

Effect of Socio Economic Factors on Food and Nutrient Consumption of Rural Women

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Women invariably perform the duties of both employees and the housewives. This dual role entails heavy mental and physical effort which often leads to complete exhaustion of women due to over work. .But very often are overlooked in the family and instead they are viewed as economic burdens. . Good health is a requirement throughout life and vital to women in terms of their daily activities, but nutritional deficiency is a major problem for women in India. To overcome these problems daily diet of the women should be nutritious. But health is a crucial area where no due attention has been paid for women. The study was carried out in Jagatsinghpur district of Odisha. This research consist sample of three hundred rura women 150 each from farm and non farm women catagory. The respondents were interviewed personally. In the present study is about effects of socioeconomic factors like age,education,occupation,income, family size on, daily food intake and nutrient intake of the respondents were calculated. Results of this study reveals that except income no other variable has any significant effect on consumption pattern of rural women in both the groups.

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I. INTRODUCTION

Despite India's considerable social and economic progress over the decades, malnutrition continues to be of the country. The World, Bank reported that India had 20% of world population, out of which 40% are malnourished.As per the estimates of National Family Health Survey Orissa lies far behind the National average in terms of many important aspects of nutrition. According to NFHS-II the percentage of underweight women (BMI<18.1) is 48% and it is 41 percent as per the report of NFHS-III. The problem is more acute in case of women staying in rural area. In surveys done by National Nutrition Monitoring Board in 2005, it was found that inadequate intake of food and nutrients are the major etiological factors for most of the nutritional problems in the country. The prevalence of undernutrition was about 33% and 36% among adult men and women respectively.

Poor nutrition of women is one of the most damaging outcome of gender inequality. It undermines their health, stunts their opportunity for education and employment and impedes progress towards gender equality and empowerment of women. In rural India in agriculture and allied activities as much as 59.5% of total labour force are women. Women have extensive workloads with dual responsibility for farm and household production. Women's contribution to agriculture wether it be subsistence farming or commercial agriculture when measured in terms of numbers of tasks performed and time spent is greater than men.Women's work is getting harder and more time consuming due to ecological degradation and changing agricultural technology and practices. Women contribute considerably (84%) to household income through farm and non farm activities as well as through work as landless agricultural labourers. They are subjected to different health stresses from economic domestic and agricultural works. However, it is not clear that what are those factors and by what mechanism these result in differences in nutritional status. The present study set out to asses to identify the social, economic, environmental factors that affect the food consumption and nutrient intake of farm women.

II. METHODOLOGY

Jagatsinghpur district of orissa is selected purposively. Stratified two stage random sampling method will be adopted for the selection of the sample respondents of the rural areas of Jagatsinghpur district. Out of eight blocks of Jagatsinghpur district three blocks are to be selected randomly. In the second stage 100 women from each block out of which 50 Nos from farm sector and 50 Nos. from non farm sector are to be selected randomly. All total 300 women are to be selected for this study. Dietary investigation of the subject was conducted by 24 hour recall method. The consumed food was listed under different food groups like cereals, pulses, vegetables, fruits meat & fish, nuts & oil seeds, sugar and Jaggery. The nutrient intake was calculated

using food consumption tables of ICMR. The results was interpreted through frequency distribution, mean, median, range and mean+ SO for socio economic variables of dietary intake (food groups and various nutrients) Statistical Analysis was also be performed by paired 't' test and P<0.05 and 0.01 will be considered to be statistically important.

III.DISCUSSION

The nutritional status of any individual is directly affected by his/her food intake. Man needs a wide range of nutrients to lead a healthy and active life and these are derived through the diet they consume daily. The components of diet should be chosen judiciously so that it provides all the nutrients in adequate amount and in proper proportions (ICMR, 2000). The daily intake of food by the sample women was studied by using 24 hours recall method for average of three days to find out, their dietary intake with respect to various socio economic variables and is presented and analysed in the following Tables. The food intake was calculated and expressed in percentage to a balanced diet (NIN, 1998) recommended for moderate worker women. The amount of each nutrient that is required by a human being depends upon his age and physiological status. Low intake of nutrients makes a significant contribution to poor nutritional status. Daily intake of various nutrients by each subject was calculated using food composition table (ICMR, 2000).

Table-1.2.3: Mean, SD and F-tests on Dietary Intakes of Farm and Non-Farm Women of Different Age Groups.

| Food Stuffs | Age Groups | Farm Women | | | | Non-Farm Women | | | |
|------------------------|------------|------------|---------------------|-------|---------------------|----------------|--------|-------|---------------------|
| | | N | Mean | S.D. | F | N | Mean | S.D. | F |
| Cereals | Below 25 | 50 | 469.70 | 16.67 | 0.200 ^{NS} | 37 | 391.22 | 35.77 | 1.109 ^{NS} |
| | 25-35 | 52 | 467.50 | 18.43 | | 60 | 402.08 | 35.69 | |
| | 35-45 | 32 | 468.59 | 15.15 | | 35 | 392.71 | 39.23 | |
| | Above 45 | 16 | 466.88 | 11.67 | | 18 | 405.56 | 43.48 | |
| | Total | 150 | 468.40 | 16.44 | | 150 | 397.63 | 37.58 | |
| Pulses | Below 25 | 50 | 22.62 | 3.60 | 0.858 ^{NS} | 37 | 30.95 | 5.12 | 1.759 ^{NS} |
| | 25-35 | 52 | 23.15 | 3.90 | | 60 | 32.42 | 6.92 | |
| | 35-45 | 32 | 23.94 | 3.95 | | 35 | 29.29 | 7.49 | |
| | Above 45 | 16 | 22.81 | 2.81 | | 18 | 31.94 | 6.22 | |
| | Total | 150 | 23.11 | 3.71 | | 150 | 31.27 | 6.63 | |
| Green leafy vegetables | Below 25 | 50 | 35.14 | 5.34 | 0.693 ^{NS} | 37 | 38.11 | 4.91 | 0.381 ^{NS} |
| | 25-35 | 52 | 34.62 | 6.80 | | 60 | 38.33 | 7.35 | |
| | 35-45 | 32 | 35.16 | 7.28 | | 35 | 37.14 | 6.89 | |
| | Above 45 | 16 | 37.19 | 4.46 | | 18 | 36.94 | 5.72 | |
| | Total | 150 | 35.18 | 6.23 | | 150 | 37.83 | 6.49 | |
| Other vegetables | Below 25 | 50 | 65.00 | 14.74 | 0.781 ^{NS} | 37 | 77.16 | 18.69 | 0.731 ^{NS} |
| | 25-35 | 52 | 65.58 | 14.71 | | 60 | 76.08 | 13.12 | |
| | 35-45 | 32 | 69.84 | 21.38 | | 35 | 72.86 | 13.19 | |
| | Above 45 | 16 | 69.06 | 12.94 | | 18 | 78.06 | 12.14 | |
| | Total | 150 | 66.67 | 16.18 | | 150 | 75.83 | 14.57 | |
| Roots and tubers | Below 25 | 50 | 129.20 ^B | 19.47 | 2.821* | 37 | 118.51 | 24.72 | 0.191 ^{NS} |
| | 25-35 | 52 | 120.19 ^A | 21.47 | | 60 | 118.33 | 27.09 | |
| | 35-45 | 32 | 127.50 ^B | 20.48 | | 35 | 116.29 | 24.51 | |
| | Above 45 | 16 | 115.63 ^A | 21.90 | | 18 | 113.89 | 20.04 | |
| | Total | 150 | 124.27 | 21.03 | | 150 | 117.37 | 24.97 | |
| Fruits | Below 25 | 50 | 20.04 ^G | 5.56 | 4.005* | 37 | 35.81 | 6.07 | 1.845 ^{NS} |
| | 25-35 | 52 | 22.71 ^G | 6.93 | | 60 | 34.33 | 4.46 | |
| | 35-45 | 32 | 19.91 ^G | 4.88 | | 35 | 36.43 | 5.76 | |
| | Above 45 | 16 | 24.38 ^H | 2.50 | | 18 | 36.94 | 4.89 | |
| | Total | 150 | 21.40 | 5.90 | | 150 | 35.50 | 5.30 | |
| Fish | Below 25 | 50 | 12.62 | 12.02 | 0.311 ^{NS} | 37 | 25.76 | 7.57 | 1.171 ^{NS} |
| | 25-35 | 52 | 14.79 | 11.83 | | 60 | 22.92 | 7.71 | |
| | 35-45 | 32 | 13.03 | 13.87 | | 35 | 23.54 | 11.06 | |
| | Above 45 | 16 | 14.44 | 11.92 | | 18 | 25.94 | 7.62 | |
| | Total | 150 | 13.65 | 12.28 | | 150 | 24.13 | 8.58 | |
| Meat | Below 25 | 50 | 0.60 | 2.40 | 0.273 ^{NS} | 37 | 0.68 | 4.11 | 1.046 ^{NS} |

