

# Structure and Performance of the Retail Outlets of Honey in the Kingdom of Saudi Arabia

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## Abstract

The study aimed at analyzing the most important factors affecting the retail marketing of honey in Saudi Arabia. Cross sectional survey was employed using field interview (direct contact) with a random sample of 343 retail outlets represented all its forms and patterns in seven major cities in Saudi Arabia. Measurements like market share, Gini coefficient and Herfindahl Hirschman Index (HHI) were used to estimate the indicators of market structure and its performance. The result showed that the structure of honey retail market is generally closer to pure competition with a small concentration in some areas. Gini coefficients of concentration, as well as the values of the Herfindahl Hirschman Index (HHI) were relatively low for retailers. The average marketing margin was about SAR 6.4/Kg for local honey while the marketing margin of imported honey was about SAR 113/Kg. The high profit margin variation between local and imported honey is due to the high marketing costs, lower supplied quantity and higher demand for local honey. The estimated cost of marketing of onekilogram of honey was about 8 SAR at the retail level. From retailers' point of view, low quality, lack of marketing services, improper display, high rental property, lack of knowledge and experience of the consumer about properties and quality characteristics honey, high prices and shortage of some varieties of honey in some specific season are the most important problems of honey marketing in the Saudi market. Setting priorities between different brands of honey plays a noticeable role in marketing. Some honey producers and traders were very concerned about unfair competition of honey market through high promotion as a brand based on their long history in the production and supply of high-quality varieties of honey from specific and well-known varieties. Hence, intensive awareness creation effort through training, exhibition, media and advertisement are required to improve the perception of consumers towards the local honey.

## Keywords

**Honey, Marketing, Performance, Retail Outlets, Structure, Saudi Arabia**

### 1. Introduction

The economic theory explained the importance of services and marketing functions in the formation of composite demand of consumer [1]. It is obvious that the trend of honey demand and its marketing services is increasing dramatically at the level of retail markets in Saudi Arabia. The outlets of honey sales became numerous and varied significantly at the retail level, and has become a strategic link in the marketing of honey. It represents the mirror that reflects the reality of the interactions between the market of honey and its marketing services.

The study and analysis of the structure and performance of honey retail outlets is very important due to its impact on the efficiency of marketing system of honey in its entirety, especially in the presence of increasing complains of producers from the relative low prices they receive, the small export amount of Saudi Arabia honey and increasing of local consumption.

[2] explained the four known structures of markets which are pure competition, monopolistic competition, oligopoly and pure monopoly. He explained that the mutual interdependence between the corporations is a characteristic exclusive to oligopoly. He also linked between structure, behavior and market performance. [3] reported that the structure of market is affected by many factors related to supply and demand. Furthermore, the nature of facilities within the market is associated with its competitive strategies and influenced to a large extent by the regulatory aspects. They also suggested that the good market performance should achieve optimal use of the factors of production, reasonable profitability and price stability and ensures a good level of growth. The good performance of market is associated with structure and behavior. The study of [3] also showed that the most important criteria for determining the structure of market is the concentration ratio and that market power that enables some facilities to earn increased profits.

[4] studied the relationship between the structure of the market and its performance achieved by the level of profitability in manufacturing industries and applied on some producing factories in the Philippines.

[5] discussed the impact of market structure on the marketing margin using the concentration ratio of four biggest facilities to reflect the level of market structure. Moreover, [2] showed some of the criteria that can be used to measure the concentration of the market such as the market share of the biggest four, eight or twenty facilities in the market, using Herfindhal Hirschman Index (HHI) and Gini Coefficient. Moreover, [6] showed that the most important factors that influenced the vegetables and fruits market situations are the changes in the composition of final demand, the trend toward more marketing services, as well as changes in expected supply because of the quality of the product, transportation and storage.

[7] has studied the market structures in Saudi Arabia and he suggested some reforms like clustering of farmers in agricultural marketing cooperatives, developing of appropriate solutions to regulate the market in all aspects, raising of the initial selling prices for local agricultural products to promote and to ensure the continuation of farmers in agricultural activity.

