</sup>$  Fifty percent of the rice breakfast food users in Chicago said they had children under 18 years of age.

1 percent mentioned buying it loose. Packaged rice was a more usual purchase in Chicago than in the United States (table 67).

In the United States In Chicago

93 percent said they usually buy rice in a box.

Preferences for different kinds of packaging.—As in the United States as a whole, the Chicago homemakers indicated that there was no great difference between "usual purchase" and "preferred purchase," and most of them said they preferred boxes (table 68).

In the UnitedStates

In Chicago percent said they preferred rice in boxes.

Usual size of rice purchase.—More Chicago homemakers reported buying small units than did homemakers in the United States (table 71).

In the United States In Chicago percent said they usually buy 1 pound or less at a time. percent said they usually buy 2 pounds at a time. percent said they usually buy 3 pounds or more at a time. 21 27 14

Frequency of purchase. For the most part, homemakers in Chicago buy rice rather infrequently. Individual frequency groups are almost the same as in the United States as a whole (table 74).

#### **Brand Preferences**

Preferences for brands of rice.—In the United States and Chicago only about a third said that they preferred a particular brand. The two-thirds who said they did not favor one particular brand over others gave about the same reasons in both surveys (tables 75, 76).

# Recipes on Packages

Homemakers who are aware of recipes on packages of rice.— Chicago homemakers who reported buying packaged rice were more aware of printed recipes on packages than were homemakers in the United States survey (table 80).

In the UnitedStates In Chicago

63 percent reported noticing recipes printed on packages.

Homemakers who use recipes on packages .-- Among the Chicago homemakers who said they knew of the recipes printed on the packages of rice, 56 percent said they did not follow these instructions—they relied on their memory.

Even though only 44 percent of the homemakers said they followed the recipes, a very high proportion wanted them continued on the packages because they are a source of new ideas and are useful to inexperienced cooks (tables 81-84).

In the United

States In Chicago

68 83

percent said they would like to have recipes continued on packages.

# Suggestions for Increasing the Use of Rice

Homemakers who made suggestions.—In the urban survey, 8 in 10 respondents made specific suggestions for increasing the consumption of rice. The homemakers in this sample were more resourceful in this respect than those in the national sample (table 85).

In the United States In Chicago

percent made specific suggestions.

Kinds of suggestions made by homemakers.—The media mentioned in Chicago closely paralleled the results for the United States. Printed forms were suggested most often, radio was second, and stores

ranked a close third (table 86).

Regarding the course of action which might be taken, Chicago home-makers' suggestions were similar to those made by the United States respondents. Chicago showed a slightly greater interest in the distribution of recipes—more than half made this suggestion. The next largest group of suggestions centered around advertising. Reductions in price were mentioned by fewer than 1 in 5 (table 87).

# Price—Inducements and Comparison

Price inducements.—In both studies, 7 in 10 said that they would not increase their purchases of rice even if the price were lowered.

Three in ten said they would buy more (table 88).

**Price comparison.**—A comparison of Chicago and United States homemakers regarding their appraisal of the relative cost of rice and potatoes, indicates that the city homemakers were more likely to consider rice the cheaper product. Almost half of the Chicago respondents thought rice was less expensive than potatoes (table 90).

 $_{United}^{In\ the}$ 

States In Chicago

34 46 percent said potatoes cost more to serve. 18 19 percent said they cost the same to serve. 24 15 percent said they cost less to serve.

Selling price.—Chicago homemakers appeared more likely to know the present selling price of rice than did the homemakers in the United States.

In the United

States In Chicago

54 64 percent said they knew the selling price of rice.

In both surveys, prices were reported as ranging from less than 15 cents to more than 40 cents a pound—with a median price of 21 cents (table 91).

# Food Values of White and Brown Rice

A large majority of the Chicago homemakers were able to give an answer to the question about nutritive qualities of white rice. A smaller proportion knew the food values of brown rice. Those who discussed white rice, mentioned starch and carbohydrate content most often. Those who were familiar with some of the food values of brown rice were less likely to mention starch and more likely to emphasize vitamins. A larger proportion of Chicago respondents had something to say about food values than was true among the United States homemakers.

In the United			
States	In	Chic	ago
7.0		29	. 2001

percent mentioned some item of food value in white rice. percent mentioned some item of food value in brown rice.

# Grain Lengths

On the whole, Chicago respondents were considerably more aware of different grain lengths than were the United States respondents.

In the United In Chicago States

62 percent of the homemakers said they had heard of different grain lengths.

But here, as in the national survey, there is evidence for the conclusion that many who said they had heard of more than one length were only guessing in answer to the question; and that only a small percentage of the users actually knew that there are other grain lengths in addition to the popularly advertised long-grain type (table 95).

# APPENDIX

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12011 1200 120 120 120 120 120 120 120 1		19, 21, 25, 26, 27
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5		

### Tables

Table 4.—Replies to the question: "I'd like to know if you use rice in your home?"

	All homemakers				
. Replies				icago rcent)	
Use rice at present  Do not use rice at present 1  Have used in the past  Have never used	9	88 12	7	92 8	
Total		100		100	
Number of homemakers		2, 283		241	

<sup>&</sup>lt;sup>1</sup> This part of the table was prepared from the results of a second question. Homemakers who said they were not using rice were asked, "Have you ever used rice?"

Table 5.—(If mentioned using rice in the past) Replies to the question: "How does it happen that you stopped using it?"

Family members didn't like rice	Reasons for discontinuing use		Homemakers who had used rice in the past
War scarcity broke habit of using it	amily members who once ate it no longer at non- equired too much time to prepare; too much bot poetor's orders: dietary restrictions	tner	6 1
	Tog too starchy too fattening		

Percentages total to more than 100 because many nonusers gave more than 1 reason.

Table 6.—(If mentioned never using rice) Replies to the question: "How is it that you have never tried rice?"

	Replies	Homemakers who had never used rice

<sup>&</sup>lt;sup>1</sup> Percentages total to more than 100 because some nonusers mentioned more than 1 reason.

Table 7.—Relation between size of homemaker's family and reported use of rice

	Size of family <sup>1</sup>			
Use of rice	Small 2	Medium- sized <sup>3</sup>	Large 4	
Use rice at present Do not use at present	Percent 83 17	Percent 89 11	Percent 95	
Total	100	100	100	
Number of homemakers	801	933	544	

<sup>&</sup>lt;sup>1</sup> The sum of the 3 family groups does not equal the total number of interviews because complete information as to family size was not ascertained in 5 cases.

<sup>2</sup> 1- or 2-person families.

<sup>3</sup> 3- or 4-person families.

Table 8.—Relation between family income and reported use of rice

	Income groups <sup>1</sup>			
Use of rice	Lower	Middle	Upper	
Use rice at present Do not use at present	Percent 85 15	Percent 89 11	Percent 92	
Total	100	100	100	
Number of homemakers	700	704	706	

<sup>&</sup>lt;sup>1</sup> Income was not ascertained in 173 cases, or 8 percent of the sample.

<sup>&</sup>lt;sup>4</sup> 5- or more-person families.

Table 9.—Replies to the question: "About how often would you say that you serve rice this time of year?"

	Hor	nemakers	who used	rice
Frequency of use		States cent)	Chicago (percent)	
Infrequent users  Less than 4 times a month  Less than 1 time a month	12 31	43	8 35	43
Moderate users				
4 to 15 times a month  4 times a month  5 to 7 times a month  8 times a month  9 to 11 times a month  12 times a month  13 to 15 times a month	18 3 14 1 8 (1)	44	21 5 13 1 10	50
Frequent users				
16 or more times a month	4 9	13	3 4	7
Total		100		100
Number of homemakers		2, 019		222

<sup>&</sup>lt;sup>1</sup> Less than 1 percent.

Table 10.—Relation between reported frequency of use of rice and size of homemaker's family

Size of family <sup>1</sup>			Frequency of use			
. · ·	Size of	ramny r		 Infrequent users	Moderate users	Frequent users
Small Medium_ Large				Percent 38 43 19	Percent 30 42 28	Percent 26 36 38
То	tal			 100	100	100
Number	of homemake	rs		 861	895	255

<sup>&</sup>lt;sup>1</sup> As defined in this study: small families contained 1 or 2 persons, mediumsized families contained 3 or 4 persons, and large families contained 5 or more persons.

Table 11.—Relation between reported frequency of use of rice and level of family income

· Tour	Frequency of use			
Income groups	Infrequent users	Moderate users	Frequent users	
Lower	Percent 25 30 37 8	Percent 28 34 31 7	Percent 49 26 17 8	
Total	100	100	100	
Number of homemakers	861	895	255	

Table 12.—Relation between reported frequency of use of rice and educational level of homemaker

	Frequency of use			
Educational levels	Infrequent users	Moderate users	Frequent users	
No school or attended grammar schoolAttended high schoolAttended college	Percent 30 53 17	Percent 39 47 14	Percent 55 34 11	
Total	100	100	100	
Number of homemakers	861	895	255	

Table 13.—Replies to the question: "What would you say are the main reasons why you use rice?"