| | | | | | | | | | |
|------------------------|----------|-----|--------------------|-------|---------------------|-----|--------|-------|---------------------|
| | 25-35 | 52 | 0.96 | 5.69 | | 60 | 0.83 | 4.53 | |
| | 35-45 | 32 | 0.63 | 2.46 | | 35 | 1.57 | 6.50 | |
| | Above 45 | 16 | 0.00 | 0.00 | | 18 | 3.33 | 9.70 | |
| | Total | 150 | 0.67 | 3.78 | | 150 | 1.27 | 5.77 | |
| Chicken | Below 25 | 50 | 9.20 | 14.23 | 0.083 ^{NS} | 37 | 0.00 | 0.00 | 1.791 ^{NS} |
| | 25-35 | 52 | 9.13 | 14.27 | | 60 | 2.75 | 8.36 | |
| | 35-45 | 32 | 7.81 | 12.82 | | 35 | 4.29 | 10.72 | |
| | Above 45 | 16 | 9.38 | 14.59 | | 18 | 3.61 | 10.82 | |
| | Total | 150 | 8.90 | 13.87 | | 150 | 2.53 | 8.35 | |
| Egg | Below 25 | 50 | 10.20 | 16.66 | 1.590 ^{NS} | 37 | 17.43 | 13.16 | 2.244 ^{NS} |
| | 25-35 | 52 | 10.29 | 15.76 | | 60 | 20.17 | 11.93 | |
| | 35-45 | 32 | 12.34 | 18.49 | | 35 | 16.14 | 13.51 | |
| | Above 45 | 16 | 1.88 | 7.50 | | 18 | 11.67 | 13.50 | |
| | Total | 150 | 9.80 | 16.17 | | 150 | 17.53 | 12.96 | |
| Milk and Milk products | Below 25 | 50 | 82.30 | 52.89 | 0.113 ^{NS} | 37 | 145.41 | 46.72 | 0.219 ^{NS} |
| | 25-35 | 52 | 87.12 | 55.44 | | 60 | 150.67 | 54.39 | |
| | 35-45 | 32 | 80.78 | 54.26 | | 35 | 147.14 | 64.56 | |
| | Above 45 | 16 | 85.94 | 65.45 | | 18 | 157.50 | 58.87 | |
| | Total | 150 | 84.03 | 54.98 | | 150 | 149.37 | 55.31 | |
| Fat and Oil | Below 25 | 50 | 17.20 | 3.58 | 0.382 ^{NS} | 37 | 21.76 | 3.58 | 1.835 ^{NS} |
| | 25-35 | 52 | 17.04 | 3.12 | | 60 | 23.00 | 6.12 | |
| | 35-45 | 32 | 16.75 | 3.65 | | 35 | 21.86 | 5.70 | |
| | Above 45 | 16 | 16.25 | 2.24 | | 18 | 25.28 | 7.95 | |
| | Total | 150 | 16.95 | 3.30 | | 150 | 22.70 | 5.81 | |
| Sugar | Below 25 | 50 | 18.90 | 2.53 | 0.623 ^{NS} | 37 | 26.30 | 7.86 | 1.542 ^{NS} |
| | 25-35 | 52 | 19.13 | 3.24 | | 60 | 28.92 | 7.08 | |
| | 35-45 | 32 | 18.28 | 2.73 | | 35 | 26.86 | 6.31 | |
| | Above 45 | 16 | 18.75 | 2.24 | | 18 | 25.83 | 7.52 | |
| | Total | 150 | 18.83 | 2.80 | | 150 | 27.42 | 7.20 | |
| Jaggery | Below 25 | 50 | | | | 37 | 0.00 | 0.00 | 0.495 ^{NS} |
| | 25-35 | 52 | | | | 60 | 0.42 | 3.23 | |
| | 35-45 | 32 | | | | 35 | 0.00 | 0.00 | |
| | Above 45 | 16 | | | | 18 | 0.00 | 0.00 | |
| | Total | 150 | | | | 150 | 0.17 | 2.04 | |
| Condiments and Spices | Below 25 | 50 | 9.92 ^K | 1.66 | 3.082* | 37 | 10.05 | 1.45 | 0.382 ^{NS} |
| | 25-35 | 52 | 10.54 ^K | 1.49 | | 60 | 10.22 | 1.60 | |
| | 35-45 | 32 | 10.19 ^K | 1.91 | | 35 | 9.89 | 1.53 | |
| | Above 45 | 16 | 11.25 ^L | 1.44 | | 18 | 10.22 | 1.66 | |
| | Total | 150 | 10.33 | 1.67 | | 150 | 10.10 | 1.54 | |

N.B:- * - Significant at 5% level ($P < 0.05$), NS – Not Significant at 5% level ($P > 0.05$).

Table-1.2.3 presents mean, SD and F-values of different items of food intakes by both the groups of women belonging to different age groups. In case of farm women, F-values observed against cereals (0.2), pulses (0.858), green leafy vegetables (0.693), other vegetables (0.781), fish (0.311), meat (0.273), chicken (0.083), egg (1.590), milk & milk products (0.113), fat and oil (0.382) and sugar (0.623) are non-significant at 5% level ($P > 0.05$). This implies, average volumes of consumption of these items by farm women of each age group are almost similar. Further, F-values shown against roots and tubers (2.821), fruits (4.005) and condiments (3.082) are significant at 5% level. On application of Duncan's Multiple Range Test (DMRT) and allotting superscripts over the means, it may be envisaged that the consumption of roots and tubers by farm women below 25 years (129.20) and 35-45 years (127.50) are similar (Superscript "B") besides 25-35 years (120.19) and above 45 years (115.63) (Superscript "A"). Further, consumption of fruit by farm women of below 25 years (20.04), 25-35 years (22.71) and 35-45 years (19.91) are similar (Superscript "G") and different from above 45 years (24.38) (Superscript "H"). On the other hand, almost similar trend is observed in case of food intakes by the non-farm women on the basis of different age groups. In this case, F-values observed against cereals (1.109), pulses (1.759), green leafy vegetables (0.831), other vegetables (0.731), roots and tubers (0.191), fruits (1.845), fish (1.171), meat (1.046), chicken (1.791), egg (2.244), milk & milk products (0.219), fat and oil (1.835), sugar (1.542), jaggery (0.495) and condiments (0.382) are non-significant at 5% level ($P > 0.05$). Hence, the quantity of consumption of above food items by the non-farm women remains almost

similar in all age groups. In this way, the results obtained on analysis of variance over the nutrients intake by both communities of various age groups have been presented in the following table.

Table-1.2.4: Mean, SD and F-tests on Nutrient Intakes of Farm and Non-Farm Women of Different Age Groups.

| Food Stuffs | Age Groups | Farm Women | | | F | Non-Farm Women | | | F |
|--------------|------------|------------|---------|--------|---------------------|----------------|---------|--------|---------------------|
| | | N | Mean | S.D. | | N | Mean | S.D. | |
| Protein | Below 25 | 50 | 50.13 | 5.12 | 0.257 ^{NS} | 37 | 50.91 | 4.78 | 1.055 ^{NS} |
| | 25-35 | 52 | 50.76 | 5.70 | | 60 | 52.67 | 6.08 | |
| | 35-45 | 32 | 50.43 | 5.85 | | 35 | 51.20 | 6.75 | |
| | Above 45 | 16 | 49.51 | 4.07 | | 18 | 53.20 | 7.34 | |
| | Total | 150 | 50.35 | 5.35 | | 150 | 51.95 | 6.13 | |
| Fat | Below 25 | 50 | 27.26 | 6.03 | 0.458 ^{NS} | 37 | 36.60 | 5.68 | 1.226 ^{NS} |
| | 25-35 | 52 | 27.50 | 5.68 | | 60 | 38.52 | 8.07 | |
| | 35-45 | 32 | 27.05 | 6.68 | | 35 | 36.60 | 9.05 | |
| | Above 45 | 16 | 25.55 | 4.25 | | 18 | 40.30 | 10.94 | |
| | Total | 150 | 27.11 | 5.87 | | 150 | 37.81 | 8.22 | |
| Carbohydrate | Below 25 | 50 | 441.32 | 16.91 | 0.132 ^{NS} | 37 | 396.55 | 34.02 | 1.289 ^{NS} |
| | 25-35 | 52 | 439.63 | 19.55 | | 60 | 408.96 | 38.08 | |
| | 35-45 | 32 | 440.67 | 16.79 | | 35 | 396.73 | 37.90 | |
| | Above 45 | 16 | 438.71 | 11.63 | | 18 | 408.09 | 43.47 | |
| | Total | 150 | 440.32 | 17.26 | | 150 | 402.94 | 37.87 | |
| Calorie | Below 25 | 50 | 2218.03 | 124.43 | 0.219 ^{NS} | 37 | 2127.96 | 189.18 | 1.401 ^{NS} |
| | 25-35 | 52 | 2216.21 | 135.12 | | 60 | 2201.97 | 230.53 | |
| | 35-45 | 32 | 2214.84 | 133.27 | | 35 | 2129.56 | 234.42 | |
| | Above 45 | 16 | 2189.71 | 78.83 | | 18 | 2216.62 | 291.58 | |
| | Total | 150 | 2213.70 | 125.43 | | 150 | 2168.58 | 231.14 | |
| Calcium | Below 25 | 50 | 480.98 | 118.86 | 0.157 ^{NS} | 37 | 650.12 | 93.64 | 0.292 ^{NS} |
| | 25-35 | 52 | 495.69 | 121.21 | | 60 | 654.61 | 112.47 | |
| | 35-45 | 32 | 484.26 | 139.72 | | 35 | 638.84 | 130.55 | |
| | Above 45 | 16 | 497.60 | 130.32 | | 18 | 667.74 | 105.83 | |
| | Total | 150 | 488.55 | 124.48 | | 150 | 651.40 | 111.21 | |
| Phosphorus | Below 25 | 50 | 458.07 | 93.54 | 0.226 ^{NS} | 37 | 596.13 | 80.50 | 0.410 ^{NS} |
| | 25-35 | 52 | 466.93 | 98.33 | | 60 | 610.86 | 103.39 | |
| | 35-45 | 32 | 465.03 | 118.19 | | 35 | 589.82 | 117.47 | |
| | Above 45 | 16 | 445.24 | 80.35 | | 18 | 611.06 | 99.41 | |
| | Total | 150 | 461.26 | 98.93 | | 150 | 602.34 | 100.80 | |
| Iron | Below 25 | 50 | 15.38 | 1.18 | 0.325 ^{NS} | 37 | 16.61 | 1.18 | 1.486 ^{NS} |
| | 25-35 | 52 | 15.48 | 1.45 | | 60 | 16.87 | 1.63 | |
| | 35-45 | 32 | 15.63 | 1.81 | | 35 | 16.21 | 1.53 | |
| | Above 45 | 16 | 15.71 | 0.89 | | 18 | 16.67 | 1.30 | |
| | Total | 150 | 15.50 | 1.40 | | 150 | 16.63 | 1.48 | |
| Carotene | Below 25 | 50 | 2108.69 | 268.44 | 0.221 ^{NS} | 37 | 2360.96 | 238.21 | 0.917 ^{NS} |
| | 25-35 | 52 | 2079.35 | 349.51 | | 60 | 2387.16 | 352.07 | |
| | 35-45 | 32 | 2124.31 | 371.00 | | 35 | 2302.06 | 317.29 | |
| | Above 45 | 16 | 2140.53 | 216.71 | | 18 | 2277.51 | 255.05 | |
| | Total | 150 | 2105.25 | 315.16 | | 150 | 2347.68 | 308.12 | |
| Thiamin | Below 25 | 50 | 1.71 | 0.28 | 0.054 ^{NS} | 37 | 1.93 | 0.29 | 0.536 ^{NS} |
| | 25-35 | 52 | 1.73 | 0.31 | | 60 | 1.99 | 0.33 | |
| | 35-45 | 32 | 1.71 | 0.30 | | 35 | 1.93 | 0.39 | |
| | Above 45 | 16 | 1.71 | 0.33 | | 18 | 2.02 | 0.38 | |
| | Total | 150 | 1.72 | 0.30 | | 150 | 1.96 | 0.34 | |

