COLLEGE STUDENTS' SNACK FOOD CONSUMPTION BEHAVIORS AND NUTRITIONAL AWARENESS

Ву

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CHAPTER I

INTRODUCTION

In today's health conscious society, although prevention, health, and nutrition have become very popular, snack foods remain a major component in the daily routine of many busy people (Martin & Berry, 1979). Over 60% of Americans consume some sort of food or beverage between meals (Pao & Mickle, 1980). Since snacking has become such a way of life, it is important to assess its impact on nutritional status.

College students, who represent an important segment of the United States population, are inclined to develop poor eating habits (Khan & Lipke, 1982). Students have a tendency to follow fad or low-calorie diets, skip meals, and avoid nutritious foods (Hernon, Skinner, Andrews, & Penfield, 1986). Academic work and extracurricular activities may seem of greater importance than planning meals on a limited budget (Jakobovits, Halstead, Kelley, Roe, & Young, 1977). Convenient snack foods and carbonated beverages may take the place of more nutritious foods which require preparation time.

A basic knowledge of nutrition could be a very useful tool to direct college students toward the correct foods choices. Further investigation of the relationship among nutritional knowledge, attitudes, and practices is needed to aid in the improvement of

programs designed to teach nutrition effectively (Schwartz, 1975).

Purpose and Objectives

The purpose of this study is to compare attitudes, consumption patterns, and nutritional awareness as related to snack foods of students enrolled in Basic Human Nutrition and an introductory English course.

Specific objectives include:

- To compare nutritional knowledge regarding snack foods of students who have completed a course in nutrition and those who have not.
- To determine the relationship between demographic variables and consumer behavior patterns relative to snack foods.
- 3. To identify snack food consumption patterns and practices of the students who have completed a course in nutrition and those students who have not.

Hypotheses

The following hypotheses were postulated for the study:

- H1: There will be no significant association between the nutrition knowledge of students basede on selected variables: age, sex, marital status, race, residence, and major.
- H2: There will be no significant association between demographic variables and consumer behavior patterns relative to snack foods.
- H3: There will be no significant association between snack food

consumption patterns and practices of the students who have completed an introductory nutrition course and those who have not.

Assumptions

The following assumptions were recognized for this study:

- The media, techniques, and materials used by both instructors in the FNIA 1113 course were similar.
- 2. The sample size was sufficient to obtain valid data.

Limitations

The following limitations were recognized for this study:

- The sample was limited only to students who completed the questionnaire at Oklahoma State University in the Spring Semester, 1988. Students were chosen from FNIA 1113 and ENGL 1113. Generalizations based on this study will only apply to the sample used.
- The sample was biased toward the nutrition students, since more nutrition subjects were sampled than English students.

Definitions

The following definitions specify the meaning of concepts as applied to this study:

- Nutritional knowledge: a state of awareness and understanding of nutrition gained through study and learning experience.
- 2. Recommended Dietary Allowance (RDA): the levels of intake

- of essential nutrients that are adequate to meet the nutritional needs of normal healthy people (Recommended Dietary Allowance, 1980).
- 3. Nutrition education: to develop skills and the ability to apply nutrition information to the daily life
- 4. Snack food: any food or beverage consumed between the main meals of the day.
- 5. Meal: a scheduled eating period during which more than one food item is consumed.
- Health: soundness of body and mind; freedom from defect or disease (Halsey & Morris, Eds., 1981)
- 7. Nutritious: containing substances necessary for life and health

CHAPTER II

REVIEW OF RELATED LITERATURE

Introduction

The consumption of snack foods has become a part of the American life-style with over 60% of the nation eating some sort of food or beverage between meals (Pao & Mickle, 1980). There is a growing need to assess the impact of snack foods on the health of those consuming them. This study will compare the attitudes, consumption patterns, and nutritional awareness of students enrolled at Oklahoma State University in the Introduction to Human Nutrition and Freshman Composition relative to snack foods.

Changes in Eating Patterns

The food consumption patterns of the United States population have been influenced by changes in lifestyle, affluence, greater employment of women, smaller households, and increased availability of highly processed foods (Morgan & Goungetas, 1986). Despite the growing interest in good health and nutrition, snack food sales are rising rapidly. Eating habits are changing, as evidenced by people who are consuming smaller, more frequent meals and supplementing their diets with snacks ("Snack Foods", 1986). In 1982, Americans spent an estimated \$20 billion on snack foods. The snack market has grown in excess of 11% during the last decade. The solid sales performance of

the snack food industry has resulted from its ability to meet the rapidly changing demands of the American consumer ("Snacks", 1983).

It is generally believed that the snack food market will grow at about the same rate as the population. The state of the economy will also affect the market. The weather and competition may influence prices of snack foods (Scales, 1982).

Societal changes are also affecting food consumption patterns. The number of items on grocery shelves has increased 10 times in the last 40 years. The structure of meals has changed, according to changing living patterns. The number of people living alone has increased by 65% in the last hundred years. By 1990, it is anticipated that at least a third of the households will not be family households. The American population is relying more on fast foods as a source of nutrition. A quarter of the food dollars spent outside of the home goes to fast food outlets (McGinnis, 1980). Mona Doyle (cited in Towle, 1987), president of the Consumer Network, a consumer research company, remarked:

Snack foods are life-style driven. They are healthful if you want them to be or they can satisfy cravings. Because of this, the line between a snack food and a real meal has grown fuzzier. Snack foods fit our fragmented life styles (p. F15).

Snacks can be classified as those foods consumed between the three main meals of the day. Some individuals consider snacks to be somewhat of a health threat (Cala, Morgan, & Zabik, 1981). Snacking may result in nutritionally unsound diets, because of the belief that "empty calorie" foods are mainly consumed between meals (Morgan, 1983). This belief is reinforced by the prominent advertising and

large sales volume of potato chips, pretzels, soft drinks, candy and other items which are associated with snacking (Thomas & Call, 1973).

The consumption of a high percentage of nonnutritious snack foods will affect the nutritional status of the individual. Overeating and an unbalanced diet have been associated with many nutrition problems. Dietary habits have been linked to such problems as hypertension, heart disease, dental caries, diabetes, obesity and cancer (Ekvall & Vallo, 1983).

Snacking can, however, be healthful. High-energy, low-fat foods can contribute valuable nutrients to a diet that might otherwise be inadequate. Experts recommend whole grains, fresh ingredients and fiber, and the minimization of fats, sugar, and salt (Kenney & Yorkshire, 1986).

Snacking Habits

The Nationwide Food Consumption Survey (NFCS) 1977-78 (Pao & Mickle, 1980) found that approximately 61% of those individuals surveyed consumed at least one snack per day. Of those reporting snacks, 53% had one snack, 28% had two, 11% had three, and 8% consumed four or more snacks per day. Snacks provided 20% of the day's energy for those consuming at least one snack, 25% of the carbohydrate, 16% of the fat, and 12% of the protein. Snacks provided about 15% of the day's vitamins and iron, but about 20% of the calcium, phosphorus, and magnesium.

Trends in Americans' snacking habits tend to differ according to regions of the United States. The North Central population tend to snack the most, while the Southern citizens snack 10% less than the

rest of the nation. Westerners prefer healthy snacks, like fruit.

Snack food preferences are changing, according to the results of a study sampling 2200 households. Those items increasing in popularity include yogurt, frozen juice bars, and Mexican and Oriental snacks. Two of every five snacks consumed are sweet, while one of five are salty. Seventy-six percent of snacks are eaten at home.

Also, dieters were more likely to snack. More children and teenagers (up to 70%) eat snacks than adults. Singles under 45 snack 30% more often than the rest of the population and are the biggest snack eaters outside the home, which can be attributed to the popularity of fast foods. Women, age 25 - 54 are the biggest snackers over 25 and prefer "healthy" snacks. Men prefer salty snacks and generally consume more snacks outside the home.

Economic status also affects snack food consumption. The middle income population snacks most often, followed by those with high, and then low incomes. Dual-career families snack less than traditional families ("Snacking Trends", 1985).

A study conducted by MRCA Information Services ("Snacking Study", 1987) found that sweets were the favored snack among children ages 2 to 18, while adults most often chose beverages. Beverages were the most popular snack food overall with a 36% share of the 1986 snack market. Sweets ranked second with a 30% share of the market, while healthy and salty snacks took 16% and 14%, respectively.

A person's age plays a significant part in the choice of snack foods. Young children, ages 2 to 5, snack most often. Young adults, ages 18 to 24, snack the least often. Americans, age 55 and above, most often choose healthy snacks, while teens and children favor salty

snacks.

The most popular snacks according to the study were (1) fruit and fruit products, (2) candy and gum, (3) ice cream and frozen novelties, and (4) cookies. Other snacks that gained in popularity included tortilla chips, granola bars, hot cereals, and bran muffins.

Snacking Patterns

Birch, Zimmerman, and Hind (1981) studied the effects of snack foods presented in social-affective context on the formation of preschool children's preferences. Snack foods were offered as a reward, paired with adult attention, in a nonsocial context, and at snack time. The snack foods used included peanuts, raw carrots, animal crackers, raisins, dried apples, Wheat Thins, vanilla wafers, and cheese goldfish crackers.

The children's food preferences were enhanced when the snack was presented as a reward or with noncontingent attention. Contrastingly, no changes in food preference were found when foods were presented in a nonsocial context or at snack time.

The results of this study demonstrate that the context in which snack foods are presented to children will affect food preferences. The results also suggest that preferences for sweet foods may be similarly affected. The positive contexts, however, could be used to increase the preferences for food that is more nutritionally desirable, yet not as highly preferred.

A survey conducted of fifth- and sixth-grade children in New York found that although snacks made substantial contributions to their diets, the quality of these contributions may be lower than those of

meals eaten by the same children. These children received approximately 18% of their day's calories from snacks ("Determining Snacking Patterns", 1984).

Morgan, Leveille, and Zabik (1982) studied children's consumption of salted snack foods to determine if consumption of such foods leads to inadequate diets. Salted snack foods included potato chips, popcorn, corn chips, pretzels, tortilla chips, cheese twists, and bacon rinds. The objective was to determine if consumption levels of salted snack foods was related to socioeconomic characteristics of the children. Salted snack foods were consumed by 83% of the children. The amount of salted snack foods consumed by the children increased as the age of the children increased. No relationship was found between salted snack food consumption and socioeconomic variables. The consumption of salted snack foods had little impact on the nutrient intake of the children.

Cala, Morgan, and Zabik (1981) assessed the role of snacking in the diets of 657 U.S. children ages 5 to 12, from middle and uppermiddle class families. The most frequently consumed food group was beverages other than milk, followed by fruits and vegetables and milk. The snacks were found to contribute positively to the children's diets, providing more than 20% of the RDA for eight of the 15 nutrients for which there is an established RDA. Snacks made the most significant contribution for protein, riboflavin, vitamins B12, C, and A, calcium, phosphorus, and magnesium. The researchers also found that 100% of the RDA of all nutrients, except calories, magnesium, and zinc were met by the children's consumption of meals only. The amount of all nutrients, except vitamins B12 and A, increased in consumption

as the number of snacks consumed per day increased. On the days when no snacks were consumed, a decreased intake of fat, sugars, and sodium was found and the meals consumed were higher in calories.

In a study of 225 adolescents from eastern Tennessee, Ezell, Skinner, and Penfield (1985) found that 89% of the students ate at least one snack a day. Morning snacks were more likely to include candies and salty snacks from the school vending machines. Breads and cereals were most often consumed in the afternoon and evening. Carbonated beverages and desserts were popular at all times. The nutrient density provided by the snacks were low at all times but lowest in the morning. Iron, calcium, and vitamin A were present in the lowest amounts. The researchers recommended encouraging adolescents to consume foods high in these nutrients for both meals and snacks. They also suggested emphasizing the selection of appropriate snacks during nutrition education programs.

The snacking patterns and nutrient contributions of snacks to the diets of 1224 adolescent girls from eight southern states was studied (McCoy et al., 1986). Snacking most commonly occurred in the afternoon in the home regardless of race, income group, or age.

Snacks contributed 52% of the RDA for riboflavin, 43% of the RDA for vitamin C, and 39% of the RDA for thiamin. Snacking also contributed significant amounts of other vitamins, minerals, proteins, carbohydrates, and fats.

A study of the food habits of Puerto Rican-American girls from Chicago was conducted by Duyff, Sanjur, and Nelson (1975). It was found that ethnic food patterns made a significant contribution to the diets. An intake of low-nutritive, high-calorie foods such as soft

drinks, potato and tortilla chips, and candy was noted.

Thomas and Call (1973) examined the Ten State Nutrition Survey, which was conducted in the 1960s, to determine if eating between meals was a problem for teenagers. The researchers found that the existing data which emphasizes the high consumption of empty-calorie foods by teenagers has been exaggerated. Foods eaten between meals by teenagers provided a relatively good balance of nutrients. They stressed the importance of nutrition education to teach teenagers to choose appropriate snacks which supply needed nutrients, especially calcium and iron.

Huenemann, Shapiro, Hampton, and Mitchell (1968) studied the eating practices of 122 junior and senior high school students over a two year period. Snacking was common among the students and tended to contribute to their nutrient intakes. The most frequently consumed snacks for boys were cereal and breads. Girls most frequently consumed pies, pastries, cakes, and cookies for their snacks.

Vegetable snacks were eaten infrequently by both groups.

Edwards, Hogan, Spahr, and the Gilford County Nutrition Committee (1964) studied the snacking habits of seventh, ninth, tenth, and twelfth grade students in Greensboro, North Carolina schools. The younger students tended to choose fruit, bread and cereal, and milk for mid-morning and mid-afternoon snacks. Students for the older groups tended to prefer soft drinks and foods from the dessert and candy groups. The researchers stressed the need for a greater emphasis on nutritious snacking at the tenth grade level and above.

Hernon, Skinner, Andrews, and Penfield (1986) studied the food consumption patterns of college students enrolled in an

introductory nutrition course. Participants completed a 3-day food record and calculated the nutrient content of the foods consumed.

Women with an intake of calories less than 1200 had lower intakes of protein, carbohydrate, fat, calcium, iron, thiamin, riboflavin, and niacin. They consumed less meat and eggs, legumes, bread, starchy vegetables, milk products, and desserts than women with energy intakes above 1200 calories. The diets of the men included in the study met the RDAs for all nutrients, and the diets of women whose intakes exceeded 1200 calories met the RDAs for all nutrients except iron.

The intakes of women less than 1200 calories failed to meet the RDAs for calcium, iron, thiamin, riboflavin, and niacin.

A group of dietetics students administered questionnaires to university students to determine snack and beverage preferences (Nelson & King, 1982). Fresh fruits were most highly preferred (72 first preference votes), followed by sandwiches (25 votes), and bakery items. Among beverages, fruit drinks were most frequently selected (66 votes), followed by carbonated beverages (59 votes), and milk (29 votes). These findings indicate that many students actually prefer nutritious snacks as opposed to chips, candy, and carbonated beverages.

The nutrient intakes and food-related behaviors of Cornell
University students was studied by Jakobovits, Halstead, Kelley, Roe,
and Young (1977). Subjects included junior and senior women from
various colleges within the university and different living
situations. Each participant completed a seven-day food record and a
questionnaire on eating practices. On an average, the subjects ate
5.14 times a day, including meals and snacks. Evening was found to be

the most popular snack time. No relationship was found between the number of meals missed and the number of snacks consumed.

Khan and Lipke (1982) studied the nutritional impact of snacking on college students by comparing the nutrients received from meals and snacks by nutrition and non-nutrition majors. Frequency of snack consumption, types of foods and beverages, and the RDAs of selected nutrients were also compared. The results of the study showed that non-nutrition majors ate more often than nutrition majors and women ate more often than men. Snacks were most often consumed between regular meal hours. Beverages were most often consumed as snacks, with carbonated drinks being the most common. Students chose candy and gum most often as snacks in the morning and afternoon. In the evening, salted snack items were most popular. Without snacks, energy intakes for all students, iron and calcium for women, and vitamin A and thiamin for male nutrition majors would not meet recommended levels. The researchers concluded that if snacks and meals were properly planned, students would meet the RDAs for almost all nutrients.

Bailey and Goldberg (1989) assessed the eating patterns of women at a New England university by examining 3-day diet records kept by 59 students enrolled in an introductory nutrition course for non-majors.

Meal frequencies over the three days were as follows:

	Mean ± SD
Breakfast	2.2 ± 0.9
Morning Snack	1.1 ± 1.1
Lunch	2.4 ± 0.7
Afternoon Snack	1.5 ± 1.1

Dinner 2.9 ± 0.3

Evening Snack 2.0 ± 0.9

Upon analysis of meal frequencies, four eating patterns were identified. In the first, a high frequency for both meals and snacks was identified, although subjects had a tendency to eat a morning snack rather than a full breakfast. These subjects who eat regularly were referred to as "regular eaters". The second pattern shows an emphasis on breakfast and morning snacks, with little stress on dinner and evening snacks. These subjects were called "morning eaters". The third component showed a high frequency for breakfast and dinner with reduced concern for lunch and snacks, but a strong concern for being overweight. These subjects were referred to as "concerned eaters". The final component demonstrates a moderate frequency for breakfast, evening snack, and dinner with little stress on lunch and afternoon snacks. Subjects were called "lunch avoiders". "Concerned eaters" reacted to dissatisfaction with their body weight by skipping meals. Little connection was found between meal behavior and either food intake or body weight for the other groups.

Shopping Behaviors

Media advertising and marketing greatly influences the purchasing behaviors of consumers. A large part of advertising is attributed to highly processed foods. The consumption of such nonnutritious foods could have a detrimental effect on nutritional status (Ekvall & Vallo, 1983).

In 1986, approximately \$1.7 billion was spent by Americans on "healthy" snacks, such as granola bars, microwave popcorn, and trail

mixes. There is some debate, however, as to whether these snacks are actually "healthy".

Granola bars, which are more like candy, contain extra sugar, fat, and calories. Dehydrated fruit snacks have added sugar, little fiber, and are less nutritious than fresh fruit counterparts.

Microwave popcorn contains added fat, salt, and calories, as well as being higher priced ('Healthy' Snacks, 1987).

Snack food generated \$24.8 billion in manufacturer sales in 1986, an increase of 6.5% from 1985. Top revenue producers were candy (29.9% of sales), cookies and crackers (22.8%), and potato chips (12%). Sales of popcorn and dried fruits increased 26% and 21.5% in 1987, respectively, due to the fact that consumers perceive them as "healthful" (Towle, 1987). Popcorn, chips, corn products, pretzels, nuts, and other snack foods account for nearly \$3 million in supermarket sales annually and are enjoyed by most children and adults alike (Flynn, 1987).

College students form one distinct target group for mass marketers. Students are major purchasers of audio equipment, cosmetics, beer, and junk food. Nearly one of every four college students spends at least \$31 weekly at supermarkets. Grocery buying is a popular pasttime, and beer and potato chips are high on college students' shopping lists. Almost 40% of male students drink beer regularly, while over one-third of females eat potato chips frequently (Sherrid & Lanier, 1986).

Martin and Berry (1979) conducted a study to determine the cariogenicity of machine-vended snack foods as compared to counterparts available in health food stores. Foods found to be low

in promoting caries include: Diet Cola, Frito-Lay Fritos, Hershey's Milk Chocolate, El Molino Mills Cara Coa, and Cabell's Whole Milk. Snack foods found to be high in promoting caries included: Hoffman's All Natural Carob Hi-Protein Energy Bar, Welchade Grape Drink, Rainbow Honey Bun, and Wagner's Sunflower Nuts. The results indicated that food obtained from vending machines tend to be no more cariogenic than health food store items.

Nutritional Knowledge

Johnson and Hart (1977) conducted a study to measure nutrition misconceptions of junior and senior high school students and to determine if enrollment in health education courses would affect misconception scores. It was determined that health education does not independently affect the nutritional beliefs of students.

Schwartz, Dalrymple, and Vivian (1974) conducted a study of 313 women who were 1969 graduates of Ohio high schools to determine the relationship between enrollment in home economics courses and present nutritional knowledge, attitudes, and practices. Of the respondents, 171 graduates had been enrolled in home economics courses, while 142 had not been enrolled in these courses. The researchers found that enrollment in high school home economics courses was not consistently associated with nutritional knowledge, attitudes, and practices.

Graduates had gained nutritional knowledge from other sources such as the media or personal contacts.

First-year students at a Canadian university were studied by McCarthy and Sabry (1973) to determine the prevalence of nutrition misconceptions. A true-false questionnaire was developed which

represented seven areas of nutrition knowledge, including health foods, weight loss and gain, nutrient functions, metabolism, and food purchase. Students who had been enrolled in home economics in secondary school had fewer misconceptions than did those without home economics education.

To determine the effect of the mass media on teenagers' nutrition knowledge, Axelson and DelCampo (1978) studied 400 ninth grade students. Half were exposed to a nutrition education program campaign using television, radio, and brochures. The remaining half served as control. A quiz was administered to the students both before and after the experiment. It was found that teenagers' nutritional knowledge can be improved through a short-term, mass media promotional campaign, if it has personal appeal to the audience.

Carruth, Briley, and Roy (1971) administered a pre-test to determine the initial nutrition knowledge level of students prior to instruction in a basic nutrition course at Texas Tech University.

Some students were permitted to be exempt from the course by making a predetermined test score. A final examination was given to both groups of students, those with nutrition instruction and those without. The results showed that the students subjected to instruction scored lower on the pre-test but higher on the final examination. The exempted students scored higher on the pre-test but only made acceptable scores on the final since they had received no instruction.

Summary

Recent societal and economic changes have influenced the eating patterns of the American population. The snack food market is continuing to grow and adapt to the needs and wants of the consumer. Recent studies have indicated that snacking can make significant contributions to the diets of both children and adults. It remains important, however, to teach snackers to choose appropriate foods which supplement the diet with valuble nutrients.

Enrollment in nutrition courses may positively affect the nutrition knowledge of students. It is important to assess the application of this knowledge to everyday life. Therefore, the focus of this study will be to identify snacking habits and consumer behavior patterns of the subjects and to compare the nutritional knowledge of those who are enrolled in Basic Human Nutrition and those who have had no nutrition education.

CHAPTER III

METHODOLOGY

Population and Sample

The population for this study included undergraduate students enrolled in two courses at Oklahoma State University in the Spring of 1988: Basic Human Nutrition and Freshman Composition. The questionnaire was administered to over 300 students, and a total of 279 were usable, 196 from the nutrition course and 83 from the English course.

Research Design

The researcher obtained data from a selected experimental group and a nonequivalent comparison group. The experimental group had been exposed to a 16 week nutrition course, while the control group received no nutrition instruction. In the discussion that follows, the groups will be referred to as the experimental group and the control group.

Data Collection

Instrument

To meet the objectives of the study, a survey instrument was developed by the researcher. The instrument consisted of three parts.

Part I was composed of nine objective questions to obtain demographic information. Part II consisted of 12 objective questions to obtain information on snack food selection. Part III consisted of 26 statements about nutrition and snacking to obtain psychographic data to which the subject could agree, disagree, or have no opinion (Appendix A). The questionnaire was pretested on an unassociated group of students to identify vague or ambiguous questions.

Procedure

The researcher administered the questionnaire to the students in the nutrition course at the end of the semester. Oral and written instructions were given by the researcher, and the students returned the surveys as they were completed. Students were awarded points toward their grade as an incentive to return the questionnaire.

Permission was obtained from the English department to administer the questionnaires to the students. Questionnaires were delivered the the department to be disseminated by the instructors, and were then returned to the researcher.

Data Analysis

The data were subjected to analysis by Statistical Analysis System (SAS) from which frequencies were obtained. Data sets created were summarized and a chi-square analysis was completed.

CHAPTER IV

RESULTS AND DISCUSSION

The purpose of this study was to compare the attitudes, consumption patterns, and nutritional awareness of students enrolled in Basic Human Nutrition (FNIA 1113) and Freshman Composition (ENGL 1113) relative to snack foods. This chapter describes the characteristics of the sample and the results of the testing of the hypothesis.

Description of the Sample

Sex, Age, Major, Marital Status, and Race

Table I shows a description of the sample in the study (N = 279) which was comprised of 196 students from Basic Human Nutrition and 83 students from Freshman Composition. Of those from the nutrition course, 42 (21.43%) were male and 154 (78.57%) were female. Males from the English course numbered 47 (56.63%), and females numbered 36 (43.37%). Approximately 75.51% (N = 148) of the experimental group were age 21 and under, while 24.49% (N = 48) were over 21.

Approximately 81.93% (N = 68) of the control group were age 21 and under, while 18.07% (N = 15) were over 21.

Of those in the FNIA 1113 course, 137 (69.90%) were Home

Economics majors, while 59 (30.10%) were majoring in other fields.

Only 1 (1.20%) student in ENGL 1113 was a Home Economics major, while

the remaining 82 (98.90%) were of other majors. Most of the subjects in the nutrition course (N = 186, 94.90%) were single, while only 10 (5.10%) were married. Seventy-nine (95.18%) subjects enrolled in the English course were single, while only 4 (4.84%) were married. Most of the subjects from the nutrition course (N = 184, 93.88%) were Caucasian, whereas 12 (6.12%) were of other ethnic backgrounds such as Asian, black, and Hispanic. Similarly, most students in the English course (N = 75, 95.59%) were Caucasian, while only 6 (7.41%) were of other racial identification.

Place of Residence, Number and Age of Household Members, and Preparer of the Food

Of the subjects in the nutrition course, 63 (32.14%) lived in the OSU residence halls and the remaining 133 (67.86%) lived in apartments, family homes, etc. Of the students enrolled in the English course, 42 (50.60%) lived in the OSU residence halls and 41 (49.40%) lived in other housing situations. More than half (N = 101, 51.53%) of the experimental group lived in one- or two-member households, while 95 (48.47%) live with 3 or more others. Thirty-eight (45.78%) students in the control group lived in one- of two-member households, while 45 (54.22%) live with 3 or more others.

The majority (N = 116, 60.42%) of the experimental group had members in their households in the 20 - 29 year old range. The majority (N = 47, 56.63%) of the control group had members in their households in the 15 - 19 year old age group. Most of the experimental group (N = 108, 55.38%) prepared their own food, while 36 (43.37%) in the control group prepared their own food.

TABLE I
FREQUENCY AND PERCENTAGE DISTRIBUTION OF THE SAMPLE ACCORDING TO DEMOGRAPHIC VARIABLES

Variable	Fred	quency	Percentage			
		al control	experimental	-		
	group	group	group	group		
Total subjects	196	83	70.25	29.75		
Sex						
Male	42	47	21.43	56.63		
Female	154	36	78.57	43.37		
Age						
under 18	1	0	0.50	0.00		
18 - 21	147	68	75.00	81.90		
22 - 25	33	8	16.80	9.60		
26 - 30	7	2	3.60	2.40		
31 - 40	6	2	3.10	2.40		
over 40	2	3	1.00	3.60		
Major						
FNIA / HRAD	51	1	26.80	1.20		
Other Home Economics	86	0	43.90	0.00		
Other major	59	82	30.10	98.80		
Marital status						
Single	181	78	92.30	94.00		
Married	10	4	5.10	4.80		
Widowed	0	0	0.00	0.00		
Divorced	4	1	2.00	1.20		
Separated	1	0	0.50	0.00		
Race						
Caucasian	184	75	93.90	90.40		
Asian	4	1	2.00	1.20		
American Indian	2	2	1.00	2.40		
Black	4	4	2.00	4.80		
Hispanic	1	0	0.50	0.00		
Other	1	0	0.50	0.00		
Place of residence						
Family Home	16	6	8.20	7.20		
Apt./duplex/rented ho		20	41.80	24.10		
Residence halls	63	42	32.10	50.60		
Fraternity/Sorority	34	12	17.30	14.50		
Other	1	3	0.50	3.60		
		-	3.22	00		

TABLE I (cont.)

Variable	Frequ	ency	Percentage						
	experimental	control	experimental	control					
	group	group	group	group					
Number of members in the household									
1	30	19	15.30	22.90					
2	71	19	36.20	22.90					
3	27	11	13.80	13.30					
4	24	16	12.20	19.30					
5 or more	44	18	22.40	21.70					
Age of members in the household									
15 and under	26	13	13.27	15.66					
15 - 19	89	47	46.35	56.63					
20 - 29	116	31	60.42	37.35					
30 - 39	12	8	6.25	9.64					
40 - 49	22	21	11.46	25.30					
50 - 59	15	14	7.81	16.87					
60 and over	. 4	4	2.09	4.82					
reparer of food									
By the subject	108	36	55.10	43.40					
Other family member	4	3	2.00	3.60					
Roommate	1	0	0.50	0.00					
School cafeteria	45	32	23.00	38.60					
Other	37	12	18.90	14.50					

Consumer Behavior Characteristics

Purchasing Behaviors

Table II shows that a majority of the students (FNIA 1113: 62.24%, ENGL 1113: 55.42%) from both courses purchased snack foods on 3 days or less per week. Of the students in the experimental group, 63 (32.31%) shop alone, while 132 (67.69%) shop with family members or roommates. Thirty-one subjects in the control group (37.35%) shop alone, whereas 52 (62.65%) shop with family members or roommates.

The factor that influenced most subjects from the experimental group to purchase snack foods was availability/convenience (N = 127, 64.80%), followed by a family member/roommate (N = 32, 16.67%) and other unspecified motives (N = 32, 16.67%). The factor that influenced the most subjects from the control group to purchase snack foods was availability/convenience (N = 49, 56.76%), followed by other unspecified factors (N = 23, 28.05%) and price (N = 11, 13.41%).

Over 60% (N = 118) of the experimental group purchased snack foods at supermarkets, while 117 (59.69%) also purchased at convenience stores. Over 53% (N = 104) purchased snack foods from vending machines. More than half (N = 45, 54.22%) of the control group purchased snacks from convenience stores, while 42 (50.20%) also purchased from vending machines. Nearly 41% (N = 34) bought snacks at supermarkets.