			Hon	nema	kers v	vho t	sed r	ice			
Replies	All users (per- cent) <sup>1</sup>		(per- users users		$\begin{array}{c cccc} \text{All users} & \text{quent} & \text{inoder} \\ \text{(per-} & \text{users} & \text{(per-} \\ \text{cent)} & \text{(per-} & \text{(per-} \end{array}$		ers er-	Freq use (pe	ers (pe		r-
Factors of taste Tasted good—family	*0	64		60		60	40	73		64	
liked it Combined well, added flavor to specific	53		43		59		68		51		
foods—meats, soups, etc Made a good dessert	14 4		16 7		13 2		9		$rac{24}{8}$		
Was a good breakfast food	1		1		1		2				
Factors of variety		40		49		39		9	:	42	
Added variety to the meal—general	20		27		19		3		18		
Was used in place of potatoes	16		17		17	-	- 5		23		
Was used in place of cereal pastes—spa- ghetti, macaroni	2		2		2		(2)				
Was used in place of other desserts Was used in place of	2		4		1						
other starches Miscellaneous	$\frac{2}{3}$		1 4		3	-	1 1	-	<u>-</u> 2		
Factors of health		35		28	8	. 39		48		3	
ishing foodContained starch, car-	18		14	-1	20		26		19		
bohydrates Was a filling, substan-	-11		9		12		13		9		
tial food Was easily digestible Was good for certain	7 4		$\frac{6}{2}$		9 5		8 5		8 1		
ailments—high blood pressure, diabetes, etc_ Contained vitamins Miscellaneous	3 3 2		$\begin{bmatrix} 2\\2\\1 \end{bmatrix}$		4 4 1		5 4 1		5 4 2	· · .	
Was a cheap, economical	٠.	1.0		,,		10		16		1	
foodCould be quickly and easily		16 7	- 12 J	$\begin{vmatrix} 14 \\ 3 \end{vmatrix}$		18	1	8		1	
preparedHad always used it—cus- tom, tradition		3		1		3		9	1 .		
Number of homemakers	-	2, 019	====	861		895		255		22	

<sup>&</sup>lt;sup>1</sup> Percentages (in left columns) add to more than their subtotals (in right columns) because some homemakers gave more than 1 reason for using rice.

<sup>2</sup> Less than 1 percent.

	Home	emakers	who us	ed rice
Most important reason	Sta	ited ates cent)		cago cent)
Factors of taste  Tasted good—family likes it Combined well, adds flavor to specific foods— meat, soups, etc Made a good dessert_ Made a good breakfast food	38 6 2 1	47	40 10 1	52
Factors of variety  Added variety to the meal—general  Was used in place of potatoes  Was used in place of the cereal pastes—macaroni, spaghetti  Was used in place of other desserts  Was used in place of other starches	14 7	23	10 10 10 (2)	22
Factors of health  Was a healthful, nourishing food  Contained starch, carbohydrates  Was a filling, substantial food  Was easily digestible  Was good for certain ailments, high blood  pressure, diabetes  Contained vitamins  Was a cheap, economical food  Could be easily and quickly prepared  Had always used it—custom, tradition	2 1	6 2 1	9 4 2 (2) (2) (2)	17 . 5 2 2
Total		100		100
Number of homemakers		2, 019		222

<sup>&</sup>lt;sup>1</sup> This table includes the reasons given by those who mentioned only 1 reason as well as the "most important" reason given by those who mentioned several reasons.

<sup>2</sup> Less than 1 percent.

Table 15.—Major methods reported of preparation of rice

		Homema	kers who	used rice	
${f Method}$	All users	Infrequent users	Moder- ate users	Frequent users	Chicago
Cooked rice separately and mixed in with other foodsOnly cooked mixed with other foodsOnly cooked separatelyUsed only for dessert or breakfast	Percent 53 21 18	Percent 38 30 19 13	Percent 63 17 16 4	Percent 75 5 18 2	Percent 69 10 17 4
Total	100	100	100	100	100
Number of homemakers	2, 019	861	895	255	222

Table 16.—Summary of specific foods homemakers said they served with rice

	wun r	ice			
	United S	TATES			
Replies	Meat	Chicken	Vege- tables	Fish	Sea- food
Served rice with Did not serve rice with	Percent 69 31	Percent 48 52	Percent 39 61	Percent 10 90	Percent
Total	100	100	100	100	100
Number of homemakers	2, 019	2, 019	2, 019	2, 019	2, 019
	Сніса	GO			-
Served rice with Did not serve rice with	Percent 71 29	Percent 45 55	Percent 38 62	Percent 9 91	Percent 9
Total	100	100	100	100	100
Number of homemakers	222	222	222	222	222

Table 17.—Specific foods served with rice as reported by the 3 groups of users

		Inf	requent us	sers	
Replies	Meat	Chicken	Vege- tables	Sea- food	Fish
Served rice with Did not serve rice with	Percent 57 43	Percent 30 70	Percent 29 71	Percent 5 95	Percent 95
Total	100	100	100	100	100
Number of homemakers	861	861	861	861	861
		Mo	oderate us	ers	
Replies	Meat	Chicken	Vege- tables	Sea- food	Fish
Served rice with Did not serve rice with	Percent 76 24	Percent 58 42	Percent 42 58	Percent 11 89	Percent
Total	100	100	100	100	100
Number of homemakers	895	895	895	895	895
		Fr	equent us	ers	
Replies	Meat	Chicken	Vege- tables	Sea- food	Fish
Served rice with Did not serve rice with	Percent 93	Percent 78 22	Percent 60 40	Percent 25 75	Percent 30 70
Total	100	100	100	100	100
Number of homemakers	255	255	255	255	${255}$

		Homem	akers	who	used	rice	with	other	food	<b>s</b>
Number of ways used	All users quent (percent) users		All users quent ate (percent) users users			us	quent ers cent)	On	cago cent)	
1 or 2 ways 1 way only 2 ways	21 21	42	35 27	62	12 21	33	6	12	$\begin{array}{c} 12 \\ 24 \end{array}$	36
3 or 4 ways 3 ways 4 ways	18 14	32	17 11	28	21 21 17	38	14 16	30	20 20	40
5 or more ways	11 6 4 5	26	5 2 2 1	10	13 7 4 5	29	19 13 10 16	58	8 8 5 3	24
Total		100		100	-	100	1.	100		100
Number of homemakers 2		1, 853		745		858		250		214

<sup>&</sup>lt;sup>1</sup> Number of ways in this table refers to "cooking rice separately" and "cooking rice with" each of the 5 food classes, see p. 12.

<sup>2</sup> The number of homemakers shown here differ from the regular number using

<sup>&</sup>lt;sup>2</sup> The number of homemakers shown here differ from the regular number using rice, as this analysis pertains only to those who prepared rice according to the first 2 methods of preparation. Those using rice only for breakfast and/or dessert are excluded.

Table 19.—Homemakers who said they cook rice separately and serve it with specified foods

### UNITED STATES

	Home	makers	who rep	ported s foods	erving 1	rice witl	n other
Serving	Meat	Chick- en	Vege- tables	Gravy	Chi- nese dishes	Fish	Sea- food
Served rice with Did not serve rice with	Per- cent 69 31	Per- cent 54 46	Per- cent 36 64	Per- cent 21 79	Per- cent 13 87	Per- cent 12 88	Per- cent 11 89
Total	100	100	100	100	100	100	100
Number of homemakers	1, 438	1, 438	1, 438	1, 438	1, 438	1, 438	1, 438
	. (	CHICAGO	)				
Served rice with Did not serve rice with Not ascertained	Per- cent 64 35 1	Per- cent 41 57 2	Per- cent 25 72 3	Per- cent 20 77 3	Per- cent 43 54 3	Per- cent 7 90 3	Per- cent 9 87 4 100
Number of homemakers	191	191	191	191	191	191	191

Table 20.—Reported frequency of serving rice with specified foods

		Н	me	mak	ers	who serv	coo ed i	ked t wi	rice th—	sepa	arat	ely a	and
Frequency of servings	(p	eat er- nt)	(1	ish er- nt)	(p	ick- n er- nt)	tal (r me (p	ge- oles no eat) er- nt)	me (p	avy no eat) er- nt)	fo (p	ea- od er- nt)	Chi- nese dishes (per- cent)
2 or more times a month 2 to 3 times a month 5 to 8 times a month 5 or more times a month 1 time or less a month 1	16 26 8		19 26 4		18 24 3	-	16 19 6	7	12 20 5		14 9 3		22 11 8 2
Less than 1 time a month  1 time a month  Not ascertained	15 24		20 23		21 29		20 27	9	18 29		42 26		72 36 36 6
TotalNumber of homemakers		100 997		100 170		100 770	==	100 515		100 305		$\frac{100}{165}$	100

Table 21.—Homemakers who said they cooked rice mixed with specified foods

### UNITED STATES

	Hom		s who re		cooking oods	g rice
Cooking method	Meat	Soups	Chick- en	Vege- tables (plain)	Sea- food	Fish
Cooked rice mixed with Did not cook rice mixed with	Per- cent 57 43	Per- cent 54 46	Per- cent 32 68	Per- cent 29 71	Per- cent 6 94	Per- cent 3 97
Total	100	100	100	100	100	100
Number of homemakers	1, 500	1, 500	1, 500	1, 500	1, 500	1, 500
(	Эніслес	)		·		
Cooked rice mixed with Did not cook rice mixed with Not ascertained Total	Per- cent 52 41 7	Per- cent 61 33 6 100	Per- cent 25 68 7	Per- cent 29 66 5	Per- cent 3 86 11 100	Per- cent 5 85 10 100
Number of homemakers	176	176	176	176	176	176

Table 22.—Reported frequency of cooking rice mixed with specified foods 1

	Но	memal	cers w	ho coo	ked ri	ce mix	ed wit	h—
Frequency of cooking	Meat (percent)			up cent)	(no r	cables neat) cent)		cken cent)
2 or more times a month	18 15 7 25 31	40 56	20 18 7 24 27	45 51	12 12 7 28 35	31 63	15 12 1 33 35	28 68
Not ascertained		4		4		6		4
Total		100		100		100		100
Number of homemakers		861		808		442		486

Data for fish and seafood are omitted because so few homemakers reported cooking rice with these foods.

