https://www.ijresm.com | ISSN (Online): 2581-5792

# Consumer Awareness and Acceptance of Sugar Baby and Century Watermelons

Amy Masih<sup>1\*</sup>, Manpreet Kaur<sup>2</sup>

<sup>1,2</sup>Department of Food Science and Technology, I. K. Gujral Punjab Technical University, Kapurthala, India

Abstract: Watermelon (Citrullus lanatus) is very popular and nourishing fruit in the world. It belongs to Cucurbitaceae family. This study was done to analyze the consumer awareness of different varieties of watermelons. Varieties such as Sugar Baby and Century were taken to determine consumer awareness. Data was collected from 200 panelists by generating google form. To analyze the results descriptive and inferential statistics were used. Most of the panelist in this study were female with modern education. 77.9% of panelist were aware about Sugar Baby watermelon and around 79.2% of them have consumed it. 80.6% of them were aware about Century Watermelon but 80.4% of them have consumed it. Due to the underutilization of this crop peoples do not know that this crop does exist. This study was done so that people may know that these varieties also exist and can be utilized and consumed.

*Keywords*: Awareness, Century, consumption, *Citrullus lanatus*, Fruit, Nutritious, Sugar Baby.

### 1. Introduction

Watermelon (Citrullus lanatus) is a plant species in the family Cucurbitaceae, which was originally originated in Africa. Cucurbitaceae family is ranked among the highest in the plant species and most of this species is used for consumptions by humans. It is a large, sprawling annual plant with coarse, hairy pinnately-lobed leaves and yellow flowers with deep green smooth thick exterior rind with grey or light green vertical stripes, inside the fruit is red in colour with small black seeds embedded in the middle third of the flesh. Watermelons range in shape from round to oblong (Seed and Techniques 2014). As the production of crop increases annually there have been enormous challenges in agro waste management. Utilising discarded fruits and value addition of agro waste helps in reduction of environmental impacts (Souad et al. 2012).

Watermelon is usually developed all around the world and generally grow in warm season. (Alam et al. 2013). Waste generated during utilisation of watermelon can be used to produce various by products. Seed oil can be extracted from watermelon seeds which can be used for cooking (Biswas et al. 2017). Products such as jam can be prepared by using watermelon rind and seeds (Quadri and Rao 2018). Bakery products such as cakes can be prepared from watermelon rinds (Al-sayed and Ahmed 2013).varieties such as Sugar baby and Century are underutilised and are little known. Research carried for consumer acceptance of watermelon varieties is not done

yet. By this study we can know about consumer knowledge, acceptance of these varieties and comparison between consumption of both varieties of watermelon.

# 2. Material and Method

# A. Consumer Awareness and Acceptance of Sugar Baby and Century Watermelon

The study was undertaken in the Kapurthala which is north western geopolitical zone of Punjab. Watermelons were selected from this region because it is the major contributor for the growth of Sugar Baby and Century watermelon. Sampling involved selection of Watermelon varieties from local farmer's market. To know about awareness regarding varieties of watermelon around 200 respondents were selected. Google forms were generated and consigned to individual. To assess the socioeconomic characteristics and knowledge of consumption, existence, acceptance of both varieties for respondent's descriptive statistics was used. To examine the relationship between respondent's acceptance characteristics of Century and Sugar Baby Watermelon Chisquare analysis was used.

# 3. Result and Discussion

Table 1
Respondent's Socioeconomic Characteristics

Characteristic	Frequency	Percentage
Age	• •	Š
<20	35	9.6
20-29	88	44.4
30-39	39	19.7
40-49	17	8.6
>49	19	9.6
Sex		
Male	92	46
Female	108	54
Education		
Primary	3	1.5
Secondary	46	23.1
Graduation	93	46.7
Post-graduation	34	17.1
Doctorate	9	4.5
No former education	3	1.5
Marital status		
Single	107	54.6
Married	87	444
Other	2	1