| | | | | | | | | | |
|------------|----------|-----|-------|-------|---------------------|-----|-------|------|---------------------|
| Riboflavin | Below 25 | 50 | 0.89 | 0.25 | 0.206 ^{NS} | 37 | 1.25 | 0.20 | 0.252 ^{NS} |
| | 25-35 | 52 | 0.93 | 0.26 | | 60 | 1.26 | 0.23 | |
| | 35-45 | 32 | 0.90 | 0.30 | | 35 | 1.23 | 0.28 | |
| | Above 45 | 16 | 0.89 | 0.27 | | 18 | 1.29 | 0.24 | |
| | Total | 150 | 0.91 | 0.26 | | 150 | 1.26 | 0.24 | |
| Niacin | Below 25 | 50 | 20.33 | 0.75 | 0.080 ^{NS} | 37 | 17.97 | 1.48 | 1.268 ^{NS} |
| | 25-35 | 52 | 20.29 | 1.00 | | 60 | 18.38 | 1.49 | |
| | 35-45 | 32 | 20.34 | 0.83 | | 35 | 17.95 | 1.70 | |
| | Above 45 | 16 | 20.23 | 0.56 | | 18 | 18.66 | 2.03 | |
| | Total | 150 | 20.30 | 0.84 | | 150 | 18.21 | 1.61 | |
| Vitamin_C | Below 25 | 50 | 72.20 | 8.76 | 0.402 ^{NS} | 37 | 85.85 | 8.70 | 0.432 ^{NS} |
| | 25-35 | 52 | 72.44 | 10.14 | | 60 | 84.68 | 8.30 | |
| | 35-45 | 32 | 73.34 | 13.44 | | 35 | 83.69 | 9.17 | |
| | Above 45 | 16 | 75.19 | 6.43 | | 18 | 85.48 | 7.02 | |
| | Total | 150 | 72.84 | 10.15 | | 150 | 84.83 | 8.43 | |

N.B:- * - Significant at 5% level ($P < 0.05$), NS – Not Significant at 5% level ($P > 0.05$).

Table-1.2.4 presents mean, SD and F-values of different items of nutrient intakes by both the groups of women belonging to different age groups. In case of farm women, F-values observed against protein (0.257), fat (0.458), carbohydrates (0.132), calorie (0.219), calcium (0.157), phosphorus (0.226), iron (0.325), carotene (0.221), thiamin (0.054), riboflavin (0.206), niacin (0.080) and Vitamin_C (0.402) are non-significant at 5% level ($P > 0.05$). This implies, average volumes of nutrients of consumed by farm women of each age group are almost similar. On the other hand, almost similar trend is observed in case of nutrients intake by the non-farm women of different age groups. In this case, F-values observed against protein (1.055), fat (1.226), carbohydrates (1.289), calorie (1.401), calcium (0.292), phosphorus (0.410), iron (1.486), carotene (0.917), thiamin (0.536), riboflavin (0.252), niacin (1.268) and Vitamin_C (0.432) are non-significant at 5% level ($P > 0.05$). Hence, the average quantities of consumed nutrients of above food items by the non-farm women remain almost similar in all age groups. In this way, the results obtained on analysis of variance over the food intake by both communities of various income groups have been presented in the following table.

Table-1.2.5: Mean, SD and F-tests on Dietary Intakes of Farm and Non-Farm Women of Different Income Groups.

| Nutrients | Income Groups | Farm Women | | | | Non-Farm Women | | | |
|------------------------|-----------------|------------|--------|-------|---------------------|----------------|--------|-------|---------------------|
| | | N | Mean | S.D. | F-value | N | Mean | S.D. | F-value |
| Cereals | Below 10,000 | 41 | 468.90 | 18.56 | 1.171 ^{NS} | 2 | 375.00 | 35.36 | 1.002 ^{NS} |
| | 10,000 - 15,000 | 60 | 465.58 | 15.97 | | 20 | 407.00 | 37.25 | |
| | 15,000 - 20,000 | 32 | 471.09 | 15.80 | | 57 | 400.09 | 37.26 | |
| | Above 20,000 | 17 | 472.06 | 13.12 | | 71 | 393.66 | 37.95 | |
| | Total | 150 | 468.40 | 16.44 | | 150 | 397.63 | 37.58 | |
| Pulses | Below 10,000 | 41 | 23.32 | 3.66 | 0.139 ^{NS} | 2 | 22.50 | 3.54 | 1.360 ^{NS} |
| | 10,000 - 15,000 | 60 | 23.05 | 3.00 | | 20 | 30.50 | 5.36 | |
| | 15,000 - 20,000 | 32 | 23.19 | 4.40 | | 57 | 31.32 | 6.45 | |
| | Above 20,000 | 17 | 22.65 | 4.85 | | 71 | 31.69 | 7.07 | |
| | Total | 150 | 23.11 | 3.71 | | 150 | 31.27 | 6.63 | |
| Green leafy vegetables | Below 10,000 | 41 | 33.66 | 6.74 | 1.319 ^{NS} | 2 | 37.50 | 3.54 | 1.173 ^{NS} |
| | 10,000 - 15,000 | 60 | 36.00 | 6.25 | | 20 | 38.75 | 6.46 | |
| | 15,000 - 20,000 | 32 | 35.06 | 6.53 | | 57 | 36.58 | 6.14 | |
| | Above 20,000 | 17 | 36.18 | 3.32 | | 71 | 38.59 | 6.77 | |
| | Total | 150 | 35.18 | 6.23 | | 150 | 37.83 | 6.49 | |
| Other vegetables | Below 10,000 | 41 | 62.44 | 15.33 | 1.329 ^{NS} | 2 | 70.00 | 14.14 | 0.291 ^{NS} |
| | 10,000 - 15,000 | 60 | 68.17 | 15.86 | | 20 | 73.75 | 15.29 | |
| | 15,000 - 20,000 | 32 | 68.91 | 20.03 | | 57 | 76.58 | 15.82 | |
| | Above 20,000 | 17 | 67.35 | 8.86 | | 71 | 75.99 | 13.51 | |
| | Total | 150 | 66.67 | 16.18 | | 150 | 75.83 | 14.57 | |
| Roots and tubers | Below 10,000 | 41 | 125.12 | 20.39 | 1.076 ^{NS} | 2 | 100.00 | 0.00 | 0.748 ^{NS} |

