

## CONSUMER PREFERENCES FOR RED WINE IN THE SPANISH MARKET

### PREFERÊNCIAS DO CONSUMIDOR DE VINHO TINTO NO MERCADO ESPANHOL

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#### SUMMARY

Consumers are the core of wine marketing. Identifying their preferences, socioeconomic characteristics and behaviour is a key to designing actions for the wine sector which result in marketing opportunities for wine companies. To answer these questions 800 personal surveys were taken of wine consumers in Madrid and Barcelona. These two cities are characterized as large consumption and business centres and showcases for wine promotion in Spain. The conjoint analysis technique was used to identify wine consumers' preferences and for their characterization, we used socioeconomic analysis and the identification of their ethnocentric tendencies (CETSCALE). The results show that the most highly-valued elements are price and type of wine, in that order. Consumers prefer wine which offers a good price-quality ratio. The origin of the wine does not seem to be an especially important element although wine consumers from Barcelona present more ethnocentric behaviour than those from Madrid, tending to consume wines produced in their own region.

#### RESUMO

Os consumidores são o pilar da comercialização dos vinhos. Identificar as suas preferências, o comportamento e as suas características socioeconómicas é fundamental para projetar ações de marketing, que originam oportunidades de mercado para as empresas de vinho. Para responder a estas perguntas foram realizados 800 inquéritos a consumidores de vinho em Madrid e Barcelona. Estas duas cidades são caracterizadas por serem importantes centros de consumo, centros de negócios e de serem ainda as principais vitrinas para a promoção do vinho em Espanha. Para detetar as preferências dos consumidores de vinho foi aplicada a técnica de análise conjunta e para a sua caracterização a análise socioeconómica e identificação de tendências etnocéntricas dos consumidores (CETSCALE). Os resultados demonstram que os atributos mais valorizados são em primeiro o preço seguido pelo tipo de vinho. Os consumidores preferem o vinho que oferece uma boa relação qualidade/preço. O atributo origem não parece ser um elemento especialmente importante, embora os consumidores de vinho de Barcelona apresentem comportamento mais etnocêntrico do que os de Madrid, através da preferência do consumo de vinhos produzidos na própria região.

**Key words:** consumer behaviour, conjoint analysis, CETSCALE, wine marketing.

**Palavras-chave:** comportamento do consumidor, análise conjunta, CETSCALE, marketing de vinhos.

#### INTRODUCTION

In recent years, wine consumption in Spain has fallen steadily, and to make matters worse, the fall in consumption is expected to continue (Ikerfel-OeMV, 2012).

Regarding wine consumption, the gradual decrease in wine consumption in general is an unquestionable fact today due to new consumer habits and costumes in Spain. Therefore, in the period between 1987 and

2009, there has been a decrease in *per capita* consumption from 29.96 litres to 16.64 litres of wine in 2009. Meanwhile the *per capita* consumption of quality wine has shown a more stable tendency. Until 2005 it underwent a progressive increase, after which it began to decline to 6.36 litres *per capita* in 2009, approximately the same as the consumption in the year 1987 (MAGRAMA, 2012a).

Many factors are responsible for the decrease in wine consumption in Spain. One of the major factors

affecting wine consumption, and possibly the most important, is the disappearance of the wine culture in large areas of the country. This is due to consumers shifting towards other drinks, influenced by new lifestyles which promote healthier habits. Consequently, wine, due to its alcohol content and somewhat negative image, is unfavourably viewed by consumers. This negative attitude is motivated by, for example, information campaigns on alcohol intake and increased likelihood of traffic accidents (INTCF, 2015).

The issue here is not whether consumers drink alcohol, since non-consumers are clearly not a major market for wine producers. The problem is rather whether wine consumers are moving, for example, towards the consumption of beer and similar products of lower alcohol content.

At the same time, distributors have made two important mistakes. Firstly, from the point of view of price, the substantial increase in the price of a wine from production to the table, which on occasions is double or triple, has led to rejection by consumers, and encouraged the consumption of other drinks. Secondly, they have failed to identify the characteristics and preferences of the consumers and adapt production accordingly (Bernabéu *et al.*, 2008).