Consumption Behaviors

The value of snack foods consumed by most of the subjects (FNIA: N = 166, 84.69%, ENGL: N = 69, 83.13%) was two dollars or less

per day. Only 15.31% of the experimental group and 16.87% of the control group consumed snacks valued at more than two dollars a day. Most of the subjects (FNIA: N = 126, 59.18%, ENGL: N = 47, 56.63%) consumed one or two meals per day, while 40.82% of the experimental group and 43.37% of the control group consumed 3 or more meals a day. The number of snacks consumed was most commonly (FNIA: N = 166, 84.69%, ENGL: N = 71, 85.54%) two or less per day, while only 15.31% of the experimental group and 14.46% of the control group consumed 3 or more snacks per day. Nearly 86% (N = 167) of the experimental group and approximately 83% (N = 67) of the control group may substitute snacks for meals, while the remainder of the students never substitute snacks for meals.

A majority of the experimental group (N = 144, 74.23%) consumed snacks when studying, while 133 (68.56%) consumed snacks when watching television. The third most popular time to consume snacks was between classes (N = 85, 43.81%). Most of the control group (N = 58, 70.73%) consumed snacks when studying, while 49 (59.76%) consumed snacks when watching television. The next most common period during which subjects consumed snacks was at parties (N = 34, 41.46%).

The majority of students from both groups felt bored when snacking occurred (FNIA: N = 145, 73.98%, ENGL: N = 43, 51.81%). The next most popular feeling when snacking was when under stress (FNIA: N = 87, 44.39%, ENGL: N = 34, 40.96%), followed closely by snacking when feeling restless (FNIA: N = 83, 42.35%, ENGL: N = 29, 34.94%).

Types of Snacks Consumed

The most popular type of snack consumed by both groups was chocolate/sweets (FNIA: 58.67%, ENGL: 65.06%); however, the groups differed in the second most popular snack. The experimental group (54.08%) chose popcorn, while the control group (55.42%) chose chips. This preference was reversed for the third most popular snack with 50.00% of the experimental group choosing chips and 50.60% of the control group choosing popcorn. The fourth most popular snack food for each group (FNIA: 48.47%, ENGL: 44.58%) was fruits and vegetables. Wheat products (such as crackers, bread, and cereals) were the fifth most typical snack food consumed by the experimental group (41.33%), while English subjects (31.33%) choose pizza. Other snacks consumed included cheese, ice cream, yogurt, and nuts.

The most popular beverage consumed at snack time for the experimental group was water (61.22%), while the control group most often chose caffeinated soft drinks (55.42%). The second most popular beverage for the experimental group was caffeinated soft drinks (47.96%), followed by diet caffeinated soft drinks (35.71%), fruit juice concentrate (34.18%), tea (25.00%), and milk (20.41%). The second most popular snacktime beverage for the control group was water (54.22%), followed by fruit juice concentrate (38.55%), milk (26.51%), diet caffeinated soft drinks (21.69%), and alcohol (18.07%).

TABLE II

FREQUENCY AND PERCENTAGE DISTRIBUTION OF THE SAMPLE ACCORDING TO CONSUMER BEHAVIOR VARIABLES

Variable		quency	Percentage			
	group	group	experimental group	group		
Number of days snack for						
3 or less	122	46	62.24	55.42		
4 or more	74	37	37.74	44.58		
Shopping habits						
Shop alone	63	31	32.31	37.35		
Other	132	52	67.69	62.65		
Factors that influence	the purcha	se of snack	foods			
Availability/ convenience	127	49	64.80	56.76		
Family member/roommat	te 32	4	16.67	4.88		
Magazine/newspaper a	ds 3	2	1.56	2.44		
TV/radio ads	12	2	6.77	2.44		
Price	30	11	15.63	13.41		
Recommendation by others	12	4	6.25	4.88		
other	32	23	16.67	28.05		
Place of snack food pure	chase					
Convenience store	117	45	59.69	54.22		
Supermarket	118	34	60.20	40.96		
Student union	47	16	23.98	19.28		
Vending machine	104	42	53.06	50.20		
Local retail and discount outlets	33	8	16.84	9.64		
Quick-order restaura	nt 48	15	24.49	18.07		
Sit-down restaurant	6	2	3.06	2.41		
Value of snacks consume	d per day					
\$2 or less	166	69	84.69	83.13		
more than \$2	30	14	15.31	16.87		
Number of meals consume	d per day					
1 or 2	126	47	59.18	56.63		
3 or more	80	36	40.82	43.37		
Number of snacks consume	ed per day					
2 or less	166	71	84.69	85.54		
more than 3	30	12	15.31	14.46		

TABLE II (cont.)

Variable	Freq	uency	Percen	tage
	experimenta	l control	experimental	control
	group	group	group	group
Substitution of snack	s for meals			
never	28	14	14.36	17.28
seldom, often, alw	ays 167	67	85.64	82.72
When snacks are consu	ımed			
Sporting events	48	30	24.49	36.14
Traveling	83	33	42.78	40.24
Studying	144	58	74.23	70.73
At parties	71	34	36.60	41.46
Watching TV	133	49	68.56	59.76
Between classes	85	29	43.81	35.37
At work	33	14	17.01	17.07
Feelings when snacks	are consumed			
Bored	145	43	73.98	51.81
Frustrated	35	15	17.86	18.07
Under stress	87	34	44.39	40.96
Tired	44	19	22.45	22.89
Нарру	53	25	27.04	30.12
Sad	22	9	11.22	10.84
Depressed	59	18	30.10	21.69
Lonely	44	15	22.45	18.07
Restless	83	29	42.35	34.94
Types of snacks consu	ımed			
Chocolate/sweets	,		58.67	65.06
Wheat products			41.33	30.12
Cheese			28.06	27.71
Ice cream/ice milk	:		22.96	22.89
Yogurt			21.94	14.46
Fruit/vegetables			48.47	44.58
Popcorn			54.08	50.60
Pizza			18.88	31.33
Nuts			12.76	18.07
Chips			50.00	55.42
Types of beverages co	onsumed			
Milk			20.41	26.51
Tea			25.00	16.87
Coffee			6.63	2.41
Fruit juice concer	itrate		34.18	38.55
Caffeinated soft d	lrinks		47.96	55.42
Decaffeinated soft			6.12	7.23
Diet caffeinated s	oft drinks		35.71	21.69
Diet decaffeinated	l soft drinks		9.18	8.43
Alcohol			9.18	18.07
Water			61.22	54.22

Nutrition Knowledge

Statements about nutrition awareness were grouped accordingly:

(1) sodium, (2) sugar, (3) fat, (4) processed snacks, (5) nutritious snacking, and (6) purchasing behaviors. The percentage of subjects who agreed with these atatements on a Likert scale can be examined in Appendix C.

Both groups were interested in increasing nutrition knowledge and stated that they consumed a variety of foods for both meals and snacks. Many of the subjects were influenced to purchase by family members or roommates and the price of the snack food. Only a few subjects stated that they avoid processed snacks or those containing additives and preservatives.

Testing of the Hypotheses

Hypotheses were tested using a chi-square analysis. The significance level accepted was $p \le 0.05$.

Hypothesis One:

H1: There will be no significant association between nutrition knowledge of students as associated with selected variables: age, sex, marital status, race, residence, and major.

Table III shows that the age of the respondent was significantly associated with six of the 26 nutrition knowledge statements. Subjects over 21 years of age agreed with the statements "I try to avoid snacks high in sodium" (p = .004), "I try to avoid processed snacks" (p = .026), "I am interested in increasing my nutrition knowledge" (p = .021), and "I purchase more snack foods for my

family/roommate then I do for myself" (p = .030). The vitamin and mineral content of snack foods was important to subjects over 21 (p = .044). The consumption of snacks high in simple carbohydrates was associated with students over 21 (p = .022).

The demographic variable sex was significantly associated with four of the 26 statements. Females agreed with the statements "I consume too many sugary snacks" (p = .011) and "Reading the nutrient information on the labels of snack foods will help the consumer make a wise choice since the manufacturer must, by law, print the facts" (p = .003). Females consumed snacks while under stress (p = .000) and agreed that family members or roommates influence the purchase of snack foods (p = .043).

Marital status was significantly associated with six of the 26 nutrition knowledge statements. Married subjects tended to agree that the vitamin and mineral content of snack foods (p = .036) and the avoidance of additives and preservatives in snacks (p = .003) is important. Married subjects were also concerned with the nutritional content of the snack foods (p = .005) and increasing their nutrition knowledge (p = .039). Married subjects were associated with the statement "I purchase more snack foods for my family/roommate than I do for myself" (p = .000) and also "My family/roommate influences my choice of snack foods" (p = .025).

Race was significantly associated with only two of the 26 nutrition knowledge statements. Subjects other than Caucasians were associated with the statement "I try to avoid snacks high in cholesterol" (p = .009) and the statement "The calories in 'natural' snacks such as granola bars or dried fruits aren't nearly as fattening

as calories in 'junk-food' snacks" (p = .021).

The subject's major was associated with four of the 26 statements. Avoiding snacks high in cholesterol (p = .005) and avoiding processed snacks (p = .035) was associated with majors other than Home Economics. Other majors were influenced to purchase by the vitamin and mineral content of the snack food (p = .028). Home Economics majors were associated with the statement "My snack food purchases represent my impulse buying practices" (p = .047).

Place of residence was not found to be significantly associated with any nutrition knowledge statement; therefore, the researcher failed to reject this portion of the hypothesis. There was, however, a significant association found between other demographic variables and nutrition knowledge statements; therefore, the researcher rejects this portion of the hypothesis.

TABLE III

SIGNIFICANT ASSOCIATIONS BETWEEN NUTRITION KNOWLEDGE STATEMENTS
AND DEMOGRAPHIC VARIABLES

Statements	Demographic Variable	df 	x2 	
I try to avoi	d snacks high in sodium.			
_	Age	1	8.261	.004
I try to avoi	d snacks high in cholesterol.			
_	Major	1	7.849	.005
	Race	1	6.727	.009
I try to avoi	d processed snacks.			
	Age	1	4.958	.026
	Major	1	4.453	.035
	and mineral content of			
snack food	s influences my selection.	4		
	Age	1	4.044	.044
	Major Marital status	1	4.810	
	marital status	1	4.374	.036
I consume sna	cks high in simple carbohydrate.			
	Age	1	5.222	.022
I consume too	many sugary snacks.			
	Sex	1	6.420	.011
I avoid snack	foods containing additives			
and preser	vatives.			
	Marital status	1	8.900	.003
The calories	in "natural" snacks such			
	bars or dried fruits			
	rly as fattening as			
calories i	n "junk-food" snacks.			
	Race	1	5.333	.021
Reading nutri	ent information on the labels			
	oods will help the consumer			
	se choice since the manufacturer			
must, by 1	aw, print the facts.			
	Sex	1	8.801	.003
	al content of the snack food			
is importa				
	Marital status	1	7.911	.005

TABLE III (cont.)

Statements Demographic Variable	df	x²	p
My consumption of snack food is related to my stress situation.			
Sex	1	12.612	.000*
I am interested in increasing my nutrition knowledge.			
Age	1	5.357	.021
Marital status	1	4.252	.039
My snack food purchases represent my impulse buying practices.			
Major	1	3.929	.047
I purchase more snack foods for my family/roommate than I do for myself.			
Age	1	4.720	.030
Marital status	1	17.759	.000*
My family/roommate influences my choice of snack foods.			
Sex	1	4.100	.043
Marital status	1	5.024	

^{*} significant at $p \le 0.05$

Hypothesis Two:

 H_2 : There will be no significant association between demographic variables and consumer behavior patterns relative to snack foods.

Table IV demonstrates that the demographic variable age was found to be significantly associated with ten consumer behavior patterns. Purchasing snack foods on three days or less per week (p=.009) and shopping with family members or roommates (p=.000) was associated with subjects who were 21 years of age or under. Respondents over 21 shopped alone (p=.000) and purchased snack foods at retail and discount outlets (p=.027) and sit-down restaurants (p=.006). Consuming snacks when studying (p=.001) and when bored (p=.023) was associated with subjects 21 years of age and under, while those over 21 tended to consume snacks while at work (p=.002). Subjects over 21 tended to consume coffee as a snacktime beverage (p=.022), while subjects 21 and under were associated with the consumption of diet decaffeinated soft drinks (p=.005) and water (p=.000).

The demographic variable sex was significantly associated with 18 consumer behaviors. Males tended to shop alone, while females shopped with family members or roommates (p = .001). The snack food purchases of females were influenced by availability/convenience (p = .050) and family members or roommates (p = .001). Females tended to consume 1 or 2 meals a day, while males consumed 3 or more meals a day (p = .004). Males were correlated with snacking at sporting events (p = .004), while females snacked when studying (p = .000), when bored (p = .006), and when depressed (p = .001).

Gender was also found to be significantly associated with the

types of snacks consumed by the subjects. Females tended to choose yogurt (p = .035) and popcorn (p = .000), while males consumed nuts (p = .000), milk (p = .000), caffeinated soft drinks (p = .016), and alcohol (p = .001). Females were associated with the consumption of beverages such as decaffeinated soft drinks (p = .050), diet caffeinated soft drinks (p = .050), and water (p = .005).

Marital status was associated with only two consumer behaviors. Single respondents tended to consume one or two meals a day, while married subjects consumed three or more meals a day (p = .001). Single subjects snacking while watching television (p = 014).

The demographic variable race was associated with four consumer behavior patterns. Caucasian respondents tended to purchase snacks at convenience stores (p = .030) and to consume snacks while watching television (p = .013), when bored (p = .028), and when frustrated (p = .039).

The respondent's place of residence was significantly associated with 14 consumer behaviors. Snack food purchases of students who live in the OSU residence halls were influenced to by recommendations from others (p=.040). Vending machines (p=.001) and sit-down restaurants (p=.027) were points of purchase for those living in the residence halls. Respondents living in the residence halls tended to consume one or two meals a day (p=.002) and may substitute meals for snacks (p=.039). Place of residence was also significantly associated with when snacks were consumed. Living in the residence halls correlated with consuming snacks when studying (p=.001), while respondents from other living situations consumed snacks while at work

(p = .004). The consumption of cheese (p = .017) and pizza (p = .014) was associated with living in the residence halls. The consumption of several beverages such as tea (p = .023), coffee (p = .046), fruit juice concentrate (p = .046), fruit flavored drinks (p = .020), and water (p = .047) was also associated with living in the residence halls.

The demographic variable major was significantly associated with five consumer behavior characteristics. Home Economics majors were influenced to purchase by store marketing (p = .007), purchased at supermarkets (p = .001), consumed one or two meals a day (p = .042), consumed when bored (p = .001), and choose chips at snacktime (p = .005).

The demographic variables gender, place of residence, and age were found to be associated with the most consumer behavior characteristics; however, major, racial identification, and marital status were also associated. As a result of these significant correlations, the researcher rejects the second hypothesis.

TABLE IV
SIGNIFICANT ASSOCIATION BETWEEN CONSUMER BEHAVIOR PATTERNS
AND DEMOGRAPHIC VARIABLES

Behavior	Demographic Variable	df	 x2	 р
Number of day	s snack foods are purchased per Age	week 1	6.833	.009
		_		
Shopping habi		_		
	Sex	1 1	10.469 12.549	.001 .000*
	Age Number in household	1	11.439	.000*
	Humber III Househord	-	11.407	•001
Factors that	influence the purchase of snack	foods		
Availabili	ty/convenience			
	Sex	1	3.839	.050
Bow! las wow	handra ammata			
ramily mem	ber/roommate Sex	1	10.489	.001
	bex	+	10.409	•001
Store mark	eting			
	Major	1	7.289	.007
Recommenda	tion by others			
Recommenda	Residence	1	4.203	.040
		_		7010
Place of snac	k food purchase			
Convenienc	e store			
33	Race	1	4.709	.030
	Number in household	1	8.073	
Supermarke		-	11 000	001
	Major	1	11.038	.001
Vending ma	chine			
	Residence	1	10.431	.001
D -1-13 3				
Ketall and	discount outlets	-1	4 964	007
	Age	1	4.864	.027
Sit-down r	estaurant			
	Age	1	7.508	.006
	Residence	1	4.899	.027

TABLE IV(cont.)

Behavior	Demographic Variable	df	x2	р
Number of m	eals consumed per day			
	Sex	1	8.213	.004
	Major	1	4.142	.042
	Marital status	1	11.821	.001
•	Residence	1		
	Number in household	1	9.658	.002
Substitutio	on of snacks for meals			
	Residence	1	4.258	.039
When snacks	are consumed			
Sporting	events			
_	Sex	1	14.097	.000*
Studying				
	Sex	1	20.178	.000*
	Age	1		.001
	Residence	1	11.105	
Watching	TV			
	Marital status	1	6.000	.014
	Race	1	6.142	
At work				
4	Age	1	9.960	.002
	Residence	1	8.285	
	_			
Feelings wh	en snacks are consumed			
Bored				
	Sex	1	7.464	.006
	Age	1	5.180	.023
	Major	1	11.044	.001
	Race	1	4.844	.028
Frustrat	ed			
	Race	1	4.240	.039
	Number in household	1	4.654	.031
	Sex	1	6.189	.013
Tired				
	Number in household	1	5.769	.016
Нарру				
	Number in household	1	4.398	.036

TABLE IV (cont.)

	.x2	р
1	11.039	.001
1	5.140	.023
1	5.667	.017
	2 045	050
Τ.	3.845	.050
1	4.465	.035
1	15.328	.000*
-	31,03	.010
1	14.087	.000*
1	7.959	.005
1	14.260	.000*
1	5.192	.023
_	01172	7020
1	5.261	.022
1	3.989	.046
1	3 908	.046
±	3.770	•040
1	5.444	.020
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 5.140 1 5.667 1 3.845 1 4.465 1 15.328 1 6.004 1 5.769 1 14.087 1 7.959 1 14.260 1 5.192 1 5.261 1 3.989 1 3.998

TABLE V (cont.)

Behavior	Demographic Variable	df	x²	p
Caffeinate	d soft drinks Sex	1	5.758	.016
Decaffeina	ted soft drinks Sex	1	3.828	.050
Diet caffe	inated soft drinks Sex	1	19.737	.000*
Diet decaf	feinated soft drinks			
	Sex	1	7.200	.007
	Age	1	8.009	.005
Alcohol				
	Sex	1	11.358	.001
Water				
	Sex	1	7.722	.005
	Age	1	12.749	
	Residence	1	3.947	.047

^{*} significant at $p \le 0.05$

Hypothesis Three:

 ${
m H}_3$: There will be no significant association between snack food consumption patterns and practices of the students who have completed an introductory nutrition course and those who have not.

Table V indicates that students in the experimental group were influenced by a family member/roommate to purchase of snack foods (p=.008), while the control group was associated with other unspecified motives (p=.031). Purchasing snack foods at a supermarket (p=.003) and consuming snacks when bored (p=.000) was associated with enrollment in FNIA 1113. Enrollment in ENGL 1113 was correlated with consuming snacks at sporting events (p=.047).

The types of snacks consumed was also associated with enrollment in these courses. The control group was associated with the consumption of pizza (p = .023), fruit flavored drinks (p = .009), and alcohol (p = .036), while the experimental group consumed diet caffeinated drinks (p = .021).

An association was found between snack food practices and enrollment in Basic Human Nutrition and Freshman Composition. The researcher, therefore, rejects the null hypothesis.

TABLE V
SIGNIFICANT ASSOCIATIONS BETWEEN SNACK FOOD PRACTICES
AND ENROLLMENT IN FNIA 1113 AND ENGL 1113

Practice	Enrollment	df	x²	p
	influence the purchase of snac			
Family mem	nber/roommate FNIA 1113 / ENGL 1113	1	6.997	.008
Other	FNIA 1113 / ENGL 1113	1	4.640	.031
Place of snac	k food purchase			
Supermarke	FNIA 1113 / ENGL 1113	1	8.704	.003
When snacks a	re consumed			
Sporting e	events FNIA 1113 / ENGL 1113	1	3.932	.047
Feelings when	snacks are consumed			
Bored	FNIA 1113 / ENGL 1113	1	13.043	.000*
Types of snacks consumed				
Pizza	FNIA 1113 / ENGL 1113	1	5.168	.023
Types of beverages consumed				
Fruit flav	ored drinks FNIA 1113 / ENGL 1113	1	6.835	.009
Diet caffe	einated soft drinks FNIA 1113 / ENGL 1113	1	5.314	.021
Alcohol	FNIA 1113 / ENGL 1113		4.417	.036

^{*} significant at $p \le 0.05$

CHAPTER V

SUMMARY, RECOMMENDATIONS, AND IMPLICATIONS

The snack food industry is continually growing and adapting to the needs of the American consumer. Advertising and the media play an important role in determining the interests of those consuming snack foods. Therefore, it is increasingly important that the consumption habits and consumer behavior patterns of those consuming snack foods be evaluated.

This study was conducted to determine if completing a course in nutrition would have an effect on the nutrition knowledge and behaviors as related to snack foods of students; therefore, subjects were chosen from FNIA 1113 (Basic Human Nutrition) and ENGL 1113 (Freshman Composition). The relationship between consumer behavior patterns and demographic variables were analyzed.

The review of literature indicated that snacking may have a positive effect on the nutritional intake of those consuming them. Researchers did indicate a need to educate snackers about the appropriate choices for snack foods. Research also indicated that completing nutrition courses could affect the nutrition knowledge of the students.

The sample consisted of students enrolled in Basic Human

Nutrition and Freshman Composition at Oklahoma State University,

Spring 1988. The research instrument was administered during the last

week of the semester.

The sample of 279 students was composed of 196 students from FNIA

1113 and 83 from ENGL 1113. Of those from the nutrition course,

21.43% were male and 78.57% were female, while 56.63% of the students

from the English course were male and 43.37% were female. Three
fourths of the experimental group and nearly 82% of the control group

were 21 or under. Of those in FNIA 1113 nearly 70% were Home

Economics majors, while only one student in ENGL 1113 was a Home

Economics major. Approximately 95% of the subjects from both courses

were single and Caucasian. Approximately half of the control group

lived in the OSU residence halls, while only 32% of the nutrition

students lived in the residence halls.

Availablility/convenience influenced most respondents

(FNIA 1113: 64.80%, ENGL: 56.76%) to purchase snacks. A supermarket was the most popular place for purchase of the experimental group

(60.20%), while most subjects in the control group purchased snacks at convenience stores (54.22%). Approximately 85% of the subjects consumed two or less snacks a day. Snacks were most often consumed while studying (FNIA 1113: 74.23%, ENGL 1113: 70.73%) and when feeling bored (FNIA: 73.98%, ENGL: 51.81%). While chocolate/sweets were the most popular snack for both groups (FNIA: 58.67%, ENGL: 65.06%), the experimental group most often consumed water (61.22%) and the control group favored caffeinated soft drinks (55.42%).

Associations of selected variables was determined using a chi-square analysis. Significant associations were found between nutrition knowledge statements and the demographic variables age, sex, marital status, race, and major. Significant associations were also

found between the demographic variables and consumer behavior patterns. Snack food eating patterns and practices were found to be associated with the completion of a course in nutrition. Therefore, the researcher rejected H₂ and H₃, but only part of H₁, since no association was found between place of residence and nutrition knowledge statements.

Recommendations

The results of this study indicated several recommendations for future studies:

- Administer a pretest and a posttest to both groups of students to have a comparison of the change in knowledge as a result of exposure to nutrition coursework.
- 2. A 24-hour recall could be used on a representative sample of subjects from both groups to determine actual snacking patterns.
- The sample should be more representative of the actual population of Oklahoma State University.
- 4. The questionnaire should include more questions about food misrepresnetation to pinpoint specific bahaviors of the subjects.
- 5. Terms used in the questionnaire should be defined in a clear manner. Words such as "household", "variety of foods", or "healthy snacks" may be misinterpreted.
- 6. Gum or hard candy should be included as a snack food choice.
- Questions #7, #8, and #9 may not be relevant and should be excluded from further research using this questionnaire.

8. Nutrition awareness statements could be grouped into fewer statements according to the U. S. Dietary Goals.

Implications

Results of this study indicated that nutrition knowledge and snacking habits may be affected as a result of formal classroom instruction in Basic Human Nutrition. However, one must consider that since nutrition education makes the student more aware of what is correct, the student's answers may be biased. Students enrolled in a nutrition course may be more critical of their behaviors because of this knowledge.

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APPENDIXES

APPENDIX A

QUESTIONNAIRE

SNACK FOOD SURVEY AND CONSUMER BEHAVIOR PATTERNS CONSUMER PREFERENCE STUDY

This study focuses on the nutritional awareness, attitudes, interests, and opinions of individuals concerning snack foods. Your answers will be kept confidential. Please do not sign your name to this questionnaire. Your time and effort in answering this questionnaire are certainly appreciated. Please answer all questions as truthfully as possible and to the best of your knowledge. Thank you.

The survey questionnaire is divided into three sections:

Demographic Information Snack Food Selection Nutritional Awareness Information

DEMOGRAPHIC INFORMATION

1.	Are you:
	(1) male
	(2) female
2.	What is your age?
	(1) under 18
	(2) 18 - 21
	(3) 22 - 25
	(4) 26 - 30
	(5) 31 - 40
	(6) over 40
3.	
	(1) FNIA/HRAD
	(2) Other Home Economics field
	(3) other
4.	What is you present marital status?
	(1) single
	(2) married
	(3) widowed
	(4) divorced
	(5) separated
5.	Which of the following best describes your racial or ethnic
	identification?
	(1) Caucasian (white)
	(2) Asian
	(3) Native American/American Indian
	(4) Black
	(5) Hispanic
	(6) Other specify

6.	Where do you r	
	(1)	family home
	(2)	apartment/duplex/rented home
	(3)	residence halls
	(4)	fraternity/sorority house
		other specify
7	Herr many mamba	ra live in your household?
7.		rs live in your household?
	(1)	2
	(2)	2
	(3)	3
	(4)	
	(5)	5 or more
8.	How many of th	ose living in your household are:
	(answer all th	
		under 15
	(2)	15 - 19
	(3)	20 - 29
	(4)	30 - 39
	(5)	40 - 49
	(6)	50 - 59
	(7)	60 or over
		does not apply since I live alone
	(8)	does not apply since I live alone
9.	Who prepares y	
	(1)	I prepare my own food
	(2)	other family member
		roommate
	(4)	school cafeteria
		other specify
SNAC	K FOOD SELECTIO	<u>N</u>
		terms used in this study are listed below. As
_	_	statement use this definition to refer to
spec	ific eating per	iods.
	SNACK FOOD - a	ny food or beverage consumed between meals
		uled eating period during which you consume
		than one food item
		Chair one rood real
10.	ON AN AVERAGE,	how many DAYS during the week do you purchase
	snack items? (check only one answer)
	(1)	less than one
	(2)	one
	(3)	two
	(4)	
	(5)	four
	(6)	five
	(7)	six
	(8)	seven
	(9)	none
	()	

11.	Do you most fr	equently: (check only one answer)
	(1)	shop alone
	(2)	shop with family member(s)
	(3)	<pre>shop with roommate(s)</pre>
	(4)	don't shop
	(5)	<pre>shop with family member(s) shop with roommate(s) don't shop other specify</pre>
12.		s you to purchase snack foods?
	(1)	availablility/convenience
	(2)	<pre>family member/roommate magazine/newspaper ads</pre>
	(3)	magazine/newspaper ads
	(4)	television/radio ads
	(5)	store marketing
	(6)	price
	(7)	recommendation by others
	(8)	television/radio ads store marketing price recommendation by others other specify
13.	Where do you n	urchase snack foods?
	(check all tha	
		convenience stores
	(1)	gunermarket
	(2)	supermarket
	(3)	wording mashings
	(4)	supermarket student union or other campus store vending machines local retail and discount outlets quick-order restaurant sit-down restaurant
	(5)	mick order restaurant
	(0)	sit-down restaurant
	(/)	SIC-GOWN TESCAULANC
14.	Approximately	what is the VALUE of the snack foods and beverages
		me EACH DAY? (check only one)
	(1)	less than \$1
	(2) (3)	\$1 - \$2
	(3)	\$2 - \$3
	(4)	\$3 - \$4
	(5)	\$4 - \$5
	(6)	\$5 - \$10
	(7)	\$10 - \$20
	(/)	more than \$20
	(0)	more chair \$20
15.	How many meals	do you consume per day?
	(1)	
	(2)	2
	(3)	3
	(4)	more than 3
16.	Do vou substit	ute snacks for meals?
	(1)	never
	(2)	
	(3)	often
	(4)	alwaya

17.	(1) (2) (3) (4) (5)	2 3 4 more than 4
18.	When do you com	nsume snacks? (check all that apply)
		sporting events
		traveling
	(3)	studving
	(4)	at parties
		watching TV
		between classes
	(7)	
		does not apply - I don't snack
19.	(check any that(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)	bored frustrated under stress tired happy sad depressed lonely restless does not apply - I don't snack
20.	(1) (2) (3) (4) (5) (6) (7) (8) (9)	<pre>ice cream/ice milk yogurt fruits/vegetables popcorn pizza nuts</pre>

21.	What do you usually drink at snack time? (ch	eck al	l th	nat a	pply	7)
	(2) tea					
	(3) coffee					
	(4) fruit juice concentrates					
	(5) fruit flavored drinks					
	(6) caffeinated soft drinks					
	(7) decaffeinated soft drinks					
	(8) diet caffeinated soft drinks					
	(9) diet decaffeinated soft drink	s				
	(10) alcoholic beverages					
	(11) water					
	(12) does not apply - I don't snac	k				
NUT	RITION AWARENESS INFORMATION					
22.	<u> </u>	reviou	sly	?		
	(1) yes (2) no					
	(2) no					
23.	If yes, where?					
	(1) junior high school					
	(2) high school					
	(3) college/university (4) government agencies					
	(4) government agencies					
	(5) 4-H					
	(6) other specify					
24.	For the following statements please circle to indicates your response. For each statement indicates that you strongly agree and the number of you strongly disagree. If the statement does ituation or you have no opinion please indicate number 3.	the mber 1 s not	numl ind	oer s dicat	es to you	that ur
		SA				SD
a.	I try to avoid snacks high in sodium.	5	4	3	2	1
b.	I try to avoid snacks high in sugar.	5	4	3	2	1
c.	I try to avoid snacks high in cholesterol.	5	4	3	2	1
d.	I try to avoid snacks high in fat.	5	4	3	2	1
e.	I try to avoid processed snacks.	5	4	3	2	1
f.	I consume snack foods that are enriched or whole-grain breads and cereals.	5	4	3	2	1
g.	The vitamin and mineral content of snack foods influences my selection.	5	4	3	2	1

i. I consume snacks high in simple carbohydrate.	5	4	3	2	1
j. I try to avoid empty calorie snack foods.	5	4	3	2	1
k. I consume snack foods high in nutrients.	5	4	3	2	1
1. I consume too many sugary snacks.	5	4	3	2	1
m. I avoid snack foods containing additives and preservatives.	5	4	3	2	1
n. Consuming highly salted snacks contributes to hypertension.	5	4	3	2	1
o. The calories in "natural" snacks such as granola bars or dried fruits aren't as fattening as calories in "junk-food" snacks.	5	4	3	2	1
p. Reading nutrient information on the labels of snack foods will help the consumer make a wise choice since the manufacturer must, by law, print the facts.	5	4	3	2	1
q. The consumer should always consume fortified snacks.	5	4	3	2	1
<pre>r. The price of a snack food determines if I purchase it.</pre>	5	4	3	2	1
s. The nutritional content of the snack food is important to me.	5	4	3	2	1
t. The brand or name of the snack product is important to me.	5	4	3	2	1
u. My consumption of snack food is related to my stress situation.	5	4	3	2	1
v. I am interested in increasing my nutrition knowledge.	5	4	3	2	1
w. My snack food purchases represent by impulse buying practices.	5	4	3	2	1
x. I prepare my own snack foods.	5	4	3	2	1
y. I purchase more snack foods for my family/roommate than I do for myself.	5	4	3	2	1
z. My family/roommate influences my choice of snack foods.	5	4	3	2	1

APPENDIX B

CHI-SQUARE TABLES

CODES FOR CHI-SQUARE TABLES

Corresponding to Table III:

- NUT1 I try to avoid snacks high in sodium.
- NUT3 I try to avoid snacks high in cholesterol.
- NUT5 I try to avoid processed snacks.
- NUT7 The vitamin and mineral content of snack foods influences my selection.
- NUT9 I consume snacks high in simple carbohydrate.
- NUT12 I consume too many sugary snacks.
- NUT13 I avoid snack foods containing additives and preservatives.
- NUT15 The calories in "natural" snacks such as granola bars or dried fruits aren't as fattening as calories in "junk-food" snacks.
- NUT16 Reading nutrient information on the labels of snack foods will help the consumer make a wise choice since the manufacturer must, by law, print the facts.
- NUT19 The nutritional content of the snack food is important.
- NUT21 My consumption of snack food is related to my stress situation.
- NUT22 I am interested in increasing my nutrition knowledge.
- NUT23 My snack food purchases represent my impulse buying practices.
- NUT25 I purchase more snack foods for my family/roommate than I do for myself.
- NUT26 My family/roommate influences my choice of snack foods.

