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AWARENESS AND CONSUMPTION OF ORGANIC FOOD IN RELATION TO DEMOGRAPHIC FACTORS IN SIVAGANGA DISTRICT

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Abstract

Last 5 years have seen lots of changes in the consumption pattern of individuals with concerns rising constantly on the quality of climate conditions, individuals have become aware about changein climate, increasing pollution, and deteriorating air quality, excessive use of chemicals in the farms, increase of carbon particles in environment and impact on population. Consumers now-a-days arevery particular about the products they are consuming, Thus the concept of organic food product come into picture. This concept is gaining impetus in society especially after increase in health problems in individuals. It refers to using such food product which are eco-friendly and safe. Thepaper is a humble attempt to understand the level of awareness about organic food products in Sivaganga District. This paper also aims at understanding the consumption pattern of individuals in Sivaganga District. Statistical tools like ANOVA, Regression analysis, Chi-square tests and different charts are used to analyse the data obtained from a primary survey conducted in Sivaganga District. On the basis of analysis done in the paper, it is concluded that the consumption has increased lately although more awareness should be created to make the consumption more popular among consumers.

Keywords: Fertilizers; Green Revolution; Organic Farming; Organic Food Products; Pesticides.

Introduction

Organic products are earning lot of impetus in this world now-a-days. Organic products are mainly organic food, or products of cultivation that avoid the artificial and harmful agriculture enhancers like fertilizers or pesticides, insecticides etc. Organic farming has been a traditional way of farming India. Those traditional ways once made India one of the most prosperous countries in the world. All the fertilizers and pesticides were made from plant and animal products which were absolutely non-toxic. But unfortunately, during 1950's and 1960's the combined effect of increasing population and several natural calamities led to scarcity of food and in order to fulfil that ever- growing needs of human beings, Green Revolution gained importance and took birth after 1963. As a result, government was forced to import food grains from foreign countries and drastically increase the food production in India. It has led to massive use of chemicals in the field to enhanceproductivity of crops as well as variety of crops in the market. In this regard there has being total ignorance towards use of natural manures to be used on field. Chemical ones replaced organic and natural fertilizers and pesticides. Hybrid seeds were introduced. Large amount of fields were brought under cultivation. As a result more

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fertilizers were required; factories were set up to fulfilthis requirement. Hence land lost its fertility. As days passed by, pesticides became immune to thechemical pesticides, so there was a need of manufacturing stronger pesticides that were hazardousto human health. Green Revolution was a success in terms of gaining food security but it failed toattain nutritional sustainability.

The excess use of artificial fertilizers, chemical pesticides, food additives etc. has brought immenseloss to human health in India. This is one of the main concerns right now. So, both consumers and farmers are noticed to shift back to organic farming. More people are moving towards use of organic products in their day-to-day life. Now a days we can find a range of organic products in the market like food and beverages, cosmetics, dairy products, electronics, automobiles, FMCG etc. Range and proximity to range of organic products in every field is increasing and have paveda way for organic market.

Organic Farming

Sustainable agriculture and organic farming go hand in hand. They both aim towards a healthy atmosphere for crops to yield. At the same time, it helps to keep health of soil in check. Sustainable agriculture can also be considered as a part of organic farming. Organic agriculture is "A unique production management system which promotes and enhances agro ecosystem, health, including biodiversity, biological cycles and soil biological activity, which is accompanied by using on farm agronomic, biological and mechanical methods in exclusion of all synthetic off-farm inputs" as per FAO. It has become very necessary now a days not only to improve public health condition, but also to reduce the loss incurred due to environmental pollution. It helps to restore food quality and food safety and also reduces agricultural costs. No wonder why the ancestors had led a healthyand blissful life.

According to Agricultural and Processed Food Products Export Development Authority (APEDA), India produced around 1.70 million MT (2017-18) of certified organic products whichincludes all varieties of food products namely Oil Seeds, Sugar cane, Cereals & Millets, Cotton, Pulses, Medicinal Plants, Tea, Fruits, Spices, Dry Fruits, Vegetables, Coffee etc. The production is not limited to the edible sector but also produces organic cotton fiber, functional food products etc.

Among different states Madhya Pradesh is the largest producer followed by Maharashtra, Karnataka, Uttar Pradesh and Rajasthan. In terms of commodities Oil seeds are the single largest category followed by Sugar crops, Cereals and Millets, Fiber crops, Pulses, Medicinal, Herbal and Aromatic plants and Spices and Condiments.