| | | | | | | | | | |
|------------------------|-----------------|-----|---------------------|-------|---------------------|-----|--------|-------|---------------------|
| | 10,000 - 15,000 | 60 | 120.83 | 20.28 | | 20 | 116.00 | 26.24 | |
| | 15,000 - 20,000 | 32 | 128.75 | 20.12 | | 57 | 120.53 | 25.61 | |
| | Above 20,000 | 17 | 125.88 | 26.23 | | 71 | 115.70 | 24.40 | |
| | Total | 150 | 124.27 | 21.03 | | 150 | 117.37 | 24.97 | |
| Fruits | Below 10,000 | 41 | 20.22 ^A | 5.48 | 5.526* | 2 | 35.00 | 7.07 | 0.441 ^{NS} |
| | 10,000 - 15,000 | 60 | 20.65 ^A | 5.33 | | 20 | 36.25 | 7.23 | |
| | 15,000 - 20,000 | 32 | 21.63 ^A | 4.91 | | 57 | 35.88 | 5.27 | |
| | Above 20,000 | 17 | 26.47 ^B | 8.06 | | 71 | 35.00 | 4.71 | |
| | Total | 150 | 21.40 | 5.90 | | 150 | 35.50 | 5.30 | |
| Fish | Below 10,000 | 41 | 9.29 ^G | 11.92 | 4.707* | 2 | 25.00 | 7.07 | 1.522 ^{NS} |
| | 10,000 - 15,000 | 60 | 12.73 ^G | 12.73 | | 20 | 26.25 | 9.10 | |
| | 15,000 - 20,000 | 32 | 19.03 ^H | 11.12 | | 57 | 25.26 | 9.04 | |
| | Above 20,000 | 17 | 17.29 ^H | 9.37 | | 71 | 22.59 | 7.95 | |
| | Total | 150 | 13.65 | 12.28 | | 150 | 24.13 | 8.58 | |
| Meat | Below 10,000 | 41 | 0.98 | 3.00 | 1.728 ^{NS} | 2 | 0.00 | 0.00 | 0.125 ^{NS} |
| | 10,000 - 15,000 | 60 | 0.33 | 1.81 | | 20 | 1.50 | 6.71 | |
| | 15,000 - 20,000 | 32 | 0.00 | 0.00 | | 57 | 0.96 | 5.13 | |
| | Above 20,000 | 17 | 2.35 | 9.70 | | 71 | 1.48 | 6.12 | |
| | Total | 150 | 0.67 | 3.78 | | 150 | 1.27 | 5.77 | |
| Chicken | Below 10,000 | 41 | 7.93 | 13.74 | 1.260 ^{NS} | 2 | 0.00 | 0.00 | 0.272 ^{NS} |
| | 10,000 - 15,000 | 60 | 11.50 | 14.42 | | 20 | 1.50 | 6.71 | |
| | 15,000 - 20,000 | 32 | 6.72 | 12.22 | | 57 | 3.16 | 9.43 | |
| | Above 20,000 | 17 | 6.18 | 14.74 | | 71 | 2.39 | 8.01 | |
| | Total | 150 | 8.90 | 13.87 | | 150 | 2.53 | 8.35 | |
| Egg | Below 10,000 | 41 | 7.80 | 16.66 | 1.219 ^{NS} | 2 | 25.00 | 0.00 | 0.815 ^{NS} |
| | 10,000 - 15,000 | 60 | 8.50 | 14.97 | | 20 | 14.00 | 13.04 | |
| | 15,000 - 20,000 | 32 | 11.72 | 17.49 | | 57 | 17.46 | 13.10 | |
| | Above 20,000 | 17 | 15.59 | 16.19 | | 71 | 18.38 | 12.98 | |
| | Total | 150 | 9.80 | 16.17 | | 150 | 17.53 | 12.96 | |
| Milk and Milk products | Below 10,000 | 41 | 69.63 ^K | 48.80 | 2.989* | 2 | 175.00 | 35.36 | 0.261 ^{NS} |
| | 10,000 - 15,000 | 60 | 79.08 ^K | 56.44 | | 20 | 147.00 | 72.05 | |
| | 15,000 - 20,000 | 32 | 101.72 ^L | 50.78 | | 57 | 152.46 | 54.00 | |
| | Above 20,000 | 17 | 102.94 ^L | 61.82 | | 71 | 146.83 | 52.12 | |
| | Total | 150 | 84.03 | 54.98 | | 150 | 149.37 | 55.31 | |
| Fat and Oil | Below 10,000 | 41 | 16.51 | 3.54 | 2.201 ^{NS} | 2 | 20.00 | 0.00 | 0.704 ^{NS} |
| | 10,000 - 15,000 | 60 | 16.85 | 3.27 | | 20 | 22.00 | 6.96 | |
| | 15,000 - 20,000 | 32 | 16.69 | 3.09 | | 57 | 23.51 | 6.81 | |
| | Above 20,000 | 17 | 18.82 | 2.81 | | 71 | 22.32 | 4.54 | |
| | Total | 150 | 16.95 | 3.30 | | 150 | 22.70 | 5.81 | |
| Sugar | Below 10,000 | 41 | 18.05 ^N | 2.93 | 3.554* | 2 | 27.50 | 10.61 | 0.991 ^{NS} |
| | 10,000 - 15,000 | 60 | 18.75 ^N | 3.00 | | 20 | 29.50 | 8.41 | |
| | 15,000 - 20,000 | 32 | 19.06 ^N | 2.35 | | 57 | 26.37 | 7.04 | |
| | Above 20,000 | 17 | 20.59 ^M | 1.66 | | 71 | 27.68 | 6.91 | |
| | Total | 150 | 18.83 | 2.80 | | 150 | 27.42 | 7.20 | |
| Jaggery | Below 10,000 | 41 | | | | 2 | 0.00 | 0.00 | 0.366 ^{NS} |
| | 10,000 - 15,000 | 60 | | | | 20 | 0.00 | 0.00 | |
| | 15,000 - 20,000 | 32 | | | | 57 | 0.00 | 0.00 | |
| | Above 20,000 | 17 | | | | 71 | 0.35 | 2.97 | |
| | Total | 150 | | | | 150 | 0.17 | 2.04 | |
| Condiments and Spices | Below 10,000 | 41 | 9.83 ^S | 1.73 | 3.978* | 2 | 8.00 | 0.00 | 2.165 ^{NS} |
| | 10,000 - 15,000 | 60 | 10.17 ^S | 1.57 | | 20 | 9.70 | 1.49 | |
| | 15,000 - 20,000 | 32 | 10.91 ^S | 1.67 | | 57 | 10.33 | 1.60 | |
| | Above 20,000 | 17 | 11.06 ^R | 1.43 | | 71 | 10.08 | 1.49 | |
| | Total | 150 | 10.33 | 1.67 | | 150 | 10.10 | 1.54 | |

N.B:- * - Significant at 5% level ($P < 0.05$), NS – Not Significant at 5% level ($P > 0.05$).

Table-1.2.5 presents mean, SD and F-values of different items of food intakes by both the groups of women belonging to different income groups. In case of farm women, F-values observed against cereals (0.171), pulses (0.139), green leafy vegetables (1.319), other vegetables (1.329), roots and tubers (1.076), meat (1.728), chicken (1.260), egg (1.219), fat and oil (2.201) are non-significant at 5% level ($P>0.05$). This implies, average volumes of consumption of these items by farm women of each income group are almost similar. Further, F-values shown against fruits (5.526), fish (4.707), sugar (3.554) and condiments (3.978) are significant at 5% level ($P<0.05$). On application of Duncan's Multiple Range Test (DMRT) and allotting superscripts over the means, it may be envisaged that the consumption of fruits by farm women in above 20,000 income group (26.47) is different from those of other similar groups. So, consumption of fruits by farm women having income below 20,000 (superscript "A") is significantly different from above 20,000 income group ("B"). Further, consumption of fish by farm women of income groups below 10,000 (9.29) and 10,000-15,000 (12.73) are similar (Superscript "G") and different from 15,000-20,000 (19.03) and above 20,000 (17.29) (Superscript "H"). Further, consumption of milk and milk products by farm women of below 10,000 (69.63) and 10,000-15,000 (79.08) income groups are similar (Superscript "K") and different from 15,000-20,000 (101.72) and above 20,000 (102.94) (Superscript "L"). Consumption of sugar by farm women in above 20,000 income group (20.59) is different from those of other similar groups. So, consumption of sugar by farm women having income below 20,000 (superscript "N") is significantly different from above 20,000 income group ("M"). Consumption of condiments by farm women in above 20,000 income group (11.06) is different from those of other similar groups. So, consumption of fruits by farm women having income below 20,000 (superscript "S") is significantly different from above 20,000 income group ("R"). On the other hand, a bit different trend is observed in case of food intakes by the non-farm women of different income groups. In this case, F-values observed against cereals (1.002), pulses (1.360), green leafy vegetables (1.176), other vegetables (0.291), roots and tubers (0.748), fruits (0.441), fish (1.522), meat (0.125), chicken (0.272), egg (0.815), milk & milk products (0.261), fat and oil (0.704), sugar (0.991), jiggery (0.366) and condiments (2.165) are non-significant at 5% level ($P>0.05$). Hence, the quantity of consumption of above food items by the non-farm women remains almost similar in all income groups. In this way, the results obtained on analysis of variance over the nutrients intake by both communities of various income groups have been presented in the following table.

Table-1.2.6: Mean, SD and F-tests on Nutrient Intakes of Farm and Non-Farm Women of Different Income Groups.

| Nutrients | Income Groups | Farm Women | | | | Non-Farm Women | | | |
|--------------|-----------------|------------|----------------------|--------|---------------------|----------------|---------|--------|---------------------|
| | | N | Mean | S.D. | F-value | N | Mean | S.D. | F-value |
| Protein | Below 10,000 | 41 | 48.40 ^A | 5.35 | 3.836* | 2 | 49.05 | 0.81 | 0.457 ^{NS} |
| | 10,000 - 15,000 | 60 | 50.23 ^A | 5.23 | | 20 | 51.97 | 7.03 | |
| | 15,000 - 20,000 | 32 | 51.93 ^B | 5.25 | | 57 | 52.58 | 6.39 | |
| | Above 20,000 | 17 | 52.45 ^B | 4.65 | | 71 | 51.53 | 5.75 | |
| | Total | 150 | 50.35 | 5.35 | | 150 | 51.95 | 6.13 | |
| Fat | Below 10,000 | 41 | 25.43 ^C | 6.09 | 4.698* | 2 | 37.12 | 2.02 | 0.518 ^{NS} |
| | 10,000 - 15,000 | 60 | 26.51 ^C | 5.86 | | 20 | 36.58 | 10.43 | |
| | 15,000 - 20,000 | 32 | 28.29 ^D | 5.06 | | 57 | 38.84 | 9.22 | |
| | Above 20,000 | 17 | 31.09 ^D | 4.86 | | 71 | 37.36 | 6.69 | |
| | Total | 150 | 27.11 | 5.87 | | 150 | 37.81 | 8.22 | |
| Carbohydrate | Below 10,000 | 41 | 438.75 | 18.46 | 2.413 ^{NS} | 2 | 376.91 | 38.74 | 0.810 ^{NS} |
| | 10,000 - 15,000 | 60 | 437.14 | 16.03 | | 20 | 411.36 | 38.46 | |
| | 15,000 - 20,000 | 32 | 444.68 | 17.92 | | 57 | 404.49 | 37.17 | |
| | Above 20,000 | 17 | 447.09 | 14.90 | | 71 | 400.06 | 38.40 | |
| | Total | 150 | 440.32 | 17.26 | | 150 | 402.94 | 37.87 | |
| Calorie | Below 10,000 | 41 | 2184.04 ^E | 128.98 | 4.151* | 2 | 2046.08 | 140.01 | 0.496 ^{NS} |
| | 10,000 - 15,000 | 60 | 2194.96 ^E | 122.10 | | 20 | 2191.33 | 255.48 | |
| | 15,000 - 20,000 | 32 | 2248.60 ^F | 122.97 | | 57 | 2186.58 | 239.27 | |
| | Above 20,000 | 17 | 2285.69 ^F | 95.62 | | 71 | 2151.16 | 220.85 | |
| | Total | 150 | 2213.70 | 125.43 | | 150 | 2168.58 | 231.14 | |
| Calcium | Below 10,000 | 41 | 439.98 ^G | 107.62 | 5.881* | 2 | 671.82 | 61.75 | 0.219 ^{NS} |
| | 10,000 - 15,000 | 60 | 477.38 ^G | 122.43 | | 20 | 652.76 | 147.02 | |
| | 15,000 - 20,000 | 32 | 541.86 ^H | 130.67 | | 57 | 659.33 | 111.12 | |
| | Above 20,000 | 17 | 544.78 ^H | 106.96 | | 71 | 644.07 | 102.02 | |
| | Total | 150 | 488.55 | 124.48 | | 150 | 651.40 | 111.21 | |
| Phosphorus | Below 10,000 | 41 | 422.07 ^J | 89.78 | 5.868* | 2 | 587.90 | 42.56 | 0.382 ^{NS} |