Corresponding to Table IV:

DAYSPUR Number of days snack foods were purchased

FREQ Shopping habits

INFL1 Avaliability/convenience

INFL2 Family member/roommate

INFL5 Store marketing

INFL7 Recommendations by others

PURCH1 Convenience store

PURCH2 Supermarket

PURCH4 Vending

PURCH5 Retail and discount outlets

PURCH7 Sit-down restaurant

MEALS Number of meals consumed per day

SUBST Substitution of meals for snacks

CONSUME1 Sporting events

CONSUME3 Studying

CONSUME5 Watching TV

CONSUME7 At work

MOOD1 Bored

MOOD2 Frustrated

MOOD4 Tired

MOOD5 Happy

MOOD7 Depressed

TYPES2 Wheat products

TYPES3 Cheese

TYPES4 Ice cream/ice milk

TYPES5 Yogurt

TYPES7 Popcorn

TYPES8 Pizza

TYPES9 Nuts

TYPES10 Chips

DRINK1 Milk

DRINK2 Tea

DRINK3 Coffee

DRINK4 Fruit juice concentrates

DRINK5 Fruit-flavored drinks

DRINK6 Caffeinated soft drinks

DRINK7 Decaffeinated soft drinks

DRINK8 Diet Caffeinated soft drinks

DRINK9 Diet Decaffeinated soft drinks

DRINK10 Alcohol

DRINK11 Water

Corresponding to Table IV:

INFL2 Family mamber/roommate

INFL8 Other

PURCH2 Supermarket

CONSUME1 Sporting events

MOOD1 Bored

TYPES8 Pizza

DRINK5 Fruit-flavored drinks

DRINK8 Diet caffeinated soft drinks

DRINK10 Alcohol

AGE		NUT 1					MAJOR	ETUN			
EXPE CELL	UENCY CTED CHI2						FREQUENCY EXPECTED CELL CHI2 PERCENT				
ROW	PCT	41	2	TOTAL			ROW PCT				
	1	138	78	216				!	2	•	
	١.	128.2	87.8	210			2	90 78.4	59.6	138	
		.748914 49.64 63.89 83.64	1.09355 28.06 36.11 69.03	77.70				1.70628 32.37 65.22 56.96	2.24661 17.27 34.78 40.00	49.64	
	2	27 36.8	35	62			3	68	72	140	
		2.60912	25.2 3.80977					79.6 1.68191	60.4 2.21451		
		9.71 43.55	12.59 56.45	22.30				24.46 48.57	25.90 51.43	50.36	
		16.36	30.97					43.04	60.00		
TOTA	AL	165 59.35	113 40.65	278 100.00			TOTAL	158 56.83	120 43 . 17	278 100.00	
FREC	QUENCY	MISSING	- 1				FREQUENCY	MISSING	• 1		
STA	ATISTIC	S FOR TAE	BLE OF AGE	BY NUT1			STATISTICS	S FOR TAB	LE OF MAJO	OR BY NUT3	
STATISTIC			DF	VALUE	PROB	STATIST			DF	VALUE	PROB
CHI-SQUARE			1	8.261	0.004	CHI-SQU			1	7.849	0.005
PAC	CE	NUT3					AGE	NUT5			
	EQUENCY						FREQUENCY	1			
EXF	PECTED	1					EXPECTED				
PE	LL CHIS	1					PERCENT				
	OW PCT		1 2	TOTAL			ROW PCT	,	2	TOTAL	
	1		106	+ 259			1	175	41	216	
		147.7	111.3					168.6 .242608	47.4 863048		
		55.23 59.07		93.50				62.95 81.02	14.75	77.70	
		96.84	89.08					80.65	67.21		
	2	1 5	13	18			2	42	20	62	
		10.3	3.58766					48.4 .845215	13.6		
		1.81		6.50				15.11 67.74	7.19 32.26	22.30	
		3.16	10.92	1				19.35	32.79		
TO	TAL	158 57 . 04		277 100.00			TOTAL	217 78.06	61 21.94	278 100.00	
FR	EQUENC	Y MISSING	- 2				FREQUENCY	MISSING	- 1		
s	TATIST	ICS FOR T	ABLE OF RA	CE BY NUT3			STATISTIC	S FOR TAI	BLE OF AGE	BY NUTS	
STATISTIC			DF	VALUE	PROB	STATIST	1C		DF	VALUE	PROB
CHI-SQUARE			1	6.727	0.009	CHI - SQUA	ARE		1	4.958	0.026
MAJO	OR	NUT5					AGE	NUT7			
	OUENCY ECTED						FREQUENCY EXPECTED				
CELI	L CHI2						CELL CHI2 PERCENT				
ROV	W PCT		ا ما	TOTAL			ROW PCT			T0744	
		1	ii						2	•	
	2	115 107.7	30.3	138			1	165 158.9	50 56.1	215	
		41.37	8.27	49.64				.233153 59.78	0.6606 18.12	77.90	
		83.33 53.00	16.67 37.70					76.74 80.88	23.26 69.44		
	3	102	38	140			2	39	22	61	
		109.3 .485052	30.7					45.1 .821768	15.9 2.32834	•	
		36.69 72.86	13.67 27.14	50.36				14.13 63.93	7.97	22.10	
		47.00	62.30					19.12	30.56		
тот	AL	217 78.06	61 21.94	278 100.00			TOTAL	204 73.91	72 26.09	276 100.00	
FRE	ONENCY	MISSING	- 1				FREQUENCY	MISSING	- 3		
STA	TISTIC	S FOR TAB	LE OF MAJO	R BY NUT5			STATISTIC	S FOR TAE	BLE OF AGE	BY NUT7	
STATISTIC			DF	VALUE	PROB	STATIST			DF	VALUE	PROB
CHI-SQUARE			1	4.453	0.03	CHI-SQU			1	4.044	0.044

FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT	1			•	FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT					
COL PCT		1 2	TOTAL		COL PCT		2	TOTAL		
2	110		138		, 1	197	65 68.3	262		
	102.0	36.0 1.77778				.057877	. 163984			
	39.86 79.71	10.14 20.29	50.00			71.38 75.19	23.55	94.93		
	53.92	38.89				96.57	90.28	1		
3	94	44	138		2	7				
	102.0	36.0				10.3	3.7	İ		
	.627451 34.06	1.77778 15.94	50.00			2.54	2.54	5.07		
	68.12	31.88				50.00 3.43	50.00 9.72	1		
	46.08		!			-	÷	· ÷		
TOTAL	204 73.91		276 100.00		TOTAL	204 73.91	72 26.09	276 100.00		
FREQUENCY	MISSING	- 3			FREQUENCY MISSING - 3					
STATISTI:	S FOR TAI	BLE OF MAJ	OR BY NUT7		STATISTICS	FOR TABL	E OF MARI	TAL BY NUT?	,	
STATISTIC		DF	VALUE	PROB	STATISTIC		DF	VALUE	PROB	
CHI-SQUARE		1	4.810	0.028	CHI-SQUARE		1	4.374	0.036	
ogdent		•		2.220			•		0.036	
AGE	NUT9				SEX	NUT 12				
FREQUENCY	ı				FREQUENCY	ı				
EXPECTED	i				EXPECTED CELL CHI2					
CELL CHI2 PERCENT					PERCENT					
ROW PCT		1 2'	TO741		ROW PCT COL PCT		2	l roze:		
COL PCT		2					! - -	<u> </u>		
1	150 142.6	72.4	215		1	49 39.3	38 47.7	87		
	.388888	.765232				2.41643	1.9872			
	54.35 69.77	23.55	77.90		j	17.69 56.32	13.72 43.68	31.41		
	81.97	69.89				39.20	25.00			
2		28	61		2		114	190		
-	40.4	20.6	•			85.7	104.3	.30		
	1.37067	10.14	22.10			1.10647 27.44	.909928 41.16	68.59		
	54.10	45 90				40.00	60.00	00.55		
	18 03	30.11				60.80	75.00			
TOTAL	183	93	276		TOTAL	125	152	277		
	66.30	33.70	100.00			45.13	54.87	100.00		
		. 3			FREQUENCY	MISSING =	. 2			
FREQUENCY	MISSING									
					CT.171CT.0					
STATISTI		BLE OF AGE			STATISTIC	S FOR TAB				
STATISTI STATISTIC	CS FOR TA	BLE OF AGE	VALUE	PROB	STATISTIC		DF	VALUE	PROB	
STATISTI TATISTIC	CS FOR TA	BLE OF AGE	VALUE				DF	VALUE	PROB 0.011	
STATISTI	CS FOR TA	DF	VALUE		STATISTIC CHI-SQUARE		DF	VALUE		
STATISTIC CHI-SQUARE MARITAL	CS FOR TA	DF	VALUE		STATISTIC CHI-SQUARE RACE	 NUT 15	DF	VALUE		
STATISTIC HI-SQUARE MARITAL FREQUEN EXPECTE	CS FOR TA	DF	VALUE		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED	 NUT 15	DF	VALUE		
STATISTIC HI-SQUARE MARITAL FREQUEN	CS FOR TA	DF	VALUE		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2	 NUT 15	DF	VALUE		
STATISTIC HI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PO	CS FOR TA NUT1 CY D LI2 T	DF 1	VALUE 5.222		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT	 NUT 15	DF 1	VALUE 6 420	0.011	
STATISTIC HI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN	CS FOR TA	DF 1 3	VALUE 5.222 2 TOTAL		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CH12 PERCENT	NUT 15	DF 1	VALUE	0.011	
STATISTIC HI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PC COL PC	CS FOR TA NUT1 CY D II I T T T T 22	DF 1 3	VALUE 5.222 2 TOTAL -+ 258		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	NUT 15	DF 1 2	VALUE 6 420 TOTAL + + + 258	0.011	
STATISTIC HI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PC COL PC	NUT1 CY D I I 22 219. 0.6905	DF 1 3 35 1 38.9 31 38.93 11 38.93	2 TOTAL -+ 258		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	NUT 15	DF 1 2	VALUE 6 420 TOTAL + + + 258	0.011	
STATISTIC CHI-SQUARE MARITAL EXPECTE CELL CH PERCEN ROW PC COL PC	CS FOR TA NUT1 CY D 112 T T T 22 219, 06905 81,9	DF 1 3 35 1 38.9 11 3.88.9 12.87	VALUE 5.222 2		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	NUT 15	DF 1 2 88 92.5 .223065 31.88	VALUE 6 420 TOTAL + + + 258	0.011	
STATISTIC CHI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PC COL PC	CS FOR TA NUT1 CY D 112 T T T 22 219. 06905 81 9 86.4 96.5	DF 1 3 35 1 38.9 11 389044 9 12.87 3 13.57 3 14.85 57	VALUE 5.222 2 TOTAL		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENI ROW PCT COL PCT	NUT 15 170 165.5 124765 61.59 65.89 96.05	DF 1 88 92.5 223065 31.88 34.11 88.89	VALUE 6 420 TOTAL 258 93.48	0.011	
STATISTIC CHI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PC COL PC	CS FOR TA NUT1 CY D 11 T T T 1 22 219. 06905 81 9 86 4 96 5	DF 1 3 35 1 38.9 11 389.04 9 12.87 3 13.57 4 8 5 3 6 8 8 6 8	VALUE 5.222 2 TOTAL + 258 94.85		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	NUT 15 1 170 165.5 124765 61.59 96.05	DF 1 1 88 92.5 .223065 31.88 34.11 88.89	VALUE 6 420 TOTAL 258 93.48	0.011	
STATISTIC CHI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PC COL PC	NUT1 CY D 112 T T 1 22 219 .06905 86.9 86.9 96.5	DF 1 3 3 1 38.9 11 .389044 93 12.57 4 85 37 8 6 6 9 2.1	VALUE 5.222 2 TOTAL		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENI ROW PCT COL PCT	NUT15 1 170 165.5 124765 61.59 96.05 7 11.5	DF 1 1 88 92.5 223065 31.88 34.11 88.89	VALUE 6 420 TOTAL 258 93.48	0.011	
STATISTIC HI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PC COL PC	CS FOR TA NUT1 CY D 112 T T T 1 22 219, 06905 81,9 86,4 96,5	DF 1 3 35 1 38.9 11 389.04 9 12.87 3 13.57 4 85.37 8 6 9 2.1 17.16953 4 2.21	VALUE 5.222 2		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	NUT15 1 170 165.5 124765 61.59 96.05 7 11.5	DF 1 88 92.5 .223065 31.88 34.11 88.89	VALUE 6 420 TOTAL 258 93.48	0.011	
STATISTIC HI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PC COL PC	CS FOR TA NUT1 CY D 11 229 .06905 81.9 86.4 96.5 2 11. 1.2725 2.9 57.1	DF 1 3 35 1 38.9 12.87 13.57 14.9 12.87 14.57 14.58 15.7 16.95 14.4 42.86	VALUE 5.222 2		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	NUT15 1 170 165.5 124765 61.59 65.89 96.05 7 11.7853 2.54 38.89	DF 1 1 88 92.5 223065 31.88 34.11 88.89 11 6.5 3.19726 3.99 61.11	VALUE 6 420 TOTAL 258 93.48	0.011	
STATISTIC HI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PC COL PC	NUT1 CY D 1	DF 1 3 35 1 38.9 44 85 37 8 6 9 2.1 7 16953 44 42.8 66 14.63	VALUE 5.222 2		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1	NUT15 170 165.5 124765 61.59 65.89 96.05 7 11.5 1.7883 2.54 38.89 3.95	DF 1 1 88 92.5 .223065 31.88 34.11 88.89 11 6.5 3.19726 3.99 61.11 11.11	VALUE 6 420 TOTAL 258 93.48 18 6.52	0.011	
STATISTIC CHI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PC COL PC	CS FOR TA NUT1 CY D 11 T T T 1 229. 06905 81 9 86. 4 96. 5 2 11. 1.2725 2.9 57.1 3.4 23	DF 1 3 35 1 38.9 11 389.04 9 12.87 3 13.57 8 8 6 9 2.1 1 7.16953 4 2.21 4 42.86 6 14.63	VALUE 5.222 2 TOTAL 258 94.85 14 5.15		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1	NUT 15 1 170 165.5 1.24765 61.59 65.89 96.05 1.7883 2.54 38.89 3.95	DF 1 88 92.5 223065 31.88 34.11 88.89 11 6.5 3.19726 3.99 61.11 11.11	TOTAL 258 93.48 18 6.52	0.011	
STATISTIC HI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PC COL PC	NUT1 CY D 1	DF 1 3 35 1 38.9 11 389.04 9 12.87 3 13.57 8 8 6 9 2.1 1 7.16953 4 2.21 4 42.86 6 14.63	VALUE 5.222 2 TOTAL 258 94.85 14 5.15		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1	NUT 15 1 170 165.5 1.24765 61.59 65.89 96.05 1.7883 2.54 38.89 3.95	DF 1 1 88 92.5 .223065 31.88 34.11 88.89 11 6.5 3.19726 3.99 61.11 11.11	VALUE 6 420 TOTAL 258 93.48 18 6.52	0.011	
STATISTIC CHI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PC COL PC TOTAL	CS FOR TA NUT1 CY D 11 T T T 1 229. 06905 81 9 86. 4 96. 5 2 11. 1.2725 2.9 57.1 3.4 23	DF 1 3 35 1 38.9 1 1 2.87 3 13.57 4 85.37 8 6 9 2.1 1 7.16953 8 9 4 42.86 6 14.63 11 4.13 15.07	VALUE 5.222 2 TOTAL 258 94.85 14 5.15		STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1	NUT15 1 170 167.5 124765 61.59 96.05 7 11.5 1.7883 2.54 38.89 3.95	DF 1 1 88 92.5 .223065 31.88 34.11 88.89 11 6.5 3.19726 3.99 61.11 11.11 99 35.87	TOTAL 258 93.48 18 6.52	0.011	
STATISTIC CHI-SQUARE MARITAL FREQUEN COL PC COL PC TOTAL	NUT1 CY D 112 T T T 1 22 219. 06905 81.9 86.4 96.5 2 11. 1.2725 2 11. 1.2725 3.4 23 84.9	DF 1 3 3 11 33.3 35.9 11.389044 9.12.87 3.315.77 8.8 6.9 2.1 11.716953 14.2.86 14.63 14.63 15.07	VALUE 5.222 2 TOTAL	0.022	STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1 TOTAL FREQUENCY	NUT15 1 170 165.5 124765 61.59 65.89 96.05 1.7883 2.54 38.89 3.95 177 64.13	DF 1 88 92.5 223065 31.88 34.11 88.89 11 6.5 3.19726 3.99 61.11 11.11 99 35.87	TOTAL 258 93.48 18 6.52 276 100.00	0.011	
STATISTIC HI-SQUARE MARITAL FREQUEN COL PC COL PC TOTAL	NUT1 CY D 112 T T T 1 22 219. 06905 81.9 86.4 96.5 2 11. 1.2725 2 11. 1.2725 3.4 23 84.9	DF 1 3 3 11 33.3 35.9 11.389044 9.12.87 3.315.77 8.8 6.9 2.1 11.716953 14.2.86 14.63 14.63 15.07	VALUE 5.222 2 TOTAL 258 94.85 14 5.15	0.022	STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1	NUT15 1 170 165.5 124765 61.59 65.89 96.05 1.7883 2.54 38.89 3.95 177 64.13	DF 1 88 92.5 223065 31.88 34.11 88.89 11 6.5 3.19726 3.99 61.11 11.11 99 35.87	TOTAL 258 93.48 18 6.52 276 100.00	0.011	
STATISTIC CHI-SQUARE MARITAL FREQUEN EXPECTE CELL CH PERCEN ROW PC COL PC TOTAL FREQUEN STATISTIC	CS FOR TA NUT1 CY D 11 T T T 1 22 19 06905 81 9 86 4 96 5 2 11. 1.2725 2.9 57.1 3.4 2.9 67.1 3.4 CS FOR TA	DF 1 3 35 1 38 9 13 38 9 13 38 9 13 38 9 13 38 9 13 37 18 18 5 37 8 6 9 2 1 1 7 16953 14 42 86 6 14 63 11 41 19 15 07	VALUE 5.222 2	0.022	STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENI ROW PCT COL PCT 1 TOTAL FREQUENCY STATISTICS	NUT 15 170 165.5 124765 61.59 65.89 96.05 17, 11.88 2.54 38.89 3.95 177 64.13	DF 1 88 92.5 223065 31.88 34.11 88.89 11 6.5 3.19726 3.99 61.11 11.11 99 35.87	VALUE 6 420 TOTAL 258 93.48 18 6.52 276 100.00	0.011	
STATISTIC SHI-SQUARE MARITAL FREQUEN EXPECTE CELL CM PERCEN ROW PC COL PC TOTAL FREQUEN STATISTI	CS FOR TA NUT1 CY D 11 T T T 1 22 19 06905 81 9 86 4 96 5 2 11. 1.2725 2.9 57.1 3.4 2.9 67.1 3.4 CS FOR TA	DF 1 3 35 1 38 9 13 38 9 13 38 9 13 38 9 13 38 9 13 37 18 18 5 37 8 6 9 2 1 1 7 16953 14 42 86 6 14 63 11 41 19 15 07	VALUE 5.222 2	0.022	STATISTIC CHI-SQUARE RACE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1 TOTAL FREQUENCY STATISTICS	NUT 15 170 165.5 124765 61.59 65.89 96.05 17, 11.88 2.54 38.89 3.95 177 64.13	DF 1 88 92.5 223065 31.88 34.11 88.89 11 6.5 3.19726 3.99 61.11 11.11 99 35.87	VALUE 6 420 TOTAL 258 93.48 18 6.52 276 100.00	0.011	

MARITAL

MAJOR

NUT7

NUT7

FREQUENCY (1 2) TOTAL (1 1) 2 TOTAL (1 1) 3	SEX NUT 16			MARITAL NUT 19
CELL CHI2				
SOURCE 1	CELL CH12			CELL CH12
1	ROW PCT			ROW PCT
133 9 120 1 130 120 1 130 120 1 130 120 1 130 120 1 140 1 130 120 1 140 1 140 1 130 1 140		2) TOTAL		
## 4 0 15 8 1.86 132 31.41 195001 200016 44 77 94.95 44 77 94.95 44 77 94.95 44 77 94.95 44 77 94.95 95.86 97.16 44 77 94.95 95.86 97.16 97.00				
### 190 190 2 2 12 14	4.07519	1.96132		. 196301 . 203518
1	44.83	55.17		
2 51 139 139 190 2 2 12 14 14 150 16 660 10 680	43.33			98.58 91.18
1.				2 2 12 14
18 4 50 18 66.59 0.72 6.30 9 00	1.86601	0.89808		7.1 6.9 3.68765 3.82323
1.6				0.72 4.33 5.05
TOTAL 30 187 277 1010.00 50 80 41 48 10 100 00 100 00 100 00 100 100 00 100 100 00				1.42 8.82
STATISTIC OF VALUE PROB STATISTIC FOR TABLE OF MARITAL BY NUT19 STATISTIC OF VALUE PROB STATISTIC OF	TOTAL 90	187 277		TOTAL 141 136 277
STATISTIC OF VALUE PROB STATISTIC OF VALUE PROB CHI-SQUARE 1 8.801 0.003 CHI-SQUARE 1 7.911 0.005 STATISTIC OF VALUE PROB STATISTIC OF VALUE PROB CELL CHI2 PROBUNCY SERVECTED CELL CHI2 PROBUNCY CELL CHI2 PROBUNCY CELL CHI2 PROBUNCY COL PCT 1 2 TOTAL COL PCT 1 1 2 TOTAL COL PCT 1 1 2 TOTAL COL PCT 1 1 1 2 TOTAL COL PCT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32.49	67 51 100.00		50 90 49.10 100.00
STATISTIC OF VALUE PROB STATISTIC OF VALUE PROB CHI-SQUARE 1 8.801 0.003 CHI-SQUARE 1 7.911 0.005 STATISTIC OF VALUE PROB STATISTIC OF VALUE PROB CELL CHI2 PROBUNCY SERVECTED CELL CHI2 PROBUNCY CELL CHI2 PROBUNCY CELL CHI2 PROBUNCY COL PCT 1 2 TOTAL COL PCT 1 1 2 TOTAL COL PCT 1 1 2 TOTAL COL PCT 1 1 1 2 TOTAL COL PCT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EREQUENCY MISSING	• 2		EDECHENCY MISSING - 2
STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB	PREGOENCY MISSING	•		PREQUENCE MISSING # 2
STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB				
SEX NUT21 SEX NUT21 FREQUENCY EXPECTED COLUMN FOR THE PROBEMANTESTIC DF VALUE PROBEMANTESTIC DF VALU	STATISTICS FOR TAR	BLE OF SEX BY NUT 16		STATISTICS FOR TABLE OF MARITAL BY NUT19
SEX NUT21 SEX NUT21 FREQUENCY EXPECTED COLUMN FOR THE PROBEMANTESTIC DF VALUE PROBEMANTESTIC DF VALU	STATISTIC	DE VALUE	ppna	STATISTIC DE MANAGEMENT DE
SEX MUT21 AGE MUT22				
FREQUENCY CELL CHI2 PROBESTATISTIC	CHI-SQUARE	1 8.801	0.003	CHI-SQUARE 1 7 911 0.00
FREQUENCY MISSING * 2 FREQUENCY MISSING * 3	SEX NUT21			AGE NUT22
EXPECTED CELL CHI2 FINAL				
PERCENT ROW NCT COL NCT 2 TOTAL PERCENT ROW NCT COL NCT 1 2 TOTAL 1 4 4 3 4 4 3 4 4 3 4 4	EXPECTED			
ROW PCT 1 2 101AL ROW PCT 1 2 101AL ROW PCT 1 2 101AL				
1 458 429 87	ROW PCT	1 21 1014		ROW PCT
44 3 42.77 40.253 27.7				
4 24737 4 40353 31.41 91561 364045 264045 277 98 27 44.13 21.32 28.33 29.44 27.36 28.44 27.45 28.44 27.45 28.44 27.45 28.44 27.45 28.44 27.45 28.44 27.45 28.44 27.45 28.44				
66.67 33.33 225.46 74.54 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 88.71 77.4.88 77.62 100.00 78.71 79				.915641 .264045
2 83 107 190 2 17 7 54 61	66.67	33.33		25.46 74.54
96.7 93.3 13.7 47.3 3.24227 13.8 2.1635 2.01635				88.71 74.88
1 94485 2 01635 26 8 99 38 63 2 53 19 49 2 53				
43 68 56 32 11 .29 25 12 11 .29 25 12 11 .29 25 12 11 .29 25 12 12 12 12 12 12 12	1.94485	2.01635		3.24227 .934981
11.29 25.12 TOTAL	43.68	56 32		
TOTAL 141 136 277 TOTAL 62 215 277 50.90 49 10 100.00 FREQUENCY MISSING • 2 STATISTICS FOR TABLE OF SEX BY NUT21 STATISTICS FOR TABLE OF AGE BY NUT22 STATISTIC DF VALUE PROB STATISTIC PROB VALUE PROB STATISTIC				
FREQUENCY MISSING * 2 STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB CHI-SQUARE 1 12 612 0.000 CHI-SQUARE 1 5.357 0.021 MARITAL NUT22 FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1 2 TOTAL COL PCT 1 49.82 23.10 26.71				TOTAL 62 215 277
STATISTICS FOR TABLE OF SEX BY NUT21 STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB CHI-SQUARE 1 12.612 0.000 CHI-SQUARE 1 5.357 0.021 MARITAL NUT22 MAJOR NUT23 FREQUENCY EXPECTED CELL CH12 PROCENT ROW PCT COL PCT 1 2 TOTAL 1 62 201 263 72.66 94.95 22.38 72.56 94.95 22.38 72.56 100.00 93.49 2 0 0 104 14 3 72.8 66.2 23.10 26.71 24.11 25.06 2 0.00 100.00 93.49 2 0 0 104 14 3 86.06 66.2 29.24 20.94 50.18 50.66 43.94 TOTAL 62 215 277 TOTAL 33 72.86 66.2 93.13577 71.02462 55.86 43.94 TOTAL 62 215 277 TOTAL 145 132 277 TOTAL 62 215 277 TOTAL 155.86 43.94 TOTAL 62 215 277 TOTAL 155.86 43.94 TOTAL 62 215 277 TOTAL 155.36 43.94 TOTAL 62 215 277 TOTAL 155.36 43.94 TOTAL 62 215 277 TOTAL 145 132 277 TOTAL 62 215 277 STATISTICS FOR TABLE OF MAJOR BY NUT23 STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB	30.30	45.10		22.36 77.62 100.00
STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB	FREQUENCY MISSING	2		FREQUENCY MISSING = 2
STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB				
STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB	STATISTICS FOR TA	BLE OF SEX BY NUT21		STATISTICS FOR TABLE DE ACE DY AUTON
CHI-SQUARE 1 12 612 0.000 CHI-SQUARE 1 5.357 0.021 MARITAL NUT22 FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1 2 TOTAL 1 62 201 263 2 72 64 74 138 939517 1.03204 22 38 72.86 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 23.57 76.43 94.95 25.55 86.8 139 72.8 66.2 932757 1.02462 932757 1.02462 932757 1.02462 932757 1.02462 932757 1.02462 932757 1.02462 932757 1.02462 932757 1.02462 932757 1.03246 94.95 932757 1.03246 94.95 95.05 95.				THE DE NOTES
## CHI-SQUARE 1 12.612 0.000 CHI-SQUARE 1 5.357 0.021 MARITAL NUT22				
MARITAL NUT22 MAJOR NUT23				CHI-SOLIADE
FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1 2 TOTAL COL				0.021
EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1	MARITAL NUT22			MAJOR NUT23
CELL CH12 PERCENT ROW PCT COL PCT 1 2 TOTAL	FREQUENCY			FREQUENCY
PERCENT ROW PCT COL PCT 1 2 TOTAL ROW PCT COL PCT 1 2 TOTAL 1 62 201 263 2 72.2 65.8 939517 1.03204 23.10 26.71 49.82 23.57 76.43 100.00 93.49 2 44.14 56.06 2 0 14 14 3 8 53.62 44.14 56.06 2 93.2757 1.02462 93.13357 90.635 93.05 5.05 29.2757 1.02462 93.2757 1.02462 93.13357 90.00 5.05 5.05 29.24 20.94 50.18 55.86 43.94 50.18 55.86 43.94 50.18 55.86 43.94 50.18 55.86 43.94 55.86 5				CELL CHI2
COL PCT 1 2 TOTAL COL PCT 1 2 TOTAL	PERCENT			
1	COL PCT			COL PCT 1 2 TOTAL
100 100		: :		2 64 74 138
22 38 72 56 23 10 26 71 49 82	58.9	204.1		72.2 65.8 939517 1.03204
100.00 93.49 44.14 56.06	22.38	72.56 94.95		23.10 26.71 49.82
2				44.14 56.06
10.9 72.8 66.2 932757 1.02462 932757 1.02462 932757 1.02462 932757 1.02462 932757 1.02462 932757 1.02462 93.00				
0.00	3.1	10.9		72.8 66.2
0.00 6.51 55.86 43.94	0.00	5.05 5.05		29.24 20.94 50.18
TOTAL 62 215 277 TOTAL 145 132 277 22.38 77.62 100.00 52.35 47.65 100.00 FREQUENCY MISSING = 2 FREQUENCY MISSING = 2 STATISTICS FOR TABLE OF MARITAL BY NUT22 STATISTICS FOR TABLE OF MAJOR BY NUT23 STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB	0.00	6.51		55.86 43.94
22.38 77.62 100.00 52.35 47.65 100.00 FREQUENCY MISSING = 2 STATISTICS FOR TABLE OF MARITAL BY NUT22 STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB		215 277		TOTAL 145 132 277
STATISTICS FOR TABLE OF MARITAL BY NUT22 STATISTICS FOR TABLE OF MAJOR BY NUT23 STATISTIC DF VALUE PROB STATISTIC DF VALUE 'PROB		77.62 100.00		52.35 47.65 100.00
STATISTICS FOR TABLE OF MARITAL BY NUT22 STATISTICS FOR TABLE OF MAJOR BY NUT23 STATISTIC DF VALUE PROB STATISTIC DF VALUE 'PROB		- •		EDECHENCY HISCING - 2
STATISTIC DF VALUE PROB STATISTIC DF VALUE 'PROB	FREQUENCY MISSING	- 2		LKEANEUCI WISSING # 5
STATISTIC DF VALUE PROB STATISTIC DF VALUE 'PROB				
	STATISTICS FOR TAB	LE OF MARITAL BY NUT	22	STATISTICS FOR TABLE OF MAJOR BY NUT23
	STATISTIC	DF VALUE	PROR	STATISTIC OF VALUE PROB
UNIT-SQUARE 1 4,252 U.QJ9 CHI-SQUARE I 3.929 0.047				
	CHI-SQUARE	1 4,252	0.039	GHI-3QUARC I 3,828 0.04