<sup>\*</sup>Corresponding author: amymasih52@gmail.com

According to the Table 1., data obtained from google form it was seen that peoples of age between 20-29 shows major contribution for the consumer awareness of watermelons from overall panellist. Maximum frequency of these peoples was 88 i.e., 44.4%. peoples of 40-49 shows minor contribution among the consumer awareness of watermelon i.e., 17 i.e., 8.6 % among overall panellist. It was seen that 106 females show major contribution i.e., 55.20 % and 86 males show contribution i.e., 44.8% among overall panellists. Among all panellist maximum peoples were graduated. 93 peoples were graduated i.e., 46.7%. least of them i.e., 3 peoples were having primary or no former education i.e., 1.5%. significantly it was seen that 107 peoples were single in case of marital status i.e., 54.6% and 87 of them were married i.e., 44.4%.

Table 2 Respondent's Awareness and consumption of watermelons

Respondent's Awareness and consumption of watermeions			
Characteristic	Frequency	Percentage	
Place from where they buy fruits –			
Natural or speciality stores	42	21.3	
Large/corporate food stores	52	26.4	
Small/ locally owned food stores	54	27.4	
Local farmer's market/ open air market	49	24.9	
Consumption of Watermelons-			
Yes	177	91.2	
No	15	7.7	
Maybe	2	1	
Know about health benefits of			
watermelon from –	79	40.5	
Internet	105	53.8	
Word of mouth	76	39	
Newspaper articles and writeups by	55	28.2	
dieticians	10	5.1	
Handouts and under the influence of other			
consumers			
I don't know			
Money spent on buying watermelon-	17	32	
≤ 500			
≥500	33	62	
Reason for including watermelon in diet –			
To fill nutritional gap	103	52.6	
To enhance metabolic activity	107	54.6	
To enhance immunity of the body	104	53.1	
To complete diet intake of the diet	103	52.6	
To enhance growth and development of the	97	49.5	
body	94	48	
To enhance stamina and energy	6	3.1	
Do not consume			
Part of watermelon consumed –			
Pulp/flesh	155	81.6	
Juice	144	75.8	
seeds	60	31.6	

From Table 2., it came to know that mostly peoples prefer to buy watermelons from small or locally owned stores. 54 peoples i.e., 27.4 % were who used to buy from fruits from small/locally owned food stores i.e., Least of them prefers to buy watermelons from natural or speciality stores. 42 peoples i.e., 21.3%. around 177 peoples i.e., 91.2 % of them consumes watermelon and rest of 17 peoples i.e., 8.7% may or may not consume watermelons. According to this survey different sources were mentioned in case of health benefits. Major source from which peoples came to know about health benefits was word of mouth. 105 peoples i.e., 53.8% of them knows about health benefits as per the health benefits. Maximum money i.e.,

≥500 rupees which was spent for buying watermelons were in case of 33 peoples i.e., 62% and minimum i.e.,  $\leq$  500 rupees was seen in case of 33 peoples i.e., 62 % among all. Most of the peoples 107 i.e., 54.6% that main reason of watermelon consumption on their diet was to enhance their metabolic activity and least 6 peoples i.e., 3.1% were those who don't even consumes the watermelons. It was seen that maximum 155 peoples i.e., 81.6 % were those whose who prefers to eat pulp/flesh of watermelon and least 60 peoples i.e., 31.6 % were those who prefers to consumes watermelon seeds.