However, wine production has frequently continued to focus on improving vine growing and the winemaking process (which has led to an increase in wine production) and on marketing. Here attention has only really been focused on the variable of advertising while the other variables (product, price and distribution) have been given less importance in the marketing mix. Furthermore, regarding the product, wine consumption preferences have not been evaluated (Bernabéu *et al.*, 2005).

This situation has led to an increase in wine production. Consequently, as a result of the need to sell this increased wine production, and through the use of advertising strategy, there has been a growth in the competitiveness of the different Spanish wine-producing regions. This, in turn, has led to a proliferation of both collective marks (Protected Designations of Origin) and individual brands of wine produced in the different wineries.

This increase in regional competition in wine commercialization has been unequal. Some regions have advanced more rapidly, while others have done so more slowly. This seems to be the case in Castile-La Mancha (Spain), with an extension of 473,050 ha. In 2011 (48% of the vineyard surface area of Spain) (MAGRAMA, 2012b), it produced 21.46 million hL of wine (approximately 53.8% of the national

production) (JCCM, 2011), but has not shown a relevant presence of its quality wines in national markets (Ikerfel-OeMV, 2012).

In order to determine the market opportunities of the quality wines produced in Castile-La Mancha, it is essential to identify the preferences and socioeconomic characteristics of wine consumers (gender, age, educational level, profession and net monthly family income) in the target markets. It is especially important to evaluate the effect of the origin of the wine on consumer preferences. This is similar to the position of foreign wines targeting the Spanish market.

The origin of wine derives its singularity from a specific geographical location, which provides a unique, sustainable, competitive advantage, truly distinguishable and directly related to the tangible quality of the product, which is difficult to duplicate (Gil and Sánchez, 1997; Thode and Maskulka, 1998). In turn, the place of origin not only assures precise and efficient product identification among the existing diversity, but also contributes to the defence, value added and respect for rural areas (Ribeiro *et al.*, 2002).

The effect of origin in choosing a product can be defined as ethnocentrism (Shimp and Sharma, 1987). Consumer ethnocentrism is an important motivation in the decision to purchase local products. A direct relationship has been found between consumer ethnocentrism and the preference for domestic products, and also a negative relationship to the preference for foreign products (Verlegh and Steenkamp, 1999).

From a functional viewpoint, ethnocentrism confers a sense of identity on an individual, a feeling of belonging, and what seems more important, the understanding of why certain purchasing behaviours are acceptable by the group or not (Witkowsky, 1998).

In this regard, the ethnocentric tendencies of consumers do not only refer to foreign products but also to products from other regions of the country. More ethnocentric consumers think that products from other countries or regions can damage the economy of their own country or region, cause jobs to be lost or even undermine their national or regional identity (Johansson *et al.*, 1985; Wall and Heslop, 1986; Chasin *et al.*, 1988; Han, 1988; Hung, 1989; Sharma *et al.*, 1995; Durvasula *et al.*, 1997; Supphellen and Gronhaug, 2003), however morally incorrect this standpoint might be (Shimp and Sharma, 1987).

Consumers who exhibit less ethnocentric tendencies base their decisions on the inherent qualities of the product and not the place where it was produced. What is more, on some occasions certain consumers value foreign products more highly than those of their own country or regions, which might also be considered morally incorrect (Bernabéu *et al.*, 2013).

To measure the degree of consumer ethnocentrism, it is necessary to identify a tried-and-tested method. Currently, the most commonly utilised method is the Consumer Ethnocentric Tendency Scale (CETSCALE) (Shimp and Sharma, 1987). This scale measures the tendency of consumers to submit to an ethnocentric purchasing behaviour towards outside products and it has been validated in several studies (Luque-Martinez *et al.*, 2000; Marín, 2005; Chrysochoidis *et al.*, 2007; Kavac and Gumusluoglu, 2007; Parts, 2007).