AGE	NUT 25								
FREQUENCY					MARITAL	NUT25			
EXPECTED	i				FREQUENCY EXPECTED				
CELL CHI2 PERCENT					CELL CHI2				
ROW PCT			*****		PERCENT ROW PCT				
COL PCT	·	÷	TOTAL		COL PCT	1	2	TOTAL	
1	192	28.0	215		1	233	29	262	
	. 136057	.907044				227.8 .117499	34.2 .783328		
	69.57 89.30	8.33	77.90			84.42	10.51	94.93	
	80.00	63.89				88.93 97.08	11.07 80.56		
2	48	13	61						
	53.0 .479544	8.0 3.19696			2	7 12.2	1.8	14	
	17.39	4.71	22.10		, j:	2.19891	14.6594		
	78.69 20.00	21.31				2.54 50.00	2.54 50.00	5.07	
	i	·				2.92			
TOTAL	240 86.96	36 13.04	276 100.00		TOTAL.	240 86.96	36 13.04	276 100.00	
FREQUENCY	MISSING	- 3			FREQUENCY !			100.00	
							-		
STATISTI	CS FOR TAI	BLE OF AGE	BY NUT25		STATISTICS	FOR TABLE	OF MARIT	AL BY NUT2	5
STATISTIC		DF	VALUE	PROB	STATISTIC		DF	VALUE	PROB
CHI-SQUARE		1	4.720	0.030	CHI-SQUARE			17.759	0.000
								35	0.000
SEX	NUT26				MARITAL	NUT26			
FREQUENCY	1				FREQUENCY				
EXPECTED	1				EXPECTED				
CELL CHIZ PERCENT					CELL CHI2				
ROW PCT COL PCT	,	1 21	TOTAL		ROW PCT				
	·		TOTAL		COL PCT	1	2	TOTAL	
1	55.5	31.5	87		1	171		262	
	1.0198	1.79484				167.1 .092328	94.9 162498		
	22.83	8.70 27.59	31.52			61.96	32 97	94.93	
	35.80	24.00				65.27 97.16	91.00	ļ	
2	113	76	189				·	•	
_	120.5	68.5			2	5 8.9		14	
	40.94	27.54	68 48		`	1.72786	3.04104		
	59.79	40.21				1.81 35.71	3.26 64.29	5.07	
	64.20	76.00				2.84	9.00	!	
TOTAL	176 63.77	100 36.23	276 100.00		TOTAL		100 36 . 23		
		_							
FREQUENCY	MISSING	• 3			FREQUENCY	MISSING	• 3		
STATISTI	CS FOR TA	BLE OF SEX	BY NUT26		STATISTICS	FOD 710:			
					STATISTICS	FUR TABL	E OF MARIT	AL BY NUT2	6
STATISTIC		DF	VALUE	PROB	STATISTIC				
CHI-SQUARE							DF	VALUE	PROB
		1	4.110	0.043					
		1	4.110		CHI-SQUARE	FREQ	• • • • • • • • •		PROB 0.025
		1	4.110		CHI-SQUARE SEX		• • • • • • • • •		
AGE	DAYSPUR	1	4.110		CHI-SQUARE SEX FREQUENCY EXPECTED		• • • • • • • • •		
FREQUENCY		1	4.110		CHI-SQUARE SEX FREQUENCY		• • • • • • • • •		
		1	4.110		CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT	FREQ	1	5 024	
FREQUENCY EXPECTED CELL CHIZ PERCENT		1	4.110		CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	FREQ 1	1	5 O24	
FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT					CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	FREQ 1	1 2	5 O24	
FREQUENCY EXPECTED CELL CHIZ PERCENI ROW PCT COL PCT	1	1 2	TOTAL		CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	42 30.1 4.71079	1 2 47 58.9 2.4066	5 O24	
FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	139 130.1	1 2 77 85.9			CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	FREQ 1	1 47 58.9 2.4066 16.91	5 O24	
FREQUENCY EXPECTED CELL CHIZ PERCENI ROW PCT COL PCT	139	77 85.9 929102	TOTAL 216		CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	42 30.1 4.71079 15.11 47.19 44.68	1 2 47 58.9 2.4066 16.91 52.81	5 O24	
FREQUENCY EXPECTED CELL CHIZ PERCENI ROW PCT COL PCT	139 130.1 .613871 49.82 64.35	77 85.9 .929102 27.60 35.65	TOTAL		CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	42 30.1 4.71079 15.11 47.19 44.68	1 2 47 58.9 2.4066 16.91 52.81 25.54	5 024	
FREQUENCY EXPECTED CELL CHIZ PERCENTI ROW PCT COL PCT	139 130-1 .613871 49.82 64.35 82.74	2 77 85.9 929102 27.60 35.65 69.37	TOTAL 216 77.42		CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	1 42 30.1 4.71079 15.11 47.19 44.68	1 37 58.9 2.4066 16.91 52.81 25.54	5 024	
FREQUENCY EXPECTED CELL CHIZ PERCENT ROW PCT COL PCT	139 130.1 .613871 49.82 64.35 82.74	77 85.9 929102 27.60 35.65 69.37	TOTAL 216		CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	11 42 30.1 4.71079 15.11 47.19 44.68 52 63.9 2.21831 18.71	47 58.9 2.4066 16.91 52.81 125.54	5 024	
FREQUENCY EXPECTED CELL CHIZ PERCENTI ROW PCT COL PCT	139 130.1 .613871 49.82 64.35 82.74 29 37.9 2.1047	2 77 85.9 929102 27.60 69.37 34 25.1 3.18549	TOTAL 216 77.42		CHI-SOUARE SEX FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1	42 30.1 4.71079 15.11 47.199 44.68 52 63.9 2.21831	1 2 47 58.9 2.4066 16.91 52.81 25.54 137 125.1 1.13327	5 024	
FREQUENCY EXPECTED CELL CHIZ PERCENTI ROW PCT COL PCT	139 130.1 613871 49.82 64.35 82.74	77 85.9 929102 27.60 35.65 69.37 3.18549 12.19	TOTAL 216 77.42		CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1	11 42 30.1 4.71079 15.11 47.199 44.68 52 63.99 2.21831 18.71 27.51 55.32	1 2 47 58.9 2.4066 16.91 25.54 137 125.1 1.13327 49.28 72.49 74.46	5 024 TOTAL 89 32.01 189 67.99	
FREQUENCY EXPECTED CELL CHIZ PERCENTI ROW PCT COL PCT	139 130,1 1613871 49,82 64,35 82,74 29 37,9 2,1047 10,39 46,03 17,26	77 85.9 929102 27.60 35.65 69.37 25.1 3.18549 12.19 53.97 30.63	TOTAL 216 77.42		CHI-SOUARE SEX FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1	11 42 30.1 4.71079 15.11 47.199 44.68 52 63.99 2.21831 18.71 27.51	47 58.9 2.4066 16.91 52.81 125.54 137 125.1 1.13327 49.28 72.49	5 024 TOTAL 89 32.01 189 67.99	
FREQUENCY EXPECTED CELL CHIZ PERCENTI ROW PCT COL PCT	139 130.1 613871 49.82 64.35 82.74 29 37.9 2.1047 10.39 46.03 17.26	2 77 85.9 929102 27.60 35.65 69.37 25.1 3.18549 12.19 53.97 30.63	TOTAL 216 77.42 63 22.58		CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1	11 30.1 4.71079 15.11 47.19 44.68 52 63.9 2.21831 18.71 27.51 55.32	1 2 58.9 2.4066 16.91 52.81 125.54 137 125.1 1.13327 49.28 72.49 74.46	5 O24 TOTAL 89 32.01 189 67.99	
FREQUENCY EXPECTED GELL CHIZ PERCENI ROW PCT COL PCT	139 130.1 613871 49.82 64.35 82.74 29 37.9 2.1047 10.39 46.03 17.26	2 77 85.9 .929102 27.60 35.65 69.37 34 25.1 3.18549 12.19 53.97 30.63	TOTAL 216 77.42 63 22.58		CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1	FREQ 11 42 30.1 4.71079 15.11 47.199 44.68 52 63.99 2.21831 18.71 27.51 55.32 94 33.81	1 2 47 58.9 2.4066 16.91 52.81 25.54 1377 49.28 72.49 74.46 184 66.19	5 O24 TOTAL 89 32.01 189 67.99	
FREQUENCY EXPECTED CELL CHIZ PERCENTI ROW PCT COL PCT 1	139 130.1 613871 49.82 64.35 82.74 29 37.9 2.1047 10.39 46.03 17.26	77 85.9 929102 27.60 35.65 69.37 34 25.1 3.18549 12.19 53.97 30.63	TOTAL 216 77.42 63 22.58 279 100.00	0.043	CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1 TOTAL	11 42 30.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1 2 58.9 2.4066 16.91 52.81 125.54 137 125.1 1.13327 49.28 72.49 74.46	5 O24 TOTAL 89 32.01 189 67.99 278 100.00	
FREQUENCY EXPECTED CELL CHIZ PERCENTI ROW PCT COL PCT 1	139 130.1 613871 49.82 64.35 82.74 29 37.9 2.1047 10.39 46.03 17.26	77 85.9 929102 27.60 35.65 69.37 34 25.1 3.18549 12.19 53.97 30.63	TOTAL 216 77.42 63 22.58	0.043	CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1 TOTAL	11 42 30.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1 2 58.9 2.4066 16.91 52.81 125.54 137 125.1 1.13327 49.28 72.49 74.46	5 O24 TOTAL 89 32.01 189 67.99	
FREQUENCY EXPECTED CELL CHII PERCENI ROW PCT COL PCT 1 TOTAL STATISTIC	139 130.1 49.82 64.35 82.74 29 37.9 2.1047 10.39 46.03 17.26	2 77 85.9 .929102 27.600 .5.65 69.37 34 12.19 53.97 30.63 111 39.78 .7	TOTAL 216 77.42 63 22.58 279 100.00	0.043	CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1 TOTAL FREQUENCY STATISTIC	11 42 30.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1 2 47 58.9 2.4066 16.91 52.81 25.54 137 125.1 1.13327 49.28 72.49 74.46 66.19	5 024 TOTAL	0.025
FREQUENCY EXPECTED CELL CHIZ PERCENTI ROW PCT COL PCT 1 TOTAL	139 130.1 49.82 64.35 82.74 29 37.9 2.1047 10.39 46.03 17.26	2 77 85.9 .929102 27.600 .5.65 69.37 34 12.19 53.97 30.63 111 39.78 .7	TOTAL 216 77.42 63 22.58 279 100.00	0.043	CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1 TOTAL	11 42 30.1 4.71079 15.11 47.199 44.68 63.99 2.21831 18.71 27.51 55.32 94 33.81 MISSING	1 2 47 58.9 2.4066 16.91 52.81 25.54 137 49.28 72.49 74.46 184 66.19	5 O24 TOTAL 89 32.01 189 67.99 278 100.00	

FREQUENCY										
	1					REQUENCY				
EXPECTED CELL CHI2	ļ					PECTED				
PERCENT	l					PERCENT				
ROW PCT	1				R	OW PCT				
COL PCT	1 1	2	TOTAL		_ c	OL PCT	0		TOTAL	
1	60	78	138			1	40	49	89	
	46.7	91.3					32.7	56.3		
	3.81266 21.58	1.94777	49.64				1.65225	.957556 17.63	32.01	
	43.48	56.52	43.04				44.94	55.06	32.01	
	63.83	42.39					39.22	27.84		
	34	1 106	140					+	1 400	
2	47.3	92.7	140			2	62 69.3	119.7	189	
	3.75819	1.91995	Ì				.778045	.450912		
	12.23	38.13	50.36				22.30	45.68	67.99	
	24.29	75.71					32.80	67.20		
	36.17	57.61	!				60.78	72.16	<u> </u>	
TOTAL	94	184	278			DTAL	102	176	278	
	33.81	66.19	100.00				36.69	63.31	100.00	
FREQUENCY	MISSING	- 1			FF	REQUENCY	MISSING	- 1		
STATISTICS	FOR TABL	E OF MEMB	ERS BY FREC	Q	9	STATISTIC	S FOR TAI	BLE OF SE	X BY INFL1	
ATISTIC		DF	VALUE	PROB	STATISTIC			DF	VALUE	PRO
I-SQUARE		1	11.439	0.001	CHI-SQUARE	E		1	3.839	0.0
					**	AJUR				
SEX	INFL2				m,	AUUR	INFES			
FREQUENCY					FF	REQUENCY	1			
EXPECTED						XPECTED				
CELL CHI2						ELL CHI2 PERCENI				
ROW PCT						ROW PCT				
COL PCT	0		TOTAL			OL FCT	0			
	84	3	87			2	129	7		
1	75.6	11.4				-	132 5	3.5	136	
	0.94054	6.21801					093789	3 57739		
	30.66 96.55	1.09 3.45	31.75				47.08	2.55	49.64	
	35.29	8.33					94.85 48.31	5.15 100.00		
					• •					
2	154	24.6	187			3	138	0	138	
	162.4	2.89287					134.5 0 09243	3.5 3.52555		
	56 20	12.04	68.25				50.36	0.00	50.36	
	82 35	17.65						0.00		
							100.00	0.00		
	64.71	91.67					51.69	0.00		
TOTAL	ii	91.67	274		 TC	DTAI.	51.69	0.00	274	
TOTAL	238 86.86	ii	274 100.00		 TC	DTAI.		0.00	274 100.00	
TOTAL	238	36			 TC	DTAI.	51.69 267	0.00		
	238	36 13.14					51.69 267	0.00 7 2.55		
	238 86.86	36 13.14					51.69 267 97.45	0.00 7 2.55		
	238 86.86	36 13.14					51.69 267 97.45	0.00 7 2.55		
FREQUENCY	238 86.86 MISSING	36 13.14	100 . 00		FF	REQUENCY	51.69 267 97.45 MISSING =	7 2.55	100.00	
FREQUENCY	238 86.86 MISSING	36 13.14	100 . 00		FF	REQUENCY	51.69 267 97.45 MISSING =	7 2.55		
FREQUENCY STATISTI	238 86.86 MISSING	36 13.14 = 5	100.00	PROB	F F S 1	REQUENCY	51.69 267 97.45 MISSING =	7 2.55 = 5	100.00	DDO B
FREQUENCY STATISTI	238 86.86 MISSING	36 13.14 = 5 BLE OF SEX	100.00 (BY INFL2 VALUE		FF STATISTIC	REQUENCY FATISTICS	267 97.45 MISSING =	7 2.55	100.00 OR BY INFL5 VALUE	PROB
FREQUENCY STATISTI ATISTIC	238 86.86 MISSING	36 13.14 = 5 BLE OF SEX	100.00	PROB 0 001	FF STATISTIC	REQUENCY FATISTICS	267 97.45 MISSING =	7 2.55 = 5 E OF MAJO	100.00 OR BY INFL5 VALUE	
FREQUENCY STATISTI ATISTIC II-SQUARE	238 86.86 MISSING	36 13.14 = 5 BLE OF SEX	100.00 (BY INFL2 VALUE		STATISTIC CHI-SOUARE	REQUENCY FATISTICS	267 97.45 MISSING =	7 2.55 = 5 .E OF MAJO	100.00 OR BY INFL5 VALUE	
FREQUENCY STATISTI	238 86.86 MISSING	36 13.14 = 5 BLE OF SEX	100.00 (BY INFL2 VALUE		STATISTIC CHI-SOUARE	REQUENCY FATISTICS	267 97.45 MISSING =	7 2.55 = 5 .E OF MAJO	100.00 OR BY INFL5 VALUE	
FREQUENCY STATISTI ATISTIC II-SQUARE	238 86.86 MISSING CS FOR TAE	36 13.14 = 5 BLE OF SEX	100.00 (BY INFL2 VALUE		STATISTIC CHI-SOUARE	REQUENCY [ATISTICS	267 97.45 MISSING =	7 2.55 = 5 .E OF MAJO	100.00 OR BY INFL5 VALUE	
FREQUENCY STATISTIC ATISTIC II-SQUARE RESIDE FREQUENC EXPECTED	238 86.86 MISSING CS FOR TAE	36 13.14 = 5 BLE OF SEX	100.00 (BY INFL2 VALUE		STATISTIC CHI-SOUARE RA FF	REQUENCY TATISTICS ACE REQUENCY REQUENCY	267 97.45 MISSING =	7 2.55 = 5 .E OF MAJO	100.00 OR BY INFL5 VALUE	
FREQUENCY STATISTI ATISTIC II-SOUARE RESIDE FREQUENC EXPECTED CELL CHI	238 86.86 MISSING CS FOR TAE	36 13.14 = 5 BLE OF SEX	100.00 (BY INFL2 VALUE		STATISTIC CHI-SQUARE RA FF FF E E S CE	TATISTICS ACE REQUENCY PECTED ELL CHI2	267 97.45 MISSING =	7 2.55 = 5 .E OF MAJO	100.00 OR BY INFL5 VALUE	
FREQUENCY STATISTIC ATISTIC RESIDE FREQUENC EXPECTED CELL CHI PERCENT	238 86.86 MISSING CS FOR TAE INFL7	36 13.14 = 5 BLE OF SEX	100.00 (BY INFL2 VALUE		STATISTIC CHI-SOUARE RI FFE EX	REQUENCY TATISTICS ACE REQUENCY REQUENCY	267 97.45 MISSING =	7 2.55 = 5 .E OF MAJO	100.00 OR BY INFL5 VALUE	
FREQUENCY STATISTIC ATISTIC RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE	36 13.14 = 5 BLE OF SEX	100.00 (BY INFL2 VALUE		STATISTIC CHI-SOUARE RI EN CE	REQUENCY IATISTICS ACE REQUENCY PECTED ELL CH12 ELECENT REQUENCY 267 97.45 MISSING =	0.00 7 2.55 5 E OF MAJO	100.00 OR BY INFL5 VALUE		
FREQUENCY STATISTIC ATISTIC II-SQUARE FREQUENC EXPECTED CELL CHI PERCHNI ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7	36 13.14 = 5 BLE OF SEX DF 1	VALUE 10.489		STATISTIC CHI-SOUARE RI EN CE	REQUENCY FATISTICS ACE REQUENCY PECTED ELL GHI2 PERCENT ROW PCT DOL PCT	267 97.45 MISSING = FOR TABL	0.00 7 2.55 5 E OF MAJO	100.00 OR BY INFL5 VALUE 7.289	
FREQUENCY STATISTIC ATISTIC RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE	36 13.14 * 5 BLE OF SEX DF	100.00 (BY INFL2 VALUE 10.489		STATISTIC CHI-SOUARE RI EN CE	REQUENCY IATISTICS ACE REQUENCY PECTED ELL CH12 ELECENT REQUENCY 267 97.45 MISSING = FOR TABL	0.00 2.55 5 E OF MAJO	100.00 OR BY INFL5 VALUE 7.289		
FREQUENCY STATISTIC ATISTIC II-SQUARE FREQUENC EXPECTED CELL CHI PERCHNI ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163 159.1	36 13.14 = 5 BLE OF SEX DF 1	VALUE 10.489 TOTAL 169		STATISTIC CHI-SOUARE RI EN CE	REQUENCY FATISTICS ACE REQUENCY PECTED ELL GHI2 PERCENT ROW PCT DOL PCT	267 97. 45 MISSING * FOR TABL PURCH1	0.00 7 2.55 5 E OF MAJO	100.00 OR BY INFL5 VALUE 7.289	
FREQUENCY STATISTIC ATISTIC II-SQUARE FREQUENC EXPECTED CELL CHI PERCHNI ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163 159.1 .094049 59.49	36 13.14 = 5 BLE OF SEX DF 1	100.00 (BY INFL2 VALUE 10.489 1 TOTAL 169 61.68		STATISTIC CHI-SOUARE RI EN CE	REQUENCY FATISTICS ACE REQUENCY PECTED ELL GHI2 PERCENT ROW PCT DOL PCT	267 97. 45 MISSING ** FOR TABL PURCH1 00 105 1 109 4 176738 37.91	O.OO 7 2.55 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100.00 OR BY INFL5 VALUE 7.289	
FREQUENCY STATISTIC ATISTIC II-SQUARE FREQUENC EXPECTED CELL CHI PERCHNI ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163 159.1 194049 59.49 96.45	36 13.14 = 5 BLE OF SEX DF 1	100.00 (BY INFL2 VALUE 10.489 1 TOTAL 169 61.68		STATISTIC CHI-SOUARE RI EN CE	REQUENCY FATISTICS ACE REQUENCY PECTED ELL GHI2 PERCENT ROW PCT DOL PCT	267 97.45 MISSING = FOR TABL PURCH1 00 105 109.4 176738 37.91 40.54	0.00 7 2.55 5 E OF MAJO DF 1 1 154 149.6 149.39 55.60 59.46	100.00 OR BY INFL5 VALUE 7.289	
FREQUENCY STATISTI ATISTIC II- SQUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 159.1 .094049 59.49 59.49 63.18	36 13.14 = 5 BLE OF SEX DF 1	100.00 (BY INFL2 VALUE 10.489 1 TOTAL 169 61.68		STATISTIC CHI-SOUARE RI EN CE	REQUENCY FATISTICS ACE REQUENCY PECTED FLL CH12 PERCENT FOUR PCT 1	267 97.45 MISSING = FOR TABL PURCH1 0 105 109.4 .176738 37.91 40.54 89.74	O.OO 7 2.55 5 E OF MAJO DF 1 154 149.6 129239 55.60 96.25	100.00 OR BY INFL5 VALUE 7.289 TOTAL 259 93.50	
FREQUENCY STATISTIC ATISTIC II-SQUARE FREQUENC EXPECTED CELL CHI PERCHNI ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163 159.1 .09409 59.49 96.45 63.18	36 13.14 = 5 BLE OF SEX DF 1	100.00 (BY INFL2 VALUE 10.489 1 TOTAL 169 61.68		STATISTIC CHI-SOUARE RI EN CE	REQUENCY FATISTICS ACE REQUENCY PECTED ELL GHI2 PERCENT ROW PCT DOL PCT	267 97.45 MISSING = FOR TABL PURCH1 0 105 109.4 17673B 17673B 17673B 17674B 17674B 17674B 17674B	O.OO 7 2.55 E OF MAJO DF 1 154 149.6 1292.39 55.46 96.25	100.00 OR BY INFL5 VALUE 7.289 TOTAL 259 93.50	
FREQUENCY STATISTI ATISTIC II- SQUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 159.1 .094049 59.49 59.49 63.18	36 13.14 = 5 BLE OF SEX DF 1 1.51654 2.19 3.55 37.50	100.00 (BY INFL2 VALUE 10.489 1 TOTAL 169 61.68		STATISTIC CHI-SOUARE RI EN CE	REQUENCY FATISTICS ACE REDUENCY PECTED FOR TOTAL 1	267 97.45 MISSING = FOR TABL PURCH1 0 105 109.4 .116738 37.91 40.54 89.74	0.00 7 2.55 5 E OF MAJO DF 1 149.6 129239 55.60 96.25	100.00 OR BY INFL5 VALUE 7.289 TOTAL 259 93.50	
FREQUENCY STATISTI ATISTIC II- SQUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163 159.1 .094049 96.45 63.18 95.9 .98.9 .151374	36 13.14 5 BLE OF SEX DF 1 1 9.9 1.51654 2.19 3.55 37.50 10 10 6.1 2.44091	100.00 (BY INFL2 VALUE 10.489 1 TOTAL 169 61.68 105 38.32		STATISTIC CHI-SOUARE RI EN CE	REQUENCY FATISTICS ACE REDUENCY PECTED FOR TOTAL 1	267 97.45 MISSING ** FOR TABL PURCH1 00 105 109.4 176738 37.91 40.54 89.74 12 7.6 2.54306 4.33	O.OO 7 2.55 5 5 E OF MAJO DF 1 149.4 149.6 129239 55.60 59.46 96.25 10.4 1.85961 2.17	100.00 OR BY INFL5 VALUE 7.289 TOTAL 259 93.50	
FREQUENCY STATISTI ATISTIC II- SQUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86 86 MISSING CS FOR TAE INFL7 Y 2 163 159.1 1094049 59.49 96.45 63.18 95.98.9 98.9 151374 34.67 90.48	36 13.14 = 5 BLE OF SEX DF 1 1 9.9 1.51654 2.19 3.55 37.50 10 6.1 2.44091 3.65 9.52	100.00 (BY INFL2 VALUE 10.489 1 169 61.68 105 38.32		STATISTIC CHI-SOUARE RI EN CE	REQUENCY FATISTICS ACE REDUENCY PECTED FOR TOTAL 1	267 97.45 MISSING = FOR TABL PURCH1 105 109.4 116738 37.91 40.54 89.74 12 7.6 2.54306 4.33 66.67	0.00 7 2.55 5 5 6 6 6 129239 55.60 59.46 96.25 10.4 1.85961 2.17 33.33	100.00 OR BY INFL5 VALUE 7.289 1074L 259 93.50	
FREQUENCY STATISTI ATISTIC II- SQUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163 159.1 96.45 96.45 96.45 97.49 96.45 97.49 96.45 97.49 96.45 97.49 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40	36 13.14 = 5 BLE OF SEX DF 1 1 9.9 1.51654 2.19 3.55 37.50 10 6.1 2.44091 3.65 9.52	100.00 (BY INFL2 VALUE 10.489 11 TOTAL 169 61.68 105 38.32		STATISTIC CHI-SOUARE RI ER CC	REQUENCY FATISTICS ACE REDUENCY PECTED FOR TOTAL 1	267 97.45 MISSING ** FOR TABL PURCH1 00 105 109.4 176738 37.91 40.54 89.74 12 7.6 2.54306 4.33	0.00 7 2.55 5 5 E OF MAJO DF 1 154 149.6 129239 55.60 59.46 96.25 10.4 1.85961 2.17 33.33 3.75	100.00 OR BY INFL5 VALUE 7.289 1074L 259 93.50	
FREQUENCY STATISTI ATISTIC II- SQUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163.18 159.1 .094049 96.45 63.18 96.45 63.18 97.49 96.45 96.45 97.49 96.45 97.49 97.40	36 13.14 = 5 BLE OF SEX DF 1 1 9.9 1.51654 2.19 3.55 37.50 37.50 10 4.4091 2.4991 3.65 9.52 62.50	100.00 (BY INFL2 VALUE 10.489 11 TOTAL 169 61.68 105 38.32		STATISTIC CHI-SQUARE RA FF EX CC	REQUENCY FATISTICS ACE REQUENCY PECTED ELL CHI2 PERCENT TOWN PCT 1 1 2	267 97.45 MISSING ** FOR TABL PURCH1 00 105 109.4 176738 37.91 40.54 89.74 12 7.6 2.54306 4.33 66.67 10.26 117	O.OO 7 2.55 5 E OF MAJO DF 1 154 149.6 129239 55.60 96.25 10.4 1.85961 2.17 33.33 3.75	100.00 OR BY INFL5 VALUE 7.289 1074L 259 93.50	
FREQUENCY STATISTI ATISTIC ATISTIC RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163 159.1 194049 59.49 96.49 96.3 18 99.151374 34.67 36.82	36 13.14 = 5 BLE OF SEX DF 1 1 9.9 1.51654 2.19 3.55 37.50 37.50 10 4.4091 2.4991 3.65 9.52 62.50	100.00 (BY INFL2 VALUE 10.489 11 TOTAL 169 61.68 105 38.32		STATISTIC CHI-SQUARE RA FF EX CC	REQUENCY FATISTICS ACE REQUENCY PECTED CHI PCT 1	267 97.45 MISSING ** FOR TABL PURCH1 105 109.4 1176738 37.91 40.54 89.74 12 7.66 4.33 66.67 10.26	O.OO 7 2.55 5 E OF MAJO DF 1 154 149.6 129239 55.60 59.46 96.25 10.4 1.85961 2.17 33.33 3.75	TOTAL 259 93.50 18 6.50	
FREQUENCY STATISTI ATISTIC ATISTIC RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163.18 159.1 .094049 96.45 63.18 96.45 63.18 97.49 96.45 96.45 97.49 96.45 97.49 97.40	36 13.14 = 5 BLE OF SEX DF 1 1 9.9 1.51654 2.19 3.55 37.50 37.50 10 4.4091 2.4991 3.65 9.52 62.50	100.00 (BY INFL2 VALUE 10.489 11 TOTAL 169 61.68 105 38.32		STATISTIC CHI-SQUARE RA FF EX CC	REQUENCY FATISTICS ACE REQUENCY PECTED CHI PCT 1	267 97.45 MISSING ** FOR TABL PURCH1 00 105 109.4 176738 37.91 40.54 89.74 12 7.6 2.54306 4.33 66.67 10.26 117	O.OO 7 2.55 5 5 E OF MAJO DF 1 1149.6 129239 55.60 59.46 96.25 10.41 1.85961 12.17 33.33 3.75	TOTAL 259 93.50 18 6.50	
FREQUENCY STATISTI ATISTIC II-SQUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163.18 159.1 .094049 96.45 63.18 96.45 63.18 97.49 96.45 96.45 97.49 96.45 97.49 97.40	36 13.14 = 5 BLE OF SEX DF 1 0 1.51654 2.19 3.55 37.50 10 6.1 2.44091 3.65 9.52 62.50 16 5.84	100.00 (BY INFL2 VALUE 10.489 11 TOTAL 169 61.68 105 38.32		STATISTIC CHI-SOUARE RI EN CO TO	REQUENCY FATISTICS ACE REQUENCY PECTED FOR THE PECTED 1 1 DTAL	267 97.45 MISSING ** FOR TABL PURCH1 00 105 109.4 176738 37.91 40.54 89.74 12 7.6 2.54306 4.33 66.67 10.26 117	0.00 7 2.55 5 5 6 6 7 1 1 154 149.6 129239 55.60 696.25 696.25 60 10.4 1.85961 2.17 33.33 3.75 160 57.76	TOTAL 259 93.50 18 6.50	
FREQUENCY STATISTI ATISTIC II-SQUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 159.1 .094049 59.49 59.49 59.49 59.49 59.49 151374 36.82 258 94.16	36 13.14 = 5 BLE OF SEX DF 1 0 1.51654 2.19 3.55 37.50 10 6.1 2.44091 3.65 9.52 62.50 16 5.84	100.00 (BY INFL2 VALUE 10.489 11 TOTAL 169 61.68 105 38.32		STATISTIC CHI-SOUARE RI EN CO TO	REQUENCY FATISTICS ACE REQUENCY PECTED FOR THE PECTED 1 1 DTAL	267 97.45 MISSING ** FOR TABL PURCH1 105 109.4 1176738 37.91 40.54 89.74 12 7.6 2.54306 4.33 66.67 10.26	0.00 7 2.55 5 5 6 6 7 1 1 154 149.6 129239 55.60 696.25 696.25 60 10.4 1.85961 2.17 33.33 3.75 160 57.76	TOTAL 259 93.50 18 6.50	
FREQUENCY STATISTIC 1- SOUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT	238 86.86 MISSING CS FOR TAE INFL7 Y 2 159.1 .094049 59.49 59.49 59.49 59.49 59.49 151374 36.82 258 94.16	36 13.14 = 5 BLE OF SEX DF 1 0 1.51654 2.19 3.55 37.50 10 6.1 2.44091 3.65 9.52 62.50 16 5.84	100.00 (BY INFL2 VALUE 10.489 11 TOTAL 169 61.68 105 38.32		STATISTIC CHI-SOUARE RI EN CO TO	REQUENCY FATISTICS ACE REQUENCY PECTED FOR THE PECTED 1 1 DTAL	267 97.45 MISSING ** FOR TABL PURCH1 105 109.4 1176738 37.91 40.54 89.74 12 7.6 2.54306 4.33 66.67 10.26	0.00 7 2.55 5 5 6 6 7 1 1 154 149.6 129239 55.60 696.25 696.25 60 10.4 1.85961 2.17 33.33 3.75 160 57.76	TOTAL 259 93.50 18 6.50	
FREQUENCY STATISTIC II-SQUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENTI ROW PCT COL PCT 1	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163 159.1 .0940.49 96.45 63.18 95.98.9 .151374 36.87 96.48 36.88 94.16	36 13.14 = 5 BLE OF SEX DF 1 1 0 9.9 1.51654 2.19 3.55 37.50 10 6.1 2.44091 9.52 9.52 62.50	100.00 (BY INFL2 VALUE 10.489 11 TOTAL 169 61.68 105 38.32	0 001	STATISTIC CHI-SOUARE RI ER CC F T T T T T T T T T T T T T T T T T	REQUENCY FATISTICS ACE REQUENCY PECTED ELL CH12 PERCENT TOWN PCT 1 1 1 2 2 DITAL	267 97.45 MISSING = FOR TABL PURCH1 105 109.4 176738 37.91 40.54 89.74 12 7.6 2.54306 4.33 66.67 10.67 10.67	0.00 7 2.55 5 E OF MAJO DF 1 149.6 129239 55.60 59.46 96.25 60.4 1.85961 12.17 33.33 3.75 160 57.76	100.00 OR BY INFL5 VALUE 7.289 100.00 18 6.50 277 100.00	
FREQUENCY STATISTIC II-SQUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENTI ROW PCT COL PCT 1	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163 159.1 .0940.49 96.45 63.18 95.98.9 .151374 36.87 96.48 36.88 94.16	36 13.14 = 5 BLE OF SEX DF 1 1 0 9.9 1.51654 2.19 3.55 37.50 10 6.1 2.44091 9.52 9.52 62.50	100.00 (BY INFL2 VALUE 10.489 11 TOTAL 169 61.68 105 38.32 274 100.00	0 001	STATISTIC CHI-SOUARE RI ER CC F T T T T T T T T T T T T T T T T T	REQUENCY FATISTICS ACE REQUENCY PECTED ELL CH12 PERCENT TOWN PCT 1 1 1 2 2 DITAL	267 97.45 MISSING = FOR TABL PURCH1 105 109.4 176738 37.91 40.54 89.74 12 7.6 2.54306 4.33 66.67 10.67 10.67	0.00 7 2.55 5 E OF MAJO DF 1 149.6 129239 55.60 59.46 96.25 60.4 1.85961 12.17 33.33 3.75 160 57.76	TOTAL 259 93.50 18 6.50	
FREQUENCY STATISTIC ATISTIC II-SQUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENT ROW PCT COL PCT TOTAL FREQUENC STATISTIC	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163 159.1 .0940.49 96.45 63.18 95.98.9 .151374 36.87 96.48 36.88 94.16	36 13.14 = 5 BLE OF SEX DF 1 0 9.9 1.51654 2.19 3.55 37.50 100 6.1 2.44091 3.65 9.52 62.50 16 5.84	100.00 (BY INFL2 VALUE 10.489 1 TOTAL 169 61.68 105 38.32 274 100.00	0 001	STATISTIC CHI-SQUARE RA FF EX C C F T T T T T T T T T T T T T T T T T	REQUENCY FATISTICS REQUENCY PECTED FATISTICS TO A C C C C C C C C C C C C C C C C C C	267 97.45 MISSING = FOR TABL PURCH1 105 109.4 176738 37.91 40.54 89.74 12 7.6 2.54306 4.33 66.67 10.67 10.67	O.OO 7 2.55 5 5 E OF MAJO DF 1 154 149.6 129239 55.60 59.46 96.25 10.44 1.85961 2.17 33.33 3.75 160 57.76	100.00 OR BY INFL5 VALUE 7.289 TOTAL 259 93.50 18 6.50 277 100.00	0.00
FREQUENCY STATISTIC II-SQUARE RESIDE FREQUENC EXPECTED CELL CHI PERCENTI ROW PCT COL PCT 1	238 86.86 MISSING CS FOR TAE INFL7 Y 2 163.18 159.1 .094049 96.45 63.18 96.45 63.18 96.45 63.18 96.45 63.18 96.45 63.18 96.45 63.18	36 13.14 = 5 BLE OF SEX DF 1 1 9.9 1.51654 2.19 3.55 37.50 10 10 4.4091 9.52 9.52 62.50	100.00 (BY INFL2 VALUE 10.489 11 TOTAL 169 61.68 105 38.32 274 100.00	0 001	STATISTIC CHI-SOUARE RI ER CC F T T T T T T T T T T T T T T T T T	REQUENCY FATISTICS ACE REDUENCY PPECTED FOR THE PECTED T T T T T T T T T T T T T	267 97.45 MISSING = FOR TABL PURCH1 O O O O O O O O O O O O O O O O O O O	0.00 7 2.55 5 5 6 OF MAJO DF 1 1149.6 129239 55.60 59.46 96.25 10.4 1.85961 12.17 33.33 3.75 160 57.76	100.00 OR BY INFL5 VALUE 7.289 100.00 18 6.50 277 100.00	