Table 3

Awareness of Sugar baby watermelon –         1           Yes         1           No         2           Maybe         1           Consumption of Sugar baby watermelon –         Yes	152 25 18	77.9 12.8 9.2
Yes         1           No         2           Maybe         1           Consumption of Sugar baby watermelon –         Yes	25 18	12.8
No 2 Maybe 1  Consumption of Sugar baby watermelon – Yes 1	25 18	12.8
Maybe 1 Consumption of Sugar baby watermelon – Yes 1	18	
Consumption of Sugar baby watermelon – Yes 1	156	9.2
Yes 1		
* **		
No 1		79.2
	18	9.1
	23	11.7
Likeness appearance of Sugar baby		
watermelon –	10	5
Not at all $-0-1$	52	31
2 – 3	128	64
Too much $-4-5$		
Likeness taste of Sugar baby watermelon –		
Not at all $-0-1$	3	4
2-3	13	21.5
Too much $-4-5$	149	74.5
Likeness colour of Sugar baby watermelon –		
Not at all $-0-1$	3	4
2-3	17	23.5
	145	72.5
Likeness of smell of Sugar baby watermelon		
- 6	5	3
Not at all $-0-1$	17	23.5
2 – 3	147	73.5
Too much $-4-5$		
Awareness of health benefits of Sugar baby		
watermelon –	11	55
Not at all $-0-1$	54	27
2-3	135	67.5
Too much $-4-5$		
Number of members in the respondent's		
family consuming Sugar baby watermelon –		
0-1	2	1.1
2-3	55	34.2
4 and more 1	110	57.9
none 1	13	6.8

In Table 3., case of Sugar Baby watermelon around 152 peoples i.e., 77.9 % of peoples were significantly aware about this variety and 18 peoples i.e., 9.2% were not sure about this variety. In case of consumption of sugar baby watermelon 156 peoples i.e., 79.2% were those who consumes this variety in major proportion and 18 peoples i.e., 9.2% were not sure that whether they consumed it or not. According of likeness of appearance it was seen that 128 peoples i.e., 64 % of them liked too much and 10 peoples i.e., 5% of them do not like appearance at all. In case likeness of taste 149 peoples i.e., 74.5% liked taste too much and 8 peoples i.e., 4% do not like taste of sugar baby at all. According to colour 145 peoples i.e., 72.5% liked the colour of sugar baby and 8 peoples i.e., 4% of them do not like colour of sugar baby at all. 147 peoples i.e., 73.5% of them like

the smell of sugar baby too much and 6 peoples i.e., 3 % do not like colour of sugar baby at all. In case of health benefits 135 peoples i.e., 67.5 among all were aware about health benefits of sugar Baby watermelon and 11 peoples i.e., 5.5% of them were not aware of health benefits of sugar baby watermelon. According to their family members 110 peoples i.e., 57.9% said in their families 4 and more peoples consume sugar baby watermelon and 2 peoples i.e., 1.1% said that minimum one people generally consumes sugar baby watermelon in their families.