 $\begin{array}{c} {\rm Table} \ 23. -\!Reported \ frequency \ of \ serving \ cooked \ rice \ for \ the \ breakfast \\ meal \end{array}$ 

	Homemakers who served cooked rice for breakfast									
Frequency of servings	All users (percent)		Infrequent users (percent)		us	erate ers cent)	Frequent users (percent)			
4 times a month or less Less than 1 time a month_ 1 to 3 times a month 4 times a month	21 28 21	70	56 34 4	94	12 35 31	78	$1 \\ 12 \\ 22$	35		
5 or more times a month 5 to 8 times a month 9 or more times a month	9 14	23			11 4	15	16 40	56		
Not ascertained		7		6		7		9		
Total		100		100		100		100		
Number of homemakers		393		108		169		115		

 $\begin{array}{c} {\rm Table} \ 24. -How \ homemakers \ reported \ serving \ cooked \ rice \ for \\ breakfast \end{array}$ 

Way of serving	Homemakers who served cooked rice for breakfast
With sugar, cream, butter	Percent 1 80 22 2 2 2 2 2 2
Number of homemakers	393

 $<sup>^1\,\</sup>rm Percentages$  total to more than 100 because some homemakers mentioned more than 1 way of serving cooked rice for breakfast.

Table 25.—Reported frequency of serving rice as a dessert

	Но	Homemakers who served rice as a dessert				
Frequency of serving	All users	Infrequent users	Mod- erate users	Fre- quent users	Chicago	
Less than 1 time a month  1 to 3 times a month  4 times a month  5 to 8 times a month  9 or more times a month  Not ascertained	31 46 15 5	Percent 53 42 2 3	Percent 15 53 24 5 1 2	Percent 8 37 28 15 9 3	Percent 28 57 11 3 1	
Total	100	100	100	100	100	
Number of homemakers	1, 544	659	692	187	150	

Table 26.—Replies to the question: "When do you usually serve the main meal of the day?"

Time of serving main meel	Homemakers who used rice	
Time of serving main meal	United States	Chicago
In the eveningAt middayAt midday and in the eveningNot ascertained	Percent 69 24 6 1	Percent 91 5 3 1
Total	100	100
Number of homemakers	2, 019	222

Table 27.—Relation between main meal of the day and meals at which rice is reported most frequently served

	Homems served t	Homemakers who usually served their main meal in the—		
Meal at which rice is most frequently served	United	United States Chi		
	Evening	Midday	Evening	
Evening meal  Midday meal  Midday and evening meals  Breakfast  Not ascertained	5	Percent 60 17 11 6 6	Percent 88 6 2 2 2 2	
Total	100	100	100	
Number of homemakers	1, 385	491	201	

Table 28.—Replies to the question: "How do you cook plain rice, that is, what kind of a pot do you use?"

		kers who
Method of cooking	United	Chicago
	States	Cincago
	Percent 59	Percent 62
Plain pot Top of double boiler	21	16
Pressure cooker	4	5
Pressure cookerSteamed over water	3	4
Both plain pot and double boiler	5	7
Other waysNot ascertained	4	5
Total	100	100
Number of homemakers 1	1, 895	215

<sup>1</sup> Those who reported using rice only for desserts are excluded from this tabulation.

Table 29.—Relation between kind of cooking utensil used and length of cooking time reported

Langth of eaching time	Homen	Home- makers		
Length of cooking time	Plain pot	Double boiler	Pressure cooker	who used rice in Chicago
10 minutes or less	25 11 26 2 3 5	Percent 4 5 12 7 19 6 3 9 19 7 9	Percent 76 12 7 1 3	Percent 10 12 26 9 21 4 3 5 6
Total	100	100	100	100
Number of homemakers  Median cooking time reported	1, 115 Minutes 25	393 Minutes 30	83 Minutes 7	222 Minutes 21

Table 30.—Replies to the question: "Do you usually wash the rice before you cook it?"

m Replies	Homemakers who used rice <sup>1</sup>		
Teephes	United States	Chicago	
Usually washed the rice Did not usually wash the rice Not ascertained	Percent 90 9	Percent 92 7	
Total	100	100	
Number of homemakers	1, 895	215	

<sup>&</sup>lt;sup>1</sup> Homemakers who used rice only for dessert are not included in these tabulations.

. Table 31.—Replies to the question: "Do you usually run water through the rice either during or after you have cooked it?"

	Homemakers who used rice <sup>1</sup>				
Replies	All users	Infrequent users	Moder- ate users	Fre- quent users	Chicago
Ran water through the rice Did not run water through the	Percent 44	Percent 45	Percent 46	Percent 38	Percent 52
riceNot ascertained	$\begin{array}{c} 54 \\ 2 \end{array}$	53 2	52 2	62	45 3
Total	100	100	100	100	100
Number of homemakers	1, 895	760	873	255	215

<sup>&</sup>lt;sup>1</sup> Homemakers who used rice only for dessert are not included in these tabulations.

Table 32.—Replies to the question: "Do you add anything to the water you cook rice in besides salt?"

	Homemakers who used rice		
Replies	United States	Chicago	
Did not add anything to the waterAdded things to the waterNot ascertained	Percent 90 8	Percent 88 9 3	
Total	100	100	
Number of homemakers	2, 019	222	

Table 33.—(If add other things to the water) Replies to the question: "What do you add to the water?"

Ingredients added to water	Homemakers who added other things to the water besides salt
Butter, other fats	Percent 33 33 16 9 9
Total	100
Number of homemakers	153

Table 34.—Replies to the question: "Some rice cooks up so that each grain stands out by itself and some cooks up so that the grains sort of stick together. Which way do you like it?"

	Homemakers who used rice				
Replies	All users	Infrequent users	Moder- ate users	Frequent users	Chicago
Preferred rice grains to be separate from each other	Percent 84	Percent 82	Percent 85	Percent 87	Percent 91
Preferred rice grains to stick together	$\begin{array}{c} 12 \\ 2 \end{array}$	13 2	12 1	10 1	6 1
Depended on type of food pre- pared Not ascertained	1 1	$\frac{1}{2}$	1 1	1	1 1
Total	100	100	100	100	100
Number of homemakers 1	1, 895	760	873	255	215

 $<sup>^{\</sup>rm 1}$  Those who reported using rice only for desserts are excluded from this classification.

Homemakers who cooked rice in a plain pot			
Preferred grains to remain sepa- rate	Preferred gra to stick toget		
7 26 11 26 2 3 6 6	Percent	$\begin{array}{c} 5 \\ 6 \\ 23 \\ 10 \\ 30 \\ 1 \\ 3 \\ 4 \\ 7 \\ 2 \end{array}$	
100		100	
Minutes 25	Minutes	148 26	
	Preferred grains to remain separate  Percent  5 7 26 11 26 2 3 6 6 6 1 7 7 100 928  Minutes	Preferred grains to remain separate	

 $<sup>^{\</sup>rm 1}$  Comparisons for other types of cooking vessels cannot be made because of the small number of cases.

Table 36.—Replies to the question: "Do you find that you have any particular trouble having rice cook up as you like it?"

Doubles	Homemakers who used rice		
Replies	United States	Chicago	
Had had no trouble cooking rice as preferred Had had some difficulty cooking rice as preferred Not ascertained	Percent 86 13 1	Percent 86 13 1	
Total	100	100	
Number of homemakers	2, 019	222	

Table 37.—(Among those who reported having had difficulty) Replies to the question: "What sort of difficulty have you had?"

Replies	Homemakers who reported having had difficulty
Rice was sticky, gummy; grains were not separate Rice had some hard parts; didn't cook up evenly Miscellaneous difficulties	Percent 84 13 3
Total	100
Number of homemakers	273

Table 38.—Replies to the question: "When you don't serve rice, do you use anything else in place of rice?"

Replies	Homemakers who served rice four or more times a week
Used other foods in place of rice Did not use other foods in place of rice Not ascertained	19
Total	100
Number of homemakers	255

Table 39.—(If uses other foods in place of rice) Replies to the question: "What do you usually serve in place of rice?"

Replies	Frequent rice users who served other foods in place of rice
PotatoesCereal pastes (spaghetti, macaroni, noodles)	13 6 6 4
Number of homemakers	196

 $<sup>^{\</sup>rm 1}$  Percentages total to more than 100 because many homemakers mentioned more than 1 food which they used in place of rice.

Table 40.—Frequency of serving foods in place of rice 1

Frequent rice users who served other foods in place of rice
Percent 36 31 20 13
100
196

<sup>&</sup>lt;sup>1</sup> This summary table is based on answers to the question: "About how often do you serve them (these foods)?" As separate distributions could not be shown for each food because of the small number of cases, the percentages shown represent a total for all the foods used.

Table 41.—(If uses other foods in place of rice) Replies to the question: "Do you feel that it costs more, the same, or less to serve them than rice?"

Replies	Foods used in place of rice
Specific foods cost more than riceSpecific foods cost the same as riceSpecific foods cost less than rice	Percent 26 33 41
Total	100
Number of specific foods reported	351

Table 42.—Replies to the question: "Do you find that you use more rice at certain times of the year than at other times?"

	Homemakers who used rice				
Replies	All users	Infrequent users	Mod- erate users	Fre- quent users	Chicago
Used more at certain times of year	Percent 58 41 1	Percent 57 42 1	Percent 62 37 1	Percent 52 46 2	Percent 58 41 1
Total	100	100	100	100	100
Number of homemakers	2, 019	861	895	255	222

Table 43.—(If uses more rice at certain times of the year) Replies to the question: "When do you use more?"