| | | | | | | | | | |
|------------|-----------------|-----|---------------------|--------|---------------------|-----|---------|--------|---------------------|
| | 10,000 - 15,000 | 60 | 453.09 ^J | 98.70 | | 20 | 591.27 | 129.18 | |
| | 15,000 - 20,000 | 32 | 502.34 ^K | 99.17 | | 57 | 613.36 | 103.32 | |
| | Above 20,000 | 17 | 507.25 ^K | 78.80 | | 71 | 597.02 | 91.45 | |
| | Total | 150 | 461.26 | 98.93 | | 150 | 602.34 | 100.80 | |
| Iron | Below 10,000 | 41 | 15.01 ^L | 1.39 | 3.900* | 2 | 15.32 | 0.90 | 0.563 ^{NS} |
| | 10,000 - 15,000 | 60 | 15.46 ^L | 1.30 | | 20 | 16.65 | 1.27 | |
| | 15,000 - 20,000 | 32 | 15.89 ^M | 1.56 | | 57 | 16.60 | 1.51 | |
| | Above 20,000 | 17 | 16.13 ^M | 1.00 | | 71 | 16.68 | 1.52 | |
| | Total | 150 | 15.50 | 1.40 | | 150 | 16.63 | 1.48 | |
| Carotene | Below 10,000 | 41 | 2012.21 | 342.72 | 2.065 ^{NS} | 2 | 2329.46 | 133.89 | 0.678 ^{NS} |
| | 10,000 - 15,000 | 60 | 2121.96 | 300.61 | | 20 | 2360.43 | 298.80 | |
| | 15,000 - 20,000 | 32 | 2135.20 | 345.21 | | 57 | 2302.96 | 305.26 | |
| | Above 20,000 | 17 | 2214.24 | 171.88 | | 71 | 2380.51 | 316.66 | |
| | Total | 150 | 2105.25 | 315.16 | | 150 | 2347.68 | 308.12 | |
| Thiamin | Below 10,000 | 41 | 1.64 ^N | 0.26 | 3.505* | 2 | 1.98 | 0.08 | 0.146 ^{NS} |
| | 10,000 - 15,000 | 60 | 1.68 ^N | 0.30 | | 20 | 1.96 | 0.43 | |
| | 15,000 - 20,000 | 32 | 1.82 ^P | 0.29 | | 57 | 1.98 | 0.34 | |
| | Above 20,000 | 17 | 1.83 ^P | 0.32 | | 71 | 1.94 | 0.32 | |
| | Total | 150 | 1.72 | 0.30 | | 150 | 1.96 | 0.34 | |
| Riboflavin | Below 10,000 | 41 | 0.80 ^R | 0.23 | 7.047* | 2 | 1.33 | 0.16 | 0.493 ^{NS} |
| | 10,000 - 15,000 | 60 | 0.87 ^R | 0.26 | | 20 | 1.26 | 0.33 | |
| | 15,000 - 20,000 | 32 | 1.03 ^S | 0.26 | | 57 | 1.28 | 0.23 | |
| | Above 20,000 | 17 | 1.04 ^S | 0.22 | | 71 | 1.23 | 0.21 | |
| | Total | 150 | 0.91 | 0.26 | | 150 | 1.26 | 0.24 | |
| Niacin | Below 10,000 | 41 | 20.21 ^T | 0.82 | 2.774* | 2 | 17.00 | 1.33 | 1.042 ^{NS} |
| | 10,000 - 15,000 | 60 | 20.15 ^T | 0.74 | | 20 | 18.58 | 1.61 | |
| | 15,000 - 20,000 | 32 | 20.53 ^U | 0.86 | | 57 | 18.32 | 1.62 | |
| | Above 20,000 | 17 | 20.66 ^U | 1.01 | | 71 | 18.05 | 1.61 | |
| | Total | 150 | 20.30 | 0.84 | | 150 | 18.21 | 1.61 | |
| Vitamin_C | Below 10,000 | 41 | 69.39 ^W | 10.24 | 3.309* | 2 | 80.45 | 1.56 | 0.218 ^{NS} |
| | 10,000 - 15,000 | 60 | 72.74 ^W | 9.46 | | 20 | 85.20 | 10.36 | |
| | 15,000 - 20,000 | 32 | 75.21 ^X | 11.43 | | 57 | 85.09 | 8.94 | |
| | Above 20,000 | 17 | 77.10 ^X | 7.27 | | 71 | 84.65 | 7.58 | |
| | Total | 150 | 72.84 | 10.15 | | 150 | 84.83 | 8.43 | |

N.B:- * - Significant at 5% level ($P < 0.05$), NS – Not Significant at 5% level ($P > 0.05$).

Table-1.2.6 presents mean, SD and F-values of different nutrients intakes by both the groups of women belonging to different income groups. In case of farm women, F-values observed against carbohydrates (2.413) and carotene (2.065) are non-significant at 5% level ($P > 0.05$). This implies, average volumes of consumption of these items by farm women of each income group are almost similar. Further, F-values shown against protein (3.836), fat (4.698), calorie (4.151), calcium (5.881), phosphorus (5.868), iron (3.9), thiamin (3.505), riboflavin (7.047), niacin (2.774) and Vitamin_C (3.309) are significant at 5% level ($P < 0.05$). On application of Duncan's Multiple Range Test (DMRT) and allotting superscripts over the means, it may be envisaged that the intake of protein by farm women in above 20,000 income group (52.45) and 15,000-20,000 (51.93) are different from those of other similar groups. So, consumption of protein by farm women having income below 10,000 and 10,000-15,000 (superscript "A") is significantly different from 15,000-20,000 (51.93) and above 20,000 (52.45) income group ("B"). Further, consumption of fat by farm women of income groups below 10,000 (25.43) and 10,000-15,000 (26.51) are similar (Superscript "C") and different from 15,000-20,000 (28.29) and above 20,000 (31.09) (Superscript "D"). Further, consumption of calorie by farm women of below 10,000 (2184.04) and 10,000-15,000 (2194.96) income groups are similar (Superscript "E") and different from 15,000-20,000 (2248.60) and above 20,000 (2285.69) (Superscript "F"). Consumption of calcium by farm women of below 10,000 (439.98) and 10,000-15,000 (477.38) income groups are similar (Superscript "G") and different from 15,000-20,000 (541.86) and above 20,000 (544.78) (Superscript "H"). Consumption of phosphorus by farm women of below 10,000 (422.07) and 10,000-15,000 (453.09) income groups are similar (Superscript "J") and different from 15,000-20,000 (502.34) and above 20,000 (507.25) (Superscript "K"). Consumption of iron by farm women of below 10,000 (15.01) and 10,000-15,000 (15.46) income groups are similar (Superscript "L") and different from 15,000-20,000 (15.89) and above 20,000 (16.13) (Superscript "M"). Consumption of thiamin by farm women of below 10,000 (1.64) and 10,000-15,000 (1.68) income groups are similar (Superscript "N")

and different from 15,000-20,000 (1.82) and above 20,000 (1.83) (Superscript “P”). Consumption of riboflavin by farm women of below 10,000 (0.80) and 10,000-15,000 (0.87) income groups are similar (Superscript “R”) and different from 15,000-20,000 (1.03) and above 20,000 (1.04) (Superscript “S”). Consumption of niacin by farm women of below 10,000 (20.21) and 10,000-15,000 (20.15) income groups are similar (Superscript “T”) and different from 15,000-20,000 (20.53) and above 20,000 (20.66) (Superscript “U”). Consumption of Vitamin_C by farm women of below 10,000 (69.39) and 10,000-15,000 (72.74) income groups are similar (Superscript “W”) and different from 15,000-20,000 (75.21) and above 20,000 (77.10) (Superscript “X”). On the other hand, a bit different trend is observed in case of nutrient intakes by the non-farm women of different income groups. In this case, F-values observed against protein (0.457), fat (0.518), carbohydrates (0.81), calorie (0.496), calcium (0.219), phosphorus (0.382), iron (0.563), carotene (0.678), thiamin (0.146), riboflavin (0.493), niacin (1.042) and Vitamin-C (0.218) are non-significant at 5% level (P>0.05). Hence, the quantity of consumption of above nutrients by the non-farm women remains almost similar in all income groups. In this way, the results obtained on paired t-test analysis over the food intake by both communities of family sizes have been presented in the following table.