> Table 4 Respondent's Awareness and consumption of watermelons

Characteristic         Frequency         Percentage           Awareness of Century watermelon –         154         80.6           No         21         11           Maybe         16         8.4           Consumption of Century watermelon –         152         80.4           No         18         9.5           Maybe         19         10.1           Likeness appearance of Century watermelon –         9         4.5           Not at all – 0 – 1         58         29           2 – 3         133         66.5           Too much – 4 – 5         148         74           Likeness taste of Century watermelon –         7         3.5           Not at all – 0 – 1         7         3.5           2 – 3         57         28.5           Too much – 4 – 5         138         69           Likeness of smell of Century watermelon –         6         3           Not at all – 0 – 1         6         3           2 – 3         51         25.5           Too much – 4 – 5         143         71.5           Awareness of health benefits of Century watermelon –         11         5.5           Not at all – 0 – 1         48         24 <th colspan="4">Respondent's Awareness and consumption of watermelons</th>	Respondent's Awareness and consumption of watermelons			
Yes       154       80.6         No       21       11         Maybe       16       8.4         Consumption of Century watermelon – Yes       152       80.4         No       18       9.5         Maybe       19       10.1         Likeness appearance of Century watermelon –       9       4.5         Not at all – 0 – 1       58       29         2 – 3       133       66.5         Too much – 4 – 5       148       74         Likeness taste of Century watermelon –       7       3.5         Not at all – 0 – 1       5       2.5         2 – 3       57       28.5         Too much – 4 – 5       138       69         Likeness of smell of Century watermelon –       6       3         Not at all – 0 – 1       6       3         2 – 3       51       25.5         Too much – 4 – 5       143       71.5         Awareness of health benefits of Century watermelon –       11       5.5         Not at all – 0 – 1       48       24         2 – 3       141       70.5         Too much – 4 – 5       148       24         Number of members in the respondent's family		Frequency	Percentage	
No         21         11           Maybe         16         8.4           Consumption of Century watermelon – Yes         152         80.4           No         18         9.5           Maybe         19         10.1           Likeness appearance of Century watermelon –         9         4.5           Not at all – 0 – 1         58         29           2 – 3         133         66.5           Too much – 4 – 5         148         74           Likeness taste of Century watermelon –         7         3.5           Not at all – 0 – 1         5         22.5           Too much – 4 – 5         138         69           Likeness of smell of Century watermelon –         6         3           Not at all – 0 – 1         6         3           2 – 3         51         25.5           Too much – 4 – 5         143         71.5           Awareness of health benefits of Century watermelon –         11         5.5           Not at all – 0 – 1         48         24           2 – 3         141         70.5           Too much – 4 – 5         148         24           Number of members in the respondent's family consuming Century watermelon –				
Maybe		-	80.6	
Consumption of Century watermelon - Yes	No	21		
Yes       152       80.4         No       18       9.5         Maybe       19       10.1         Likeness appearance of Century watermelon       9       4.5         Not at all - 0 - 1       58       29         2 - 3       133       66.5         Too much - 4 - 5       133       66.5         Likeness taste of Century watermelon -       7       3.5         2 - 3       45       22.5         Too much - 4 - 5       148       74         Likeness colour of Century watermelon -       5       2.5         Not at all - 0 - 1       5       2.5         2 - 3       57       28.5         Too much - 4 - 5       138       69         Likeness of smell of Century watermelon -       0       0         Not at all - 0 - 1       6       3         2 - 3       51       25.5         Too much - 4 - 5       143       71.5         Awareness of health benefits of Century watermelon -       11       5.5         Not at all - 0 - 1       48       24         2 - 3       141       70.5         Too much - 4 - 5       148       24         Number of members in the respon		16	8.4	
No       18       9.5         Maybe       19       10.1         Likeness appearance of Century watermelon       9       4.5         Not at all - 0 - 1       58       29         2 - 3       133       66.5         Too much - 4 - 5       133       66.5         Likeness taste of Century watermelon -       7       3.5         2 - 3       45       22.5         Too much - 4 - 5       148       74         Likeness colour of Century watermelon -       5       2.5         Not at all - 0 - 1       5       2.5         2 - 3       57       28.5         Too much - 4 - 5       138       69         Likeness of smell of Century watermelon -       6       3         Not at all - 0 - 1       6       3         2 - 3       51       25.5         Too much - 4 - 5       143       71.5         Awareness of health benefits of Century watermelon -       11       5.5         Not at all - 0 - 1       48       24         2 - 3       141       70.5         Too much - 4 - 5       10       8       4         Number of members in the respondent's family consuming Century watermelon -       8<	Consumption of Century watermelon –			