	Homemakers who used more rice at certain times of the year									
Replies		users rcent)	qu us	fre- ent ers cent)	er	od- ate ers cent)	qu us	re- ent ers cent)	Chic	cago eent)
Used more in cooler weather	77 14 3	94	81 10 4	95	77 17 2	96	67 13 6	86	77 17 2	96
Used more in warmer weather Summer Spring	$\frac{4}{2}$	6	4	5	3 1	4	10 4	14	3	4
Total		100		100		100		100		100
Number of homemakers		1, 176		488		552		133		128

Table 44.—Reasons homemakers give for using more rice during the fall and winter seasons  $^{1}$ 

Reasons	used m during	Homemakers who used more rice during fall and winter seasons		
	United States	Chicago		
Family members had better appetites—ate hotter, more filling meals.	Percent <sup>2</sup>	Percent <sup>2</sup>		
Cooler weather more conducive to cooking	21	30		
Rice suitable for cooler weather—provided warmth, energy——Rice used as replacement for specific foods of poor quality,	16	18		
high priced, or unavailable during cooler weather	12	2		
Miscellaneous reasons	7	4		
Not ascertained	4	6		
Number of homemakers	1, 109	123		
·				

<sup>&</sup>lt;sup>1</sup> As only 3 percent of the homemakers mentioned using more rice during warmer weather, reasons for doing so are not shown.

2 Percentages total to more than 100 because some homemakers mentioned

more than 1 reason for using more rice during fall and winter.

Table 45.—Replies to the question: "Have you heard of BROWN rice?"

	Homemakers who used rice				
Replies	All users	Infrequent users	Mod- erate users	Fre- quent users	Chicago
Had heard of brown riceHad not heard of brown rice	Percent 66 34	Percent 67 33	Percent 64 36	Percent 65 35	Percent 74 26
Total	100	100	100	100	100
Number of homemakers	2, 019	861	895	255	222

Table 46.—Replies to the question: "Have you ever used brown rice?"

	Homemakers who said they had heard of brown rice					
Replies	All users	Infrequent users	Mod- erate users	Frequent users	Chi- cago	
Had not used brown riceHad used brown rice	Percent 57 43	Percent 65 35	Percent 53 47	Percent 48 52	Percent 54 46	
Total	100	100	100	100	100	
Number of homemakers	1, 323	577	576	166	165	

Table 47.—(If used brown rice) Replies to the question: "Did you like it?"

	Homemakers who used brown rice					
Replies	All users	Infrequent users	Moderate users	Frequent users		
Did not like brown rice Liked brown rice	Percent 56 44	Percent 54 46	Percent 54 46	Percent 69 31		
Total	100	100	100	100		
Number of homemakers	563	200	273	86		

Table 48.—Replies to the question: "Do you like to use brown rice for all rice cooking or just some rice cooking?"

Replies	Homemakers who liked brown rice
Liked to use it for some rice cooking	Percent 63 31 6
Total	100
Number of homemakers	245

Table 49.—(If likes brown rice and prefers to use it for only some kinds of cooking) Replies to the question: "Which things do you like to use brown rice with?"

Replies	Homemakers who preferred to use brown rice for some cooking
Meat or stuffing for meat or fowl	Percent 1 36 28 18 9 3 3 10
Number of homemakers	154

 $<sup>^{1}\</sup>operatorname{Percentages}$  total to more than 100 because some homemakers mentioned more than 1 recipe.

Table 50.—(If likes brown rice and prefers to use brown rice for all rice cooking) Reasons homemakers give for preference

	Reasons		Homemakers who preferred to use brown rice for all rice cooking
Had more food value, general.  Tasted good, had good Was as good as white in Contained vitamins.  Fluffed up, grains stood Miscellaneous reasons.  Not ascertained.	flavorice—generalI		Percent 1 30 26 17 11 3 9
Number of homemaker	S	·	76

<sup>&</sup>lt;sup>1</sup> Percentages total to more than 100 because some homemakers mentioned more than 1 reason for preferring brown rice for all rice cooking.

Table 51.—(If liked brown rice) Replies to the question: "If you can't get brown rice, do you usually use white rice instead, or do you skip the recipe until you can get brown rice?"

Replies	Homemakers who liked brown rice
Used white rice instead	Percent 85 9 6
Total	100
Number of homemakers	245

Table 52.—(If heard of brown rice) Replies to the question: "Can you usually buy brown rice in the stores?"

	Homemakers who had heard o			
Replies	Total	Have used brown rice	Have not used brown rice	
Were usually able to buy it	Percent 41 41 17 1	Percent 60 21 19	Percent 28 56 16	
Total	100	100	100	
Number of homemakers	1, 323	563	760	

Table 53.—Replies to the question: "Have you heard of quick-cooking rice?"

Replies	Homemakers who used rice					
	All users	Infrequent users	Mod- erate users	Frequent users	Chi- cago	
Had heard of quick-cooking rice Had not heard of quick-cooking	Percent 52	Percent 49	Percent 55	Percent 51	Percent 81	
riceNot ascertained	4 <b>7</b> 1	50 1	44	(1) 49	18 1	
Total	100	100	100	100	100	
Number of homemakers	2, 019	861	895	255	222	

<sup>&</sup>lt;sup>1</sup> Less than 1 percent.

Table 54.—(If had heard of quick-cooking rice) Replies to the question: "Have you ever used any quick-cooking rice?"

	Homemakers who had heard of quick-cooking rice					
Replies	All users	Infrequent users	Moder- ate users	Frequent users	Chicago	
Had not used quick-cooking rice_ Had used quick-cooking rice	Percent 54 46	Percent 56 44	Percent 54 46	Percent 48 52	Percent 39 61	
Total	100	100	100	100	100	
Number of homemakers	1, 046	424	491	129	179	

Table 55.—(If used quick-cooking rice) Replies to the question: "Did you like it?"

	Homemakers who used quick-cooking rice					
Replies	All users	Infrequent users	Moder- ate users	Frequent users	Chicago	
Liked quick-cooking rice Did not like quick-cooking rice	Percent 54 46	Percent 57 43	Percent 56 44	Percent 40 60	Percent 59 41	
Total	100	100	100	100	100	
Number of homemakers	484	188	228	67	109	

Table 56.—(If liked quick-cooking rice) Replies to the question: "What did you particularly like about it?"

Replies	Homemakers who liked quick-cook- ing rice
Cooked up quickly and easily— Grains stood out, were dry and flaky— Tasted as good as regular rice— Was clean, didn't have to be washed— Cooked up soft, tender— Was not as starchy as regular rice— Miscellaneous reasons—	$\begin{bmatrix} & & 12 \\ & & 3 \\ & & 2 \\ & & 2 \end{bmatrix}$
Number of homemakers	268

<sup>&</sup>lt;sup>1</sup> Percentages total to more than 100 because some homemakers mentioned more than 1 reason for liking quick-cooking rice.

Table 57.—(If disliked quick-cooking rice) Replies to the question: "What did you particularly dislike about it?"

Replies	Homemakers who disliked quick- cooking rice
Was too mushy—the grains did not remain apart	45 14
in processing it Was not as filling as regular rice	3 3
Miscellaneous reasons	15
Number of homemakers	221

 $<sup>^1\,\</sup>rm Percentages$  total to more than 100 because some homemakers mentioned more than 1 reason for not liking quick-cooking rice.

Table 58.—(If heard of quick-cooking rice) Replies to the question: "Can you usually buy quick-cooking rice in the stores?"

	Homemakers who had heard of quick-cooking rice			
Replies	Total	Had used quick-cooking rice	Had not used quick- cooking rice	
Were usually able to buy it	Percent 62 29 7 2	Percent 82 11 5 2	Percent 45 44 9 2	
Total	100	100	100	
Number of homemakers	1, 046	484	562	

Table 59.—Replies to the question: "Do you ever use breakfast cereals made of rice?"

	Home- makers	Home	Home-		
Replies	in United States	Infrequent users	Moder- ate users	Frequent users	makers in Chi- cago
Had used rice breakfast foods Had not used rice breakfast	Percent 69	Percent 72	Percent 76	Percent 62	Percent 72
foods	100	100	100	100	100
Number of homemakers	2, 283	861	895	255	241

Table 60.—Reported use of the different kinds of rice breakfast foods

	Homemakers who use rice breakfast foods						
Use of breakfast cereals	Uı	nited Sta	tes		Chicago		
	Rice crispies	Puffed rice	Rice flakes	Rice crispies	Puffed rice	Rice flakes	
Said they had usedSaid they had not used	Percent 91 9	Percent 74 26	Percent 34 66	Percent 94 6	Percent 75 25	Percent 45 55	
Total	100	100	100	100	100	100	
Number of homemakers	1, 574	1, 574	1, 574	174	174	174	

Table 61.—(If uses rice breakfast foods) Kinds of rice breakfast foods reported used

Replies	Homemakers who used rice breakfast foods			
		United States (percent) Chicago (percent)		
Used more than 1 kind Rice crispies and puffed rice Rice crispies, puffed rice, and rice flakes Rice crispies and rice flakes Puffed rice and rice flakes Used 1 kind only Rice crispies Puffed rice Rice flakes Not ascertained	37 29 4 (¹) 21 7	70 29	30 38 7 18 6	75 25
Total		100		100
Number of homemakers		1, 574		174

<sup>&</sup>lt;sup>1</sup> Less than 1 percent.

Table 62.—Reported frequency of use of rice breakfast foods

	Homemakers who used rice breakfast foods	
Frequency of use		
	United States	Chicago
	Percent	Percent
Not at all "this time of year"	6	7
Less than 1 time a week	17	20
1 time a week	18	- 18
2 times a week		17
3 times a week	15	14
4 to 6 times a week		$\frac{2}{12}$
7 times a week Not ascertained	16 10	17 5
Total	100	100
Number of homemakers	1, 574	174

Table 63.—Relation between the presence of children and reported use of rice breakfast foods

	Homemakers who used rice breakfast foods					
Use of rice breakfast foods	United	States	Chicago			
	Have children	Do not have children	Have children	Do not have children		
Used rice foods Did not use rice foods	Percent 78 22	Percent 59	Percent 89 11	Percent 58		
Total	100	100	100	100		
Number of homemakers	1, 186	1, 094	114	108		

Table 64.—(If have children under 18 years of age in family) Replies to the questions: "Do the children eat these rice cereals?" "Do the adults eat these rice cereals?"