The total volume of export during 2017-18 was 4.58 lakh MT. The organic food export realization was around INR 3453.48 crore (515.44 million USD). Organic products are exported to USA, European Union, Canada, Switzerland, Australia, Israel, South Korea, Vietnam, New Zealand, Japan etc.

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In terms of export value realization Oilseeds (47.6%) lead among the products followed by Cerealsand millets (10.4%), Plantation crop products such as Tea and Coffee (8.96%), Dry fruits (8.88%), Spices and condiments (7.76%) and others.

Benefits of Organic farming:

- **Helps to regulate Pollution:** Pesticides, or other substances used to enhance farming capabilities often constitutes the run off from farms and join drinking water sources causing various environmental issues such as Bio magnification, Eutrophication etc. Since organic farming removes these factors from the quotient of agriculture, they also come with a guilt free conscience.
- **Better health of individuals:** When these pesticides or fertilizers enter water bodies, theyoften start accumulating in fishes, plants etc. When you consume these fishes, the accumulated toxins are released into ythe body bringing disastrous effects such as lead poisoning, Minamata Bay Disease etc. So we see indulging in organic farming can secure a better ticket to health.
- Less exposure to artificial medication: Livestock Rearing comes with injection of antibiotics to lengthen the lifespan of the animals and increase productivity. Organic farming does not involve this procedure; hence, we are safe from these kinds of antibiotics, which otherwise we would be exposed to from consuming meat, eggs or milk.
- **Better Taste:** Organic food almost always taste better due to their organic and environment-friendly way of practicing cultivation. Less use of preservatives and fertilizers go a long way in restoring the natural taste of these food products.
- Availability of Fresh Products: Say goodbye to cold storage food products, by embracingOrganic Food. They do not include preservatives and hence are almost always sold fresh. This is why farmer's markets are such a popular phenomenon in different parts of the worldlike US, Japan etc.
- Reduction in agricultural cost: Organic farming paves the way to use of locally made pesticides as they are much cheaper than the factory-made pesticides which require expensive chemicals. In addition, the fertilizers made in organic manner are much cheaper than the synthetic ones. This can reduce the cost of farming and bring relief to the farmers.

Ways to Do Organic Farming

There are various ways of organic farming for production of organic food products such as compost, manure, green manure, and bone meal and places emphasis on techniques such as crop rotation and companion planting. In general, organic standards are designed to allow the use of naturally occurring substances while prohibiting or strictly limiting synthetic substances. Agnihotra Farming is also a part of Organic Farming. Few examples of organic product attained after applying Agnihotra farming are pulses, lentils, Chana daal, masoor daal, grapes, various vegetables like cauliflower, groundnuts,

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turmeric, wheat, tomato, cucumber, garlic, ginger etc. and positive results had been attained.

Organic Market in India

There are various Companies producing organic products in India. They are Organic Mandya, Mother earth, Madhav ashram trust, Art of Living, Farm 2 Kitchen, Big Basket, Pro-nature organic, Originnel Organic Food, Nature's hub, Nisraga Organic, ISKCON Organic Outlet, Karnataka Organic Farming centre and others.

LITERATURE REVIEW

Priya Soni, a noted researcher has stated in her research paper that, there is a positive attitude towards of customers towards buying organic food in India and is linked to believing that it is healthier, tastes better, and is better for the environment. K. Sundaresh & Dr. S. Babu have givenopinion that it is incidental that socio- economic variables are associated with consumer positive attitude towards organic foods. Family, self-decision and friends play a vital role in the purchase decision-making process of organic foods. The factors eco-friendly and chemical or pesticides freefactor have a great impact on the decision-making process. According to K. Renugadevi & Dr. M. Ramya Organic food product is been accepted as a nutritional food and helps to keep human healthy in spite of busy work schedule, stress and pollution. The short supply and premium price of organic products may disturb the growth of consumption rate. According to S. Suganya and Dr. S. Saravinth in their research concluded that it is evident that people's awareness towards organic products has increased considerably and they are willing to purchase the organic products if it is affordable and available. According to Brijesh Sivathanu. Consumers consider health as an important parameter and then they buy the product, also there are various factors impacting the preference including demographic characteristics of the consumers.