Honey represents a sizeable niche in the economic structure of Saudi Arabia agricultural economy and sizeable segment of farmers (honey producers and beekeepers) economy in Saudi Arabia, not only at the production level, but also on the level of consumption and marketing. The government is highly interested and taking responsibility to support the beekeeping industry through providing beekeepers subsidy and loan grants.

The activity of honey market in Saudi Arabia, like the other economic activities is subjected to the principle of supply and demand and the availability of goods and services with desired characteristics that satisfy the needs of the consumer. Honey market is attaining a remarkable development due to the strong cultural, social and religious association of the people with honey, in Saudi Arabia.

Producing of honey is one of agricultural activities which have shown a noticeable development in Saudi Arabia. Currently the annual honey production of the country estimated to be 9000 tons [8].

Saudi Arabia imports honey from a range of countries like Mexico, Pakistan, Germany, Yemen and Argentina. Saudi Arabia imports significant volume of bulk honey that ranges from 2019.1 tons in 1994 to an upper limit of 13541.7 tons at an average of  $8220 \pm 3881.23$  tons with the coefficient of variation of 47.3% during the studied

period.

Furthermore, Saudi imports of bulk honey have increased with an annual growth rate of 10.1% during the studied period. The value of imports of bulk honey have ranged from a lower limit of US\$ 8034494.4 in 1994 and an upper limit reached US\$ 29,480,000 in 2009 [9].

Despite shortage of natural honey in Saudi Arabia, a part of the imported amount is re-exported to other countries, mainly Algeria, Jordan and the Gulf Cooperation Council (GCC). The volume of Saudi exports of honey reached 1244 tons with a value of US\$ 5,486,000 [9]. So the net consumption amount of honey is about 17,843 tons.

Despite honey markets have attracted the attention of many researchers in general, such as [10]-[12], however, none of the study has attempted to analyze the structure and performance of the retail markets for honey. With this general background, the aim of this study was to analyze the most important aspects of the structure and performance of honey market at the retail level following the procedures of [13] [14] which link between profitability and marketing efficiency and market structure. The study focuses on assessing the current situation of honey market of the study area; analyzing the structure of honey retail market and analyzing the marketing margin and market performance at the retail level.

## 2. Research Methodology

The study was mainly based on primary field data collected from a randomly sampled 343 retail outlets that respondent in all its forms and patterns in seven major cities of Saudi Arabia (Riyadh, Jeddah, Ta'if, Dammam, Tabuk, Asir and Jizan). Data were collected through direct contact (face to face) and interviewing of retailers in their outlets. The major variables included in the interview were: nationality, educational level, retailers' basic job, the proportion of the annual income of retailers from honey trade, annual trading volume of honey, honey quality characters, outlets to get the honey, the motives of honey consumption, the problems of honey marketing and the comparison of honey prices with most important characteristics.

The types of honey have also been considered as a variable that represented in the sample that has an impact on the price of honey from retailers' point of view in Saudi Arabia. In addition secondary data derived from some official sources were included.

Some measurements like market share, Gini coefficient and Herfindahl Hirschman Index (HHI) and standards were used to measure market structure and performance indicators. Descriptive statistical, analysis of Variance were utilized to analyze data using SPSS version 15.

## 3. Standards of Market Structure and Performances

To measure the market structure and performances the following equations were adopted:

### 3.1. Market Share

Market share for the biggest four, eight and twenty outlets that represents a ratio of outlets' sales to the total sales of all the outlets were determined following [15] equation:

$$MC = \frac{\sum_1^n C_i}{\sum_1^N C_i} \times 100$$

where,  $MC$  is market share of the four or eight outlets, " $C$ " is the market share of outlet " $T$ ", " $n$ " is 4 or 8 and " $N$ " is total number of outlets.

### 3.2. Gini Coefficient

Gini coefficient is one of the important and common measurements that used in measuring the fairness of market distribution. It depends on the idea of Lorenz curve. Moreover, it gives a digital measurement for market concentration ratio. Gini coefficient value is between zero and one. The lower the Gini coefficient value, the higher the distribution fairness.