Replies	Homemakers who used rice cereals		
Teophos	United States	Chicago	
Both children and adults eat themOnly children eat themOnly adults eat them	Percent 73 19 8	Percent 71 16 13	
Total	100	100	
Number of homemakers	928	102	

Table 65.—(If both children and adults use rice breakfast foods) Replies to the question: "Do the children eat them more often than the adults?"

Replies	Homemakers who reported that both children and adults ate rice breakfast foods		
Children used them more frequently than adultsAdults used them as frequently as the children	Percent 73		
Total	100		
Number of homemakers	675		

72

Table 66.—Replies to the question: "Why is it that you do not use breakfast cereals made of rice?"

Replies	Homemakers who did not use rice breakfast foods
Family members preferred other breakfast foods—do not like cereals of any kind————————————————————————————————————	ls 2
Total	10
Number of homemakers	70

Table 67.—Replies to the question: "Do you usually buy rice in a box, bag, or loose out of a bin or bag?"

		Homema	kers who	used rice	:
Replies	All users	Infrequent users	Moder- ate users	Frequent users	Chicago
Bought boxed	Percent 74 20 3 3	Percent 76 17 4 2 1	Percent 77 17 2 3 1	Percent 55 36 5 3	Percent 93 5 1 1 1
Total	100	100	100	100	100
Number of homemakers	2, 019	861	895	255	222

Table 68.—Replies to the question: "Regardless of the way stores usually sell it, which way would you prefer to buy it—in a box, bag, or loose out of a bin or bag?"

	Homemakers who used rice				
Replies	All users	Infre- quent users	Moder- ate users	Fre- quent users	Chicago
Preferred boxed Preferred bagged Preferred loose No preference Not ascertained	Percent 72 17 6 3 2	Percent 77 13 5 3 2	Percent 75 16 5 2 2	Percent 49 34 13 3 1	Percent 89 4 3 3 1
Total	100	100	100	100	100
Number of homemakers	2, 019	861	895	255	222

Table 69.—(If prefer buying rice in box or bag) replies to the question: "Which one of these kinds of packages do you like best?"

Replies		ers who pre- o buy rice
general de la companya del companya del companya de la companya de	Boxes	Bags
Box	Percent 41 53	Percent
Cotton bag Cellophane bag Not ascertained	6	68 3
Total	100	100
Number of homemakers	1, 461	338

Table 70.—Reasons homemakers give for preferring different types of packaging

Reasons for preference	Homen ferre in—		vho pre- ouy rice
	Boxes	Bags	Bulk
Was cleaner, more sanitary Was more convenient to store—won't spill or tip over_ Had good storage qualities—prevents rice from spoiling_ Contained rice of better quality Habit, custom Could see contents Recipes were available on the package Was a more accurate weight Was less expensive, more economical Miscellaneous reasons	64 36 6 6 3 2	Percent <sup>1</sup> 28 8 3 4 47 8 7	Percent <sup>1</sup> 3  1  10  9  13   3  53  10
Number of homemakers	1, 461	338	120
			1

 $<sup>^1</sup>$  Percentages total to more than 100 because some homemakers mentioned more than 1 reason for preferring each type of packaging.

<sup>2</sup> Less than 1 percent.

Table 71.—Replies to the question: "How much rice do you usually buy at one time?"

	Homemakers who used rice				
Size of usual purchase	All users	Infrequent users	Moder- ate users	Frequent users	Chicago
Less than 1 pound	10	Percent 5 72 19 3 (1) 1 (1)	Percent 3 48 34 11 1 2 1	Percent 25 25 28 6 8 8	Percent 4 69 21 2 2 2 (1)
Total	100	100	100	100	100
Number of homemakers	2, 019	861	895	255	222

Less than 1 percent.

Table 72.—(If buys rice in box or bag) Replies to the question: "How much rice do you usually buy at one time?"

Size of usual packaged purchase	Homemakers who usually bought rice in—		
	Boxes	Bags	
Less than 1 pound	26 6 1 1 (1)	Percent 1 37 27 22 3 5 1 1 3	
Total	100	100	
Number of homemakers	1, 487	396	

<sup>&</sup>lt;sup>1</sup> Less than 1 percent.

Table 73.—(If prefer to buy rice in box or bag) Replies to the question: "Regardless of the way packages come now, what size package would you like to be able to buy?"

Preferred size of package		ers who pre- buying rice	
	Boxes	Bags	
Less than 1 pound 1 pound 2 pounds 3 pounds 4 pounds 5 pounds 6 pounds and over Not ascertained	Percent 5 60 26 3 (1) 2 (1) 4	Percent 1 36 27 19 2 5 5 5	
Total	100	100	
Number of homemakers	1, 461	338	

<sup>1</sup> Less than 1 percent.

Table 74.—Replies to the question: "About how often do you usually buy rice?"

			Hon	nemal	kers	who u	sed 1	rice		
Frequency of purchase		All isers ercent)	qu us	fre- ent ers cent)	a us	oder- te sers cent)	us	quent sers cent)		cago cent)
Less than 1 time a month  1 time a year  2 times a year  3 times a year  4 times a year  5 times a year  7 to 11 times a year  1 to 3 times a month  1 time a month  2 times a month	8 8 6 7 1 9 2 25 15	41	17 17 11 12 2 13 2 15	74	1 2 2 5 (1) 8 2 39 22	63	$ \begin{array}{c} 1 \\ {}^{(1)} \\ 2 \\ -1 \\ 1 \\ 13 \\ 23 \end{array} $	38	3 6 4 8 (1) 11 6 30 15	38
3 times a month	$1\\12\\2$	14	1 (1)	5	13 1	14	2 41 11	52	1 11 1	12
Total		100		100		100		100		100
Number of homemakers		2, 019		861		895		255		222

<sup>&</sup>lt;sup>1</sup> Less than 1 percent.

Table 75.—Replies to the question: "When you buy white rice do you usually like to buy one particular brand or name of rice?"

	Homema used	kers who
Replies	United States	Chicago
Had no brand preference	Percent 63 37	Percent 68 32
Total	100	100
Number of homemakers	2, 019	222

Table 76.—(If had no brand preference) Replies to the question: "How does it happen that you have no brand preference?"

m Replies		ers who did fer a parti- and
	United States	Chicago
All rice was about the same; brand name made no differenceBought very little rice	Percent 52 17	Percent 50
Not interested in brands; looked only for particular grain length	8	11
Not interested in brands; looked only for good quality—unbroken, clean looking	5	9
Did not shop personally; did not select brands personally.  Did not patronize 1 particular store; bought more than 1	. 4	3
brand Wartime and postwar scarcity broke habit of looking for	2	3
particular brandsBought rice loose or in large packages with no brand	2	2
name	$egin{array}{c} 1 \ 4 \ 5 \ \end{array}$	$\begin{matrix} 1 \\ 6 \\ 2 \end{matrix}$
Total	100	100
Number of homemakers	1, 276	150

Table 77.—(If prefer a particular brand) Replies to the question: "Which brand do you like best?"

,	Type of rice <sup>1</sup>	Homemakers who preferred a particular brand
	<u> </u>	
		Percent
Regular		60
Vitamin-added		
Parboiled		10
Quick-cooking		
Not ascertained		
Total		100
Number of homemaker	S	743

<sup>&</sup>lt;sup>1</sup> The replies to this question were actual brand names. However, because the purpose of the question was not to learn the names themselves, but to learn something of preferences for types of processed rice, the brand names were coded by type and not by actual name.

Table 78.—(If expressed a preference for a particular brand) Replies to the question: "What are the things you like about this particular brand?"

	Homemakers who preferred a particular brand				
Replies	All pre- ferred brands <sup>1</sup>	Regular rice	Vitamin- added rice		
Cooking qualities: Grains stood apart; rice was dry, flaky_ Cooked up quickly, easily Cooked up as preferred—general Had a good flavor—tastes good Cooked up soft, tender Was not too starchy_ Cooked up white Miscellaneous cooking qualities	Percent <sup>2</sup> 47 14 6 7 5 3 3 2	Percent <sup>2</sup> 43 8 7 7 4 2 2 2 2	Percent <sup>2</sup> 47 10 5 4 8 3 3 2		
Appearance qualities:  Was clean; no black spots	15	18 16 5 4 3	22 16 6 5 2		
Was dependable—always of good quality—Habit, custom————Number of homemakers————————————————————————————————————	$64\\667$	$\begin{array}{c} 7\\4\\443\end{array}$	3 8 116		

<sup>&</sup>lt;sup>1</sup> Reasons given for preferring the parboiled rice and the quick-cooking rice are not shown because so few homemakers expressed a preference for these 2 kinds.

Table 79.—(If preferred a particular brand) Replies to the question: "Is there anything you don't like about this brand?"

	Homemakers who preferred a particular brand				
Replies	All pre- ferred brands	Regular rice	Vitamin- added rice		
Did not dislike anything about the brand Disliked certain things about the brand Not ascertained	Percent 95 4 1	Percent 95 4 1	Percent 97		
Total	100	100	100		
Number of homemakers	667	443	116		

<sup>&</sup>lt;sup>2</sup> Percentages total to more than 100 because some homemakers gave more than 1 reason for preferring a particular brand.

Table 80.—(If buy packaged rice) Replies to the question: "Have you noticed the recipes which are usually printed on the package?"

	Homemakers who bought packaged rice				
Replies	All users	Infrequent users	Moder- ate users	Frequent users	Chicago
Had noticed the recipesHad not noticed the recipes	Percent 55 45	Percent 53 47	Percent 57 43	Percent 49 51	Percent 63 37
Total	100	100	100	100	100
Number of homemakers	1, 956	819	870	240	221

Table 81.—(If noticed rice recipes on packages) Replies to the question: "When you cook rice, do you usually follow the recipe that is printed on the package?"