As per study of Konda Kalyani "The system of organic agriculture, especially the system of organic food production, becomes more and more important factor of national and international economic system development. The importance of organic food marketing is conditioned by the fact that it enablesproducers for better understanding of customers' needs serving the purpose of better meeting theirneeds and it also enables consumers to realize better organic products supply. Today's society very excitedly welcomes these concepts and people are in a path to change their lifestyle, food habit. Still it is pity to know that where one group of people rushing up to change their whole lifestyle toorganic there we can note that there is no pint-sized sift in their food habit for the other group. People still lack basic knowledge about organic food, clothing and so on. But High pricing for some organic product is out of reach of common man. Least variety creates dissatisfaction amongthe customer. Last but not the least is the lack of awareness of the organic products. So, it is primetime to buzz the alarm and make everyone alert about the upcoming danger of health issues and walk forward to create a healthy tomorrow for one & all.

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According to Sathyendra Kumar AD, Dr. H. M. Chandrashekar consumer behaviour plays the major role while buying not only organic product any product. So, the organic food shops and product supply is limited but demandfor it, is more. So, the farmers and also the government are thinking to improve or increase production of organic product as well as good packaging, quality and market system. It helps to improve the standard of living farmer and all it healthy to environment and all so it helps to government. The marketers of organic foods need to be innovative and dynamic in order to complete with the changing purchase behaviour in the Organic food products market among urbanresidents. Vishal Kumar Laheri, Purushottam Kumar Arya has stated that, the results of the survey suggested that there is a need for organizing many awareness programs by the government, marketers, and environmental agencies to educate consumers for using ecofriendly products, which are good for their health and at the same time safe for the environment. As per the results of the survey, the price and availability of the organic products are the prime barriers towards its purchase, so the marketers need to focus on such barriers for penetrating the market of organic products in India. Barriers of purchasing organic food products provided by the present study willoffer guidelines to the marketers for understanding the attitude and preferences of consumers towards organic food products.

According to Nayana Sharma and Dr. Ritu Singhvi their study also revealed the availability of the market can influence consumer's preferences and choices for purchasing organic food products. This paper thus provides vital information that there will be more demand of the organically grown food products in coming future, so it's high time for producer, traders, consumer and government itself to focus over the niche market of organic. Singh et al. studied organic cotton farming which helped in garment manufacture in Madhya Pradesh. According to his reports, 80% farmers shifted to organic farming due land quality improvement and at least 36% due to assured market. Sharma explained the factors determining consumer's acceptance and preference for food in general. Many factors combine and interact to make buying a complex process. Price was identified as an important factor; however it had some limitations on the consumer's choice. Factors like sensory attributes regional preference, age, sex, interest, motivation, discrimination and income also influenced food consumption. Shukla et al. conducted a survey to know the consumer response to green market opportunities. It was found that the customers were appraising the organic products on safety to nature and human health and that theirbrand awareness was generally low.

Kubendran and Vanniarajan revealed that the change in consumption pattern is due to the changes in food habits. If income and urbanization increases among consumers the percentage of income spent on consumption increases. The urban consumers prefer mostly branded products compared to rural consumers. The most significant factors influencing buying decisions are accessibility, quality, regular supply, door delivery and the mode of payment.

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OBJECTIVES OF THE RESEARCH

- To study the awareness of organic food in the market among people of Sivaganga District.
- To study briefly the consumption pattern of the consumers in Sivaganga District.
- To give an idea about factors affecting consumption of organic food by the consumers in Sivaganga District.

RESEARCH METHODOLOGY

Primary data had been collected from different locations of Sivaganga District by means of structured questionnaire. The sample size is 105. Convenient sampling has been conducted.

Statistical Techniques Used

- · Chi-square test.
- Proportion test
- ANOVA
- Descriptive analysis
- Regression analysis

ANALYSIS AND FINDINGS

When the percentage of awareness of organic food products was calculated from the data, it was found to be very high. Almost 95% of the respondents had knowledge about organic food products irrespective of all the demographic factors as well as other factors.

Analysis on Awareness and different demographic factors

Now the demographic factors like age, sex, number of family members, marital status and educational qualification are considered. Since the data collection is done in Sivaganga and there are many people staying in Sivaganga are from different states and cities of India for job purposes, so another factor has been taken into consideration. That factor is defined as native and hence gottwo outcomes viz. Sivaganga and outside.