SEX

INFL 1

MEMBERS

FREQ

MEMBERS	PURCH1				MAJOR	PURCH2			
FREQUENCY EXPECTED CELL CHI2					FREQUENCY EXPECTED CELL CHI2				
PERCENT ROW PCT					PERCENT :				
COL PCT	0	1]	TOTAL		COL PCT	c	1	TOTAL	
1	70 58.3	69 80.7 1.69889	139		2	49 62.8 3.03922	89 75.2 2.53935	138	
	25.09 50.36 59.83	24.73 49.64 42.59	49.82			17.56 35.51 38.58	31.90 64.49 58.55		
2	47 58.7	93 81.3	140		3	78 64.2	1		
	2.3355 16.85 33.57 40.17	1.68675 33.33 66.43 57.41	50.18			2.97455 27.96 55.32 61.42	2.48532 22.58 44.68	50.54	
TOTAL	117 41.94	162 58.06	279 100.00		TOTAL	127 45 52	152	279 100.00	
STATISTICS	FOR TABLE	OF MEMBER	S BY PURCE	11	STATISTICS	FOR TAB	LE OF MAJO	R BY PURCH2	
STATISTIC		DF	VALUE	PROB	STATISTIC		DF	VALUE	PROB
CHI-SQUARE		1	8.073	0.004	CHI - SQUARE		1	11.038	0.001
KESIDÉ	PÚŘCH4				SEX	PURCH5			
FREQUENCY					FREQUENCY				
EXPECTED CELL CHI2					EXPECTED CELL CHI2				
PERCENT					PERCENT ROW PCT				
RDW PCT COL PCT	o		TOTAL		COL PCT		1 1	TOTAL	
1		: :	174		1	82		89	
	82.9 2.05435	91.1				75.9 .486721			
	34 41 55 17	27.96 44.83	62.37			29.39 92.13	2.51	31.90	
	72.18	53.42				34.45			
2	37 50.1	68 54.9	105		2	156 162 1	34 27.9	190	
	3.40435 13.26 35.24 27.82	3.10123 24.37 64.76 46.58	37.63			.227991 55.91 82.11 65.55	1.32346 12.19 17.89 82.93	68.10	
TOTAL	133	146	279		TOTAL	238	41	279	
	47.67	52.33	100.00			85.30	14.70	100.00	
STATISTICS	FOR TABL	E OF RESI	DE BY PURC	H4	STATISTICS	FOR TAB	LE OF SEX	BY PURCH5	
STATISTIC		DF	VALUE	PROB	STATISTIC		DF	VALUE	PROB
CHI-SQUARE		1	10.431	0.001	CHI-SQUARE		1	4.864	0.027
AGE	PURCH7				RESIDE	PURCH/			
FREQUENCY					FREQUENCY	4			
EXPECTED CELL CHI2					EXPECTED CELL CHI:				
PERCENT ROW PCT					PERCENT ROW PCT				
COL PCT		1	TOTAL		COL PCT	į	0 1	+	
1	209 B	3 6.2	216		1	172	5.0	174	
	0.04861	1.64667	77 42			0.05287	5.0 1.79097	62.37	
	98.61	1.39	77.72			98.85	1.15	Ì	
		37.50				-+	25.00	· 🛊	
2	58 61.2	5 1.8	63		2	102.0	3.0	105	
	. 166664 20.79	5.64574	22.58			35.48	3.0 2.9679 2.15	37.63	
	92.06					94.29	5.71 75.00	l	
TOTAL		i	279		TOTAL	- i		· i	
	97.13	2.87	100.00				2.87		
STATISTIC	S FOR TAB	LE OF AGE	BY PURCH7		STATISTIC	S FOR TAE	LE OF RESI	DE BY PURC	H7
STATISTIC		DF	VALUE	PROB	STATISTIC			VAI.UE	
CHI-SQUARE		1	7.508	0.006	CHI-SQUARE			4.899	

FRECUENCY CHIL CHIS FRECUENCY COL PCT 1	SEX	MEALS							
CELL CHTS	•=					FREQUENCY	Y		
## PROCESS** ## PROCESS** 1	EXPECTED					EXPECTED	ł		
SOUNCE 1						PERCENT			
1 25 0 37 0 0 0 0 0 0 0 0 0	ROW PCT		21	TOTAL			11	21 TOTAL	
1	COL PCI	∔ -						i	
2,2057 3,28782 48,46 46,40 75,51 41,40 75,00 46,40 75,51 41,38 49,46 44,40 75,51 41,38 49,46 44,40 45,51 41,38 49,46 44,40 45,51 41,38 49,46 44,40 45,51 41,38 49,46 44,40 45,51 41,38 49,46 44,40 47,51 41,41 4	1			89		2	80.6 57	. 4	
## 6.07 \$393 \$300 \$4		2.32557	3.26782						
22.15				31.90			64.49 35.	51	
1.00 79.00 83.4 83.6 85.2									
1,000000000000000000000000000000000000	2			190		3			
## 177 24-37 68-10 25-52 24-00 50-54 ## 170TAL 58-62 31-58 68-10 25-52 31-50 ## 170TAL 58-62 31-58 68-10 31-58									
TALL 160 160 279 TOTAL 163 116		43.73	24.37	68.10			26.52 24.		
TOTAL 88.92 41.88 100.00 STATISTICS FOR TABLE OF SEX BY MEALS STATISTIC OF VALUE PROB STATISTIC OF VALUE PROB STATISTIC OF VALUE PROB STATISTIC OF VALUE PROB MARITAL MEALS FECOURN'S STATISTICS FOR TABLE OF MARITAL BY MEALS STATISTIC OF VALUE PROB STATISTIC OF VALUE PROB 1 8.217 0.004 CHI-SQUARE 1 4.142 0.04 MARITAL MEALS FECOURN'S SPECIAL SECURITY SECU							45.40 57.	76	
STATISTIC OF VALUE PROB STATISTIC OF VALUE PROB STATISTIC OF VALUE PROB STATISTIC OF VALUE PROB MARITAL MEALS PROCESSOR MEALS PROCESSOR STATISTIC OF VALUE PROB 1 1 2 101AL COL PCT 1 2 107AL 1 14.6 1 10.4 265 10.0 PCT 1 2 107AL 1 14.6 1 10.4 265 10.0 PCT 1 2 107AL 1 14.6 1 10.4 265 10.0 PCT 1 2 107AL 1 14.6 1 10.4 265 10.0 PCT 1 2 2 107AL 2 14.6 1 10.5 2 10.5 PC 1 1 2 107AL 2 2 2 2 1 1 1 1 2 107AL 2 2 2 2 1 1 1 1 2 107AL 2 2 2 2 1 1 1 1 2 107AL 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ii		279		TOTAL		•	
STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB	TOTAL						58.42 41.	58 100.00	
MARITAL MEALS RESIDE MEALS PROCESSION MARITAL MEALS PROCESSION MEALS ME	STATISTI	CS FOR TAB	LE OF SE	K BY MEALS		STATISTIC	CS FOR TABLE OF	MAJOR BY MEAL	s
MARITAL MEALS RESIDE MEALS PROCESSION MARITAL MEALS PROCESSION MEALS ME			ne	VALUF	PROB	STATISTIC	DF	VALUE	PROB
MARTAL MEALS PROBLEM									
FREQUENCY LYPECTED CEEL CH12 PRECED CH12	CHI-SQUARE		1	8.213	0.004	CHI-SQUARE	1	4.142	0.04
FREQUENCY EMPECTED COLORS FREQUENCY EMPECTED CEEL CH12 CEEL	MARITAL	MEALS				RESIDE	MEALS		
EXPECTED CELL CHI2 PERCENT STATISTIC OF VALUE PROB STA									
CELL CHIZED STATISTICS OF VALUE PROB STATISTICS OF VALUE PROB STATISTICS FOR TABLE OF RESIDE BY SUBST FREQUENCY MISSING = 3 CELL CHIZED SUBST FREQUENCY MISSING = 3 CELL CHIZED SUBST STATISTICS FOR TABLE OF RESIDE BY CONSUME 1 FREQUENCY MISSING = 3 STATISTICS FOR TABLE OF RESIDE BY SUBST STATISTICS FOR TABLE OF SEX BY CONSUME 1 STATISTICS FOR TABLE OF RESIDE BY SUBST STATISTICS FOR TABLE OF SEX BY CONSUME 1 STATISTICS FOR TABLE OF RESIDE BY SUBST STATISTICS FOR TABLE OF SEX BY CONSUME 1 STATISTICS FOR TABLE OF RESIDE BY SUBST STATISTICS FOR TABLE OF SEX BY CONSUME 1 STATISTICS FOR TABLE OF RESIDE BY SUBST STATISTICS FOR TABLE OF SEX BY CONSUME 1 STATISTICS FOR TABLE OF RESIDE BY SUBST STATISTICS FOR TABLE OF SEX BY CONSUME 1						EXPECTED			
BOW PCT 1	CELL CHI2						·		
1 161 104 265 1 89 85 174	ROW PCT		- 1	*****		ROW PCT		01 7074	
154.6 110.2 1246225 0.34655			+	TOTAL			· †	-	
1.57563 2.21403 37.28 51.57563 2.21403 39.25 51.51 37.28 51.51 37.28 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 51.51 38.25 37.63 37.	1			265		1			
STATISTIC Section Se		.246625 0	.34655			•	1.57563 2.2140	3	
1				94.98					
2 8 2 5 2 5 3 4 2 6 3 3 43 7 105 43 0 70 70 72 43 0 105 70 70 72 43 0 105 70 70 70 70 70 70 70	1	98.77	89.66				54.60 73.2		
## 8.2 5.8 4.66826 6.5537 0.72 4.301 5.02 2.61104 3.66897 37.63 37.63 37.63 36.56 37.63 37	+								
1	2			14		2	74 3	11 105	
1.23 10.34 45.40 26.72		8.2	12 5.8	14		2	74 61.3 43	105	
TOTAL 163 116 279 58.42 41.58 100.00 STATISTICS FOR TABLE OF MARITAL BY MEALS TATISTIC DF VALUE PROB STATISTIC DF VALUE PROB HI-SQUARE 1 11.821 0.001 CHI-SQUARE 1 10.070 0.003 RESIDE SUBST FREQUENCY EXPECTED CELL CH12 PRECENT ROW PCT 1 2 TOTAL PROBE 1 20 145.0 COL PCT 0 1 1 2 TOTAL PROBE 1 1.37345 2.46517 11.59 50.36 61.96 18.71 81.29 76.19 59.40 18.71 81.29 76.19 59.40 18.71 81.29 18.00 18.00 1		8.2 4.66826	5.8 6.5597 4.30			2	74 61.3 2.61104 26.52 11.5	11 105 7 07 11 37.63	
STATISTICS FOR TABLE OF MARITAL BY MEALS STATISTICS FOR TABLE OF MARITAL BY MEALS TATISTIC DF VALUE PROB STATISTIC DF VALUE PROB HI-SQUARE 1 11.821 0.001 CHI-SQUARE 1 10.070 0.003 RESIDE SUBST FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1 2 TOTAL PFREQUENCY 1.37345 2.46517 11.59 50.36 61.96 18.71 81.29 76.19 59.40 18.71 81.29 2 16.0 89.0 2 16.0 9.55.1 3 16.0 89.0 3 17.2 80.0 4 17.6 9.55.1 4 1.7 80.0 4 1.7 80.		8.2 4.66826 0.72 14.29	12 5.8 6.5597 4.30 85.71			2	74 61.3 2.61104 26.52 70.48 29.5	11 105 7 17 11 37.63	
TATISTIC DF VALUE PROB STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB HI-SQUARE 1 11.821 0.001 CHI-SOUARE 1 10.070 0.003 RESIDE SUBST FREQUENCY EXPECTED CELL CH12 PROBENT SEX CONSUME 1 1 32 139 171 COL PCT CO		8.2 4.66826 0.72 14.29 1.23	12 5.8 6.5597 4.30 85.71 10.34	5.02			74 33 43 43 43 43 43 43	11 105 7 11 37.63	
TATISTIC DF VALUE PROB STATISTIC DF VALUE PROB HI-SQUARE 1 11.821 0.001 CHI-SQUARE 1 10.070 0.003 RESIDE SUBST FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1 2 TOTAL PERCENT COL PCT 0 1 TOTAL 15.00 PCT COL PCT 1 1 2 TOTAL PERCENT COL PCT 0 1 TOTAL 15.00 PCT COL PCT 1 1 59 50.36 61.96 18.71 81.29 76.19 59.40 18.29		8.2 4.66826 0.72 14.29 1.23	12 5.8 6.5597 4.30 85.71 10.34	5 . O2 279			74 61.3 2.61104 3.6688 26.52 11.7 70.48 29.5 45.40 26.7	105 7 17 1 37.63 12 12 16 279	
RESIDE SUBST SEX CONSUME	TOTAL	8.2 4.66826 0.72 14.29 1.23 	12 5.8 6.5597 4.30 85.71 10.34 	5.02 279 100.00		TOTAL	74 61.3 43 2.61104 3.6688 26.52 11.7 70.48 29.5 45.40 26.7	105 7 7 11 11 12 12 12 12 16 100 100	
HI-SQUARE 1 11.821 0.001 CHI-SQUARE 1 10.070 0.000 RESIDE SUBST FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1 2 10 45.0 145.0 11.59 50.36 18.71 81.29 2 26.0 18.71 81.29 2 26.0 18.71 81.29 2 26.0 18.71 81.29 2 26.09 36.916.29 18.28 13.62 31.90 19.52 36.0 40.471 3.62 34.42 38.04 25.374 8.72 19.52 36.0 40.471 3.62 34.42 38.04 2 150.9 53.1 3.52 34.42 38.04 2 150.9 53.1 3.23974 53.76 19.52 30.48 23.81 40.60 19.00 19.00 15.22 84.78 100.00 10	TOTAL	8.2 4.66826 0.72 14.29 1.23 	12 5.8 6.5597 4.30 85.71 10.34 	5.02 279 100.00		TOTAL	74 61.3 43 2.61104 3.6688 26.52 11.7 70.48 29.5 45.40 26.7	105 7 7 11 11 12 12 12 12 16 100 100	ı
RESIDE SUBST FREQUENCY EXPECTED CELL CH12 FREQUENCY MISSING = 3	TOTAL	2 8.2 4.66826 0.72 14.29 1.23 163 58.42	12 5.8 6.5597 4.30 85.71 10.34 116 41.58 OF MARITA	5.02 279 100.00 AL BY MEALS	PROB	TOTAL STATISTICS	74 3 43 43 26 10 45 11 12 11 12 11 12 11 12 11 12 11 12 11 12	105 7777 1 105 7777 1 1 37 .63 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PROB
SEX CONSUME 1 COL CO	TOTAL STATISTICS	2 8.2 4.66826 0.72 14.29 1.23 163 58.42	12 5.8 6.5597 4.30 85.71 10.34 -116 41.58 OF MARITA	5.02 279 100.00 AL BY MEALS VALUE	PROB	TOTAL STATISTICS STATISTIC	74 61.3 43. 26.104 26.52 11. 70.48 29.5 45.40 26.7 163 158.42 41.5 6 FOR TABLE OF RE	105 77 77 1 37.63 22 22 22 22 26 279 8 100.00	PROB
EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1 2 TOTAL FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1 2 TOTAL PERCENT ROW PCT COL PCT 1 1 51 38 89 171 COL PCT C	TOTAL STATISTICS TATISTIC	2 8.2 4.66826 0.72 14.29 1.23 163 58.42	12 5.8 6.5597 4.30 85.71 10.34 -116 41.58 OF MARITA	5.02 279 100.00 AL BY MEALS VALUE	PROB	TOTAL STATISTICS STATISTIC	74 61.3 43. 26.104 26.52 11. 70.48 29.5 45.40 26.7 163 158.42 41.5 6 FOR TABLE OF RE	105 77 77 1 37.63 22 22 22 22 26 279 8 100.00	PROB
TOTAL CELL CHI2 PERCENT ROW PCT COL PCT 1 2 TOTAL PERCENT ROW PCT COL PCT 1 2 TOTAL PERCENT ROW PCT COL PCT O 1 TOTAL	TOTAL STATISTICS ATISTIC	2 8.2 4.66826 0.72 14.29 1.23 163 58.42	12 5.8 6.5597 4.30 85.71 10.34 -116 41.58 OF MARITA	5.02 279 100.00 AL BY MEALS VALUE	PROB	TOTAL STATISTICS STATISTIC	74 61.3 43. 26.104 26.52 11. 70.48 29.5 45.40 26.7 163 158.42 41.5 6 FOR TABLE OF RE	105 77 77 1 37.63 22 22 22 22 26 279 8 100.00	PROB
PERCET COL PCT 1 2 TOTAL CELL CH12 PERCENT ROW PCT COL PCT 0 1 TOTAL	TOTAL STATISTICS ATISTIC TOTAL STATISTIC TOTAL STATISTICS TOTAL 2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE	12 5.8 6.5597 4.30 85.71 10.34 -116 41.58 OF MARITA	5.02 279 100.00 AL BY MEALS VALUE	PROB	TOTAL STATISTICS STATISTIC CHI-SQUARE	74	105 77 77 1 37.63 22 22 22 22 26 279 8 100.00	PROB	
COL PCT 1 2 TOTAL PERCENT ROW PCT	TOTAL STATISTICS FATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIZ	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE	12 5.8 6.5597 4.30 85.71 10.34 -116 41.58 OF MARITA	5.02 279 100.00 AL BY MEALS VALUE	PROB	TOTAL STATISTICS STATISTIC CHI-SQUARE SEX	74 3 43 43 26 10 45 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12	105 77 77 1 37.63 22 22 22 22 26 279 8 100.00	PROB
1 32 139 171 ROW PCT COL PCT O 1 TOTAL	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIZ PERCENT	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE	12 5.8 6.5597 4.30 85.71 10.34 -116 41.58 OF MARITA	5.02 279 100.00 AL BY MEALS VALUE	PROB	TOTAL STATISTICS STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED	74 3 43 43 26 10 45 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12	105 77 77 1 37.63 22 22 22 22 26 279 8 100.00	PROB
1	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	2 8.2 4.66826 0.72 14.29 1.23 58.42 FOR TABLE	12 5.8 6.5597 4.30 85.71 10.34 	5.02 279 100.00 AL BY MEALS VALUE 11.821	PROB	TOTAL STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CHI2	74 3 43 43 26 10 45 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12	105 77 77 1 37.63 22 22 22 22 26 279 8 100.00	PROB
11 59 50.36 61.96 1 64.1 24.9 2.68393 6.91629 18.71 81.29 13.62 31.90 18.28 13.62 31.90 22.3676 40.141 3.62 34.42 38.04 2 150 40 190 3.62 34.42 38.04 2 136.9 53.1 1.25721 3.23874 53.76 14.34 58.10 57.76 14.34 68.10 57.20 57.	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIS PERCENT ROW PCT COL PCT	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE	12	5.02 279 100.00 AL BY MEALS VALUE 11.821	PROB	TOTAL STATISTIC STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT	74	105 77 17 1 105 77 17 1 1 27 63 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PROB
10	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIS PERCENT ROW PCT COL PCT	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE	12 5.8 6.5597 4.30 85.71 10.34 116 41.58 OF MARITA	5.02 279 100.00 AL BY MEALS VALUE 11.821	PROB	STATISTICS STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	74 3 43 43 26 10 45 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12	105 77 105 77 11 37.63 12 12 12 12 12 12 12 12 12 12 12 12 12	PROB
2 10 95 105 57.30 42.70 25.37 48.72 2.36.70 40.171 36.9 57.30 42.70 25.37 48.72 2.36.9 36.2 34.42 38.04 2 150.9 40 190 37.52 90.48 3.52 90.48 12.5721 3.23974 53.76 14.34 68.10 70TAL 42 234 276 78.95 21.05 15.22 84.78 100.00 74.63 51.28 74.63 51.28 77.04 27.96 100.00 74.63 51.28 77.04 27.96 100.00 77.04 27.04 27.96 100.00 77.04 2	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIS PERCENT ROW PCT COL PCT	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE	12 5.8 6.5597 4.30 85.71 10.34 116 41.58 OF MARITA 1	5.02 279 100.00 AL BY MEALS VALUE 11.821	PROB	STATISTICS STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	74 74 74 75 75 75 75 75	11 105 17 1 37.63 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PROB
16.0 89.0 25.37 48.72 2.3676 401471 3.62 34.42 38.04 2 150 40 190 136.9 53.14 1.25721 3.23874 53.76 14.34 68.10 74.63 51.28 15.22 84.78 100.00 74.63 51.28 1.25721 3.23874 78.95 21.05 74.63 51.28 15.22 84.78 100.00 74.63 51.28 1.25721 3.23874 77.04 27.96 100.00 77.04 27.96 100.00	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIS PERCENT ROW PCT COL PCT	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE SUBST	12 5.8 6.5597 4.30 85.71 10.34 116 41.58 OF MARIT, DF 1	5.02 279 100.00 AL BY MEALS VALUE 11.821	PROB	STATISTICS STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	74	105 77 105 77 11 1 37.63 22 22 22 22 24 279 88 100.00 25 SIDE BY MEALS VALUE 10.070	PROB
2	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIL PERCENT ROW PCT COL PCT 1	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE SUBST	12 5.8 6.5597 4.30 85.71 10.34 116 41.58 OF MARIT. DF 1 1 1 2 2 145.0 246517 50.36 81.29 59.40	5.02 279 100.00 AL BY MEALS VALUE 11.821 171 61.96	PROB	STATISTICS STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	74	105 77 10 105 77 11 1 37.63 22 22 22 22 24 279 88 100.00 25 SIDE BY MEALS VALUE 10.070	PROB
9.52 90.48 23.81 40.60 1.25721 3.23974 53.76 14.34 68.10 TOTAL 42 234 276 78.95 21.05 74.63 51.28 74.63 51.28 74.63 51.28 74.63 51.28 FREQUENCY MISSING = 3 TOTAL 201 78 279 72.04 27.96 100.00 STATISTICS FOR TABLE OF RESIDE BY SUBST STATISTICS FOR TABLE OF SEX BY CONSUME1 STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIL PERCENT ROW PCT COL PCT 1	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE 22 26.0 1.37345 11.59 18.71 76.19 16.0	12 5.8 6.5597 4.30 85.71 10.34 116 41.58 OF MARIT. DF 1 1 1 2 2 145.0 246517 50.246517 50.246517 50.246517 50.246517 50.246517	5.02 279 100.00 AL BY MEALS VALUE 11.821 171 61.96	PROB	STATISTICS STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	74 74 74 75 75 75 75 75	1 105 77 17 1 1 37.63 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PROB
TOTAL 42 234 276 78.95 21.05 74.63 51.28 70.00 TOTAL 201 78 279 72.04 27.96 100.00 TOTAL 201 78 279 72.04 27.96 100.00 STATISTICS FOR TABLE OF RESIDE BY SUBST STATISTICS FOR TABLE OF SEX BY CONSUME1	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIL PERCENT ROW PCT COL PCT 1	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE 22 26.0 1.37345 11.59 18.71 76.19 10.16.0 2.23676 3.62	12 5.8 6.5597 4.30 85.71 10.34 116 41.58 OF MARITA DF 1 1 1 2 2 149.0 2.46517 50.36 81.29 59.40 .401471 34.42	5.02 279 100.00 AL BY MEALS VALUE 11.821 171 61.96	PROB	TOTAL STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	74 74 74 75 75 75 75 75	1 105 77 17 1 37.63 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PROB
15.22 84.78 100.00 74.63 51.28 TOTAL 201 78 279 FREQUENCY MISSING = 3 72.04 27.96 100.00 STATISTICS FOR TABLE OF RESIDE BY SUBST STATISTICS FOR TABLE OF SEX BY CONSUME1 STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIL PERCENT ROW PCT COL PCT 1	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE SUBST 1 1 2 2 26.0 1.37345 11.59 18.71 76.19 10.0 2.23676 3.62 9.52	12 5.8 6.5597 4.30 85.71 10.34 116 41.58 OF MARIT, DF 1 139 145.0 246517 50.36 81.29 59.40 401471 34.42 90.48	5.02 279 100.00 AL BY MEALS VALUE 11.821 171 61.96 + 105 38.04	PROB	TOTAL STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	74 74 74 75 75 75 75 75	105 777 1 105 777 1 1 37.63 22 22 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PROB
FREQUENCY MISSING = 3 TOTAL 201 78 279 72.04 27.96 100.00 STATISTICS FOR TABLE OF RESIDE BY SUBST STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIL' PERCENT ROW PCT COL PCT 1	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE SUBST 11.59 18.71 76.19 10 16.00 2.23676 3.62 23.81	12 5.8 6.5597 4.30 85.71 10.34 116 41.58 OF MARIT, DF 1 139 145.0 246517 50.36 81.29 59.40 95.80 81.29 89.0 401471 34.42 90.48 40.60	279 100.00 AL BY MEALS VALUE 11.821 171 61.96 + 105 38.04	PROB	TOTAL STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	74 74 74 75 75 76 76 76 76 76 76	11 105 17 1 37.63 12 2 12 2 16 279 18 100.00 SIDE BY MEALS VALUE 10.070 1 TOTAL 8 9 9 9 31.90 1 190 1 4 68.10	PROB
FREQUENCY MISSING • 3 72.04 27.96 100.00 STATISTICS FOR TABLE OF RESIDE BY SUBST STATISTICS FOR TABLE OF SEX_BY CONSUME1 STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIL' PERCENT ROW PCT COL PCT 1	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE 26.0 1.37345 11.59 18.71 76.19 10.2.3676 3.62 9.52 23.81	12 5.8 6.5537 4.30 85.71 10.34 116 41.58 OF MARITA DF 13 145.0 246517 50.36 81.29 59.40 40.40 40.40 234	5.02 279 100.00 AL BY MEALS VALUE 11.821 101.821 105 38.04	PROB	TOTAL STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	74 74 74 74 74 75 76 76 76 77 76 77 76 77 78 95 77 78 78 78 78 78 78 7	105 777 1 1 27 .63 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PROB
STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB	TOTAL STATISTICS FATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIL' PERCENT ROW PCT COL PCT 1	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE 26.0 1.37345 11.59 18.71 76.19 10.2.3676 3.62 9.52 23.81	12 5.8 6.5537 4.30 85.71 10.34 116 41.58 OF MARITA DF 13 145.0 246517 50.36 81.29 59.40 40.40 40.40 234	5.02 279 100.00 AL BY MEALS VALUE 11.821 101.821 105 38.04	PROB	STATISTICS STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1	74 74 74 74 75 75 76 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 76 77 76 76 77 76 76 77 76 76 77 76 76 77 76 76 77 76 76 77 76 76 77 76 76 77 76 77 76 77 76 77 76 77 76 77 76 77 7	1 105 77 11 37.63 12 279 18 100.00 SSIDE BY MEALS VALUE 10.070 1 TOTAL 89 9 3 9 31.90 0 190 14 68.10 58	PROB
STATISTIC DF VALUE PROB STATISTIC DF VALUE PROB	TOTAL STATISTICS FATISTIC HI-SOUARE RESIDE FREQUENCY EXPECTED CELL CHIL PERCENT ROW PCT COL PCT	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE 26.0 1.37345 11.59 18.71 76.19 10.10 10.0 2.23676 9.52 23.81 42.15.22	12 5.8 6.5597 4.30 85.71 10.34 116 41.58 OF MARIT. DF 1 139 0.246517 50.36 81.29 59.40 95.	5.02 279 100.00 AL BY MEALS VALUE 11.821 101.821 105 38.04	PROB	STATISTICS STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1	74 74 74 74 75 75 75 75	1 105 77 11 37.63 12 279 16 279 18 100.00 SSIDE BY MEALS VALUE 10.070 1 TOTAL 89 99 91 92 93 91 93 94 95 96 96 97 98 98 99 90 100 100 100 100 100 100	PROB
STATISTIC	TOTAL STATISTICS FATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIZ PERCENT ROW PCT COL PCT	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE 23 23.0 1.37345 11.59 18.71 76.19 10.0 2.23676 2.62 23.81 42 42 15.22 Y MISSING	12 5.8 6.5597 4.30 85.71 10.34 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58	5.02 279 100.00 AL BY MEALS VALUE 11.821 171 61.96 105 38.04	PROB 0.001	TOTAL STATISTICS STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1 1	74 74 74 74 75 75 75 75	1 105 77 11 37.63 12 279 18 100.00 SSIDE BY MEALS VALUE 10.070 1 TOTAL 8 89 9 31.90 1 4 68.10 8 279 6 6 100.00	PROB. 0 . 00
	TOTAL STATISTICS FATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHIZ PERCENT ROW PCT COL PCT	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE 23 23.01 1.37345 11.59 18.71 76.19 10.0 2.23676 2.62 23.81 42 15.22	12 5.8 6.5597 4.30 85.71 10.34 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58	5.02 279 100.00 AL BY MEALS VALUE 11.821 171 61.96 105 38.04	PROB 0.001	TOTAL STATISTICS STATISTIC CHI-SOUARE SEX FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1 TOTAL STATISTICS	74 3 43 43 61.3 43 3.6688 26.52 11.70.48 29.5 45.40 26.7 16.9 158.42 41.5 16.9 15.37 42.7 26.8993 6.9162 18.28 13.6 57.30 42.7 25.37 48.7 150 378.95 21.0 74.63 51.2	105 777 105 777 11 105 777 11 105 777 11 105 777 11 105 779 11 105	PROB 0.00
	TOTAL STATISTICS TATISTIC HI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHI PERCENT ROW PCT COL PCT 1 TOTAL FREQUENC	2 8.2 4.66826 0.72 14.29 1.23 163 58.42 FOR TABLE SUBST 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 5.8 6.5537 4.30 85.71 10.34 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 41.58 116 41.58 116 41.58 116 41.58 41.58 116 4	5.02 279 100.00 AL BY MEALS VALUE 11.821 171 61.96 105 38.04 276 100.00	PROB	TOTAL STATISTICS STATISTIC CHI-SQUARE SEX FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	74 74 74 75 76 76 76 76 76 76 76	105 777 105 777 11 37.63 22 22 22 22 22 22 22 23 100.00 25 SIDE BY MEALS VALUE 10.070	PROB