In order to evaluate the possible commercial success of wines produced in one region and marketed in another, it is necessary to identify the preferences of wine consumers and their socioeconomic and ethnocentric characteristics, in order finally to propose a series of commercial strategies with the purpose of promoting their commercialization. Consequently, a study of the market opportunities of wines from Castile-La Mancha in Madrid and Barcelona was conducted. These are the two most important cities in Spain as consumption and business centres as well as national showcases for wine promotion, while being at the same time different types of wine markets (Bernabéu *et al.*, 2013).

## MATERIAL AND METHODS

In order to identify the structure of the preferences of wine consumers, 800 people over the age of 18 about to buy food products for home consumption were surveyed in supermarkets and hypermarkets in Madrid and Barcelona (Spain) in 2011. Random, stratified sampling was conducted by district population, gender and age group. For a 95.5% confidence level, under the principle of maximum indetermination, the error level was below 3.54%, as is seen on the technical card on Table I.

Consumer preferences are usually identified using multi-attribute models, which aim to explain how consumers form preferences by evaluating the attributes and levels of a product or service. To detect preferences, it can be said that two models exist (compositional, decompositional) with regard to the analysis techniques used to determine consumer preferences.

**Table I**

Technical card

*Ficha técnica*

Ambit	Cities of Madrid and Barcelona (Spain)
Universe	Adult wine consumers
Survey size	800 surveys (400 in Madrid and 400 in Barcelona).
Survey error	±3.54%.
Level of confidence	95.5% (k=2) <sup>†</sup>
Sampling	Stratified with proportional affixation by population district, gender and age.
Control	Of coherence and stability.
Preliminary questionnaire	Pretest to 25 individuals.
Field work	February and March, 2011.

<sup>†</sup> k is a constant that depends on the level of confidence. The confidence level indicates the probability that the results of our investigation are certain.

In compositional models, those interviewed provide an opinion on several attributes of the same product, estimating its global utility through aggregation. The main criticism levelled at this method is that there are some attributes which consumers do not take into account in their purchasing decisions.

Decompositional models include Conjoint Analysis as a technique to transform consumers' subjective responses into parameters that estimate the utility of each attribute level as declared in their preferences, thus obtaining a measure of consumers' overall satisfaction with the product. The aim of this technique is to help select between products and determine how each attribute impacts on the purchasing process (Green and Rao, 1971). Additionally, these models segment markets in a more precise manner (Wind, 1978).

In this study, in order to identify the most representative attributes in the wine purchasing process of consumers, an advance questionnaire was conducted with consumers and experts (sector professionals and researchers) being interviewed. The literature on the subject was also consulted.

In order to obtain good levels of reliability and validity, the number of attributes was reduced to the four considered most representative of the objectives to be achieved. Furthermore, these attributes were not correlated so as to avoid unreal combinations between levels.

The attributes and their levels identified as most important in quality red wine were: *price* (4, 6 and 8 €0.75 L bottle), *type* (current year, aged and reserve), *origin* (local, Castile-La Mancha and national), and

finally, whether they had *previously tasted it* (yes, no).

Through these four attributes and their eleven levels, 54 profiles were obtained. This involves a high number of products to show to the consumer. Therefore, an orthogonal design (SPSS Inc., 2009) was used that allowed the combinations to be reduced to nine<sup>1</sup>.

The choice of an orthogonal design compared to the presentation of all the possible combinations of products limits obtainable information only to the main effects of the attributes by eliminating interactions, as interactions tend to explain less than 10% of preferences. It also offers the advantage of showing only nine products to each respondent. This advantage is thought to outweigh that inconvenience (Kirk, 1982; Braña *et al.*, 1995). The 9 profiles are shown on Table II.

**Table II**

Hypothetical wine cards shown to those surveyed

*Cartões de preferências do vinho apresentados aos inqueridos*

Card number	Price <sup>†</sup>	Origin	Type	Tasted previously
1	8	Local Area	Reserve	Yes
2	8	National	Current year	No
3	6	Castile-La Mancha	Reserve	No
4	6	National	Aging	Yes
5	6	Local Area	Current year	Yes
6	4	National	Reserve	Yes
7	4	Castile-La Mancha	Current year	Yes
8	8	Castile-La Mancha	Aging	Yes
9	4	Local Area	Aging	No

<sup>†</sup> At the time of the survey (€0.75 L bottle), as the average of retail prices in the distribution sector.