The first demographic factor is Age. The age-group is divided by an interval of 5 years and observed that the number of respondents distributed throughout all the age-groups is not equal.

The interval 25-35 years has maximum number of respondents, while the number is lesser in the edges. So the proportion of respondents aware about organic food in all the age groups is taken into account. The age distribution has a bell-shaped curve and hence is

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normal. To be more sure anormality test is done in software and get p-value = 0.053 > 0.05 and conclude that the age distribution of the population from where the sample is drawn is normal.

Table 1: Proportion of people of different age-groups aware about organic food.

Age- group	Aware about organi food	cTotal no. o respondents	fProportion of awareness
20-24	12	13	0.923077
25-29	25	26	0.961538
30-34	37	39	0.948718
35-39	17	17	1
40-44	6	7	0.857143
45-49	2	2	1
>50	1	1	1
Total:	100	105	0.952381

Next, a proportion test is conducted to find out whether it can be suggested that the proportions ofknowledge of organic food products are equal in all age-groups. Thus, the null hypothesis is H_1 : The proportions are equal against H_1 ': At least one proportion is not equal. The p-value = 0.8448 > 0.05. Hence the null hypothesis is accepted and hence can be concluded that the proportions in all the age groups are equal for the population from where the sample has been drawn. In addition, it has been already found out that the age-distribution is normal. Mean cannot be calculated here as there is open-end class. So the median is calculated as an average and it is equal to 31.26 years. It means that the average age of respondents knowing aboutorganic food in 31.26 years.

Next demographic variable to be considered is Gender. In the sample the number of male and female respondents are not equal.

The table reveals that number of female respondents in the data is much more than that of male respondents. Hence a proportion test I done for the two groups. The null hypothesis is H_2 : The proportions of respondents aware about organic food for both male and female are equal against the alternative hypothesis H_2 : The proportions are not equal.

The p-value is very high which is 0.9 > 0.05. Hence null hypothesis is accepted and concluded that the proportions are equal for the population.

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The Table 2 represents the number of aware respondents considered age-wise and sexwise. Hence a two-way table is obtained.

Table 2: Awareness of organic food according to age and sex together

Age-	group Gender	Female	Male	Total
20-24		7	5	12
25-29		21	4	25
30-34		18	19	37
35-39		11	6	17
40-44		4	2	6
45-49		2	0	2
>50		1	0	1
Total:		64	36	100

A two-way ANOVA test is conducted where the null hypothesis H₃: The means in all agegroups are equal and means for male and female are equal against the alternative hypothesis H₃': At leastone mean in the age groups are not equal and Means of female and male are not equal.

The ANOVA table thus obtained is Table 3:

Table 3: Two-way ANOVA table for age and sex

ANOVA						
Variation	SS	DF	MS	F	P-value	F critical
Rows	519.7143	6	86.61905	4.812169	0.038692	4.283866
Columns	56	1	56	3.111111	0.128213	5.987378
Error	108	6	18			
Total	683.7143	13				

P-value for rows i.e for age is 0.038692 < 0.05 which implies rejection of null hypothesis for the age-groups. It can be said that at least one mean is not equal to the other means. On the other handp-value for columns i.e for sex is 0.128213 > 0.05. This suggests the acceptance of the null hypothesis for sex. It can be concluded that the means for both male and female respondents are equal. It means that sex has no effect on the awareness of organic food products but age has.

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Next the marital status is taken as the next demographic variable. Two options are there, namely married and single. In the data number of married people is high in numbers, so the proportion test is performed for the two groups. The null hypothesis is stated as H₄: The proportions of respondents aware about organic food for both married and single are equal against the alternative hypothesis H₄': The proportions are not equal.

The p-value is very high which is 0.9 > 0.05. Hence null hypothesis is accepted and concluded that the proportions are equal for the population.

Educational qualification is yet another key factor for awareness of organic food. Five levels are mentioned here, namely Doctorate, PG, Graduation, Higher Secondary, Secondary but none of the respondents had been recorded as Higher secondary. So finally, 4 levels are considered.

Maximum of the respondents are post-graduates. Hence the proportion test is performed. The nullhypothesis is stated as H_5 : The proportions of respondents aware about organic food for all levels of education are equal against the alternative hypothesis H_5 : The proportions are not equal. The p-value is very high which is 0.4177 > 0.05. Hence null hypothesis is accepted and concluded that the proportions are equal for the population.