FREQUENCY MISSING - 3	FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL. PCT O
TOTAL TELL CHI2 PERCENTI ROW PCI COL PCI 1 39 49 88 23.6 64.4 10.0592 3.68505 14.13 17.75 31.88 52.70 24.26 2 35 153 188 52.70 24.26 2 156 55.43 18 62 81.38 47.30 75.74 TOTAL 74 202 276 26.81 73.19 100.00	CELL CHI2 PERCENT ROW PCT COL PCT 1
ROW PCI CDL PCI D 1 TOTAL 1 39 49 88 23.6 64.4 10.0592 3.68505 14.13 17.75 31.88 52.70 24.26 2 35 153 188 50.4 137.6 4.70856 1.72492 12.68 55.43 68.12 18.62 81.38 47.30 75.74 TOTAL 74 202 276 26.81 73.19 100.00	ROW PCT O 1 TOTAL 1
COL PCI 0 1 TOTAL 1	COL PCT O 1 TOTAL 1
23.6 64.4 10.0592 3.68505 14.13 17.75 31.88 52.70 24.26 2 35 153 188 50.4 137.6 4.70856 1.72492 12.68 55.43 68.12 18.62 81.38 47.30 75.74 TOTAL 74 202 276 26.81 73.19 100.00	1
23.6 64.4 10.0592 3.68505 14.13 17.75 31.88 52.70 24.26 2 35 153 188 50.4 137.6 4.70856 1.72492 12.68 55.43 68.12 18.62 81.38 47.30 75.74 TOTAL 74 202 276 26.81 73.19 100.00	1.78932 .655493 .17.03 .60.14 .77.17 .22.07 .77.93 .60.551 .82.18 .21.65
14.13 17.75 31.88 44.32 55.68 52.70 24.26 2 35 153 188 50.4 137.6 4.70856 1.72492 12.68 55.43 68.12 18.62 81.38 47.30 75.74 TOTAL 74 202 276 26.81 73.19 100.00	2 27 36 63 63 63 63 65 63 66 64 66 65 66 65 66 66 66 66 66 66 66 66 66
44.32 55.68 52.70 24.26 2 35 153 188 50.4 137.6 4.70856 1.72492 12.68 55.43 18.62 81.38 47.30 75.74 TOTAL 74 202 276 26.81 73.19 100.00	22.07 77.93 63.51 82.18 2 16.9 46.1 6.04961 2.21619 9.78 13.04 22.83 42.86 57.14 36.49 17.82
2 35 153 188 50.4 137.6 4.70856 1.72492 12.68 55.43 18.62 81.38 47.30 75.74 TOTAL 74 202 276 26.81 73.19 100.00	2 27 36 63 16.9 46.1 6.04961 2.21619 9.78 13.04 22.83 42.86 57.14 36.49 17.82
TOTAL 74 202 276 26.81 73.19 100.00	16.9 46.1 6.04961 2.21619 9.78 13.04 42.86 57.14 36.49 17.82
14.70856 1.72492 12.68 55.43 68.12 18.62 81.38 47.30 75.74 TOTAL 74 202 276 26.81 73.19 100.00	6.04961 2.21619 9.78 13.04 22.83 42.86 57.14 36.49 17.82 TOTAL 74 202 276
12.68 55.43 68.12 18.62 81.38 47.30 75.74 TOTAL 74 202 276 26.81 73.19 100.00	9.78 13.04 22.83 42.86 57.14 36.49 17.82 101AL 74 202 276
TOTAL 74 202 276 26.81 73.19 100.00	36.49 17.82 TOTAL 74 202 276
TOTAL 74 202 276 26.81 73.19 100.00	TOTAL 74 202 276
26.81 73.19 100.00	
EDECHIENCY MISSING . 3	26.81 73.19 100.00
	FOROUTHON MICETAIN - 0
PREGOLIGI MISSING - 3	FREQUENCY MISSING = 3
STATISTICS FOR TABLE OF SEX BY CONSUMES	STATISTICS FOR TABLE OF AGE BY CONSUMES
STATISTIC DF VALUE PROB STATI	ISTIC DF VALUE PROB
	SQUARE 1 10.711 0.001
CH1-300/MRE 1 20:170 0:000 CH1-3	SQUARE 1 10.711 0.001
DECIDE CONCINES	MARITA
RESIDE CONSUME3	MARITAL CONSUMES
FREQUENCY	FREQUENCY
EXPECTED CELL CH12	EXPECTED CELL CHI2
PERCENT	PERCENT
ROW PCT CDL PCT O 1 TOTAL	ROW PCT Ol 11 TOTAL
	COL PCT O 1 TOTAL
1 58 114 172 46 1 125.9	85 177 262 89.2 172.8
3.06252 1.12191	89.2 172.8 0.2007 103658
21.01 41.30 62.32 33.72 66.28	30.80 64 13 94 93
78.38 56.44	32.44 67.56 90.43 97.25
2 16 88 104	2 9 5 1 14
27.9 76.1	2 9 5 14
5.06493 1.85547 5.80 31.88 37.68	3.75596 1.93989
15.38 84.62	3.26 1.81 5.07 64.29 35.71
21.62 43.56	9.57 2.75
TOTAL 74 202 276	TOTAL 94 182 276
26.81 73.19 100.00	34.06 65 94 100.00
FREQUENCY MISSING . 3	FREQUENCY MISSING = 3
STATISTICS FOR TABLE OF RESIDE BY CONSUMES	STATISTICS FOR TABLE OF MARITAL BY CONSUMES
	S. MAKTINE BY CONSOMES
STATISTIC DF VALUE PROB STAT	TISTIC DF VALUE PROB
***************************************	PRUB
	-SQUARE 1 6.000 0.014
RACE CONSUME5	AGE CONSUME7
FREQUENCY	FREQUENCY
EXPECTED CELL CHI2	EXPECTED CELL CHI2
PERCENT	PERCENT
ROW PCT	ROW PCT
COL PCT O 1 TOTAL	COL PCT O 1 TOTAL
1 83 173 256	1 185 28 213
87.8 168.2 0.26506 0.13842	176.7 36.3 387157 1.88636
	67.03 10.14 77.17
30.29 63.14 93.43	
30.29 63.14 93.43 32.42 67.58 88.30 96.11	86.85 13.15
30.29 63.14 93.43 32.42 67.58 88.30 96.11	86.85 13.15 80.79 59.57
30.29 63.14 93.43 32.42 67.58 88.30 96.11 2 11 7 18 6.2 11.8	86.85 13.15 80.79 59.57 2 44 19 63 52.3 10.7
30. 29 63. 14 93. 43 32. 42 67. 58 98. 30 96. 11 7 18 6.2 11.8 3.76975 1.96864	86.85 13.15 80.79 59.57 2 44 19 63 52.3 10.7 1.30896 6.3777
30. 29 63. 14 93.43 32. 42 67.58 88.30 96.11 2 11 7 18 6.2 11.8 18 3.76975 1.96864 4.01 2.55 6.57 61. 11 38.89	86.85 13.15 80.79 59.57 2 44 19 63 52.3 10.7
30.29 63.14 93.43 32.42 67.58 88.30 96.11 2 11 7 18 6.2 11.8 3.76975 1.96864 4.01 2.55 6.57	86.85 13.15 80.79 59.57 2 44 19 63 52.3 10.7 1.30896 6.3777 15.94 6.88 22.83 69.84 30.16 19.21 40.43
30.29 63.14 93.43 32.42 67.58 88.30 96.11	B6.85 13.15 B0.79 59.57 2 44 19 63 52.3 10.7 1.30896 6.3777 15.94 6.88 22.83 69.84 30.16 19.21 40.43 TOTAL 229 47 276
30. 29 63. 14 93. 43 32. 42 67.58 88.30 96. 11 2 11 7 18 3.76975 1.96864 4.01 2.55 6.57 61. 11 38.89 11.70 3.89	86.85 13.15 80.79 59.57 2 44 19 63 52.3 10.7 1.30896 6.3777 15.94 6.88 22.83 69.84 30.16 19.21 40.43
30.29 63.14 93.43 32.42 67.58 88.30 96.11	B6.85 13.15 B0.79 59.57 2 44 19 63 52.3 10.7 1.30896 6.3777 15.94 6.88 22.83 69.84 30.16 19.21 40.43 TOTAL 229 47 276
30.29 63.14 93.43 32.42 67.58 88.30 96.11	B6.85 13.15 B0.79 59.57 2 44 19 63 52.3 10.7 1.30896 6.3777 15.94 6.88 22.83 69.84 30.16 19.21 40.43 TOTAL 229 47 276
30.29 63.14 93.43 32.42 67.58 88.30 96.11	B6.85 13.15 80.79 59.57 2 44 19 63 52.3 10.7 1.30896 6.3777 15.94 6.88 22.83 69.84 30.16 19.21 40.43 TOTAL 229 47 276 82.97 17.03 100.00
30.29 63.14 93.43 32.42 67.58 88.30 96.11	B6.85 13.15 B0.79 59.57 2 44 19 63 52.3 10.7 1.30896 6.3777 15.94 6.88 22.83 69.84 30.16 19.21 40.43 TOTAL 229 47 276 82.97 17.03 100.00 FREQUENCY MISSING = 3
30.29 63.14 93.43 32.42 67.58 88.30 96.11	B6.85 13.15 80.79 59.57 2 44 19 63 52.3 10.7 1.30896 6.3777 15.94 6.88 22.83 69.84 30.16 19.21 40.43 TOTAL 229 47 276 82.97 17.03 100.00
30.29 63.14 93.43 32.42 67.58 93.43 32.42 67.58 93.43 32.42 67.58 93.43 3.62 67.5 11.8 3.76975 1.96864 4.01 2.55 6.57 61.11 38.89 11.70 3.89 TOTAL 94 180 274 34.31 65.69 100.00 FREQUENCY MISSING = 5 STATISTICS FOR TABLE OF RACE BY CONSUMES	B6.85 13.15 80.79 59.57 2 44 19 63 52.3 10.7 1.30896 6.3777 15.94 6.88 22.83 69.84 30.16 19.21 40.43 TOTAL 229 47 276 82.97 17.03 100.00 FREQUENCY MISSING = 3
30.29 63.14 93.43 32.42 67.58 93.43 32.42 67.58 93.43 32.42 67.58 93.43 32.42 67.58 93.43 32.42 67.58 93.43 37.6975 1.96864 4.01 2.55 6.57 61.11 38.89 11.70 3.89 TOTAL 94 180 274 34.31 65.69 100.00 FREQUENCY MISSING • 5 STATISTICS FOR TABLE OF RACE BY CONSUME5	B6.85 13.15 B0.79 59.57 2 44 19 63 52.3 10.7 1.30896 6.3777 15.94 6.88 22.83 69.84 30.16 19.21 40.43 TOTAL 229 47 276 B2.97 17.03 100.00 FREQUENCY MISSING = 3

AGE

CONSUMEO

CONSUMES

SEX

RESIDE	CONSUME7									
FREQUENCY EXPECTED CELL CH12					SEX		D 1			
PERCENT ROW PCT COL PCT	ol	1]	TOTAL		CELL	CHI2				
1	134	38 29.3	172		ROV	PCT	ol		OTAL	
	.531613 2 48.55 77.91	.5902 13.77 22.09	62.32				39 29.0	50 60.0 5791	89	
2	95	9 17.7	104				3.98 1 3.82 5 12.86 2		1.90	
	34.42 91.35	28379 3.26 8.65 19.15	37.68			2	52 62.0 1 50441 .77	138 28.0 6602	190	
TOTAL	229	47 17.03	276 100.00				27.37 7 57.14 7	2.63	68.10	
FREQUENCY	MISSING - 3	ŀ			TOT				279 00.00	
STATISTICS F	OR TABLE OF	RESIDE	BY CONSUME?		st	ATISTICS	FOR TABLE	OF SEX BY	MOOD 1	
STATISTIC		DF	VALUE	PROB	STATISTIC					PROB
CHI-SQUARE		1	8 285	0.004	CHI - SQUARE				464	0.006
AGE	MOOD 1					MAJOR	MOOD 1			
FREQUENCY EXPECTED						FREQUENCY EXPECTED				
CELL CHI2						CELL CHIZ				
ROW PCT	ol	11	TOTAL			ROW PCT	01	11	TOTAL	
1	63	153	216			2			138	
		145.5	77. 40				45.0	93.0		
	22.58 29.17 69.23	54.84 70.83 81.38	77.42				11.47 23.19 35.16	37.99 76.81 56.38	49.46	
2	28	35 42.5	63			3		82	141	
	2.70223 10 04 44.44	1.308 12.54 55.56 18.62	22.58				46.0 3.68085 21.15 41.84 64.84	95.0 1.78169 29.39 58.16 43.62	50.54	
TOTAL	91		279 100.00			TOTAL	91	188 67.38	279 100.00	
. STATISTI	CS FOR TABL	E OF AGE	BY MOOD1			STATISTIC	S FOR TABL	E OF MAJO	OR BY MOOD1	
		DF	VALUE	PROB	STATIST	ıc		DF	VALUE	PROB
STATISTIC CHI-SQUARE		1		0.023					11.044	0.001
RACE	MOOD 1					RACE	MOOD2			
FREQUENC EXPECTED						FREQUENCY EXPECTED				
CELL CHI PERCENI	2					CELL CHI2 PERCENT				
ROW PCT	r I ol					ROW PCT	0		TOTAL	
	1 79		259			1	209	50	259	
	83.2 .213657 28.52	175.8 .101146 64.98	93.50				212.2 .049737 75.45	46.8 .225806 18.05	93.50	
	30.50 88.76	69.50	1				80.69 92.07	19.31		
	2 10 5.8		18			2			18	
		1.45538 2.89 44.44 4.26	6.50				0.71566 6.50 100.00 7.93	3.2491 0.00 0.00 0.00	6.50	
TOTAL	89 32.13	188 67.87	277 100.00			TOTAL	227 81.95	50	277 100.00	
FREQUEN	CY MISSING					FREQUENCY	MISSING			
STATIST	ICS FOR TAB	LE OF RAG	CE BY MOOD1			STATISTIC	S FOR TABI	E OF RACE	BY MODD2	
STATISTIC		DF	VALUE	PROB	STATIST			DF	VALUE	PROB
CHI-SQUARE			4.844	0.028	CHI-SQU			1	4.240	0.039

	M0002				SEX	MOOD3			
FREQUENCY EXPECTED CELL CHI2 PERCENI ROW PCT					FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT	1			
COL PCT	이	1	TOTAL		COL PCT	0	1	TOTAL	
1	121	18 24.9 1.91701	139		1	50.4	•	89	
	43.37 87.05 52.84	6.45 12.95 36.00	49.82			1.82797 21.51 67.42 37.97	10.39 32.58 23.97	31.90	
2	108 114.9 .415572	32 25.1 1.90332	140		2	98 107.6 .856261	92 82.4 1.11809	190	
	38.71 77.14 47.16	11.47 22.86 64.00	50.18			35.13 51.58 62.03	32.97 48.42 76.03	68.10	
TOTAL	229 82.08	50	279 100 . 00		TOTAL	158 56.63	121 43.37	279 100.00	
STATISTICS	FOR TABLE	OF MEMBER	S BY MOOD2		STATISTI	CS FOR TA	BLE OF SE	X BY MOOD3	
STATISTIC			VALUE	PROB	STATISTIC		DF	VALUE	PROB
CHI - SQUARE			4 654	0.031	CHI - SQUARE				
MEMBERS	MOOD4				MEMBERS	MOOD5	·		0.0.0
FREQUENCY EXPECTED CELL CHI: PERCENT ROW PCT	2				FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT				
COL PCT			TOTAL		COI. PCT	0	1	TOTAL	
1	107.6	23 31.4 2.24116 8.24	139		1			139	
	83.45 53.70	16.55 36.51				77.70 53.73	22.30 39.74		
2	108.4	40 31.6 2.22515 14.34 28.57 63.49	140 50.18		. 2	93 100.9 0.61256 33.33 66.43 46.27	47 39.1 1.57852 16.85 33.57 60.26	140 50.18	
TOTAL	216 77.42	63 22.58	279 100.00		TOTAL	201 72.04	78 27.96	279 100 00	
									15
STATISTIC	S FOR TABL	E OF MEMBE	KZ BA WOOD	14	STATISTICS	FOR TABLE	OF MEMBE	ERS BY MOOD	
STATISTIC		E OF MEMBE	VALUE	PROB		FOR TABLE			
					STATISTICS STATISTIC CHI-SQUARE		DF	VALUE	PROB
STATISTIC CHI-SQUARE		DF	VALUE	PROB	STATISTIC		DF	VALUE	PROR
STATISTIC CHI-SQUARE SEX FREQUENC EXPECTED CELL CHI PERCENT ROW PCI	M0007	DF 1	VALUE 5.769	PROB	STATISTIC CHI-SQUARE MEMBERS FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT	TYPES2	DF 1	VALUE 4.398	PROB
STATISTIC CHI-SQUARE SEX FREQUENC EXPECTED CELL CHI PERCENI ROW PCT COL. PCT	мооб'7 Y 2	DF 1	VALUE 5.769	PROB	STATISTIC CHI-SQUARE MEMBERS FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	TYPES2	DF 1	VALUE 4.398	PROB
STATISTIC CHI-SQUARE SEX FREQUENC EXPECTED CELL CHI PERCENI ROW PCT COL PCT	70 70 70 76 64.4 2.07483 27.24 85.39 37.62	DF 1 13 24.6 5.44307 4.66 14.61 16.88	VALUE 5.769 TOTAL 89 31.90	PR08 0 016	STATISTIC CHI-SQUARE MEMBERS FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	777 86.2 979876 27.60 55.40	DF 1 1 62 52.8 1.59923 22.22 44.60	VALUE 4.398 TOTAL 139 49.82	PROB
STATISTIC CHI-SQUARE SEX FREQUENC EXPECTED CELL CHI PERCENI ROW PCT COL PCT	7 2 76 64.4 2.07483 27.24 85.39 37.62 126 971895 45.16 66.32	DF 1 1 13 24.6 5.44307 4.66 14.61 16.88 64 2.54965 22.94 33.68	TOTAL 89 31.90	PR08 0 016	STATISTIC CHI-SQUARE MEMBERS FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	77 86.2 .979876 .27.60 .44.51 .96.8 .972876 .34.41 .68.57	0F 1 1 62 52.8 1.59923 22.22 44.60 58.49 44.53 21.58781 15.77 31.43 31	VALUE 4.398 TOTAL 139 49.82	PROB
STATISTIC CHI-SQUARE SEX FREQUENC EXPECTED CELL CHI PERCENI ROW PCT COL PCT	MOOD7 7 2 76 64,4 2.07483 27.24 85.39 37.69 137.6 971895 45.16 66.32 62.38	DF 1 13 24.6 5.44307 4.66 14.61 16.88 52.4 2.54965 22.94 33.68 83.12	TOTAL 89 31.90 190 68.10	PROB 0 016	STATISTIC CHI-SQUARE MEMBERS FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	77PES2 77 86.2 979876 27.60 55.40 44.51 96 86.8 972876 34.41 68.57 55.49	DF 1 62 52.8 1.59923 22.22 44.60 58.49 15.77 31.43 41.51 106	VALUE 4.398 TOTAL 139 49.82	PROB
STATISTIC CHI-SQUARE SEX FREQUENC EXPECTED CELL CHI PERCENI ROW PCT COL PCT 1	76 64.4 2.07483 37.62 137.6 971895 45.16 66.32 62.38	0F 1 13 24.6 5.44307 4.66 14.61 16.88 64 52.4 2.54965 22.94 33.68 83.12 77 27.60	TOTAL 89 31.90 190 68.10	PROB 0.016	STATISTIC CHI-SQUARE MEMBERS FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1	777 86.2 979876 27.60 55.40 44.51 96.8 872876 34.41 68.57 55.49	0F 1 62 52.8 1.59923 22.22 44.60 53.2 1.58781 1.58781 1.58781 1.58781 1.06 37.99	VALUE 4.398 TOTAL 139 49.82 140 50.18 279 100.00	PR0B 0.036
STATISTIC CHI-SQUARE SEX FREQUENC EXPECTED CELL CHI PERCENI ROW PCT COL PCT 1	76 64.4 2.07483 37.62 137.6 971895 45.16 66.32 62.38	DF 1 13 24.6 5.44307 4.66 14.61 16.88 64 2.54965 22.94 33.68 83.12 77 27.60	TOTAL 89 31.90 68.10 279 100.00	PROB 0.016	STATISTIC CHI-SQUARE MEMBERS FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1 TOTAL	777 86.2 979876 27.60 55.40 44.51 96.8 872876 34.41 68.57 55.49	DF 1 62 52.8 15923 22.244.69 58.49 158781 158781 1577 31.43 41.51 106 37.99	VALUE 4.398 TOTAL 139 49.82 140 50.18 279 100.00	PR0B 0.036
STATISTIC CHI-SQUARE SEX FREQUENC EXPECTED CELL CHI PERCENI ROW PCT COL PCT 1	MOOD7 7 2 7 64.4 2.07483 27.24 85.39 37.62 126 971895 45.16 66.32 62.38 202 72.40	DF 1 13 24.6 5.44307 4.66 14.61 16.88 64 2.54965 22.94 33.68 83.12 77 27.60 ABLE OF SE	TOTAL 89 31.90 190 68.10 279 100.00 X BY MOOD7	PROB 0.016	STATISTIC CHI-SQUARE MEMBERS FREQUENCY EXPECTED CELL CHI 2 PERCENT ROW PCT COL PCT 1 TOTAL STATISTICS I	77 86.2 979876 27.60 55.40 44.51 	DF 1 62 52.8 1 59923 2 44.69 58.49 15.8781 15.8781 15.8781 106 37.99 OF MEMBER	VALUE 4.398 TOTAL 139 49.82 140 50.18 279 100.00	PROB 0.036