Once the hypothetical wine cards were designed, they were shown to each of the respondents who assigned a score from 1 to 10 to each card depending on their declared preferences<sup>2</sup>. The object was to discover which characteristics had a greater influence on the overall preference for the wine in question, as well as the relative importance of each attribute.

The specification of the conjoint analysis model is based on the hypothesis that respondent preferences,

<sup>1</sup> The number of products evaluated by the consumers was 11. Nine corresponded to the orthogonal design (those used in calculating the utilities). Two additional products (holdout cases) were for verifying the validity of the utility of the first 9 products (which was not significant). Therefore, they were considered valid (Bernabéu *et al.*, 2012).

<sup>2</sup> The number 1 corresponded to the lowest degree of preference and 10 to the highest, according to the complete profile method. They had the possibility to repeat scores on more than one card.

or overall wine valuation, are obtained from the individual scores for each attribute, so that the sum of those scores generates the overall valuation. An additive model was used as the starting point, since in almost every case it explains a very high percentage, between 80% and 90%, of the variation in individual preferences (Steenkamp, 1987; Hair *et al.*, 1999). Its formula is shown in the following equation:

$$Valuation = \beta_0 + \sum_{i=1}^3 \beta_i D_{1i} + \sum_{j=1}^3 \beta_j D_{2j} + \sum_{k=1}^3 \beta_k D_{3k} + \sum_{l=1}^2 \beta_l D_{4l}$$

where  $\beta_{1i}$ ,  $\beta_{2j}$ ,  $\beta_{3k}$  and  $\beta_{4l}$  are the coefficients associated to levels  $i$  ( $i=1,2,3$ ),  $j$  ( $j=1,2,3$ ),  $k$  ( $k=1,2,3$ ), and  $l$  ( $l=1,2$ ) of the attributes of price (1), type (2), origin (3) and tasted previously (4), respectively and where  $D_{1i}$ ,  $D_{2j}$ ,  $D_{3k}$  and  $D_{4l}$  are the fictitious variables for each attribute, considering the levels of each attribute as categorical.

The final result of the *Conjoint* program permits estimating the partial utilities of each attribute and the total utility of each profile. Using the partial utilities of each respondent to determine consumer preference structure, the relative importance (RI) of the attributes of each of them was calculated, as well as the proportion of the range assigned to each attribute over the total range variation (Halbrendt *et al.*, 1991; Hair *et al.*, 1999);

$$RI(\%) = \frac{\max U_i - \min U_i}{\sum (\max U_i - \min U_i)} \times 100$$

where  $RI$ , is the relative importance,  $\max U_i$  is the maximum utility and  $\min U_i$  is the minimum utility.

Subsequently, and on the basis of the relative importance that consumers gave different attributes individually, a multivariate segmentation analysis of K-average conglomerates was made using the *Quick Segmentation Analysis* (SPSS, 2009) algorithm.

Finally, to detect ethnocentric attitudes in wine consumers from Madrid and Barcelona, the 17 items appearing on the CETSCALE were included in the survey. Consumers were asked to evaluate them from 1 to 7 where 1 was complete disagreement and 7 was complete agreement. Scoring from the scale for each individual may vary between 17 and 119 points<sup>3</sup>. The lowest and the highest values were for the least and the most ethnocentric consumers respectively. Then

<sup>3</sup> The internal consistency reliability of the instrument can be measured by Cronbach's alpha. The Cronbach's alpha measure of reliability assumes that items (measured on a Likert-type scale) measuring the same construct will be highly correlated (Welch and Comer, 1988). The closer the alpha value is to 1, the greater is the internal consistency of the items measured. As a general criterion, George and Mallery (2003) suggest that a Cronbach's alpha of >0.9 is excellent. In our case, it is 0.963.

ethnocentric attitudes of each segment were determined (Shimp and Sharma, 1987).