Another demographic factor considered in this study is native. Here it has been considered whetherpeople staying in Sivaganga are originally from Sivaganga or from some other place. Reason for considering this factor is the fact that many people from outside come and stay in Sivaganga for jobs.

In this case also the proportion test is performed. The null hypothesis is stated as H₆: The proportions of respondents aware about organic food for the location of natives are equal against the alternative hypothesis H₆': The proportions are not equal.

The p-value is very high which is 0.9 > 0.05. Hence null hypothesis is accepted and concluded that the proportions are equal for the population.

Next Chi-square test of independence is conducted for all the demographic factors to test whether the awareness of organic food is independent of the demographic factors. Hence the following hypotheses are stated.

 H_{01} : Awareness is independent of age-groups H_{11} : it is not independent. H_{02} : Awareness is independent of sex H_{12} : it is not independent.

 H_{03} : Awareness is independent of education H_{13} : it is not independent. H_{04} : Awareness is independent of marital status H_{14} : it is not independent.

 H_{05} : Awareness is independent of native location H_{15} : it is not independent.

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Table 4: Chi-square test for different demographic factors.

Demographic Factors	Chi-square value	D.F.	P-value	Comparison	Decision
Age	2.706	6	0.8448	> 0.05	Accept
Gender	4.9 X 10 ⁻³¹	1	0.9	> 0.05	Accept
Education	2.835	3	0.4177	> 0.05	Accept
Marital Status	1.8 X 10 ⁻³⁰	1	0.9	> 0.05	Accept
Place	3.1 X 10 ⁻³¹	1	0.9	> 0.05	Accept

It is found that the awareness about organic food is independent of all the demographic factors.

People were asked whether they are aware about advantages of organic food, 90% of respondentsgave positive response while only 10% said no.

Analysis on awareness of advantages of organic food

Next respondents were asked about the advantages, maximum people said it is a great option of ahealthy lifestyle which is very important these days. Also people are aware that pesticides are notused in such kind of food, so it is less harmful and toxic. Some people are also aware about the sustainable development of the environment as organic farming reduces environmental pollution.

A peculiar pattern is observed when the data regarding number of people having knowledge aboutorganic food and preferring it has been plotted. It can be assumed that those who have knowledge of advantage of organic food will prefer to consume it and those who do not have any knowledgewill not prefer. But in this case it was found that only 70.5% of respondents having knowledge, prefer organic food. A chi-square test of independence is performed between these two factors. The hypothesis is stated as H_{06} : Knowledge about advantage of organic food and preference are independent against the alternative hypothesis H_{16} : They are not independent. The p-value < 0.05 suggests that having knowledge and preferring organic food are not independent of each other.

All previous discussions revolved around the awareness of organic food among the respondents, also about its advantage and its relation to the choice of food. Next the important point to discussis about the consumption and factors affecting consumption of organic food among the consumers.

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Analysis on consumption pattern of consumers in accordance to their income and availability of organic food

According to the data, only 11% of the respondents solely consume non-organic food. 17% people consume only organic food products which is low, while 72% people consume both organic and non-organic food. So it is very clear that maximum people do not depend solely on organic food on daily basis.

It is observed that maximum number of respondents spend 0-10% of their total spending on food in buying organic food products while second highest number of people spend 90-100%. The mean is calculated which is equal to 27.42%, that means people spend average of 27.42% of their total spending on food in consumingorganic food products every month. This figure is very low. The standard deviation is equal to 27.2%. This high value of S.D. suggests that although the mean is less, the variation of the percentage is not less. The data shows, maximum number of respondents belong to the last group i.e. 8 lakhs and above. Since the income distribution is not uniformly distributed, chi-square test of independence is performed stating the null hypothesis H_{07} : Preference of organic food is independent of the income groups against the alternative hypothesis H_{17} : They are not independent. The p-value = 0.3055 >0.05 concludes that the preference is independent of the income levels.

A chi-square test of independence is done stating the null hypothesis H_{08} : consumption of different types of food is independent of the income groups against the alternative hypothesis H_{18} : They are not independent. The p-value = 0.0777 > 0.05 concludes that the consumption is independent of the income levels.