Maybe       19       10.1         Likeness appearance of Century watermelon       9       4.5         Not at all - 0 - 1       58       29         2 - 3       133       66.5         Too much - 4 - 5       148       66.5         Likeness taste of Century watermelon -       7       3.5         Not at all - 0 - 1       7       3.5         2 - 3       45       22.5         Too much - 4 - 5       148       74         Likeness colour of Century watermelon -       5       2.5         Not at all - 0 - 1       6       3         2 - 3       51       25.5         Too much - 4 - 5       143       71.5         Awareness of health benefits of Century watermelon -       11       5.5         Not at all - 0 - 1       48       24         2 - 3       141       70.5         Too much - 4 - 5       Number of members in the respondent's family consuming Century watermelon -       8       4         0-1       8       4       4         2-3       64       34.4         4 and more       101       54.3		152	80.4	
Likeness appearance of Century watermelon  Not at all - 0 - 1 2 - 3 Too much - 4 - 5  Likeness taste of Century watermelon - Not at all - 0 - 1 2 - 3 Too much - 4 - 5  Likeness colour of Century watermelon - Not at all - 0 - 1 2 - 3 Too much - 4 - 5  Likeness colour of Century watermelon - Not at all - 0 - 1 2 - 3 Too much - 4 - 5  Likeness of smell of Century watermelon - Not at all - 0 - 1 2 - 3 Too much - 4 - 5  Likeness of smell of Century watermelon - Not at all - 0 - 1 2 - 3 Too much - 4 - 5  Likeness of health benefits of Century watermelon - Not at all - 0 - 1 2 - 3 Too much - 4 - 5  Awareness of health benefits of Century watermelon - Not at all - 0 - 1 2 - 3 Too much - 4 - 5  Number of members in the respondent's family consuming Century watermelon - 0-1 2-3 4-5 2-5 4-5 22.5 25-5 25-5 25-5 25-5 25-5 25-5 25	No	18	9.5	
Not at all - 0 - 1	Maybe	19	10.1	
Not at all - 0 - 1	Likeness appearance of Century watermelon			
2 - 3 Too much - 4 - 5  Likeness taste of Century watermelon - Not at all - 0 - 1	_	9	4.5	
Too much - 4 - 5  Likeness taste of Century watermelon - Not at all - 0 - 1	Not at all $-0-1$	58	29	
Likeness taste of Century watermelon –       7       3.5         Not at all – 0 – 1       7       3.5         2 – 3       45       22.5         Too much – 4 – 5       148       74         Likeness colour of Century watermelon –       5       2.5         Not at all – 0 – 1       5       28.5         Too much – 4 – 5       138       69         Likeness of smell of Century watermelon –       6       3         Not at all – 0 – 1       6       3         2 – 3       51       25.5         Too much – 4 – 5       143       71.5         Awareness of health benefits of Century watermelon –       11       5.5         Not at all – 0 – 1       48       24         2 – 3       141       70.5         Too much – 4 – 5       Number of members in the respondent's family consuming Century watermelon –       8       4         0-1       8       4       4         2-3       64       34.4         4 and more       101       54.3	2 - 3	133	66.5	
Not at all - 0 - 1       7       3.5         2 - 3       45       22.5         Too much - 4 - 5       148       74         Likeness colour of Century watermelon -       5       2.5         Not at all - 0 - 1       5       2.5         2 - 3       57       28.5         Too much - 4 - 5       138       69         Likeness of smell of Century watermelon -       6       3         Not at all - 0 - 1       6       3         2 - 3       51       25.5         Too much - 4 - 5       143       71.5         Awareness of health benefits of Century watermelon -       11       5.5         Not at all - 0 - 1       48       24         2 - 3       141       70.5         Too much - 4 - 5       Number of members in the respondent's family consuming Century watermelon -       8       4         0-1       8       4       34.4         2-3       64       34.4         4 and more       101       54.3	Too much $-4-5$			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Likeness taste of Century watermelon –			
Too much - 4 - 5  Likeness colour of Century watermelon - Not at all - 0 - 1	Not at all $-0-1$	7	3.5	
Likeness colour of Century watermelon –  Not at all – 0 – 1	2 - 3	45	22.5	
Not at all - 0 - 1	Too much $-4-5$	148	74	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Likeness colour of Century watermelon –			
Too much - 4 - 5  Likeness of smell of Century watermelon - Not at all - 0 - 1	Not at all $-0-1$	5	2.5	
Likeness of smell of Century watermelon –  Not at all – 0 – 1	2 - 3	57	28.5	
Not at all - 0 - 1	Too much $-4-5$	138	69	
Not at all - 0 - 1				
2 - 3 Too much - 4 - 5  Awareness of health benefits of Century watermelon - Not at all - 0 - 1 2 - 3 Too much - 4 - 5  Number of members in the respondent's family consuming Century watermelon - 0-1 2-3 48 24 141 70.5  Number of members in the respondent's family consuming Century watermelon - 0-1 2-3 4 4 and more 101 54.3	Likeness of smell of Century watermelon –			
Too much - 4 - 5  Awareness of health benefits of Century watermelon -  Not at all - 0 - 1 2 - 3  Too much - 4 - 5  Number of members in the respondent's family consuming Century watermelon - 0-1 2-3 48 48 24 70.5  Number of members in the respondent's family consuming Century watermelon - 0-1 2-3 48 4 4 and more 101 54.3	Not at all $-0-1$	6	3	
Awareness of health benefits of Century watermelon –	2 - 3	51	25.5	
watermelon –     11     5.5       Not at all – 0 – 1     48     24       2 – 3     141     70.5       Too much – 4 – 5     70.5       Number of members in the respondent's family consuming Century watermelon –     8     4       0-1     8     4       2-3     64     34.4       4 and more     101     54.3	Too much $-4-5$	143	71.5	
Not at all - 0 - 1	Awareness of health benefits of Century			
2 - 3 Too much - 4 - 5  Number of members in the respondent's family consuming Century watermelon - 0-1 2-3 4 and more  141 70.5  8 4 4 101 54.3	watermelon –	11	5.5	
Too much – 4 – 5  Number of members in the respondent's family consuming Century watermelon – 0-1 2-3 4 and more  0-1 54.3	Not at all $-0-1$	48	24	
Number of members in the respondent's family consuming Century watermelon – 0-1	2 - 3	141	70.5	
family consuming Century watermelon – 0-1	Too much $-4-5$			
0-1 8 4 2-3 64 34.4 4 and more 101 54.3	Number of members in the respondent's			
2-3 64 34.4 4 and more 101 54.3	family consuming Century watermelon –			
4 and more 101 54.3	0-1	8	4	
	2-3	64	34.4	
None 13 7	4 and more	101	54.3	
	None	13	7	