Table-1.2.7: Mean, SD and t-tests on Dietary Intakes of Farm and Non-Farm Women of Different Family Sizes.

| Food Stuffs | Family Size | Farm Women | | | | Non-Farm Women | | | |
|------------------------|-------------------|------------|--------|-------|---------------------|----------------|--------|-------|---------------------|
| | | N | Mean | S.D. | t-value | N | Mean | S.D. | t-value |
| Cereals | Upto 5 Members | 95 | 470.11 | 15.76 | 1.680 ^{NS} | 86 | 398.31 | 35.48 | 0.256 ^{NS} |
| | 6 or more Members | 55 | 465.45 | 17.30 | | 64 | 396.72 | 40.49 | |
| Pulses | Upto 5 Members | 95 | 22.74 | 3.22 | 1.615 ^{NS} | 86 | 31.86 | 6.56 | 1.273 ^{NS} |
| | 6 or more Members | 55 | 23.75 | 4.39 | | 64 | 30.47 | 6.71 | |
| Green leafy vegetables | Upto 5 Members | 95 | 34.65 | 6.36 | 1.367 ^{NS} | 86 | 37.97 | 6.83 | 0.288 ^{NS} |
| | 6 or more Members | 55 | 36.09 | 5.94 | | 64 | 37.66 | 6.04 | |
| Other vegetables | Upto 5 Members | 95 | 66.95 | 14.97 | 0.278 ^{NS} | 86 | 76.86 | 16.61 | 1.001 ^{NS} |
| | 6 or more Members | 55 | 66.18 | 18.21 | | 64 | 74.45 | 11.24 | |
| Roots and tubers | Upto 5 Members | 95 | 125.89 | 21.06 | 1.249 ^{NS} | 86 | 118.95 | 25.53 | 0.902 ^{NS} |
| | 6 or more Members | 55 | 121.45 | 20.85 | | 64 | 115.23 | 24.22 | |
| Fruits | Upto 5 Members | 95 | 21.16 | 5.45 | 0.659 ^{NS} | 86 | 35.64 | 5.68 | 0.373 ^{NS} |
| | 6 or more Members | 55 | 21.82 | 6.65 | | 64 | 35.31 | 4.79 | |
| Fish | Upto 5 Members | 95 | 12.81 | 11.90 | 1.106 ^{NS} | 86 | 24.10 | 8.04 | 0.036 ^{NS} |
| | 6 or more Members | 55 | 15.11 | 12.89 | | 64 | 24.16 | 9.32 | |
| Meat | Upto 5 Members | 95 | 0.53 | 2.24 | 0.596 ^{NS} | 86 | 0.29 | 2.70 | 2.441 ^{NS} |
| | 6 or more Members | 55 | 0.91 | 5.54 | | 64 | 2.58 | 8.12 | |
| Chicken | Upto 5 Members | 95 | 7.95 | 13.40 | 1.107 ^{NS} | 86 | 3.26 | 9.10 | 1.231 ^{NS} |
| | 6 or more Members | 55 | 10.55 | 14.61 | | 64 | 1.56 | 7.18 | |
| Egg | Upto 5 Members | 95 | 10.74 | 16.84 | 0.932 ^{NS} | 86 | 17.85 | 13.30 | 0.345 ^{NS} |
| | 6 or more Members | 55 | 8.18 | 14.95 | | 64 | 17.11 | 12.59 | |
| Milk and Milk products | Upto 5 Members | 95 | 84.74 | 51.29 | 0.205 ^{NS} | 86 | 147.15 | 54.49 | 0.567 ^{NS} |
| | 6 or more Members | 55 | 82.82 | 61.30 | | 64 | 152.34 | 56.68 | |
| Fat and Oil | Upto 5 Members | 95 | 17.02 | 3.43 | 0.361 ^{NS} | 86 | 22.21 | 4.31 | 1.201 ^{NS} |
| | 6 or more Members | 55 | 16.82 | 3.10 | | 64 | 23.36 | 7.35 | |
| Sugar | Upto 5 Members | 95 | 18.89 | 2.93 | 0.352 ^{NS} | 86 | 27.24 | 7.30 | 0.346 ^{NS} |
| | 6 or more Members | 55 | 18.73 | 2.59 | | 64 | 27.66 | 7.13 | |
| Jaggery | Upto 5 Members | 95 | 0.00 | 0.00 | | 86 | 0.29 | 2.70 | 0.862 ^{NS} |
| | 6 or more Members | 55 | 0.00 | 0.00 | | 64 | 0.00 | 0.00 | |
| Condiments and Spices | Upto 5 Members | 95 | 10.23 | 1.72 | 0.979 ^{NS} | 86 | 10.28 | 1.51 | 1.655 ^{NS} |
| | 6 or more Members | 55 | 10.51 | 1.60 | | 64 | 9.86 | 1.57 | |

N.B:- * - Significant at 5% level (P<0.05), NS – Not Significant at 5% level (P>0.05) for DF=148.

Table-1.2.7 presents mean, SD and t-values of different items of food intakes by both the groups of women belonging to different family sizes. In case of farm women, t-values observed against cereals (1.680), pulses (1.615), green leafy vegetables (1.367), other vegetables (0.278), roots and tubers (1.249), fruits (0.659), fish (1.106), meat (0.596), chicken (1.107), egg (0.932), milk & milk products (0.205), fat and oil (0.361), sugar (0.352) and condiments (0.979) are non-significant at 5% level (P>0.05). This implies, average volumes of consumption of these items by farm women of each family size groups are almost similar. On the other hand, almost similar trend is observed in case of food intakes by the non-farm women on the basis of different family

sizes. In this case, t-values observed against cereals (0.256), pulses (1.273), green leafy vegetables (0.288), other vegetables (1.001), roots and tubers (0.902), fruits (0.373), fish (0.036), meat (2.441), chicken (1.231), egg (0.345), milk & milk products (0.567), fat and oil (1.201), sugar (0.346), jiggery (0.862) and condiments (1.655) are non-significant at 5% level ($P>0.05$). Hence, the quantity of consumption of above food items by the non-farm women remains almost similar in all family sizes. In this way, the results obtained on paired t-test analysis over the nutrients intake by both communities of various family size groups have been presented in the following table.

Table-1.2.8: Mean, SD and t-tests on Nutrient Intakes of Farm and Non-Farm Women of Different Family Sizes.

| Nutrients | Family Size | Farm Women | | | | Non-Farm Women | | | |
|--------------|-------------------|------------|---------|--------|---------------------|----------------|---------|--------|---------------------|
| | | N | Mean | S.D. | t-value | N | Mean | S.D. | t-value |
| Protein | Upto 5 Members | 95 | 50.07 | 5.29 | 0.834 ^{NS} | 86 | 52.15 | 5.98 | 0.457 ^{NS} |
| | 6 or more Members | 55 | 50.83 | 5.48 | | 64 | 51.69 | 6.35 | |
| Fat | Upto 5 Members | 95 | 27.31 | 5.90 | 0.542 ^{NS} | 86 | 37.22 | 6.78 | 1.026 ^{NS} |
| | 6 or more Members | 55 | 26.77 | 5.84 | | 64 | 38.61 | 9.84 | |
| Carbohydrate | Upto 5 Members | 95 | 441.70 | 16.34 | 1.293 ^{NS} | 86 | 404.09 | 35.75 | 0.429 ^{NS} |
| | 6 or more Members | 55 | 437.93 | 18.66 | | 64 | 401.40 | 40.79 | |
| Calorie | Upto 5 Members | 95 | 2219.83 | 120.41 | 0.785 ^{NS} | 86 | 2168.67 | 209.43 | 0.005 ^{NS} |
| | 6 or more Members | 55 | 2203.11 | 134.14 | | 64 | 2168.46 | 259.19 | |
| Calcium | Upto 5 Members | 95 | 485.59 | 121.66 | 0.381 ^{NS} | 86 | 650.47 | 114.37 | 0.118 ^{NS} |
| | 6 or more Members | 55 | 493.66 | 130.19 | | 64 | 652.64 | 107.70 | |
| Phosphorus | Upto 5 Members | 95 | 458.61 | 95.25 | 0.430 ^{NS} | 86 | 605.08 | 103.66 | 0.384 ^{NS} |
| | 6 or more Members | 55 | 465.84 | 105.74 | | 64 | 598.67 | 97.50 | |
| Iron | Upto 5 Members | 95 | 15.43 | 1.37 | 0.897 ^{NS} | 86 | 16.75 | 1.56 | 1.201 ^{NS} |
| | 6 or more Members | 55 | 15.64 | 1.45 | | 64 | 16.46 | 1.34 | |
| Carotene | Upto 5 Members | 95 | 2090.55 | 321.22 | 0.749 ^{NS} | 86 | 2360.41 | 333.00 | 0.585 ^{NS} |
| | 6 or more Members | 55 | 2130.62 | 305.62 | | 64 | 2330.58 | 272.78 | |
| Thiamin | Upto 5 Members | 95 | 1.72 | 0.27 | 0.309 ^{NS} | 86 | 1.95 | 0.33 | 0.294 ^{NS} |
| | 6 or more Members | 55 | 1.71 | 0.34 | | 64 | 1.97 | 0.36 | |
| Riboflavin | Upto 5 Members | 95 | 0.90 | 0.25 | 0.183 ^{NS} | 86 | 1.25 | 0.24 | 0.191 ^{NS} |
| | 6 or more Members | 55 | 0.91 | 0.29 | | 64 | 1.26 | 0.23 | |
| Niacin | Upto 5 Members | 95 | 20.34 | 0.76 | 0.723 ^{NS} | 86 | 18.22 | 1.49 | 0.037 ^{NS} |
| | 6 or more Members | 55 | 20.24 | 0.96 | | 64 | 18.21 | 1.78 | |
| Vitamin_C | Upto 5 Members | 95 | 72.57 | 10.15 | 0.429 ^{NS} | 86 | 85.47 | 9.07 | 1.066 ^{NS} |
| | 6 or more Members | 55 | 73.31 | 10.23 | | 64 | 83.98 | 7.46 | |

N.B:- * - Significant at 5% level ($P<0.05$), NS – Not Significant at 5% level ($P>0.05$) for $DF=148$

Table-1.2.8 presents mean, SD and t-values of different nutrients intakes by both the groups of women belonging to different family sizes. In case of farm women, t-values observed against protein (0.834), fat (0.542), carbohydrate (1.293), calorie (0.785), calcium (0.381), phosphorus (0.430), iron (0.897), carotene (0.749), thiamin (0.309), riboflavin (0.183), niacin (0.723) and Vitamin-C (0.429) are non-significant at 5% level ($P>0.05$). This implies, average volumes of consumption of these items by farm women of each family size groups are almost similar. On the other hand, almost similar trend is observed in case of nutrients intakes by the non-farm women on the basis of different family sizes. In this case, t-values observed against protein (0.457), fat (1.026), carbohydrate (0.429), calorie (0.005), calcium (0.118), phosphorus (0.384), iron (1.201),

carotene (0.585), thiamin (0.294), riboflavin (0.191), niacin (0.037) and Vitamin-C (1.066) are non-significant at 5% level ($P>0.05$). Hence, the quantity of consumption of above nutrients by the non-farm women remains almost similar in all family sizes.