Gini coefficient was calculated following Sawyer, [16] equation.

$$[14] \quad G = \frac{\sum Y_t X_{t+1} - \sum X_t Y_{t+1}}{10000}$$

where, “G” is Gini coefficient, “Y” is ascending cumulative frequency of the percentages of number of retailers’ outlets, “X” is ascending cumulative frequency of the percentages of the market shares, “t” is record order and “t + 1” is next record.

### 3.3. Herfindahl Hirschman Index (HHI)

This measurement gives higher relative weights for the share of bigger facilities. It usually used to determine whether the merging of facilities lead to monopoly power or not. This measurement is more pronounced in case of the competition between the large number of outlets. In the case of full market monopoly where one facility has full market share, the HHI value is equal to 10,000 [17].

HHI was calculated according to the following equation [17].

$$[17] \quad HH_i = \sum_{i=1}^n c s^2$$

where, “HH<sub>i</sub>” is Herfindahl Hirschman Index, “S” is size of applied activity “C” compared with all outlets activities, “i” is specific outlet, and “n” is total number of outlets.

## 4. Results and Discussion

Out of the 343 retailers’ outlets 49, 75, 50, 38, 33, 60 and 37 were distributed over seven cities of Saudi Arabia: Riyadh, Jeddah, Ta’if, Dammam, Tabuk, Asir and Jizan, respectively. The results showed that about 78% of retailers have Saudi nationality, while about 22% from other nationalities **Table 1**. Furthermore, 0.3% of retailers do not have any educational qualifications, 2.8% of them have elementary certificates, 10% have preparatory certificates, 20% have secondary school certificates, 40% have first degree university certificates and 23.5% have higher education(post graduate) certificates (Data collected from retailers outlets, 2012). Generally the data indicated that significant proportion of the retailers were educated.

The contribution of honey trade to the total annual income of honey retailers varied from 5% and 100% with a mean of 65% **Table 2**, which indicates that trading of honey play a great role as means of income source for large number of people in the country.

**Table 1.** The share of honey trade in annual incomes of retailer.

	N	Minimum	Maximum	Mean	Std. Deviation
Importance of honey trade out of annual income	327	%5	%100.00	%64.6789	30.46628

**Table 2.** Socio-economic profiles of sampled honey retailers in Saudi Arabia.

		Frequency	%
Nationality	Saudi	267	78
	Others	74	22
	Neither Read Nor write	1	00.3
Educational Level	Elementary	9	02.8
	Preparatory	32	10.0
	Secondary	64	20.1
	University	121	37.9
	Higher Education	75	23.5
Basic Job	Government Job	41	12.7
	Private Sector Job	1	00.3
	Business Honey Dealer	140 142	43.2 43.8

### 4.1. Structure of Honey Retail Market in Saudi Arabia

Analyzing the calculated values for the most important standards of concentration ratio that indicates the nature of the market structure is shown in **Table 3**. It was observed that the coefficient of sales concentration ratio for the largest four, eight and twenty retail outlets were 9.6%, 15.8% and 28.8%, respectively.

From these results, it is noticeable that concentration ratio of largest four retail outlets was only 9.6% and thus, this concentration is considered desirable because the undesired ratio is 50%. As well as for the largest eight facilities, it controls only 15.8% thus, this concentration is also considered desirable because the undesired ratio is expected to be 70%. From these it can be said that, Saudi Arabia honey market does not suffer from undesired concentration ratio of sales with a small amount of concentration indicating that this market is moving towards full competition with a small amount of monopoly.

Furthermore, Gini coefficient for all studied retail outlets has reached 0.30 (**Figure 1**). This value is considered as low value indicating low sales concentration ratio in the honey retail in Saudi Arabia.

The lower value of Herfindahl Hirschman Index (HHI) indicates a lower sales concentration ratio and vice versa. In this study, HHI for all studied retail outlets had reached 77 which is a small value for HHI measurement because the value of HHI is equal to 10000 in case of full monopoly (Kock, 1980 [17]). The study clearly indicated that low sales concentration ratio hence very low level of monopoly in honey retail trade in Saudi Arabia.

$X$  = Cumulative % of retailers.

$Y$  = Cumulative % of quantity.