## RESULTS AND DISCUSSION

In general, wine consumers in Madrid and Barcelona prefer aged wine, of aging and reserve type, and if possible, one they have previously tasted, although consumers from Barcelona are the ones showing greater predisposition to try new wine. What really differentiates consumers from Madrid compared to those from Barcelona is that while the former tend to prefer inexpensive wine from any origin other than from their own region, the latter basically prefer wine elaborated in their own region. This circumstance, in

turn, leads to price not playing such an influential role.

The population was segmented according to the relative importance conceded to wine attributes. Three segments of wine consumers were detected with significant differences in each city that differed among themselves in preference structure. In Madrid and Barcelona the first segment grouped wine consumers together who considered the price of the wine as its most important attribute. The second segment included those who considered the origin of the wine as the most important attribute. The third segment particularly valued the type of wine (Table III).

**Table III**  
Utilities assigned to attribute levels

*Níveis de utilidades dos atributos*

Attributes and levels	Madrid (n=400)						Barcelona (n=400)							
	S.D.	Seg. 1 PRICE (31.7%) <sup>†</sup>		Seg. 2 ORIGIN (30.0%) <sup>†</sup>		Seg. 3 TYPE (38.3%) <sup>†</sup>		S.D.	Seg. 1 PRICE (33.4%) <sup>†</sup>		Seg. 2 ORIGIN (36.7%) <sup>†</sup>		Seg. 3 TYPE (29.9%) <sup>†</sup>	
		RI (%)	U	RI (%)	U	RI (%)	U		RI (%)	U	RI (%)	U	RI (%)	U
Price	**	74.01	10.47	16.63				56.86	15.64	35.15				
4 €	**		2.14	-0.11	0.39	**		-0.66	0.28	0.87				
6 €	**		-0.17	0.24	0.06	**		0.16	-0.13	0.06				
8 €	**		-1.97	-0.13	-0.45	**		0.50	-0.15	-0.93				
Origin	**	9.93	60.47	8.32		**	7.84	57.09	8.01					
Castile-La Mancha	**		0.22	0.87	0.16	**		0.08	-0.84	-0.05				
Local Area	**		-0.33	-1.21	-0.26	**		0.00	0.73	0.23				
National	*		0.11	0.34	0.10	**		-0.08	0.11	-0.18				
Type	**	9.93	12.21	65.15		**	13.73	26.54	50.98					
Current year	**		-0.35	-0.18	-1.91	**		-0.10	-0.28	-1.65				
Aging	**		0.20	0.24	0.53	**		-0.08	-0.17	0.69				
Reserve	**		0.15	-0.06	1.38	**		0.18	0.45	0.96				
Tasted previously	**	6.13	16.85	9.90		**	21.57	0.73	5.86					
Yes			0.17	0.29	0.25	**		0.22	-0.01	0.15				
No			-0.17	-0.29	-0.25	**		-0.22	0.01	-0.15				

<sup>†</sup> Size of the segment; S.D.: Significant Differences; RI= Relative Importance; U= Utility; \*\* and \*, correspond to 1% and 5% maximum error levels, respectively.

Considering significant differences in attributes by segments in Madrid, it was found that regarding *price*, wine consumers from the first segment were those who valued low prices the most (up to 4 € for a ¾ litre bottle). Consumers from the second segment were those who valued high prices (6 € per ¾ litre bottle), perhaps because they might have a behaviour of judging quality by the price.

Regarding the *origin* attribute, consumers from the second segment were those who valued the wine origin the most of all three segments: positively (those from Castile-La Mancha and national wines) as

well as negatively (those from their own region). Lastly, regarding the *type* attribute, consumers from the third segment were the ones who valued aged wine the most (aging and reserve) while those from the second segment were the ones who most valued young wine or wine from the current year.

Considering significant differences in attributes by segments in Barcelona, it was found that regarding *price*, wine consumers from the third segment were the ones who valued low prices the most (up to 4€ per ¾ litre bottle). Consumers from the first segment

were the ones who valued high prices the most (6€ per ¾ litre bottle).