In Table 4., in case of Century watermelons around 154 peoples i.e., 80.6% were aware about this variety and 16 peoples i.e., 8.4% were not sure about awareness of this variety. Around 152 peoples i.e., 80.4 % among all has consumed century watermelon and 18 peoples i.e., 9.5 % did not consumed century watermelon. Around 133 peoples i.e., 66.5% liked appearance of century watermelon too much and 9 peoples i.e., 4.5% were those who do not like appearance at all. According to the likeness of taste of century watermelon 148 peoples i.e., 74 % of them liked the taste of century watermelon too much and 7 peoples i.e., 3.5% do not like taste at all. In case of likeness of colour 138 peoples i.e., 69 % were those who liked colour too much and 5 peoples i.e., 2.5% of them do not like colour at all. 143 peoples i.e., 71.5% were those who liked

smell of century watermelon too much and 6 peoples i.e., 35 of them do not like smell of century watermelon at all. In case of health benefits 141 peoples i.e., 70.5 % were those who were aware about health benefits too much and 11 peoples i.e., 5.5% were those who were not aware about health benefits at all. According to their families 101 peoples i.e., 54.3% among all were those in which around 4 and more of family members who consumes century watermelons and 8 peoples i.e., 4% was those in which only one people prefers to eat century watermelon in their families.