A two-way ANOVA test is conducted where the null hypothesis H_{09} : The means in all income-groups are equal and means for all types of food are equal against the alternative hypothesis H_{19} : At least one mean in the income-groups are not equal and means of all types of food consumptionare not equal.

The ANOVA table is represented as Table 5:

Table 5: Two-way ANOVA table for income and consumption

ANOVA						
Variation	SS	df	MS	F	P-value	F critical
Rows	710.9167	3	236.9722	2.305053	0.176642	4.757063
Columns	604.5	2	302.25	2.940016	0.128825	5.143253
Error	616.8333	6	102.8056			
Total	1932.25	11				

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P-value for rows i.e for income is 0.176652 > 0.05 which implies that null hypothesis is accepted for the income-groups. It can be said that means are equal for all income groups. On the other handp-value for columns i.e for consumption is 0.128825 > 0.05. This suggests null hypothesis is accepted for consumption. It can be concluded that the means for different types of consumption are equal. It means both income and consumption are insignificant for each other.

Places of availability	Availability in vicinity	Prefer organic food	Proportion preferring organic food
In the area in local market	13	12	0.923
In the area in super markets	49	29	0.591
Online shops like Bigbasket, Grofers etc	40	24	0.6
Organic food store	1	1	1
Don't know	2	1	0.5

A chi-square test of independence is conducted with the null hypothesis H_{010} : Availability and preference are independent against alternative hypothesis H_{110} : They are not independent. The p- value = 0.0198 < 0.05 suggests the rejection of null hypothesis and establishes that availability and preference are not independent.

Reasons for consuming and not consuming organic food:

People started to have organic food for about 25 years but most of the people has started very recently in 0-5 years. Reasons for not consuming organic food are mentioned in figure 20. Most of the people believe that it cannot be consumed on daily basis as it is costly.

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Since the most popular reason for not consuming organic food is that it is expensive, so the annual income of those people who had claimed like that were brought under observation and hence the following results.

It was found that 3% belonged to the lowest income group considered in the survey while 67% belonged to the highest income group. Evidently cost is not the actual reason for people belonging to high income group to avoid consumption of organic food. The reason is something else which is either not stated by them or they simply ignore the goodness of organic food to save money. Whatever be the reason, this outcome is unfortunate.

Limitations of the Study

- Data on all age-group are not uniformly distributed.
- Data on all occupation are not uniformly distributed.
- Data on all marital status are not uniformly distributed.
- Data on all educational qualification are not uniformly distributed.
- Data on all sex are not uniformly distributed.
- The sample size is small

CONCLUSION

From the above data interpreted it is evident that the consumption of organic food has raised in last five years, but it should have raised more than what has actually happened. People are well aware of organic food and the benefits driven from it. Consumption of such products will reduce health hazards giving a blissful life. In fact, consumers, irrespective of all age-groups, income and educational qualification have enough knowledge regarding this. But a good number of people arefound to ignore this fact and avoid consuming them (organic products). Most of these people havegiven excuse of such products for being expensive although they themselves belong to high income-group. Consumption also depends on the availability of such products in nearby places. Since life in Sivaganga District is very busy, many people do not get ample time to look for organic products if they are not easily available, although there is already a solution to this. Such products can easily be found in the online grocery apps. There are also many people who have included organic food in their diet but have not given up non-organic products either. They prefer both kindof food. According to the survey, such people spend 27% of their budget on food on an average for organic food and rest on non-organic. Only 17% of all consumers were found to depend on organic food products totally. In fact, very few people are found to be dependent on such products for more than 10 years.

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Advertisements and promotional programs should be conducted to create more awareness about the positive effects of using organic products and consumers should be deliberately discouraged toconsume non-organic food items. Commercial advertisements should be made showing health hazards occurring or may occur due to the harmful manure and chemicals (pesticides, fertilizers, weedicides etc) used for mass production of vegetables and fruits, just in the way outcomes of tobacco are being shown to people in movie theatres. This can be an effective way to motivate therich and educated part of the society. The products should be made more available to people both easily and economically. If people compare and find that price of non-organic vegetables cheaper than organic ones, automatically they will have developed tendency to move towards non-organiceven knowing its bad effects. This is the place where government can play an effective role by reducing the price of organic food. Government can take various measures to promote production, consumption and advertisement of organic products.

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