SEX

M00D3

MEMBERS

M00D2

FREQUENCY EXPECTED CELL CHI2 PERCENT					FREQUENCY EXPECTED CELL CHI2 PERCENT				
ROW PCT COL PCT	0	1 1	TOTAL		ROW PCT COL PCT			70741	
1	134					0	+	TOTAL	
·	125.4 .596218 48.03 77.01	48.6 1.53641 14.34 22.99	174 62.37			114 107.1 .442586 40.86 82.01	25 31.9 1.48681 8.96 17.99	139	
2	66.67 67 75.6 .988018	29.4	105		2	53.02 101 107.9	39.06 39 32.1	140	
	24.01 63.81 33.33	2.54605 13.62 36.19 48.72	37.63			.439424 36.20 72.14 46.98	1.47619 13.98 27.86 60.94	50. 18	
TOTAL	201 72.04	78 27 . 96	279 100.00		TOTAL	215 77.06	64 22.94	279 100.00	
STATISTICS	FOR TABLE	OF RESID	E BY TYPESS	1	STATISTICS F	OR TABLE	OF MEMBER	S BY TYPES	1
STATISTIC		DF	VALUE	PROB	STATISTIC		DF	VALUE	PROB
CHI-SQUARE		1	5.667	0.017	CHI - SQUARE		1	3.845	0.050
SEX	TYPES5				SEX	TYPES7			0.000
FREQUENCY EXPECTED					FREQUENCY				
CELL CHI2					EXPECTED CELL CHI2				
PERCENT ROW PCT	1				PERCENT ROW PCT				
COL PCT		1			COL PCT	0	! !!	TOTAL	
1	78	11	89		1	57		89	
	.599459	2.44143				41.8 5 53714	47 2 4.90111		
	27.96 87.64 34.82	3.94 12.36 20.00	31.90			20 43 64.04 43.51	11.47 35 96 21.62	31.90	
2	146	37.5	190		2	74 89.2		190	
	.280799 52.33 76.84 65.18	1.14362 15.77 23.16 80.00	68.10			2.59371 26.52 38.95	2.29579 41.58 61.05	68 . 10	
	÷	·				56.49	78.38		
TOTAL	80.29	55 19.71	279 100.00		TOTAL	131 46.95	148 53.05	279 100.00	
STATISTIC	S FOR TAB	LE OF SEX	BY TYPES5		STATISTICS	S FOR TAB	LE OF SEX	BY TYPES7	
STATISTIC		DF	VALUE	PROB	STATISTIC		DF	VALUE	PROB
CHI-SQUARE		1	4.465	0.035	CHI -SQUARE			15.328	0.000
RESIDE	TYPESB				MEMBERS	TYPESE			0.000
FREQUENC	Y				FREQUENCY				
EXPECTED CELL CHI PERCENT	2				EXPECTED CELL CHI2 PERCENT	1			
ROW PCT COL PCT		0	1 TOTAL		ROW PCT COL PCT) 1	TOTAL	
1	1 . 143	31 39.3	174		1	÷	-i 23	1 139	
	.510204 51.25 82.18 66.20	39.3 1.74927 11.11 17.82 49.21	62.37			.653671 41.58 83.45	2.24116 8.24 16.55	49.82	
2	73	32	-+ 105		2	i	36.51 40 31.6		
	26.16	23.7 2.89879 11.47 30.48 50.79	37.63			35.84 71.43	2.22515 14.34 28.57	50.18	
	-+	-+	-+				-+	*	
TOTAL		63 22.58			TOTAL	216 77.42	63 22.58	279 100.00	
STATISTIC	S FOR TAB	LE OF RES	IDE BY TYPE	\$8	STATISTICS	FOR TABLE	OF MEMBE	RS BY TYPE	S8
STATISTIC			VALUE	PROB	STATISTIC		DF	VALUE	PROB
CHI-SQUARE					CHI - SQUARE				
					S Decemb		,	5.769	0.016

MEMBERS

TYPES4

RESIDE

SEX	TYPES9				MAJOR	TYPES 10			
FREQUENCY EXPECTED					FREQUENCY EXPECTED				
CELL CHI2 PERCENT	1				CELL CHIZ				
ROW PCT			7074		PERCENT ROW PC1				
COL PCT	0	!	TOTAL		COI. PCT	<u> 0 </u>	1	TOTAL	
1	76.2 1.3754	23 12.8 8.218	89		2	55 66 8 2 07613	83 71.2 1.94637	138	
	23 66 74 16 27 62	8.24 25.84 57.50	31.90			19.71 39.86 40.74	29.75 60.14 57.64	49.46	
2	173 162.8 .644265 3	17 27.2 .84949	190		3	80 68.2	61 72.8	141	
	62.01 91.05 72.38	6.09 8.95 42.50	68.10			2 03195 28.67 56.74 59 26	1.90496 21.86 43.26 42.36	50.54	
TOTAL	239 85.66	40 14.34	279 100.00		TOTAL	135 48.39	144 51.61	279 100.00	
STATISTIC	S FOR TABLE	OF SEX	BY TYPES9		STATISTICS	FOR TABLE	OF MAJOR	BY TYPES1	0
TATISTIC		DF	VALUE	PROB	STATISTIC		DF	VALUE	PROB
HI-SQUARE		1	14.087	0.000	CHI - SQUARE		1	7.959	0.00
	00111111					0011:10	•		3.00
SEX	DRINK1				RESIDE	DRINK2			
FREQUENCY EXPECTED CELL CHIZ	1				FREQUENCY EXPECTED CELL CHI2				
PERCENT ROW PCT					PERCENT ROW PCT				
COL PCT	01	1	TOTAL		CU! PCT	0	1	TOTAL	
1	57	32	89		1	127	47	174	
	69.2	19.8 7.55306				134.7	39.3 1.51282		
	20.43 64.04 26.27	11.47 35.96 51.61	31.90			45.52 72.99 58.80	16 85 27.01 74 60	62.37	
2	160	30	190		2	89	16	105	
	147.8	42.2 3.53801				81.3	23.7		
	57.35 84.21	10.75 15.79	68.10			31.90	5.73 15.24	37.63	
TOTAL	73.73	48.39			TOTAL	41.20	25.40	270	
TOTAL	73.73		279 100.00		TOTAL			279 100.00	
	217	62 22.22	279 100.00			216 77 42	63 22.58	100.00	:2
STATISTI	73.73 	62 22.22	279 100.00	PROB	TOTAL STATISTICS	216 77 42 FOR TABLE	63 22.58	100.00	
	73.73 	62 22.22 E OF SEX	279 100.00 BY DRINK1	PROB	TOTAL	216 77 42 FOR TABLE	63 22.58 OF RESID	100.00 E BY DRINK	PROB
STATISTI STATISTIC	73.73 	62 22.22 E OF SEX	279 100.00 BY DRINK1 VALUE		TOTAL STATISTICS STATISTIC	216 77 42 FOR TABLE	63 22.58 OF RESID	100.00 E BY DRINE	PROB
STATISTIC CHI-SOUARE AGE FREQUENI	73.73 217 77.78 CS FOR TABL DRINK3	62 22.22 E OF SEX	279 100.00 BY DRINK1 VALUE		STATISTICS STATISTIC CHI-SQUARE RESIDE	216 77 42 FOR TABLE	63 22.58 OF RESID	100.00 E BY DRINE	PROB
STATISTIC CHI-SOUARE AGE FREQUENI EXPECTEI CELL CHL	73.73 217 77.78 CS FOR TABL DRINK3	62 22.22 E OF SEX	279 100.00 BY DRINK1 VALUE		STATISTICS STATISTIC CHI-SQUARE RESIDE FREQUENCY EXPECTED	216 77 42 FOR TABLE	63 22.58 OF RESID	100.00 E BY DRINE	PROB
STATISTIC CHI-SQUARE AGE FREQUENI EXPECTEI CELL CH PERCEN	73.73 217 77.78 CS FOR TABL DRINK3	62 22.22 E OF SEX	279 100.00 BY DRINK1 VALUE		STATISTICS STATISTIC CHI-SOUARE RESIDE FREQUENCY EXPECTED CELL CHI2 PERCENT	216 77 42 FOR TABLE	63 22.58 OF RESID	100.00 E BY DRINE	PROB
STATISTIC CHI-SOUARE AGE FREQUENI EXPECTEI CELL CHL	73.73 217 77.78 CS FOR TABL DRINK3	62 22.22 E OF SEX DF	279 100.00 BY DRINK1 VALUE 14.260		STATISTICS STATISTIC CHI-SOUARE RESIDE FREQUENCY EXPECTED CELL CHIZ PERCENT ROW PCT COL. PCT	216 77 42 FOR TABLE	63 22.58 OF RESID	VALUE	PROB
STATISTIC CHI-SOUARE AGE FREQUENI EXPECTE! CELL CH PERCEN ROW PC COL. PC	73.73 217 77.76 CS FOR TABL DRINK3 CY 11 0	62 22.22 E OF SEX DF	279 100.00 BY DRINK1 VALUE 14.260		STATISTICS STATISTIC CHI-SOUARE RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT	216 77 42 FOR TABLE	63 22 58 OF RESID DF	100.00 E BY DRINE VALUE 5.192	PROB
STATISTIC CHI-SOUARE AGE FREQUENI EXPECTE! CELL CH PERCEN ROW PC COL. PC	73.73 217 77.78 CS FOR TABL DRINK3 CY 1 00 1 208- 204.4 .663864	62 22.22 E OF SEX DF 1	279 100.00 BY DRINK1 VALUE 14.260		STATISTICS STATISTIC CHI-SOUARE RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	216 77 42 FOR TABLE DRINK3	63 22 58 OF RESID DF 1	TOTAL	PROB
STATISTIC CHI-SOUARE AGE FREQUENI EXPECTE! CELL CH PERCEN ROW PC COL. PC	73.73 217 77.78 CS FOR TABL DRINK3 CY 1	62 22.22 E OF SEX DF 1 1 1,12401 2.87 3.70	279 100.00 BY DRINK1 VALUE 14.260		STATISTICS STATISTIC CHI-SOUARE RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	216 77 42 FOR TABLE DRINK3 0 164.1 164.6 080702 57.71 92.53	63 22 58 OF RESID DF 1 1 13,4 1,42036 4,66 7,47	VALUE 5.192 TOTAL	PROB
STATISTIC CHI-SOUARE AGE FREQUENI EXPECTE! CELL CH PERCEN ROW PC COL PC	73.73 217 77.78 CS FOR TABL DRINK3 CY 1 208 204.4 4.653864 74.55 96.30 78.79	62 22.22 E OF SEX DF 1 1 1.12.401 2.87 3.70 53.33	279 100.00 BY DRINK1 VALUE 14.260		STATISTICS STATISTIC CHI-SOUARE RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	216 77 42 FOR TABLE DRINK3 0 161 164.6 080702 57.71 92.53 60.98	63 22 58 OF RESID DF 1 1 13, 9.4 1,42036 4.66 7.47 86.67	100.00 E BY DRINK VALUE 5.192 TOTAL 174 62.37	PROB
STATISTIC CHI-SOUARE AGE FREQUENI EXPECTE! CELL CH PERCEN ROW PC COL PC	73.73 217 77.78 CS FOR TABL DRINK3 CS 1	62 22.22 E OF SEX DF 1 1.1240 2.87 3.70 53.33	279 100.00 BY DRINK1 VALUE 14.260		STATISTICS STATISTIC CHI-SOUARE RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	216 77 42 FOR TABLE DRINK3 0 161 164 164 6.080702 57.71 92.53 60.98	63 22 58 OF RESID DF 1 1 1 9.3 1.42036 4.66 7.47 86.67	100.00 E BY DRINE VALUE 5.192 TOTAL 174 62.37	PROB
STATISTIC CHI-SOUARE AGE FREQUENI EXPECTE! CELL CH PERCEN ROW PC COL PC	73.73 217 77.78 CS FOR TABL DRINK3 CY 1	62 22.22 E OF SEX DF 1 1.12401 2.87 3.70 53.33 7 3.85376 2.51 11.11	279 100.00 BY DRINK1 VALUE 14.260		STATISTICS STATISTIC CHI-SOUARE RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	216 77 42 FOR TABLE DRINK3 0 161 164.6 080702 57.71 92.53 60.98 103 99.4 133735 36.92 98.10	63 22 58 OF RESID DF 1 13,9.4 1.42036 4.66 7.47,86.67	TOTAL 174 62.37	PROB
STATISTIC CHI-SQUARE AGE FREQUEN EXPECTE: CELL CH PERCEN ROW PC COL PC	73.73 217 77.78 CS FOR TABL DRINK3 CY 1	62 22.22 E OF SEX DF 1 1,12401 2,87 3,70 53,33 7 3,44 3,85376 2,51 11,11 46,67	279 100.00 BY DRINK1 VALUE 14.260		STATISTIC STATISTIC CHI-SOUARE RESIDE FREQUENCY EXPECTED CELL CHIZ PERCENT ROW PCT COL PCT 1	216 77 42 FOR TABLE DRINK3 O 161 164.6 080702 57.71 92.53 60.98 103 99.4 1133735 36.92 98.10 39.02	63 22 58 OF RESID DF 1 13 9.4 1.42036 4.66 7.47 86.67	TOTAL 174 62.37 105 37.63	PROB
STATISTIC CHI-SOUARE AGE FREQUENI EXPECTEI CELL CH PERCEN ROW PC COL PC	73.73 217 77.76 CS FOR TABL DRINK3 CY 11 17 17 10 11 208- 204.4 063864 74.55 96.30 78.79 21 21 21 21 21 21 21 21 21 21 21 21 21	62 22.22 E OF SEX DF 1 1.6 1.12401 2.87 3.70 53.33 73.40 3.85376 2.51 11.11 46.67	279 100.00 BY DRINK1 VALUE 14.260 1 TOTAL 77.42 63 22.58		STATISTICS STATISTIC CHI-SOUARE RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	216 77 42 FOR TABLE DRINK3 0 161 164.6 080702 57.71 92.53 60.98 103 99.4 133735 39.4 133735 39.3	63 22 58 OF RESID DF 1 13 9.4 1.42036 4.66 7.47 86.67	100.00 E BY DRINK VALUE 5.192 TOTAL 174 62.37 105 37.63	PROB
STATISTIC CHI-SQUARE AGE FREQUENI EXPECTEI CELL CH PERCEN ROW PC COL PC	73.73 217 77.78 CS FOR TABL DRINK3 CS FOR TABL DRINK3 CS FOR TABL 00 11 208 204.4 4.653864 74.55 96.30 78.79 2 56 59.6 21.8964 20.07 88.89 21.21 264 94.62	62 22.22 E OF SEX DF 1 1.1.6 1.12401 2.87 3.70 53.33 7.30 2.51 11.1.61 46.67	279 100.00 BY DRINK1 VALUE 14.260 1 TOTAL 77.42 63 22.58	0.000	STATISTIC STATISTIC CHI-SOUARE RESIDE FREQUENCY EXPECTED CELL CHIZ PERCENT ROW PCT COL PCT 1	216 77 42 FOR TABLE DRINK3 DRINK3 161 164.6 080702 57.71 92.53 60.98 103 99.4 133735 36.92 98.10 39.02	63 22 58 OF RESID DF 1 1 13 9.4 1.42036 4.66 7.47 86.67 2.35373 0.72 1.72 0.72 1.33 1.55.38	100.00 E BY DRINK VALUE 5.192 TOTAL 174 62.37 105 37.63	PROB 0.02
STATISTIC CHI-SOUARE AGE FREQUENT EXPECTET CELL CH PERCENT ROW PC COL PC TOTAL STATIST	73.73 217 77.78 CS FOR TABL DRINK3 CY 1	62 22.22 E OF SEX DF 11.66 1.12401 2.87 3.70 53.33 73.44 3.85376 2.51 11.11 46.67 5.38	279 100.00 BY DRINK1 VALUE 14.260 11 TOTAL 216 77.42 63 22.58	0.000 PROB	STATISTICS STATISTIC CHI-SOUARE RESIDE FREQUENCY EXPECTED CELL CHIZ PERCENT ROW PCT COL PCT 1	216 77 42 FOR TABLE DRINK3 DRINK3 161 164.6 080702 57.71 92.53 60.98 103 99.4 133735 36.92 98.10 39.02	63 22 58 OF RESID DF 1 1 13 9.4 1.42036 4.66 7.47 86.67 2.35373 0.72 1.72 0.72 1.33 1.55.38	100.00 E BY DRINK VALUE 5.192 TOTAL 174 62.37 105 37.63 279 100.00 DE BY DRIN	PROB 0.02
STATISTIC CHI-SQUARE AGE FREQUENI EXPECTEI CELL CH PERCEN ROW PC COL PC TOTAL	73.73 217 77.78 CS FOR TABL DRINK3 CY 1	62 22.22 E OF SEX DF 11.66 1.12401 2.87 3.70 53.33 73.44 3.85376 2.51 11.11 46.67 5.38	279 100.00 BY DRINK1 VALUE 14.260 1 TOTAL 216 77.42 63 22.58 100.00 E BY DRINK3 VALUE	0.000	STATISTICS STATISTIC CHI-SQUARE RESIDE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT 1 TOTAL STATISTICS	216 77 42 FOR TABLE DRINK3 DRINK3 0 161 164.6 080702 57.71 92.53 60.98 103.92 98.10 39.4 133735 36.92 98.10 39.02	63 22 58 OF RESID DF 1 1 13, 9.4 1.42036 4.66 7.47, 86.67 2.35373 0.72 1.33 1.55 5.38	100.00 E BY DRINK VALUE 5.192 TOTAL 174 62.37 105 37.63 279 100.00 DE BY DRIN VALUE	PROB O. 02

RESIDE	DR INK4				KEZIDE	DRINKS			
FREQUENCY	I				FREQUENCY				
EXPECTED					EXPECTED				
CELL CHI2 PERCENT					CELL CHI2 PERCENT				
ROW PCT					ROW PCT				
COL PCT		! ! !	TOTAL		COL PCT	이	1	TOTAL	
1	120	54	174		1	154	20	174	
	112.3	61.7			1	147.2	26.8		
	.533927 43.01	.970776 19.35	62.37		1	.315759 55.20	7.17	62.37	
	68.97	31.03	62.37		ŧ	88.51	11.49	02.57	
	66.67	54.55			ŀ	65.25	46.51		
2	1 60	45	105		2			105	
2	60 67.7	37.3	105		² <u>}</u>	82 88.8	16.2	105	
	.884793	1.60871			ì		2.87183		
	21.51 57.14	16.13 42.86	37.63			29.39	8.24	37.63	
	33.33	45.45				78.10 34.75	21.90		
	÷	ii							
TOTAL	180	99	279		TOTAL	236	43	279 100.00	
	64.52	35.48	100.00			84.59	15.41	100.00	
STATISTICS	FOR TABL	E OF RESID	E BY DRINK	4	STATISTICS	FOR TABLE	OF RESID	BY DRINKS	;
STATISTIC		DF	VALUE	PROB	STATISTIC		DF	VALUE	PROB
CHI-SQUARE		1	3.998	0.046	CHI-SQUARE		1	5.444	0.020
		•	- · · · · ·		Jiii Jacant		•		5.520
FFV	DRINK6					0011			
SEX	DKINKE				SEX	DRINK7			
FREQUENCY	1				FREQUENCY	1			
EXPECTED CELL CH12					EXPECTED CELL CHI2				
PERCENT					PERCENT	1			
ROW PCT					RDW PCT	1			
COL PCT	0	1	TOTAL		COL PCT		1	TOTAL	
1	35	54	89		1	:	2	89	
	44.3	44.7				83.3	5.7		
	1.96761	1.95356	31.90				2.43856	31.90	
	39.33	60.67	31.50			31.18 97.75	0.72 2.25	31.90	
	25.18	38.57				33.33			
2	104	86	190				1 16	+ 190	
•	94.7	95.3	130		. 2	174	12.3	,50	
	.921672	.915088				.078778	1.14228		
	37.28	30.82	68.10			62.37	5.73	68.10	
	54.74 74.82	45.26 61.43				91.58	8.42		
	÷	+				- 🛊	+		
TOTAL	139 49.82	140 50.18	279 100.00		TOTAL	261 93.55	18 6.45	279 100.00	
						55.55	• • • •		
STATISTIC	S FOR TAB	LE OF SEX	BY DRINK6		STATISTIC	CS FOR TAB	LE OF SEX	BY DRINK7	
		25		PROB					2222
STATISTIC			VALUE		STATISTIC		DF	VALUE	PROB
CHI-SQUARE		1	5.758	0.016	CHI-SQUARE		1	3.828	0.050
SEX	DRINKB				SEX	DRINK9			
						. 1			
FREQUENCY EXPECTED					FREQUENCY EXPECTED	' [
CELL CHI2					CELL CHIZ				
PERCENT					PERCENT				
ROW PCT COL PCT		1	TOTAL		ROW PCT COL PCT		1	TOTAL	
	. •	·∔	÷			- 🕯	÷	÷	
1			89		1	81 0	8.0 4.47648 0.72 2.25	89	
	60.9 4.23939	9.20141				.440599	4.47648	1	
	27.60	4.30	31.90			31.18	0.72	31.90	
	86.52 40.31	13.48				97.75			
		· 	<u> </u>				÷	÷	
2	114		190		2			190	
	1 98582	59.9 4.31013	1			173.0	2.09688	1	
	40.86	27.24	68.10			59.86	8.24	68.10	
	60.00		1			87.89 65.75	92.00		
	59.69	-4	‡			-+	· i	+	
TOTAL		88	279		TOTAL	254			
	68.46	31.54	100.00			91.04	8.96	100.00	
STATISTI	CS FOR TAI	BLE OF SEX	BY DRINKS		STATISTI	CS FOR TAE	BLE OF SEX	BY DRINKS	
STATISTIC		DF	VALUE	PROB	STATISTIC			VALUE	PROB
CHI-SQUARE		1	19.737		CHI - SQUARE			7.220	0.007
ONI - BYOAKE		•	·-·· - ·						