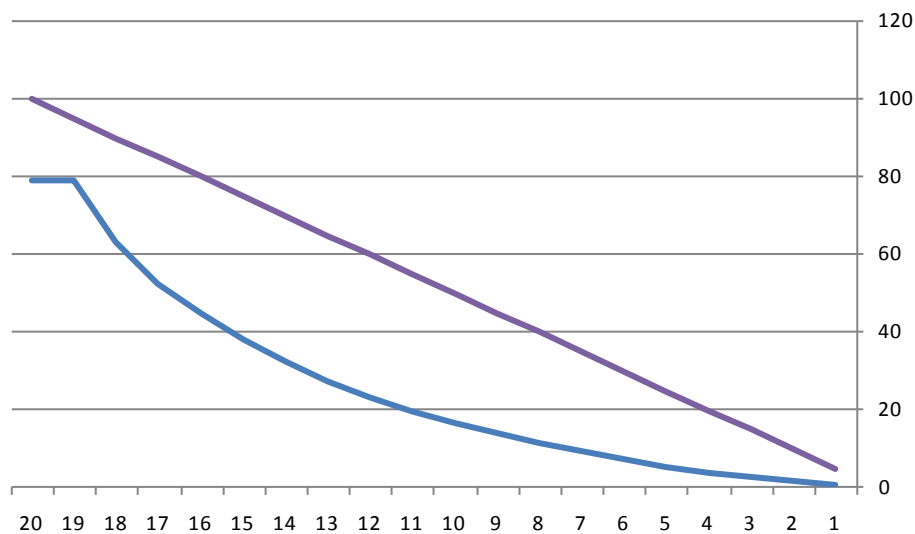
$$\text{Gini Coefficient} = (38694.91 - 35694.76)/10,000 = 0.300015 = 0.30.$$

This value of Gini Coefficient (0.30) is a small value **Figure 1**. Hence, this also gives a clear indication of low sales concentration ratio in honey retail trade.

As a conclusion, it is obvious that the structure of honey retail market, in general, is closer to pure competition

**Table 3.** Measurements of structure and performance of honey retail market in Saudi Arabia.

	Criteria	All studied retails outlets
Sales concentration ratio	For largest 4 retailers %	9.6%
	For largest 8 retailers %	15.8%
	For largest 20 retailers %	28.8%
	Gini coefficient	0.30
	Herfindahl Hirschman Index (HHI)	77



**Figure 1.** Lorenz curve for honey sales concentration ratio in Saudi Arabia.

with a small portion of similarity of some aspects of monopoly. Indicators of sales concentration ratio could be considered as the most trusted in terms of the expression for honey retail structure due to presence of some disabled capitalism or human potentials are not fully exploited in some retail outlets.

#### 4.2. Marketing Margin

The analysis of results of this study indicated that the average wholesale price for imported honey was SAR 62/Kg while the average wholesale price of local honey, in general, was about SAR 301.8/Kg.

It was also noticed that the average retail price of imported honey reached SAR 175/Kg whereas the average retail price of local honey was about SAR 308.2/Kg.

The average marketing margin between the wholesale and retail price of the imported honey was generally about SAR 113/Kg which is high margin, whereas the marketing margin between the wholesale and retail price of local honey, in general, was about SAR 6.4/Kg which is very low margin compared with the margin of imported honey prices. This may be due to the high marketing costs for local honey as well as lower supplied quantity and higher demand for local honey forcing wholesalers to seek minimum marketing margin between their price and the retailers' prices or shifting to sell their product themselves directly to the consumer instead of retailer.

The average retail price for some specific local honey such as Sidr, Sumra and Taleh were SAR 308.2, 207 and 210, respectively, while the average retail price of imported honey was SAR 175 (Table 4).

#### 4.3. Marketing Costs at Retail Level

The average cost of marketing of one kilogram of honey at retail level and the most important types of expenditures according to different retail outlets are shown in Table 5. Accordingly the major expenditures are: packaging, processing and purification. In general, it has been estimated that the average marketing cost of one kilogram of honey reached about SAR 8, while the average cost of packaging reached about SAR 1.7/Kg and the average cost of processing reached about SAR 1.8/Kg. In addition, the average cost of purification reached about SAR 3.7/Kg and the cost fluctuates according to the purity of honey, as well as its price. The average cost of additives reached about SAR 0.98 for imported varieties especially the Kashmiri.