Table-1.2.9: Mean, SD and F-tests on Dietary Intakes of Farm and Non-Farm Women of Different Farmer Categories.

| Food Stuffs | Farmer Category | Farm Women | | | | Non-Farm Women | | | |
|------------------------|-----------------|------------|--------|-------|---------------------|----------------|--------------------|-------|---------------------|
| | | N | Mean | S.D. | F-value | N | Mean | S.D. | F-value |
| Cereals | Marginal Farmer | 101 | 468.76 | 17.53 | 0.103 ^{NS} | 77 | 392.47 | 36.02 | 1.197 ^{NS} |
| | Small Farmer | 43 | 467.44 | 14.77 | | 59 | 401.44 | 35.26 | |
| | Medium Farmer | 6 | 469.17 | 8.01 | | 9 | 410.00 | 56.84 | |
| | Big Farmer | | | | | 5 | 410.00 | 46.90 | |
| | Total | 150 | 468.40 | 16.44 | | 150 | 397.63 | 37.58 | |
| Pulses | Marginal Farmer | 101 | 23.00 | 3.96 | 0.370 ^{NS} | 77 | 30.71 | 6.47 | 0.529 ^{NS} |
| | Small Farmer | 43 | 23.47 | 3.25 | | 59 | 31.95 | 6.70 | |
| | Medium Farmer | 6 | 22.33 | 2.25 | | 9 | 30.56 | 8.82 | |
| | Big Farmer | | | | | 5 | 33.00 | 4.47 | |
| | Total | 150 | 23.11 | 3.71 | | 150 | 31.27 | 6.63 | |
| Green leafy vegetables | Marginal Farmer | 101 | 34.54 | 6.55 | 1.625 ^{NS} | 77 | 38.57 | 6.01 | 2.307 ^{NS} |
| | Small Farmer | 43 | 36.47 | 5.51 | | 59 | 37.54 | 6.85 | |
| | Medium Farmer | 6 | 36.67 | 4.08 | | 9 | 32.78 | 7.95 | |
| | Big Farmer | | | | | 5 | 39.00 | 2.24 | |
| | Total | 150 | 35.18 | 6.23 | | 150 | 37.83 | 6.49 | |
| Other vegetables | Marginal Farmer | 101 | 64.95 | 16.95 | 2.017 ^{NS} | 77 | 76.43 ^A | 12.97 | 2.746* |
| | Small Farmer | 43 | 70.81 | 14.14 | | 59 | 77.20 ^A | 16.09 | |
| | Medium Farmer | 6 | 65.83 | 12.81 | | 9 | 62.78 ^B | 15.23 | |
| | Big Farmer | | | | | 5 | 74.00 ^A | 8.22 | |
| | Total | 150 | 66.67 | 16.18 | | 150 | 75.83 | 14.57 | |
| Roots and tubers | Marginal Farmer | 101 | 125.15 | 21.05 | 1.174 ^{NS} | 77 | 117.86 | 26.54 | 0.313 ^{NS} |
| | Small Farmer | 43 | 123.95 | 20.95 | | 59 | 116.95 | 25.26 | |
| | Medium Farmer | 6 | 111.67 | 20.41 | | 9 | 121.11 | 12.69 | |
| | Big Farmer | | | | | 5 | 108.00 | 10.95 | |
| | Total | 150 | 124.27 | 21.03 | | 150 | 117.37 | 24.97 | |
| Fruits | Marginal Farmer | 101 | 21.20 | 6.51 | 0.181 ^{NS} | 77 | 36.23 | 6.08 | 1.024 ^{NS} |
| | Small Farmer | 43 | 21.84 | 4.65 | | 59 | 34.75 | 4.59 | |
| | Medium Farmer | 6 | 21.67 | 2.58 | | 9 | 34.44 | 3.00 | |
| | Big Farmer | | | | | 5 | 35.00 | 0.00 | |
| | Total | 150 | 21.40 | 5.90 | | 150 | 35.50 | 5.30 | |
| Fish | Marginal Farmer | 101 | 12.16 | 12.20 | 2.998 ^{NS} | 77 | 25.29 ^G | 7.96 | 2.894* |
| | Small Farmer | 43 | 16.00 | 11.93 | | 59 | 23.71 ^G | 8.40 | |
| | Medium Farmer | 6 | 22.00 | 12.00 | | 9 | 16.67 ^H | 13.23 | |
| | Big Farmer | | | | | 5 | 24.60 ^G | 3.58 | |
| | Total | 150 | 13.65 | 12.28 | | 150 | 24.13 | 8.58 | |
| Meat | Marginal Farmer | 101 | 0.99 | 4.58 | 1.131 ^{NS} | 77 | 0.71 | 4.42 | 2.510 ^{NS} |
| | Small Farmer | 43 | 0.00 | 0.00 | | 59 | 1.36 | 5.93 | |
| | Medium Farmer | 6 | 0.00 | 0.00 | | 9 | 6.11 | 12.19 | |
| | Big Farmer | | | | | 5 | 0.00 | 0.00 | |
| | Total | 150 | 0.67 | 3.78 | | 150 | 1.27 | 5.77 | |

| | | | | | | | | | |
|------------------------|-----------------|-----|-------|-------|---------------------|-----|--------|-------|---------------------|
| Chicken | Marginal Farmer | 101 | 9.26 | 14.24 | 0.161 ^{NS} | 77 | 2.27 | 7.93 | 0.780 ^{NS} |
| | Small Farmer | 43 | 7.91 | 13.01 | | 59 | 2.29 | 7.62 | |
| | Medium Farmer | 6 | 10.00 | 15.49 | | 9 | 3.33 | 10.00 | |
| | Big Farmer | | | | | 5 | 8.00 | 17.89 | |
| | Total | 150 | 8.90 | 13.87 | | 150 | 2.53 | 8.35 | |
| Egg | Marginal Farmer | 101 | 11.44 | 17.48 | 1.696 ^{NS} | 77 | 16.49 | 13.40 | 0.404 ^{NS} |
| | Small Farmer | 43 | 6.05 | 12.42 | | 59 | 18.56 | 12.56 | |
| | Medium Farmer | 6 | 9.17 | 14.29 | | 9 | 17.78 | 13.49 | |
| | Big Farmer | | | | | 5 | 21.00 | 11.94 | |
| | Total | 150 | 9.80 | 16.17 | | 150 | 17.53 | 12.96 | |
| Milk and Milk products | Marginal Farmer | 101 | 78.86 | 55.87 | 1.400 ^{NS} | 77 | 151.43 | 50.41 | 0.160 ^{NS} |
| | Small Farmer | 43 | 95.35 | 53.37 | | 59 | 148.31 | 57.73 | |
| | Medium Farmer | 6 | 90.00 | 45.17 | | 9 | 138.33 | 68.74 | |
| | Big Farmer | | | | | 5 | 150.00 | 86.60 | |
| | Total | 150 | 84.03 | 54.98 | | 150 | 149.37 | 55.31 | |
| Fat and Oil | Marginal Farmer | 101 | 16.78 | 3.52 | 1.045 ^{NS} | 77 | 22.21 | 5.88 | 1.174 ^{NS} |
| | Small Farmer | 43 | 17.49 | 2.86 | | 59 | 22.71 | 5.20 | |
| | Medium Farmer | | | | | 9 | 25.56 | 7.26 | |
| | Big Farmer | 6 | 15.83 | 2.04 | | 5 | 25.00 | 8.66 | |
| | Total | 150 | 16.95 | 3.30 | | 150 | 22.70 | 5.81 | |
| Sugar | Marginal Farmer | 101 | 18.61 | 3.09 | 1.172 ^{NS} | 77 | 26.95 | 6.70 | 0.371 ^{NS} |
| | Small Farmer | 43 | 19.19 | 2.16 | | 59 | 27.76 | 7.44 | |
| | Medium Farmer | 6 | 20.00 | 0.00 | | 9 | 27.78 | 9.72 | |
| | Big Farmer | | | | | 5 | 30.00 | 8.66 | |
| | Total | 150 | 18.83 | 2.80 | | 150 | 27.42 | 7.20 | |
| Jaggery | Marginal Farmer | 101 | 0.00 | 0.00 | | 77 | 0.32 | 2.85 | 0.312 ^{NS} |
| | Small Farmer | 43 | 0.00 | 0.00 | | 59 | 0.00 | 0.00 | |
| | Medium Farmer | 6 | 0.00 | 0.00 | | 9 | 0.00 | 0.00 | |
| | Big Farmer | | | | | 5 | 0.00 | 0.00 | |
| | Total | 150 | 0.00 | 0.00 | | 150 | 0.17 | 2.04 | |
| Condiments and Spices | Marginal Farmer | 101 | 10.14 | 1.72 | 2.130 ^{NS} | 77 | 10.01 | 1.56 | 0.695 ^{NS} |
| | Small Farmer | 43 | 10.74 | 1.51 | | 59 | 10.17 | 1.50 | |
| | Medium Farmer | 6 | 10.67 | 1.63 | | 9 | 10.67 | 1.41 | |
| | Big Farmer | | | | | 5 | 9.60 | 2.19 | |
| | Total | 150 | 10.33 | 1.67 | | 150 | 10.10 | 1.54 | |

N.B:- * - Significant at 5% level ($P < 0.05$), NS – Not Significant at 5% level ($P > 0.05$).