·	Homemakers who noticed printed recipes					
Replies	All users	Infrequent users	Mod- erate users	Fre- quent users	Chi- cago	
Did not follow the recipes Followed the recipes	Percent 58 42	Percent 56 44	Percent 58 42	Percent 68 32	Percent 56 44	
Total	100	100	100	100	100	
Number of homemakers	1, 067	438	498	118	139	

Table 82.—(If do not follow the printed recipe on the rice package)
Replies to the question: "Do you use a recipe book or just your memory
when you cook rice?"

	Homemakers who did not follow the recipes on rice packages					
Replies	All users	Infrequent users	Mod- erate users	Frequent users	Chi- cago	
Relied on memory Used a recipe book Not ascertained	Percent 84 13 3	Percent 77 20 3	Percent 88 7 5	Percent 86 10 4	Percent 80 12 8	
Total	100	100	100	100	100	
Number of homemakers	614	247	290	80	78	

Table 83.—(If have noticed recipes on packages) Replies to the question: "Would you like to have them continue putting recipes on the rice packages or not?"

Homemakers who have noticed printed re-					
Replies	All users	Infre- quent users	Mod- erate users	Fre- quent users	Chi- cago
Would like to have recipes continued on packages	Percent 68 27	Percent 69 27	Percent 69 26	Percent 62 33	Percent 83 12
continued on packages Not ascertained	1 4	1 3	(1) 5	$\frac{3}{2}$	$\frac{3}{2}$
Total	100	100	100	100	100
Number of homemakers	1, 067	438	498	118	139

<sup>&</sup>lt;sup>1</sup> Less than 1 percent.

Table 84.—Reasons homemakers gave for desiring the continuation of recipes on rice packages

Reasons	Homemakers who approved the contin- uation of recipes on rice packages		
	United States	Chicago	
Furnished new ideas, new suggestions Were useful for inexperienced cooks, young homemakers, newlyweds Eliminated necessity of referring to cookbook, recipe book Eliminated guesswork, give instructions on how much rice to use, how to cook it Were used Encouraged people to use more rice Were scientifically planned, healthful, nourishing Miscellaneous reasons	Percent 1 55 13 10 8 7 2 1 6	Percent 1 54 14 13 3 6 4 1 6	
Number of homemakers	725	116	

 $<sup>^1</sup>$  Percentages total to more than 100 because some homemakers gave more than 1 reason for approving the continuation of rice recipes on rice packages.

Table 85.—Replies to the question: "What do you think might be done to get people to use more rice?"

	Homemakers who used rice			
Replies	United States	Chicago		
Made specific suggestions  Didn't think anything could be done  Said nothing could be done  Not ascertained	Percent 67 25 2 6	Percent 80 13 2 5		
Total	100	100		
Number of homemakers	2, 019	222		

Table 86.—Kinds of media homemakers suggested using to get people to use more rice

	Media su	1ggested
Media	United States	Chicago
Magazines Radio Radio Newspapers Books, booklets, pamphlets Stores, utility companies Rice boxes Schools, cooking schools County agents, farm bureau, 4-H clubs Posters Miscellaneous media	Percent 22 21 16 11 10 7 5 1 1 6	Percent 21 19 21 7 14 5 4 (¹) 1 8
Total	100	100
Number of media mentioned	961	165

<sup>&</sup>lt;sup>1</sup> Less than 1 percent.

			Rice	e users who	made spe	cific sugges	tions		
° Course of action suggested	United States	No media men- tioned	Via maga- zines	Via radio	Via news- papers	Via books, booklets, pamph- lets	Via stores, utility com- panies	Miscel- laneous media	Chicago
Rice recipes:									
Distribution of recipes, how to cook	Percent 1	Percent 1	Percent 1	Percent 1	Percent 1	Percent 1	Percent 1	Percent 1	Percent 1
	49	32	48	29	52	74	18	46	62
Improvement of recipesAdvertisements:	8	8	4	3	7	2	1	1	- 5
	29	13	36	45	25	9	. 23	13	35
Of uses, versatility	16	11	12	14	10	12	. 4	11	14
Of inexpensiveness, economy	$\frac{4}{3}$	3	2	4	4	3	. 1	. 3	8
Reduction in price	19	$\frac{2}{29}$	1	4	3	1		<b>2</b>	3
Demonstrations, contests, and distribu-	19	29					4	12	17
tion of samples:									
Putting on demonstrations	4	2					10	_	_
Distribution of samples	$rac{4}{2}$	3					18	. 1	5
Displays of rice	ĩ	(2)					4	1	$^2$
Putting on contests	î	1		2	<u>-</u> -		14	1	1
Improvements in packaging	î	1		. 4	1			17	Ţ
Miscellaneous suggestions	9	10		1			13	10	10
Number of homemakers 3	1, 365	831	202	194	153	98	93	183	177

<sup>&</sup>lt;sup>1</sup> Percentages total to more than 100 because many homemakers made more than 1 suggestion.

<sup>&</sup>lt;sup>2</sup> Less than 1 percent.
<sup>3</sup> This table is based on answers of those who made at least 1 suggestion. Those who "did not know what could be done" were not included.

Table 88.—Replies to the question: "If the price of most foods stayed the same but the price of rice were lower, would you buy more rice or not?"

	Homemakers who use rice								
Replies	All users	Infre- quent users	Moder- ate users	Frequent users	Chicago				
Would not buy more Would buy more Not ascertained	Percent 68 30 2	Percent 78 20 2	Percent 64 34 2	Percent 53 46 1	Percent 69 30 1				
Total	100	100	100	100	100				
Number of homemakers	2, 019	861	895	255	222				

Table 89.—(If do not use rice) Replies to the question: "If the price of most foods stayed the same but the price of rice were lower, do you think you would become interested in using rice?"

Replies	Homemakers who did not use rice
Would not become interested in using	Percent 85 12 1 2
Total	100
Number of homemakers	264

Table 90.—Replies to the question: "Would you say that it costs about the same, more, or less to serve white potatoes than rice?"

Replies	All users	Use rice less than 4 times per week	Use rice 4 or more times per week	Rice non- users	Chicago
Potatoes cost more to serve_ Potatoes and rice cost about the same to serve_ Potatoes cost less to serve_ Don't know Not ascertained	Percent 34  18 24 18 6	Percent 36 18 23 15 8	Percent 36 21 37 5 1	Percent 23 12 14 50 1	Percent 46 19 15 18 2
Total	100	100	100	100	100
Number of homemakers	2, 019	1, 756	255	264	222

Table 91.—(If uses white rice) Replies to the question: "How much is white rice selling for now?"

	Homemakers who used rice							
Replies		States cent)	Chica (perce	go nt)				
Knew the price Less than 15 cents a pound 15 to 19 cents a pound 20 to 24 cents a pound 25 to 29 cents a pound 30 to 39 cents a pound 40 cents a pound and over Did not know the price	3 18 20 10 2 1	54	4 22 19 15 3 1	64				
Total		100		100				
Number of homemakers		2, 019		222				
Median price reported	. Ce:	nts 1	Cents 21	3				

Table 92.—(If doesn't use rice) Replies to the question: "How much is white rice selling for now?"

Replies	Homemakers who did not use rice
Did not know the priceKnew the price	Percent 92
Total	100
Number of homemakers	264

Table 93.—Replies to the questions: "What food value do you think WHITE rice has?" "What food value do you think BROWN rice has?"

Replies		United States						
		White rice rcent) <sup>1</sup>	ce rice 2		White rice (percent)		Brown rice <sup>2</sup> (percent) <sup>1</sup>	
Mentioned some item of food value Contained starch, carbohydrates Contained vitamins (none specified) Was higher in food value than white rice; is unbleached, unpolished Had higher caloric value, provides energy Was healthful, nourishing, builds up the body Contained protein	54 8 7 6 5	73	16 13 9 2 5 3	49	61 15  8 6 7	82	16 21 13 1 7 4	53
Was filling, satisfying, bulky	3 2 2 2 3		1 3 7 3		9 4 1 1 1 2 2 7		1 6	
Didn't know what food value it has Had little or no food value		26 1		51 (³)		15 3		$\frac{-46}{1}$
Total		100		100		100		100
Number of homemakers		2, 019		1, 323		222		165

<sup>&</sup>lt;sup>1</sup> Percentages (in left columns) add to more than their subtotals (in right columns) because some homemakers mentioned more than 1 item of food value.

<sup>2</sup> This column is based on the users of white rice who have heard of brown rice. <sup>3</sup> Less than 1 percent.

Table 94.—Relation between frequency of use and food values homemakers reported for white and brown rice

		Infreque	nt user	S .		Modera	te users		]	Freque	nt users	
Replies		e rice ent) 1		n rice 2 ent) 1		e rice ent) <sup>1</sup>	Brown (perce		White (perce		Brown (perc	
Mentioned some item of food value	56 6 7 5 7 3 4 3 1	71 27 2	15 11 9 22 3 3 1 5 (3)	44 54 1	54 8 6 5 5 3 3 2 2 1	75 24 1	15 14 9 22 6 3 1 5	49 2	50 12 7 9 3 5 2 (3) 2 2 1	70 29 1	20 12 8 2 8 2 1 5	52 47 1
Total		100		100		100		100		100		100
Number of homemakers		861		577		895		576		255		166

<sup>&</sup>lt;sup>1</sup> Percentages (in left columns) add to more than their subtotals (in right columns) because some homemakers mentioned more than one item of food value.

<sup>&</sup>lt;sup>2</sup> This column is based on the users of white rice in the three groups who had heard of brown rice.

<sup>3</sup> Less than 1 percent.