#### 4.4. Types of Honey Prevailing in the Saudi Market and Its Quality Attributes

Saudi market has many types of locally produced as well as imported honeys. The honey is mainly categorized according to their botanical origin used by bee to collect the nectar. Accordingly, famous honey types produced in Saudi Arabia are:

**Table 4.** Average retail prices of some specific honey products.

Package	Minimum	Maximum	Mean	Std. deviation
1 Kg of local honey (Sidr)	125	660	308.1728	67.59795
1 Kg of local honey (Sumra)	70	500	207.3305	72.30603
1 Kg of local honey (Taleh)	50	500	210.9864	81.03878
1 Kg of imported honey	35	500	175.0000	139.86510

**Table 5.** The most important items for marketing costs for one kilogram of honey.

Cost item	Minimum	Maximum	Mean	Std. deviation
Packaging	1.00	3	1.6981	0.52201
Processing	0.50	6	1.7736	1.10317
Filtration or purification	0.75	12	3.7170	2.48023
Others	0.50	1	0.9792	0.10206

- 1) Sidwr (*Ziziphus spin-christii*) honey, which is differentiated based on its distinctive scent, light golden color, especially when it is fresh Sidr honey within a year after production.
- 2) Sumra (*Acacia tortilis*) honey, which is characterized by its distinct taste, dark color, which be darker as stored for longer time after production.
- 3) Talah (*Acacia origina*) honey, which is also have brown to dark color, especially if stored for long after production.
- 4) Majary (*Hypoestesforskalii*) Honey which is extremely white and with fast granulation tendency, distinctive smell, and good taste. The honey is the most expensive types of honey in the market.
- 5) Other honey.

There are many other imported types of honey prevailing in the Saudi market, of various species, the most important of them are:

- 1) Yemeni Sidr honey, several types all of them are characterized by high qualities (Hadrami Sidr, Usaimi Sidr, Wosabi Sidr, etc. All of these Yemeni Sidr are having the same characteristics of locally produced Saudi Sidre, even having more quality attributes and so more price.
- 2) Thorn Yemeni Honey close to Sidr honey in terms of color, taste.
- 3) Yemeni Samar honey.
- 4) Pakistan Cashmiri honey, Imported Sidr honey from, Pakistan.
- 5) White Honey, imported from Russia and Ethiopia, it is similar to the Hungarian (Magary) local honey in terms.

#### 4.5. Problems of Honey Marketing in Saudi Arabia from Retailers' Point of View

According to this survey result from retailers' point of view, low quality, lack of marketing services, inappropriate display like selling on the car, on street and so on and other problems such as high rental property, lack of knowledge or experience of the consumer about honey quality, high prices and shortage of some varieties of honey are the most important variables that create the problems of honey marketing in the Saudi market. The relative importance degrees of the various honey marketing problems are shown in **Table 6**, **Table 7** and **Figure 2**.

**Table 6.** Relative importance of honey marketing problems from retailers' point of view in Saudi Arabia.

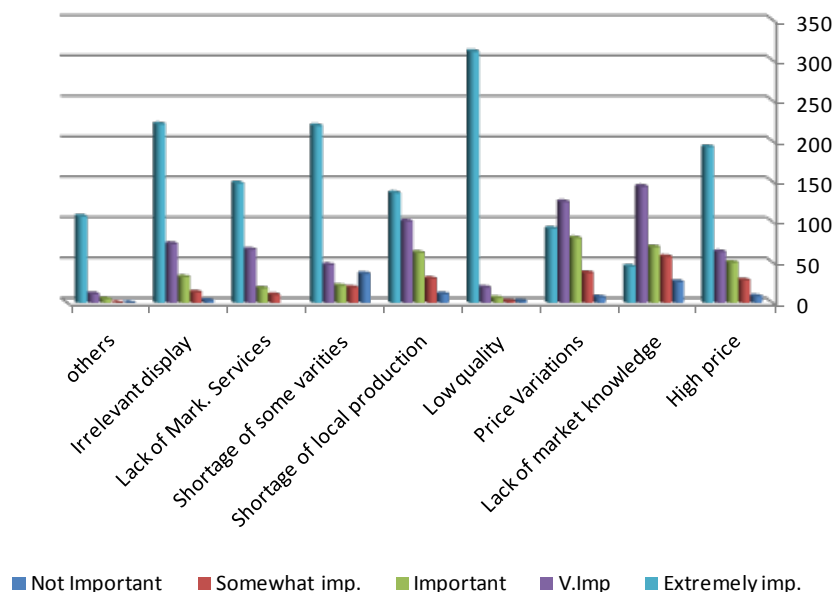
Problem	Mean	Maximum	Minimum	Std. deviation
High price	4.18	5	1	1.103706
Lack of market knowledge	3.36	5	1	1.136531
Price Variations	3.76	5	1	1.038575
Low quality	4.87	5	1	0.509679
Shortage of local production	3.94	5	1	1.107681
Shortage of some varieties	4.15	5	1	1.361487
Lack of Mark. Services	4.61	5	2	0.720566
Irrelevant display	4.45	5	1	0.877638
Others	4.82	5	3	0.474036