Table-1.2.9 presents mean, SD and F-values of different items of food intakes by both the groups of women belonging to different farmer groups. In case of farm women, F-values observed against cereals (0.103), pulses (0.370), green leafy vegetables (1.629), other vegetables (1.625), roots and tubers (1.174), fruits (1.024), fish (2.098), meat (1.131), chicken (0.161), egg (1.696), milk and milk products (1.4), fat and oil (1.045), sugar (1.172) and condiments (2.130) are non-significant at 5% level ($P > 0.05$). This implies, average volumes of consumption of these items by farm women of each farmer group are almost similar. On the other hand, almost similar trend is observed in case of food intakes by the non-farm women of different farmer groups. In this case, F-values observed against cereals (1.197), pulses (0.529), green leafy vegetables (2.307), other vegetables (2.746), roots and tubers (0.313), fruits (1.024), fish (2.894), meat (2.510), chicken (0.780), egg (0.404), milk & milk products (0.160), fat and oil (1.174), sugar (0.371), jaggery (0.312) and condiments (0.695) are non-significant at 5% level ($P > 0.05$). Hence, the quantity of consumption of above food items by the non-farm women remains almost similar in all farmer groups. In this way, the results obtained on analysis of variance

over the nutrients intake by both communities of various farmer groups have been presented in the following table.

Table-1.2.10: Mean, SD and F-tests on Nutrient Intakes of Farm and Non-Farm Women of Different Farmer Categories.

| Nutrients | Farmer Category | Farm Women | | | | Non-Farm Women | | | |
|--------------|-----------------|------------|---------|--------|---------------------|----------------|---------|--------|---------------------|
| | | N | Mean | S.D. | F-value | N | Mean | S.D. | F-value |
| Protein | Marginal Farmer | 101 | 50.16 | 5.54 | 0.391 ^{NS} | 77 | 51.53 | 6.23 | 0.55 ^{NS} |
| | Small Farmer | 43 | 50.54 | 5.12 | | 59 | 52.34 | 5.66 | |
| | Medium Farmer | 6 | 52.06 | 3.99 | | 9 | 51.54 | 6.32 | |
| | Big Farmer | | | | | 5 | 54.72 | 10.06 | |
| | Total | 150 | 50.35 | 5.35 | | 150 | 51.95 | 6.13 | |
| Fat | Marginal Farmer | 101 | 26.82 | 5.89 | 0.542 ^{NS} | 77 | 37.28 | 8.09 | 0.534 ^{NS} |
| | Small Farmer | 43 | 27.90 | 5.96 | | 59 | 37.91 | 7.70 | |
| | Medium Farmer | 6 | 26.45 | 5.18 | | 9 | 40.12 | 10.68 | |
| | Big Farmer | | | | | 5 | 40.60 | 12.61 | |
| | Total | 150 | 27.11 | 5.87 | | 150 | 37.81 | 8.22 | |
| Carbohydrate | Marginal Farmer | 101 | 439.96 | 18.07 | 0.075 ^{NS} | 77 | 398.57 | 37.52 | 0.806 ^{NS} |
| | Small Farmer | 43 | 441.19 | 16.45 | | 59 | 406.39 | 35.15 | |
| | Medium Farmer | 6 | 440.12 | 8.37 | | 9 | 411.49 | 54.41 | |
| | Big Farmer | | | | | 5 | 414.33 | 44.40 | |
| | Total | 150 | 440.32 | 17.26 | | 150 | 402.94 | 37.87 | |
| Calorie | Marginal Farmer | 101 | 2208.83 | 128.69 | 0.248 ^{NS} | 77 | 2144.58 | 227.75 | 0.738 ^{NS} |
| | Small Farmer | 43 | 2225.01 | 125.87 | | 59 | 2184.87 | 212.92 | |
| | Medium Farmer | 6 | 2214.58 | 54.40 | | 9 | 2221.37 | 324.93 | |
| | Big Farmer | | | | | 5 | 2250.77 | 326.13 | |
| | Total | 150 | 2213.70 | 125.43 | | 150 | 2168.58 | 231.14 | |
| Calcium | Marginal Farmer | 101 | 472.79 | 127.64 | 2.538 ^{NS} | 77 | 659.56 | 103.51 | 0.976 ^{NS} |
| | Small Farmer | 43 | 520.19 | 112.84 | | 59 | 649.20 | 118.73 | |
| | Medium Farmer | 6 | 527.15 | 116.36 | | 9 | 593.01 | 102.32 | |
| | Big Farmer | | | | | 5 | 656.67 | 150.77 | |
| | Total | 150 | 488.55 | 124.48 | | 150 | 651.40 | 111.21 | |
| Phosphorus | Marginal Farmer | 101 | 454.47 | 99.02 | 0.738 ^{NS} | 77 | 603.76 | 100.68 | 0.362 ^{NS} |
| | Small Farmer | 43 | 474.41 | 100.46 | | 59 | 604.00 | 101.23 | |
| | Medium Farmer | 6 | 481.31 | 88.83 | | 9 | 569.94 | 88.70 | |
| | Big Farmer | | | | | 5 | 619.21 | 136.92 | |
| | Total | 150 | 461.26 | 98.93 | | 150 | 602.34 | 100.80 | |
| Iron | Marginal Farmer | 101 | 15.36 | 1.48 | 1.668 ^{NS} | 77 | 16.66 | 1.62 | 0.977 ^{NS} |
| | Small Farmer | 43 | 15.81 | 1.21 | | 59 | 16.69 | 1.35 | |
| | Medium Farmer | 6 | 15.76 | 0.79 | | 9 | 15.82 | 1.27 | |
| | Big Farmer | | | | | 5 | 16.87 | 0.49 | |
| | Total | 150 | 15.50 | 1.40 | | 150 | 16.63 | 1.48 | |
| Carotene | Marginal Farmer | 101 | 2083.53 | 336.36 | 0.734 ^{NS} | 77 | 2378.09 | 294.51 | 2.069 ^{NS} |
| | Small Farmer | 43 | 2151.16 | 272.49 | | 59 | 2339.43 | 320.46 | |

| | | | | | | | | | |
|------------|-----------------|-----|---------|--------|---------------------|-----|--------------------|--------|---------------------|
| | Medium Farmer | 6 | 2141.66 | 210.09 | | 9 | 2114.42 | 346.19 | |
| | Big Farmer | | | | | 5 | 2396.51 | 124.68 | |
| | Total | 150 | 2105.25 | 315.16 | | 150 | 2347.68 | 308.12 | |
| Thiamin | Marginal Farmer | 101 | 1.69 | 0.30 | 1.169 ^{NS} | 77 | 1.96 | 0.32 | 0.054 ^{NS} |
| | Small Farmer | 43 | 1.77 | 0.30 | | 59 | 1.97 | 0.35 | |
| | Medium Farmer | 6 | 1.74 | 0.23 | | 9 | 1.93 | 0.43 | |
| | Big Farmer | | | | | 5 | 1.99 | 0.51 | |
| | Total | 150 | 1.72 | 0.30 | | 150 | 1.96 | 0.34 | |
| Riboflavin | Marginal Farmer | 101 | 0.88 | 0.26 | 1.681 ^{NS} | 77 | 1.27 | 0.23 | 0.705 ^{NS} |
| | Small Farmer | 43 | 0.96 | 0.26 | | 59 | 1.25 | 0.25 | |
| | Medium Farmer | 6 | 1.00 | 0.28 | | 9 | 1.15 | 0.19 | |
| | Big Farmer | | | | | 5 | 1.28 | 0.36 | |
| | Total | 150 | 0.91 | 0.26 | | 150 | 1.26 | 0.24 | |
| Niacin | Marginal Farmer | 101 | 20.29 | 0.90 | 0.072 ^{NS} | 77 | 18.01 | 1.61 | 0.929 ^{NS} |
| | Small Farmer | 43 | 20.33 | 0.73 | | 59 | 18.37 | 1.51 | |
| | Medium Farmer | 6 | 20.38 | 0.33 | | 9 | 18.67 | 2.14 | |
| | Big Farmer | | | | | 5 | 18.62 | 1.85 | |
| | Total | 150 | 20.30 | 0.84 | | 150 | 18.21 | 1.61 | |
| Vitamin_C | Marginal Farmer | 101 | 71.68 | 10.84 | 2.191 ^{NS} | 77 | 86.04 ^A | 8.09 | 3.369* |
| | Small Farmer | 43 | 75.52 | 8.63 | | 59 | 84.57 ^A | 8.86 | |
| | Medium Farmer | | | | | 9 | 76.95 ^B | 6.37 | |
| | Big Farmer | 6 | 73.24 | 2.70 | | 5 | 83.51 ^A | 3.38 | |
| | Total | 150 | 72.84 | 10.15 | | 150 | 84.83 | 8.43 | |

N.B:- * - Significant at 5% level ($P < 0.05$), NS – Not Significant at 5% level ($P > 0.05$).

Table-1.2.10 presents mean, SD and F-values of different nutrients intakes by both the groups of women belonging to different farmer groups. In case of farm women, F-values observed against protein (0.391), fat (0.542), carbohydrate (0.075), calorie (0.248), calcium (2.538), phosphorus (0.738), iron (1.668), carotene (0.734), thiamin (1.169), riboflavin (1.681), niacin (0.072) and Vitamin-C (2.191) are non-significant at 5% level ($P > 0.05$). This implies, average volumes of consumption of these items by farm women of each farmer groups are almost similar. On the other hand, almost similar trend is observed in case of nutrients intakes by the non-farm women of different farmer groups. In this case, F-values observed against protein (0.550), fat (0.534), carbohydrate (0.806), calorie (0.738), calcium (0.976), phosphorus (0.362), iron (0.977), carotene (2.069), thiamin (0.054), riboflavin (0.705) and niacin (0.929) are non-significant at 5% level ($P > 0.05$). Hence, the quantity of consumption of above nutrients by the non-farm women remains almost similar in all women groups.

IV. CONCLUSION

It is evident from the above discussion that consumption of food and nutrients of rural women is significantly less than recommended dietary allowances irrespective of their socioeconomic factors except income. Since women faces various unique health issues as compared to male, there is a need for more specific and combined research on women health issues. So there is urgent need to address the public health problem of undernutrition in women. The causative factor of undernutrition in women is not limited to access to adequate and diversified food but is influenced by lack of awareness about balanced diet and health needs, sociocultural constraints etc. These factors directly or indirectly impact on the nutrition situation of women. A number of policies in India address these issues but implementation remains weak. The crucial role of women's nutrition on their right to healthy living as well as for optimizing their productive and reproductive roles be recognised and accorded a high programme priority.

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