RESIDE

DRINK5

DR I NK 4

RESIDE

						AGE	DRINK9			
	REQUENCY					FREQUENCY				
	XPECTED ELL CHI2					EXPECTED CELL CHI				
	PERCENT ROW PCT					PERCENT ROW PCT				
	COL PCT	0	1	TOTAL		COL PCT		1	TOTAL	
	1	70	19	89		1		25	•	
	1	78.5	10.5	03		'	196.6	19.4	216	
		.914883 25.09	6.82004	31.90			. 162058 68 . 46	1.64651 8.96	77.42	
	İ	78.65	21.35	31.30			88.43	11.57	17.42	
_		28.46	57.58				75.20	100.00	!	
	2	176	14	190		2		0	63	
	- 1	167.5	22.5				57.4 .555626	5.6 5.64516	1	
	İ	63.08	5.02	68.10			22.58	0.00	22.58	
		92.63 71.54	7.37				100.00 24.80	0.00		
			i				-,+			
11	OTAL.	246 88.17	33 11.83	279 100.00		TOTAL	254 91.04	25 8.96	279 100.00	
_			F 05 05"							
S	TATISTICS	FOR TABL	E OF SEX	BY DRINK10		STATISTIC	CS FOR TABL	E OF AGE	BY DRINKS	
TATISTIC			DF	VALUE	PROB	STATISTIC		DF		
									VALUE	PROE
HI-SQUAR	E		1	11.358	0.001	CHI-SQUARE		1	8.009	0.00
s	SEX	DRINK11				AGE	DRINK11			
	REQUENCY	ı				FREQUENCY	1			
E	EXPECTED					EXPECTED				
c	CELL CHIZ PERCENT					CELL CHI2 PERCENT	1			
	ROW PCT					ROW PCT	1			
	COL PCT	0	1	TOTAL		COL PCT		1	TOTAL	
_	1	47		89		1			216	
		36.4 3.10983	52.6				1.70251	127.7 1.17628		
		16.85	15.05	31.90			27 24	50 18	77.42	
		52.81 41.23	47.19 25.45				35 19 66 67	64.81 84.85		
		41.23 	-				44		•	
	2	67	123	190		2	25 7	25 37.3	63	
		77.6	1.00645				5.83717	4.03296		
		24.01	44 09	68.10				8.96	22.58	
				80.10			13.62		12.00	
		35.26	64.74	88.10			60 32 33.33	39.68 15.15		
;		35.26 58 77	64.74 74.55				60 32 33.33	39.68 15.15		
:	TOTAL	35.26 58 77	64.74 74.55			TOTAL	60 32 33.33	39.68 15.15		
		35.26 58.77 114 40.86	64.74 74.55 165 59.14	279 100.00		TOTAL	60 32 33.33 114 40.86	39.68 15.15 165 59.14	279 100.00	
		35.26 58.77 114 40.86	64.74 74.55 165 59.14	279		TOTAL	60 32 33.33 114 40.86	39.68 15.15 165 59.14	279	
	STATISTIC	35.26 58.77 114 40.86	64.74 74.55 165 59.14	279 100.00 BY DRINK1	1	TOTAL	60 32 33.33 114 40.86	39.68 15.15 165 59.14	279 100.00 BY DRINK11	
STATISTI	STATISTIC	35.26 58.77 114 40.86	64.74 74.55 165 59.14 SLE OF SEX	279 100.00 By DRINK1	1 PROB	TOTAL STATISTIC STATISTIC	60 32 33 33 114 40 86	39.68 15.15 165 59.14 E OF AGE	279 100.00 BY DRINK11	PROB
STATISTI	STATISTIC	35.26 58.77 114 40.86	64.74 74.55 165 59.14 SLE OF SEX	279 100.00 BY DRINK1	1 PROB	TOTAL STATISTIC STATISTIC	60 32 33 33 114 40 86	39.68 15.15 165 59.14 E OF AGE	279 100.00 BY DRINK11	PROB
STATISTI	STATISTIC	35.26 58.77 114 40.86	64.74 74.55 165 59.14 SLE OF SEX	279 100.00 By DRINK1	1 PROB	TOTAL STATISTIC STATISTIC	60 32 33 33 114 40.86	39.68 15.15 165 59.14 E OF AGE	279 100.00 BY DRINK11	PROB
STATISTI	STATISTIC	35.26 58.77 114 40.86	64.74 74.55 165 59.14 SLE OF SEX	279 100.00 By DRINK1	1 PROB	STATISTIC STATISTIC CHI-SQUARE GROUP	60 32 33 33 114 40 86 CS FOR TABL	39.68 15.15 165 59.14 E OF AGE	279 100.00 BY DRINK11	PROE
STATISTI STATISTI	STATISTIC	35.26 58.77 114 40.86	165 59.14	279 100.00 By DRINK1	1 PROB	STATISTIC STATISTIC CHI-SOHARE GROUP FREQUENCY EXPECTED	114 40.86	39.68 15.15 165 59.14 E OF AGE	279 100.00 BY DRINK11	PROB
STATISTI CHI-SQUA	STATISTIC C RE	35 26 58 77 114 40 86 S FOR TAE	165 59.14	279 100.00 By DRINK1	1 PROB	STATISTIC STATISTIC CHI-SQUARE GROUP FREQUENCY EXPECTED CELL CHI2	114 40.86	39.68 15.15 165 59.14 E OF AGE	279 100.00 BY DRINK11	PROE
STATISTI CHI-SQUA	STATISTIC C RE RESIDE FREQUENCY EXPECTED	35.26 58.77 114 40.86 S FOR TAB	165 59.14	279 100.00 By DRINK1	1 PROB	STATISTIC STATISTIC CHI-SQUARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT	114 40.86	39.68 15.15 165 59.14 E OF AGE DF	279 100.00 BY DRINK11 VALUE	PROB
STATISTI CHI-SQUA	STATISTIC C RE RESIDE FREQUENCY	35.26 58.77 114 40.86 S FOR TAB	165 59.14	279 100.00 By DRINK1	1 PROB	STATISTIC STATISTIC CH1-SOHARE GROUP FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	114 40.86	39.68 15.15 59.14 E OF AGE DF	279 100.00 BY DRINK11	PROB
STATISTI CHI-SQUA	STATISTIC C RESIDE FREQUENCY EXPECTED PERCENT ROW PCT	35.26 58.77 114 40.86 S FOR TAB	04 .74 .55 .165 .59 .14	279 100.00 BY DRINK1 VALUE 7.722	1 PROB	STATISTIC STATISTIC CH1-SOHARE GROUP FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	60 32 33 33 33 114 40 86	39.68 15.15 59.14 E OF AGE DF	279 100.00 BY DRINK11 VALUE	PROB
STATISTI CHI-SQUA	STATISTIC C	35.26 58.77 114 40.86 S FOR TAB	04 .74 .55 .165 .59 .14	279 100.00 BY DRINK1 VALUE 7.722	1 PROB	STATISTIC STATISTIC CHI-SOHARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	114 40.86 S FOR TABL	39.68 15.15 165 59.14 E OF AGE DF 1	279 100.00 BY DRINK11 VALUE 12 749	PROE
STATISTI CHI-SQUA	STATISTIC C RE RESIDE FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	35.26 58.77 114 40.86 S FOR TAE	064.74.55 59.14 0F SEX	279 100.00 BY DRINK1 VALUE 7.722	1 PROB	STATISTIC STATISTIC CHI-SOHARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	INFL2 78 71.2 6441911 28.47	39.68 15.15 59.14 E OF AGE DF 1 1 10.8 4.25882 1.46	279 100.00 BY DRINK11 VALUE 12 749	PROE
STATISTI CHI-SQUA	STATISTIC C RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	35.26 58.77 114 40.86 S FOR TAE DRINK11	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	279 100.00 BY DRINK1 VALUE 7.722	1 PROB	STATISTIC STATISTIC CHI-SOHARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	INFL2 78 71.2 644191 28.47 95.12	39.68 15.15 165 59.14 E OF AGE DF 1	279 100.00 BY DRINK11 VALUE 12 7-19	PROE
STATISTI CHI-SQUA	STATISTIC C RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	35.26 58.77 114 40.86 S FOR TAB DRINK11	0	279 100.00 BY DRINK1 VALUE 7.722	1 PROB	STATISTIC STATISTIC CHI-SOHARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	INFL2 78 71.2 6441914 28.47 29.47 32.77	39.68 15.15 59.14 E OF AGE DF 1 1 10.8 4.25882 1.46	279 100.00 BY DRINK11 VALUE 12 7-19	PROE
STATISTI CHI-SQUA	STATISTIC C RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	35.26 58.77 114 40.86 S FOR TAE DRINK11	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	279 100.00 BY DRINK1 VALUE 7.722	1 PROB	STATISTIC STATISTIC CH1-SOHARE GROUP FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT FNIA	114 40.86 S FOR TABL INFL2 OI 78 71.2 6441914 28.47 95.12 32.77	39.68 15.15 59.14 E OF AGE DF 1 1.0.8 4.25882 1.46 4.88 11.11 32	279 100.00 BY DRINK11 VALUE 12 7-19	PROE
STATISTI CHI-SQUA	STATISTIC C RESIDE FREQUENCY EXPECTED GELL CH12 PERCENT ROW PCT COL PCT	35.26 58.77 114 40.86 S FOR TAB DRINK11 71.1 878535 28.32 45.40 69.30	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	279 100.00 BY DRINK1 VALUE 7.722	1 PROB	STATISTIC STATISTIC CHI-SOHARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT FNIA	114 40.86 S FOR TABL INFL2 INFL2 0 78 71.2 6441914 28.47 95.12 32.77 160 166.8 275123	39.68 15.15 165 59.14 E OF AGE DF 1	279 100.00 BY DRINK11 VALUE 12 749 TOTAL 82 29.93	PROE
STATISTI CHI-SQUA	STATISTIC C RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	35.26 58.77 114 40.86 S FOR TAE DRINK11 79 71.1 878535 28.32 45.40 69.30	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	279 100.00 BY DRINK1 VALUE 7.722	1 PROB	STATISTIC STATISTIC CHI-SOHARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT FNIA	INFL2 78 71.2 644191 28.47 95.12 166 8 275123 58.39	39.68 15.15 59.14 E OF AGE DF 1 1.44 4.25882 1.46 4.88 11.13 25.2 1.81887 11.68	279 100.00 BY DRINK11 VALUE 12 749 TOTAL 82 29.93	PROE
STATISTI CHI-SQUA	STATISTIC C RESIDE FREQUENCY EXPECTED GELL CH12 PERCENT ROW PCT COL PCT	35.26 58.77 114 40.86 S FOR TAE DRINK11 79 71.1 878535 28.32 45.40 69.30	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	279 100.00 BY DRINK1 VALUE 7.722	1 PROB	STATISTIC STATISTIC CHI-SOHARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT FNIA	114 40.86 S FOR TABL INFL2 INFL2 0 78 71.2 6441914 28.47 95.12 32.77 160 166.8 275123	39.68 15.15 59.14 E OF AGE DF 1 10.8 4.25882 1.46 4.88 11.11 32 25.2 1.81887 11.68 16.67	279 100.00 BY DRINK11 VALUE 12 749 TOTAL 82 29.93	PROE
STATISTI CHI-SQUA	STATISTIC C RESIDE FREQUENCY EXPECTED GELL CH12 PERCENT ROW PCT COL PCT	35.26 58.77 114 40.86 S FOR TAE DRINK11 1.878535 28.32 45.40 69.30 31.45586 12.54	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	279 100.00 BY DRINK1 VALUE 7.722	1 PROB	STATISTIC STATISTIC CHI-SQUARE GROUP FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	INFL2 78 71.2 644191 28.47 29.57 160 166.8 275123 83.33 67.23	39.68 15.15 59.14 E OF AGE DF 1 1.0.8 4.25882 1.46 4.88 11.11 32 25.2 1.868.89	279 100.00 BY DRINK11 VALUE 12 7-19 TOTAL 82 29.93 192 70.07	PROB
STATISTI CHI-SQUA	STATISTIC C RESIDE FREQUENCY EXPECTED GELL CH12 PERCENT ROW PCT COL PCT	35.26 58.77 114 40.86 S FOR TAE DRINK11 79 71.1 878535 28.32 45.40 69.30	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	279 100.00 BY DRINK1 VALUE 7.722	1 PROB	STATISTIC STATISTIC CHI-SOHARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENI ROW PCT COL PCT FNIA	INFL2 Tolerate of the control of th	39.68 15.15 59.14 E OF AGE DF 1 10.8 4.2582 1.46 4.88 11.11 32 25.2 1.46 4.88 11.11 31.8 11.11 32.8 11.16 8.89	279 100.00 BY DRINK11 VALUE 12 7-49 TOTAL 82 29.93 192 70.07	PROE
STATISTI CHI-SOUA	STATISTIC C RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1	35.26 58.77 114 40.86 S FOR TAE DRINK11 79 71.1 87853 28.32 45.40 69.30 42.9 1.45586 12.54 33.3 30.70	04 74 55 59 14 165 59 14 165 59 14 165 59 14 165 59 14 16 16 16 16 16 16 16 16 16 16 16 16 16	279 100.00 BY DRINK1 VALUE 7.722 1054 105 37.63	1 PROB	STATISTIC STATISTIC CHI-SQUARE GROUP FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT	INFL2 78 71.2 644191 28.47 29.57 160 166.8 275123 83.33 67.23	39.68 15.15 59.14 E OF AGE DF 1 1.0.8 4.25882 1.46 4.88 11.11 32 25.2 1.868.89	279 100.00 BY DRINK11 VALUE 12 7-19 TOTAL 82 29.93 192 70.07	PROB
STATISTI CHI-SOUA	STATISTIC C RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1	35.26 58.77 114 40.86 S FOR TAB DRINK11 1.878535 245.40 69.30 1.45586 12.54 33.33 30.70	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	279 100.00 BY DRINK1 VALUE 7.722	1 PROB	STATISTIC STATISTIC CHI-SOHARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT FNIA NUTR	INFL2 Tolerate of the control of th	39.68 15.15 165 59.14 E OF AGE DF 1 1 10.8 4.25682 1.46 4.88 11.11 225.2 1.81887 11.68 16.67 88.89	279 100.00 BY DRINK11 VALUE 12 7-49 TOTAL 82 29.93 192 70.07	PROB
STATISTI CHI-SQUA	STATISTIC C RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1	35.26 58.77 114 40.86 S FOR TAB DRINK11 79.71.1 .8785.35 45.40 69.30 1.45586 12.54 33.73	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	279 100.00 BY DRINK1 VALUE 7.722 1074 62.37 105 37.63	1 PROB	STATISTIC STATISTIC CHI-SOHARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT FNIA NUTR	TNFL2 TREAT TO CO TREAT TR	39.68 15.15 165 59.14 E OF AGE DF 1 1 10.8 4.25682 1.46 4.88 11.11 225.2 1.81887 11.68 16.67 88.89	279 100.00 BY DRINK11 VALUE 12 7-49 TOTAL 82 29.93 192 70.07	PROE
STATISTI THI-SOUA	STATISTIC C RESIDE RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1 2	35. 26 58 77 114 40. 86 S FOR TAE DRINK11 79 71. 1 878535 28. 32 45. 40 69. 30 42. 9 1. 45586 12. 54 33. 30. 70	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	279 100.00 BY DRINK1 VALUE 7.722 1074 62.37 105 37.63	1 PROB 0.005	STATISTIC STATISTIC CHI-SOHARE GROUP FREOUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT FNIA NUTR	114 40.86 S FOR TABL INFL2 OO 78 78 71.2 644191 28.47 95.12 32.77 160 166.8 275123 83.33 67.23 238 86.86	39.68 15.15 59.14 E OF AGE DF 1 1.4 4.25882 1.46 4.88 11.11 32 25.2 1.81887 11.68 16.67 88.89 36 13.14	279 100.00 BY DRINK11 VALUE 12 749 TOTAL 82 29.93 192 70.07	PROB
STATISTI CHI-SOUA	STATISTIC C RESIDE RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1 2	35. 26 58 77 114 40. 86 S FOR TAE DRINK11 79 71. 1 878535 28. 32 45. 40 69. 30 42. 9 1. 45586 12. 54 33. 30. 70	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	279 100.00 BY DRINK1 VALUE 7.722 1001AL 174 62.37 105 37.63	1 PROB 0.005	STATISTIC STATISTIC CHI-SOHARE GROUP FREOUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT FNIA NUTR	TNFL2 TN	39.68 15.15 59.14 E OF AGE DF 1 1.4 4.25882 1.46 4.88 11.11 32 25.2 1.81887 11.68 16.67 88.89 36 13.14	279 100.00 BY DRINK11 VALUE 12 7-49 TOTAL 82 29.93 192 70.07	PROB
STATISTI CHI-SQUA	STATISTIC C RESIDE FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT 1 2 TOTAL ATISTICS C	35. 26 58 77 114 40. 86 S FOR TAE DRINK11 79 71. 1 878535 28. 32 45. 40 69. 30 42. 9 1. 45586 12. 54 33. 30. 70	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	279 100.00 BY DRINK1 VALUE 7.722 1001AL 174 62.37 105 37.63	1 PROB 0.005	STATISTIC STATISTIC CHI-SOHARE GROUP FREOUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL PCT FNIA NUTR	114 40.86 S FOR TABL INFL2 O 78 71.2 644191 28.47 95.12 32.77 160 166.8 .275123 58.39 83.33 67.23 238 86.86 MISSING =	39.68 15.15 59.14 E OF AGE DF 1 1,0.8 4.2582 1.46 4.88 11.11 32 25.2 1.46 4.88 11.11 31.88 16.67 88.89 36 13.14	279 100.00 BY DRINK11 VALUE 12 7-19 TOTAL 82 29.93 192 70.07 274 100.00	PROB

AGE

DRINK9

DRINK 10

SEX

FREQUENC EXPECTED					GROUP	PURCH2			
CELL CHI PERCENT									
ROW PCT	.				FREQUENCY EXPECTED				
COL PCT		0	1 TOTAL		CELL CHI2 PERCENT	i			
FNIA	59				ROW PCT		_		
	65.5 652631				COL PCT		1	TOTAL	
	21.53	8.39	29.93		FNIA	49		83	
	71.95 26.94		1			37.8			
NUTR	160					17.56 59.04	12.19	29.75	
	153.5	38.5				38.58	40.96 22.37		
	278728 58.39		70.07		NUTR	78	118	+ 196	
	83.33 73.06					89.2	106.8	150	
		-+	- i			1.41067 27.96	1.17865 42.29	70.25	
TOTAL	219 79.93		274 100.00			39.80 61.42	60.20 77.63		
					TOTAL	+	i	•	
FREQUENC	Y MISSING	· • 5			TOTAL	127 45.52	152 54.48	279 100.00	
STATISTI	CS FOR TA	BLE OF GRO	DUP BY INFLB		STATISTICS	FOR TABLE	OF GROUP	BY PURCH2	
STATISTIC		DF	VALUE	PROB.	STATISTIC		DF	VALUE	ppo
							·	VALUE	PROE
HI-SQUARE		1	4.640	0.031	CHI-SQUARE		1	B.704	0.00
GROUP	CONSUME 1				GROUP	MOOD 1			
FREQUENCY	I				FREQUENCY				
EXPECTED					EXPECTED	1			
CELL CHI2 PERCENI					CELL CHI2 PERCFNI				
ROW PCT	01	1 1	TOTAL		ROW PCT COL PCT	_	1	TOTAL	
	i					•	•	•	
FNIA	53 59.8	23.2	83		FNIA	40 27.1	55.9	83	
	.772322 19 00	1.99021	29.75			6.17403	2.98849		
	63.86	36.14				48.19	15.41 51.81	29.75	
	:	 				43.96	• ·	<u> </u>	
NUTR	148	48 54.8	196		NUTR	51 63.9	145 132 . 1	196	
	327055	.842795	70.05			2.61451	1.26554		
	53 05 75 51	17.20 24.49	70.25			18.28	51.97 73.98	70.25	
	73.63	61.54				56.04			
	4						188	279	
TOTAL	201 72.04	78 27.96	279 100.00		TOTAL	91 32.62	67.38	100.00	
TOTAL	72.04	27.96	100.00			32.62	67.38		
TOTAL	72.04	27.96				32.62	67.38	100.00 JP BY MOOD1	
TOTAL STATISTICS ATISTIC	72.04	27.96 OF GROUP	100.00	PROB	STATISTIC STATISTIC	32.62 S FOR TAB	67.38 LE DF GROU		
TOTAL STATISTICS ATISTIC	72.04	27.96 OF GROUP	100.00 BY CONSUME1 VALUE	PROB	STATISTIC	32.62 S FOR TAB	67.38 LE DF GROU	JP BY MOOD1	PRO
TOTAL STATISTICS ATISTIC	72.04	27.96 OF GROUP	BY CONSUME1	PROB	STATISTIC STATISTIC CHI-SQUARE	32.62 S FOR TAB	67.38 LE DF GROU	JP BY MOOD1	PRO
TOTAL STATISTICS ATISTIC II-SOUARE GROUP	72.04 FOR TABLE	27.96 OF GROUP	BY CONSUME1	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUENCY	32.62 S FOR TAB DRINKS	67.38 LE DF GROU	JP BY MOOD1	PRO
TOTAL STATISTICS ATISTIC GROUP FREQUENCY EXPECTED	72.04 FOR TABLE TYPES8	27.96 OF GROUP	BY CONSUME1	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP	32.62 S FOR TAB DRINKS	67.38 LE DF GROU	JP BY MOOD1	PRO
TOTAL STATISTICS ATISTIC GROUP FREQUENCY EXPECTED CELL CHIZ PERCENT	72.04 FOR TABLE TYPES8	27.96 OF GROUP	BY CONSUME1	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUIENCY EXPECTED CELL CHIZ PERCENT	32.62 S FOR TAB DRINKS	67.38 LE DF GROU	JP BY MOOD1	PRO
TOTAL STATISTIC ATISTIC GROUP FREQUENCY EXPECTED CELL CHIZ PERCENI ROW PCT	72.04 FOR TABLE TYPES8	27.96 OF GROUP DF	100.00 BY CONSUME 1 VALUE 8.932	PROB	STATISTIC CHI-SOUARE GROUP FREQUENCY EXPECTED CELL CHI2	32.62 S FOR TAB DRINK5	67.38 LE OF GROU DF	JP BY MOOD1	PRO
TOTAL STATISTICS ATISTIC I-SOUARE GROUP FREQUENCY EXPECTED CELL CHI PERCENI ROW PCT COL PCT	72.04 FOR TABLE TYPES8	27.96 OF GROUP 1	BY CONSUME 1 VALUE 8.932	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL. PCT	32.62 S FOR TAB DRINKS	67.38 LE DF GROU DF 1	UP BY MOOD 1 VALUE 13.043	PRO
TOTAL STATISTICS ATISTIC GROUP FREQUENCY EXPECTED CELL CHIL PERCENTI ROW PCT COL PCT	72.04 FOR TABLE TYPES8 C 57 64.3	27.96 OF GROUP DF 1	BY CONSUME 1 VALUE 8.932	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENI ROW PCT COL. PCT	32.62 S FOR TAB DRINKS 00 63 1 70.2	67.38 LE DF GROU DF 1 1 10 120 12.8	VALUE	PRO
TOTAL STATISTICS ATISTIC GROUP FREQUENCY EXPECTED CELL CHI PERCENT ROW PCT COL PCT	72.04 FOR TABLE TYPES8 C 57 64.3	27.96 OF GROUP DF 1 26 18.7 2.81078	TOTAL	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL. PCT	32.62 S FOR TAB DRINKS 00 63 1 70.2	67.38 LE DF GROU DF 1 1 120 12.8 4.06138	VALUE 13.043 TOTAL 83	PRO
TOTAL STATISTICS ATISTIC I-SOUARE GROUP FREQUENCY EXPECTED CELL CHI PERCENI ROW PCT COL PCT	72.04 FOR TABLE TYPES8 (27.96 OF GROUP DF 1 26 18.7 2.81078 9.32 31.33	BY CONSUME 1 VALUE 8.932	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUENCY EXPECTED CELL CH12 PERCENT ROW PCT COL. PCT	32.62 S FOR TAB DRINK5 00 63 70.2 739997 22.58	07.38 DF 1 10 12.8 4.06138 7.17 24.10	UP BY MOOD 1 VALUE 13.043	PRO
TOTAL STATISTIC ATISTIC I-SQUARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT FNIA	72.04 FOR TABLE TYPES8 (27.96 OF GROUP DF 1 26 18.7 2.81078 9.32 31.33 41.27	VALUE 8.932 TOTAL 8.93	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENI ROW PCT COL. PCT FNIA	32.62 S FOR TAB DRINKS 00 63 70.2 73.997 22.58 75.90 26.69	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VALUE 13.043 TOTAL 83 29.75	PRO
TOTAL STATISTICS ATISTIC GROUP FREQUENCY EXPECTED CELL CHI PERCENT ROW PCT COL PCT	72.04 FOR TABLE TYPES8 C C C C C C C C C C C C C	27.96 OF GROUP DF 1 26 18.7 2.81078 9.32 31.33 41.27 44.4.3	TOTAL	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUIENCY EXPECTED CELL CHIZ PERCENT ROW PCT COL. PCT FNIA	32.62 S FOR TAB DRINK5 00 63 70.2 70.22.58 75.90 26.69	07.38 LE OF GROU DF 1 1 20 12.8 4.06138 7.17 24.10 46.51	VALUE 13.043 TOTAL 83 29.75	PRO
TOTAL STATISTIC ATISTIC II-SQUARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENTI ROW PCT COL PCT FNIA	72.04 FOR TABLE TYPES8 6 57 64.3 819812 20.43 68.67 26.39 159.7 159.7 347165	27.96 OF GROUP DF 1 26 18.7 2.81078 9.32 31.33 41.27 44.3 1.19028	100.00 BY CONSUME1 VALUE 3.932 TOTAL 83 29.75	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENI ROW PCT COL. PCT FNIA	32.62 S FOR TAB DRINK5 00 63 70.2 739997 22.58 75.90 26.69 173 165.8	07.38 LE OF GROU DF 1 20 12.8 4.06138 7.17 24.10 46.51 30.2 1.71987	VALUE 13.043 TOTAL 83 29.75	PRO
TOTAL STATISTIC ATISTIC I-SQUARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT FNIA	72.04 FOR TABLE TYPES8 (27.96 OF GROUP DF 1 26 18.7 2.81078 9.32 31.33 41.27 44.3 1.19028 13.26 18.88	100.00 BY CONSUME 1 VALUE 8.932 TOTAL 83 29.75 196 70.25	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENI ROW PCT COL. PCT FNIA	32.62 S FOR TAB DRINKS 00 63.70.2 739997 22.58 75.90 26.69 173.165.8 165.8 131366 62.01 88.27	07.38 LE OF GROU DF 1 20 12.8 4.06138 7.17 24.10 46.51 30.2 1.71987 8.24 11.73	VALUE 13.043 TOTAL 83 29.75	PRO
TOTAL STATISTIC I-SOUARE GROUP FREQUENCY EXPECTED CELL CHIL PERCENI ROW PCT COL PCT FNIA	72.04 FOR TABLE TYPES8 7 64.3 819812 20.43 68.67 26.39 1517 347165 56.99	27.96 OF GROUP DF 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL 29.75 196 70.25	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENI ROW PCT COL. PCT FNIA	32.62 S FOR TAB DRINKS 00 63.1 70.2 73.9997 22.58 75.90 26.69 173 165.8 3.313366 62.01 88.27 73.31	07.38 LE OF GROU DF 1 1 12.8 4.06138 7.17 24.10 46.51 30.2 1.71987 8.24 11.73 53.49	VALUE 13.043 TOTAL 83 29.75	PRO
TOTAL STATISTIC ATISTIC II-SOUARE GROUP FREQUENCY EXPECTED CELL CHIZ PERCENI ROW PCT COL PCT FNIA	72.04 FOR TABLE TYPES8 (27.96 OF GROUP DF 1 26 18.7 2.81078 9.32 31.33 41.27 44.3 1.19028 13.26 18.88 58.73	TOTAL 29.75 196 70.25	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUIENCY EXPECTED CELL CHIZ PERCENT ROW PCT COL. PCT FNIA	32.62 S FOR TAB DRINKS 00 63.1 70.2 73.9997 22.58 75.90 26.69 173 165.8 3.313366 62.01 88.27 73.31	07.38 LE OF GROU DF 1 20 12.8 4.06138 7.17 24.10 46.51 30.2 1.71987 8.24 11.73	VALUE 13.043 TOTAL 83 29.75	PRO
TOTAL STATISTICS ATISTIC I-SOUARE GROUP FREQUENCY EXPECTED CELL CHIZ PERCENI ROW PCT COL PCT COL PCT TOTAL	72.04 FOR TABLE TYPES8 7 64.3 819812 20.43 68.67 26.39 151.7 347165 56.99 81.12 73.47167	27.96 OF GROUP DF 1 26 18.7 2.81078 9.32 31.33 41.27 44.3 1.19028 13.26 18.88 58.73 63 22.58	TOTAL TOTAL	PROB	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL. PCT FNIA	32.62 S FOR TAB DRINKS 00 70.2 739997 722.58 75.90 173.131366 62.01 88.27 73.31	07.38 LE OF GROU DF 1 1 20 12.8 4.06138 7.17 24.10 46.51 23 30.2 1.71987 8.24 11.73 53.49 15.41	VALUE 13.043 TOTAL 83 29.75 196 70.25	PRO 0.0
TOTAL STATISTICS ATISTIC II-SOUARE GROUP FREQUENCY EXPECTED CELL CHIL PERCENI ROW PCT COL PCT COL PCT FNIA NUTR	72.04 FOR TABLE TYPES8 7 64.3 819812 20.43 68.67 26.39 151.7 347165 56.99 81.12 73.47167	27.96 OF GROUP DF 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL 196 70.25 279 100.00 P BY TYPES8	PROB	STATISTIC STATISTIC CHI-SQUARE GROUP FREQUENCY EXPECTED CELL CHIZ PERCENT ROW PCT COL. PCT FNIA NUTR TOTAL	32.62 S FOR TAB DRINKS 00 70.2 739997 722.58 75.90 173.131366 62.01 88.27 73.31	07.38 LE OF GROUP 1 1 1 20 12.8 4.06138 7.17 24.10 46.51 30.2 1.71987 8.24 11.73 53.49 15.41	VALUE 13.043 TOTAL 83 29.75 196 70.25 279 100.00	PRO6
TOTAL STATISTICS ATISTIC GROUP FREQUENCY EXPECTED CELL CHII PROCENT ROW PCT COL PCT COL PCT TOTAL	72.04 FOR TABLE TYPES8 7 64.3 819812 20.43 68.67 26.39 151.7 347165 56.99 81.12 73.61	27.96 OF GROUP DF 1 1 1 1 1 1 1 1 1 1 1 1 1	100.00 BY CONSUME1 VALUE 8.932 10TAL 83 29.75 196 70.25	PROB O.047	STATISTIC STATISTIC CHI-SOUARE GROUP FREQUENCY EXPECTED CELL CHI2 PERCENI ROW PCT COL. PCT FNIA NUTR	32.62 S FOR TAB DRINKS 00 63 70.2 73.9997 22.58 75.90 165.8 313366 62.01 88.27 73.31 236 84.59	07.38 LE OF GROUP 1 1 20 12.8 4.06138 7.17 24.10 46.51	VALUE 13.043 TOTAL 83 29.75 196 70.25	PRO6

GROUP

INFLB

GROUP	DRINKA		
FREQUENCY EXPECTED CELL CHI? PERCENT ROW PCT COL PCT	o] 1	TOTAL
FNIA	65	18	83
	56.8	26.2	
	1.17738	2.55544	
	23.30	6.45	29.75
	78.31	21.69	
	34.03	20.45	Į.
NUTR	126	70	196
	134.2	61.8	,,,,
	.498583	1.08215	
	45.16	25.09	70.25
	64.29	35.71	
	65.97	79.55	
TOTAL	+	+	
TOTAL	191 68.46	88 31.54	279
	60.46	31.54	100.00

GROUP	DRINK 10		
FREQUENCY EXPECTED CELL CHI2 PERCENT ROW PCT COL PCT	0	I 1	TOTAL
5111A			
FNIA	68 73.2	15 9.8	83
	.367045	2.73615	
	24.37	5.38	29.75
	81.93	18.07	
	27.64	45.45	
NUTR	1 178	18	196
HOTK	172.8	23.2	
	. 155432	1.15868	
	63.80	6.45	70.25
	90.82	9.18	
	72.36	54.55	
TOTAL	246	33	279
	88.17	11.83	100.00

STATISTICS FOR TABLE OF GROUP BY DRINKS

	STATISTICS	FOR	TABLE	OF	GROUP	ΒY	DRINK 10
--	------------	-----	-------	----	-------	----	----------

STATISTIC	DF	VALUE	PROB	STATIST
CHI - SQUARE	1	5.314	0.021	CHI - SQUA

STATISTIC	DF	VALUE	PROB
		· • • • • • • • • • • • • • •	
CHI - SQUARE	1	4.417	0.036

APPENDIX C

NUTRITION KNOWLEDGE STATEMENTS

PERCENTAGE DISTRIBUTION OF THE SAMPLE ACCORDING TO NUTRITION KNOWLEDGE STATEMENTS

Statements	Percentage		
	experimental group	contro group	
I try to avoid snacks high in sodium.	41.33	39.02	
Consuming highly salted snacks contributes to hypertension.	39.80	30.86	
I consume snacks high in simple carbohydrate.	35.71	28.75	
I try to avoid snacks high in sugar.	44.90	39.02	
I consume too many sugary snacks.	57.14	49.36	
I try to avoid snacks high in cholesterol	. 41.33	47.56	
I try to avoid snacks high in fat.	48.47	48.78	
I try to avoid processed snacks.	21.94	21.95	
I avoid snack foods containing additives and preservatives.	14.06	17.50	
I prepare my own snack foods.	30.61	36.25	
I consume snack foods that are enriched or whole-grain breads and cereals.	35.38	37.80	
The vitamin and mineral content of snack foods influences my selection.	24.62	29.63	
I eat a variety of foods for both meals and snacks.	70.92	74.07	
I try to avoid empty calorie snack foods.	36.22	30.00	
I consume snack foods high in valuble nutrients.	36.98	34.57	
The calories in "natural" snacks such as granola bars or dried fruits aren't nearly as fattening as			
calories in "junk-food" snacks.	37.24	32.10	

Appendix C (cont.)

Statements Percentage experimental control group group The consumer should always consume fortified snacks. 35.71 35.80 The nutritional content of the snack food is important to me. 48.47 50.62 I am interested in increasing my 83.16 nutrition knowledge. 64.20 The price of a snack food determines if I purchase it. 65.82 53.09 Reading nutrient information on the labels of snack foods will help the consumer make a wise choice since the manufacturer must, by 70.92 59.26 law, print the facts. The brand or name of the snack product is important to me. 39.80 40.00 My snack food purchases represent my impulse buying practices. 50.51 40.74 I purchase more snack foods for my family/roommate than I do for myself. 13.78 11.25 My family/roommate influences my choice of snack foods. 38.46 30.86 My consumption of snack food is related 54.08 to my stress situation. 37.04

VITA

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