**Table 7.** Importance frequency of honey marketing problems from retailers' point of view in Saudi Arabia.

Problem	Not important	Somewhat important	Important	Very important	Extremely important
High price	8(2.3)	28 (8.2)	50(14.6)	63(18.4)	193(56.4)
Lack of market knowledge	26(7.6)	57(16.7)	69(20.2)	144(42.2)	45(13.2)
Price variations	7(2)	37(10.8)	80(23.4)	125(36.5)	92(26.9)
Low quality	2(0.6)	2(0.6)	6(1.8)	19(5.6)	311(91.2)
Shortage of local production	11(3.2)	30(8.8)	62(18.2)	101(29.7)	136(40)
Shortage of some varieties	36(10.5)	19(5.6)	21(6.1)	47(13.7)	219(46)
Lack of market services	0(0)	10(2.9)	18(5.3)	66(19.3)	148(72.5)
Irrelevant display	3(0.9)	13(3.8)	32(9.4)	73(21.3)	221(64.6)
Others	0(0)	0(0)	5(4.1)	11(8.9)	107(87)

The values between brackets are percentages.





**Figure 2.** The importance of the problems of marketing of honey in the Saudi market.

Accordingly, 91% of traders are considered low-quality as extremely important problem and that this problem recorded maximum relative importance degree of 4.87 out of 5. Then, 72% of traders are considered lack of marketing services as extremely important problem in that this problem recorded high relative importance degree of 4.6 out of 5. After that, 64% of traders are considered inappropriate displays for honey selling extremely important problem and that this problem recorded a relative importance degree of 4.5 out of 5. Then, 64% of traders are considered shortage of some honey varieties in some specific times as extremely important problem and that this problem recorded a relative importance degree of 4.6 out of 5. After that, 56% of traders are considered high price as extremely important problem and that this problem recorded a relative importance degree of 4.1 out of 5. Finally, 87% of traders are considered the other problems which had not mentioned such as high rent of outlets and lack of knowledge or experience of the consumer about honey quality as extremely important problems.

Setting priorities between different brands of honey plays a noticeable role in marketing. It was obvious that some honey producers and some traders were very concerned because of the promotion of honey by brand based on their long history in the production and supply of high-quality varieties of honey from specific and well-known varieties.

Due to free market economy, presence of competition among retailers and presence of many types of honey in the market with different quality characters, which made retailers become worried on their long history in the production and supply of high-quality varieties of honey from specific and well-known varieties.

## 5. Conclusions

Based on the results of this study, the following recommendations could be suggested:

- Providing loans and marketing subsidies for preparing qualified honey retail outlets and equipped with suitable display and storage places and facilities to maintain the quality and nature of honey.
- Increase local honey production to replace the imported sugar-based food products.
- Creating awareness through advertising campaigns and consumer education about the nutritional and pharmaceutical value of honey.
- Educating the consumer about the quality characteristics of honey in order to create consumer confidence in the product, especially local one.
- Organizing training on marketing courses for the whole sellers and retailers.
- Encouraging Saudi companies to participate meaningfully in international trade exhibitions.
- Supporting and encouraging the associations and cooperative organizations that are involved and interested in honey producing and marketing.



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