Table 5

Respondent's Awareness and consumption of watermelons			
Characteristic	Frequency	Percentage	
Motivation behind buying Sugar Baby and Century watermelon	113	59.8	
Nutritional information – Under the influence of TV	89 101	47.1 53.4	
commercial and media	97	51.3	
Packaging	104	55	
Reasonable price and quality	9	4.8	
Taste and variety			
none Preference among varieties –			
Sugar Baby	135	75.4	
Century	44	24.6	
None	0	0	
Consumption of any product			
made from watermelon –	161	88.6	
Yes	18	9.7	
No	7	3.8	
Maybe			
Parts of watermelon generated as waste after its consumption	63	33.5	
Rind/ outer covering	117	62.2	
Pomace/ remaining pulp after	8	4.3	
extraction of juice			
Seed			
Views about waste from			
watermelon can be used to make			
new by-products –	150	78.5	
Yes No	10	5.2 16.2	
Maybe	31	10.2	
Kind of by-products can be	Compost		
produced from watermelon waste	Pickles		
	Animal food		
	Value added food such as cheese		
	from white part of rind.		
	• Jelly		
	Phytochemicals		
	• Cake		
	Medicine		
	Manure     Tull Cl		
	Edible films     Descriptive items		
	Decorative items     Cosmetic products		
	Cosmetic products     Nutraceuticals		
	Medicinal natural extracts		
	Iviedicinai nati	urai extracts	

In Table 5., Different characteristics were provided to each panelist from which it was came to know about what motivates them to buy century watermelons. It was seen that 113 peoples i.e., 59.8% of them chosen nutritional information which motivates them to but century watermelons and 9 peoples i.e., 4.8 % were those who did not shown any interest in case of motivation for buying century watermelons. It was seen that

maximum 135 peoples i.e., 75.4% of them prefers to consumes Sugar Baby watermelons and minimum 44 peoples i.e., 24.6% were those who prefers to eat century watermelons. It was seen that maximum 161 peoples i.e., 88.6% said that they have consumed products which were made from watermelons and minimum 7 peoples i.e., 3.8 % were those were not sure whether they have consumed any product made from watermelons. 117 peoples i.e., 62.2% among all said that pomace/ remaining pulp after extraction of juice if that part of watermelon which is generated as waste and 8 peoples i.e., 4.3% were those who said that seeds as waste generated after consumption of watermelons.

According to panelist it was seen that maximum 150 peoples i.e., 78.5% said that watermelon waste can be used to make new by products and 10 peoples i.e., 5.2% of them claimed that watermelon waste cannot be utilized for generation of new by product. Many of them claimed that different types of by products can be produced from watermelon waste such as compost, pickles, wine, animal food, value added food such as cheese from white part of rind, jelly, antioxidants and phytochemicals, bakery product such as cake, medicine, manure.

The socioeconomic characteristics sex ( $\chi^2 = 101.848$ ), age ( $\chi^2$ 

= 82.25), educational status ( $\chi^2$  = 107.75), and marital status ( $\chi^2$ = 90.394) were not related to consumer preference of Sugar Baby and Century Watermelon allowing the null hypothesis to be accepted.

# 4. Conclusion

This paper presented a study on consumer awareness and acceptance of Sugar Baby and Century Watermelons.

#### References

- [1] Al-sayed HMA, Ahmed AR (2013) Utilization of watermelon rinds and sharlyn melon peels as a natural source of dietary fiber and antioxidants in cake. Ann Agric Sci 58:83-95.
- Alam M, Hoque M, Morshed S, et al (2013) A Study on Watermelon (Citrullus Lanatus) Juice Preserved with Chemical Preservatives at Refrigeration Temperature. J Environ Sci Nat Resour 5:23-28.
- [3] Biswas R, Ghosal S, Chattopadhyay A, Datta S (2017) A Comprehensive Review on Watermelon Seed Oil-an Underutilized Product. IOSR J Pharm 7:1–07.
- Quadri A, Rao A (2018) Development, Organoleptic Evaluation and Acceptability of Products Developed from Agro Based Wastes-Seeds and Rind of Watermelon. J Food Sci Nutr Res 01:1-9.
- Seed P, Techniques E (2014) Popular Kheti. 1:162–163.
- Souad AM, Jamal P, Olorunnisola KS (2012) Effective jam preparations from watermelon waste. Int Food Res J 19:1545-1549.