Table 95.—Relation between frequency of use and the different grain lengths the homemakers had heard about

·	Homemakers who used rice													
Grain lengths	All users (percent)						qu us	fre- ent ers cent)	a us	der- te ers cent)	qu us	re- ent eers cent)		cago cent)
Were not aware of grain lengths Were aware of grain lengths Long and short lengths Long and broken or split lengths Long, medium, and short lengths Long and medium lengths Long length Short length Not ascertained	27 4 2 2 7 (¹) 4	54 46	19 3 2 1 7 (¹) 4	64 36	31 4 2 2 9 (¹) 3	49 51	38 9 1 6 6	35 65	32 5 2 1 17 (¹) 5	38 62				
Total		100		100		100		100		100				
Number of homemakers		2, 019		861		895		255		222				

<sup>&</sup>lt;sup>1</sup> Less than 1 percent.

Table 96.—(If have heard of more than one grain length) Replies to the question: "Which one do you like best?"

Replies	Homemakers who had heard about rice of more than one grain length
Preferred the long grain length	Percent 69 10 3 18
Total	- 100
Number of homemakers	705

Bureau of Agricultural Economics Division of Special Surveys Budget Bureau No. 40-4894
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#### Questionnaire

### STUDY 147 SURVEY OF CONSUMER PREFERENCES REGARDING RICE

#### FACE SHEET

	Time interview started  Time interview ended	AM	(Do not write in above space)	How many times did you call to get this interview?
	Interviewer	····	Interview No.	Date
Α.	METROPOLITAN AREAS Met. Area	1 <del>244 - 14</del> 4 -	City	Sample Block
	Address			
в.	CITIES 10,000 to 500,000 IN POPU			
c.	URBAN PLACES UNDER 10,000 IN POF			Sample Block
	Address			
D.	OPEN COUNTRY SEGMENTS	<del> </del>		
	County		State	Segment No.

(RE	cord	TIME TO THE NEAREST 5 MINU	Tes just be	Pore ask	ING QUESTI	ON 1:	AM) PM)
1.		st, I'd like to know if you		. •	ome? o Q. 86, I	Page 14)	
	1F	YES TO 1					
	2.	About how often would you	say that yo	u serve	rice thia	time of year?	
		times a week		times	a month	times	year
	3.	About how often would that	be for the	:			
		Evening meal?	Midday			Break- fast?	
	4,	When do you usually serve	your main m	sal of t	he day?		
		Evening MIdda		BOTH :		ers of family eat is me evening)	t
it	is œ	to talk with you about the oked alone and then served oken, fish, meat, or veget	wd th other	ways you foods a	u serve ri nd sometim	ce you know, some es it is cooked righ	etimes it in
5.	Do 3	ou ever serve it along wit wed along with them? Yes				(GO to Q. 8)	5
	1 F	YES TO 5			<del></del>		
		Do you ever serve it along	with -	YES	<u>NO</u> 7	• ( <u>IF YES TO 6</u> ) About how often do	
		Chioken?	• • • • • • • • • • • • • • • • • • • •				
		F1sh?					
		Seafood like shr	imp?				
		Meat?					
		Vegetables & no n	meat?				
		Just gravy & no m	neat?				
		Are there any other you serve it with					
		IF YES:					
		What?					

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	u ever cook rice mixed right in with other things this way?	
Y	es	
IF Y	<u> 5 TO 8</u>	
9. I	to you ever serve it cooked in with -	·.
		ES TC 9) low often do you t that way?
	Chicken?	
	Fish?	
	Seafood like shrimp?	
	Meat?	
	Vegetables & no meat?	
	Any other ways?	
	IF YES:	
	What?	
11. Do 1	ou ever serve rice for dessert?	
	Yes Nc(GO to Q. 13)	
l F	YES TO 11	
	About how often do you serve it this way?	
Do you ever	serve cooked rice at breakfast?	
	No / /(GO to Q. 16)	
Yes Z		
Yes Z		
Yes Z	0 13	
Yes Z	O 13  how often do you serve it this way?  rou serve it do you serve it with;  YES NO	
Yes Z	O 13 how often do you serve it this way? rou serve it do you serve it with:	
Yes Z	O 13  how often do you serve it this way?  rou serve it do you serve it with;  YES NO	
Yes Z	Now often do you serve it this way?  YES NO  Sugar, cream, or butter?	
Yes Z	how often do you serve it this way?  YES NO  Sugar, cream, or butter?  Gravy?	

owu ruow o	ften do you serve this?		
	Kind of Cooking	Aba	ut how often?
			•
(1F	USES RICE FOR DESSERT ONL'	Y - GO TO PAGE	6, Q. 30 <u>***</u> )
IF SERVE	S RICE AT LEAST 4 TIMES A WEEK	AC DADE OD A SEST	0.55
			SEE QUESTION 2
15. Wie	n you don't serve rice, do you		
	Yes	No	Q. 22)
<u>1F</u>	YES TC 18		
19.	What do you usually serve in	place of rice?	
	<u>a</u> <u>b</u>	. с	đ
20.	About how often do you serve listed in Q. 19)	them? (Make entri	es separately-for each i
	a b	<u> </u>	d
21.	Do you feel that it costs more (Ask separately for each item	e, the same, or le mentioned in Q. 2	ns to serve than
		costs more/	same/ /less/ than rice
		costs /more/ /	same/ /less/ than rice
		_ 40440 /220.50	Juney /1685/ Chan Fide
		costs more/	name/ [less] than rice
	•		
		costs more/	same /less/ than rice

IF QUESTIONS (18-21) WERE NOT ASKED OR

IF R DIDN'T MENTION WHITE POTATOES IN Q. 19 -- ASK Q. 22

22. We'd like to find out what housewives think about the cost of serving rice as compared with some other things. For instance, would you say that it costs about the SAME, MORE, or LESS to serve white potatoes than rice?

Potatoes cost same more less than rice

DK

## ASK OF EVERYONE EXCEPT THOSE WHO USE RICE FOR DESSERT ONLY

23.	How do you cook plain rice; that is, what 24. kind of a pot do you use?	How long do you cook it? (Enter length of time in minutes)
	Boil in plain pot	
	Top of double boiler	
	Steam it over water	
	Pressure cooker	:
	Other	
	IF OTHER: What?	**************************************
25.	Do you usually wash the rice before you cook it?	Yes / No /
26.	Do you usually run water through it either during or	after you have cooked it?
	Yes	
27.	When you cook rice, do you add anything to the water	you cook it in besides salt?
	Yes No	29)
	IF YES TO 27	
	28. What do you add to the water?	
29.	Some rice cooks up so that each grain stands out by ithe grains sort of stick together. Which way do you	tself and some cooks up so that like it?
	Grains stand out Grains	stick together
30.	Do you find that you have any particular trouble having	ng it cook up as you like it?
	Yes No(60 to Q.	33)
	IF YES TO 30	
	31. What sort of difficulty have you had?	
	32. What do you think causes it?	
38.	Are you usually able to buy the kind that cooks the we	ov you like it?
	Yes /	., Jou 1120 101

	t would you say are the main reaso	nesons people have for using certain foods.  ons why <u>you</u> use rice?
Are	there any other reasons you can t	hink of?
35.	(If gives more than one reason, mentioned do you think is the mo	ask:) Which one of the reasons that you have st important one?
Do y	you find that you use more rice at	certain times of the year than at other time
	Yes	No(GO to Q. 39)
l F	YES TO 36	
37.	When do you use more?	
38.	Why is that?	
		w?forlbs. DK
do y	the price of most foods stayed abo you think you would buy more rice,	out the same but the price of rice were lower, or not?
	Yes	No
	e many other foods, there are a nur r heard about rice of different gre	nber of different kinds of rice. Have you ain lengths?
	Yes	No
<u>IF</u>	YES TO 41	
42.	Which lengths have you heard about	ut?
43.	Do you like one of these more that	an the others?
	Yes	No
	IF YES TO 43	
	44. Which one do you like best?	
		?
	46. Are you usually able to buy	
	Yes	No / DK /

Yes		No Z	(GO to Q. 57)	
IF YES TO 4	<u> Z</u>			
	usually able to buy I	BROWN rice in the	stores?	
Yes		No	DK	
49. Eave you	ever used 1t?			
Yes		No(GO	to Q. 56)	
IF YES	TO 49			
	you like it?			
	Yes / 7	No(IF NO	Why is that?	
		110 / 11 110	, my 15 one or	~
		•	(GO TO Q. 56)	
<u>IF</u>	YES TO 50		•	
51.	Do you like to use	it for /all/ ric	e cooking or just /some/ r	·ic
51.	cooking?		e cooking or just /some/ r	ic
51.			e cooking or just <u>/some/</u> r	ic
51.	cooking?	NG	e cooking or just /some/ r	10
51.	cooking? IF "ALL" RICE COOKI	NG	e cooking or just /some/ r	-10
51.	cooking? IF "ALL" RICE COOKI	NG	e cooking or just /some/ r	-10
51.	cooking?  IF "ALL" RICE COOK!  52. Why is that?	ING	e cooking or just /some/ r	10
51.	IF "ALL" RICE COOK!  52. Why is that?  IF "SOME" RICE COOK  53. Which thinge?	ING	0	·ic
51.	IF "ALL" RICE COOK!  52. Why is that?  IF "SOME" RICE COOK  53. Which thinge?	ING	<u> </u>	·ic
51.	IF "ALL" RICE COOK!  52. Why is that?  IF "SOME" RICE COOK  53. Which thinge?	ING		-10
51.	IF "ALL" RICE COOK!  52. Why is that?  IF "SOME" RICE COOK  53. Which thinge?	ING	cd em in Q. 53)	·ic
51.	IF "ALL" RICE COOK!  52. Why is that?  IF "SOME" RICE COOK  53. Which thinge?	ING	cd em in Q. 53)	·ic
51.	IF "ALL" RICE COOK!  52. Why is that?  IF "SOME" RICE COOK  53. Which thinge?	ING	cd em in Q. 53)	·ic
51.	IF "ALL" RICE COOK!  52. Why is that?  IF "SOME" RICE COOK  53. Which thinge?  54. Why is that?  ITEM  a	ING	cd em in Q. 53)	-10
51.	IF "ALL" RICE COOK!  52. Why is that?  IF "SOME" RICE COOK  53. Which thinge?  54. Why is that?  ITEM  a	ING	cd em in Q. 53)	-10

	55.	If you can't get EROWN rice when you want it - do you detaily just use WHITE rice instead or do you skip that recipe until you can get BROWN rice?
		Uses white rice instead
		Skips that recipe
		Can always get Brown rice
6. No	ом врои	t BROWN rice, what food value do you think it has?
-A	nything	else?
57. A	s far a	s WHITE rice is concerned, what food value do you think it has?
A:	nything	else?
58. W	hat do	you think might be done to get people to use more rice?
1	Anythin	g else?
59.	of ri	you buy White rice, do you usually like to buy one particular brand or name cef (If R mentions a variety name - ask all brand questions, substituting crd "kind" or "variety".)
		Yes
	IF Y	ES TO 59
	80.	Which brand do you like best?
	61.	Are you able to buy this brand in the stores?
		Yes No DK
	62.	What are the things you like about this particular brand?
	63.	Is there anything you don't like about it?
		Yes
		IF YES TO 63
	-	64. What is that?
	IF N	0 TO 59
		How does it happen that you have no preference?
	<b>00</b> €	man once to nathbon ones has ness no breteinne:

1 E	QUICK-COOKING RICE WAS MENTIONED ON PAGE II - "BRANDS" - GO TO Q. 73
66.	Have you ever heard of quick-cooking rice such as "Minute Rice"?
	Yes
	IF YES TO 66
	67. Have you ever used any quick-cooking rice?
	the state of the s
	(No. 11 and 12)
	IF YES TO 67
	66. Did you like it? Yes \( \square\) No \( \square\)
	69. What did you particularly like (dislike) about it?
	70. Can you usually buy quick-cooking rice in the stores?
	Yes / No / DK /
	IF NO TO 67 (NEVER USED QUICK-COOKING RICE)
	71. How does it happen that you never tried quick-cooking rice?
	,
	72. Can you usually buy quick-cooking rice in the stores?
	Yes No DK
	75. How much rice do you usually buy at one time?
	(Lbs. or Ozs.)
	74. About how often do you usually buy rice?
	75. Do you usually buy it in a box bag or loose out of a bin or bag?
	76. Regardless of the way the stores usually sell it, which way would you prefer to
	buy it - in a /box/ /bag/ or /loose/ out of a bin or bag?
	77. Why is that?
	IF PREFERS BOX OR BAG - Q. 76
	78. Regardless of the way packages come now, what size package would you like to be able to buy?
	79. Which one of these kinds of packages do you like best? I'll read them to you.
	Вох
	Box with a cellophane window
	Paper bag
	Paper bag with cellophane window
	Cotton bag
	Cellophane bag
	80. Are you able to buy the (size) and (kind of package)

	II OJOA	TEL DOIS BOX OR IN	1G - Q. 75			
	81. Hay	ve you noticed the	recipes which a	re usually pri	nted on the neal	re re?
		Yes /	•		0 to Page 15)(	
	ı.F	YES TO 81				
			_			
	82.	<ul> <li>When you cook r package?</li> </ul>		lly follow the	recipe that is	printed on the
		• 0	Yes	:	<b>S</b> o	
		IF NO TO 82	*			
		83. Do you use	a recipe book	or just your	memory/when w	u nook rinet
	84.					ice package or not
		Yes				7(GO to Page 15)
		85. Why is the	t?			
				A =0 0.00	**************************************	<del></del>
			(6	O TO PAGE I	))Q. 94	
<u> </u>	NO TO QUI	ESTIONI				
86.	Have you	ever used rice?			i .	
	Ĭ		Yes		No	o Q. 89)
	IF YES	68 01				
	87. How	does it happen th	at you stopped u	sing it?		
				• •		
	Anv	other reasons?	<del></del>			
			<del></del>	<del></del>		<del></del>
	88.	(If gives more t	han one reason.	ask:) Which o	ne of the reaso	ns that
		you have mention	med do you think	is the most im	portant one?	
					(GO	TO Q. 91)
	IF NO TO	) 86				
	89. How	is it that you he	ve never tried i	.t?	· · · · · · · · · · · · · · · · · · ·	
	90.	(If gives more i	than one reason,	ask:) Which o	ne of the reaso	ne that you
	•		lo you think is t			
			4 .			
91.	W-14 141-					
91.	compared	to find out what with other things	. For instance,	nk about the co would you say	that it costs	about the
	SAME, MOR	RE, or LESS to ser	ve potatoes than	rice?		
	Potato	s cost same	more/ /less/ t	han rice	Don't	know/
92.	How much	is rice selling i	or now?	. A for	1he	DK / 7
93.	do you th	rice of most foods link you would be	s stayed about the come interested i	e same, but th n using rice?	e price of rice	were lower,
		(es <u>/</u> 7		lo		
			ON PAGE 161 -			

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94.	Before asking the next questions, I'd like to know if there are any children under 18 in your family?
	Yes / No /
95.	There are quite a few different kinds of dry cereals. Do you ever use breakfast cereals made of rice like rice crispies, rice flakes, and puffed rice?
	Yes
	IF NO TO 95
	96. Why is that?
	97. Do the stores around here sell them?
	Yes / Bo / DK /
	(GO TO PAGE 16) Information About the Respondent
	IF YES TO 9E
	98. About how often this time of the year?
	ASK ONLY IF THERE ARE CHILDREN UNDER 18 IN THE FAMILY
	99. Do the children eat these rice cereals?
	Yes #6
	100. Do the adults eat these rice cereals?
	Yes /
	IF YES TO 99 AND 100
	101. Do the children eat them more often than the adults?
	Yes
-	ASK ALL USERS - Q. 95
	102. Do you use RICE CRISPIES? Yes Ho
	103. Do you use RICE FLAKES? Yes /
	104. Do you use PUFFED RICE? Yes No

## INFORMATION ABOUT THE RESPONDENT

٨.	How many people are the	ere in your far	mily, including	ng children and	d infantsi	·
в.	How many of these are:	18 years or o	ver?			· · · · · · · · · · · · · · · · · · ·
		Under 18 but	more than 1 y	ear†		
		Less than 12	months?			
c.	Are there any other peo	ple who usual	ly eat most of	their meals	with you?	
	Yes		No _	7		
	IF YES TO C					
	How many are there?	·				
D.	What was the last grade	you completed	d in school?			y jet
	grammar school / gr		chool /		ome lege	Finished college
B.	About how old are you?	Under 20	/ <del></del> /			
		20 - 24				
		25 - 34				
		<b>35 - 44</b>				
		45 - 54	<i></i>			
		55 - 64	🗇			
		65 and over	🗇		•	
ř.	Are you married?	Married _	7	Not marri	ed \boxed	
6.	Race: (check from obs	ervation)	Negro	0	ther	
H.	Sex of respondent:	Female	7	Male		

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## FOR URBAN AND RURAL NONFARM RESPONDENTS

Enter an "X" he	re if RESPONDENT	I IS HEAD OF HO	USEHOLD	7
I'd like to get a (your) weekly inc week after deduct	ome last week.	What was his (	your) income la	ld's st \$
old the head of t	he household (yo	ou) work every	week during 194	77
FNO TO K				
. How many week	s was he (you) o	out of work? 1	io. of weeks	-
re you working?	Yes /		No /	
F YES TO M	<del></del>			
. What is vour	aa anneti an 7			
. What is your	occupation?			
What is your	occupation?			
	income last wes	ek after deduct	ions for taxes,	
. What was your social securi	income last westy, etc.?	isehold (you) h	ave any other	*
. What was your social securi	income last westy, etc.?	isehold (you) h	ave any other	•
. What was your social securi- sect year did the noome like pensi-	income last westy, etc.?	usehold (you) h bonuses, or d	ave any other	*
what was your social securi- sast year did the none like pensi- Yes TO P	income last week ty, etc.? head of the hou ons, allotments,	nsehold (you) h bonuses, or d	ave any other	*
what was your social securities tyear did the nome like pensity feet of the pensity for the pensity for the pensity feet of th	income last week ty, etc.? head of the hou ons, allotments, it come to for 1 head of the hou from roomers, or	No	ave any other lividends?	*
what was your social securities tyear did the nome like pensity feet of the pensity for the pensity for the pensity feet of th	income last week ty, etc.? head of the hou ons, allotments, it come to for 1 head of the hou from roomers, or	No No set year?	ave any other lividends?	*
. What was your social securi-	income last week ty, etc.? head of the hou ons, ellotments, it come to for 1 head of the hou from roomers, or atives?	No No set year?	ave any other invidends?	

FOR	RURAL NONF ARM RESPONDENTS ONLY	
Τ.	Did the head of the household (you) operate a farm in 1947?	
	Yes	
	IF YES TO T	
	How much money did the head of the household (you) make last year from the sale of the farm products?	\$
FOR	FARM RESPONDENTS ONLY	
Ū.	What is the size of the farm you (your family) operate?	
	acres.	
٧.	What is your chief source of income from the farm (your family's farm)?	
₩.	How much money did you (your family) take in last year, 1947, from the sale of your farm products?	\$
x.	About what did it cost you to aperate your (your family's) farm last year? Operating expenses include such things as fertilizer, feed, tractor fuel, hired labor and repairs. Do not include purchases of new machinery or building improvements.	ŧ
Υ.	Did you (your family) have any other income besides what you (they) received from selling you (their) farm products? (IF YES) How much did that come to for last year?	
2.	Do you (does your family) raise most of the food you use on the farm or do you (your family) buy more than you (they) raise?    Raises most of the	
(	Record time interview ended to the nearest 5 minutes:	AM) PM)