Regarding the *origin* attribute, consumers from the second segment were those who valued the origin of the wine the most, positively (those from their own region and national wine) as well as negatively (those from Castile-La Mancha). Lastly, regarding the *type* attribute, consumers from the third segment were the ones who valued aged wines the most (aging and reserve) while those from the first segment were the ones who valued young wines or those from the current year the most.

Considering significant differences from comparing wine consumer segments from Madrid to those from Barcelona, with a 1% maximum level of error, it was

found that regarding *price*, consumers from Madrid chose less expensive wines than those from Barcelona. Regarding *origin*, wine consumers from Madrid preferred wines whose origin was different from those of their own region and preferred those from Castile-La Mancha. Consumers from Barcelona preferred wine from their own region, and in any case, national wine other than those from Castile-La Mancha. Lastly, regarding the *type*, wine consumers from Madrid as well as those from Barcelona preferred aged wines, although those from Barcelona were the ones who preferred them aged longer.

The socioeconomic characteristics of consumer segments depending on their preferences in wine consumption are shown on Table IV.

**Table IV**  
Socio-economic characteristics of consumer segments (%)  
*Características socioeconómicas dos segmentos de consumidores (%)*

Variables	Madrid (n=400)				Barcelona (n=400)			
	S.D.	Seg. 1 PRICE	Seg. 2 ORIGIN	Seg. 3 TYPE	S.D.	Seg. 1 PRICE	Seg. 2 ORIGIN	Seg. 3 TYPE
Gender								
<i>Male</i>		43.4	45.2	53.1		53.0	43.4	45.8
<i>Female</i>		56.6	54.8	46.9		47.0	56.6	54.2
Age (in years)					**			
18-24		11.5	7.0	11.6		9.8	2.7	6.8
25-34		18.9	22.6	19.0		25.8	15.9	23.7
35-49		24.6	35.7	27.9		23.5	28.3	30.5
50-64		18.9	19.1	23.1		18.9	24.8	20.3
≥ 65		26.2	15.7	18.4		22.0	28.3	18.7
Education	**							
<i>Grade School</i>		45.9	20.0	24.5		25.7	30.4	22.9
<i>High School</i>		24.6	37.4	38.1		45.5	37.9	49.1
<i>College</i>		29.5	42.6	37.4		28.8	31.7	28.0
Work role								
<i>Housewife</i>		14.8	10.4	8.8		6.8	8.3	7.6
<i>Employee</i>		36.8	47.0	51.0		49.2	52.4	46.6
<i>Student</i>		11.5	7.8	8.2		3.0	1.4	8.5
<i>Businessman</i>		2.5	11.3	4.8		11.4	10.3	10.2
<i>Retired</i>		27.0	16.5	19.7		16.7	22.1	15.2
<i>Other</i>		7.4	7.0	7.5		12.9	5.5	11.9
Monthly family net income (€)	**							
< 900		16.4	9.6	8.8		9.1	9.7	10.1
900 to < 1,500		27.0	22.6	23.8		25.7	31.0	24.6
1,500 to < 2,100		33.6	19.1	31.3		25.8	24.8	33.9
2,100 to < 3,000		16.4	29.6	23.8		25.8	22.8	24.6
> 3,000		6.6	19.1	12.2		13.6	11.7	6.8

S.D.: Significant Differences; \*\* Indicates significant differences with a maximum error of 1%.

In Madrid, a significant relation is noticed between the wine chosen and the level of education and net monthly family income. In this sense, consumers who chose wine for its *price* frequently had a primary education. Those who chose it for the *type* of wine had a secondary education and those who did it for the *origin* of the wine, a higher education. This was corroborated with net monthly family income, because segment 1 is the one that has a lower average income and chooses by *price*. Segment 3, having a higher income, chooses by the *type* of wine. Segment

2 has the highest income and chooses by the *origin* of the wine, perhaps due to the presence in this segment of a higher percentage of businesspeople.

In Barcelona, the only significant relation to the wine chosen regarded age, so that the youngest wine consumers (segment 1) chose it for its *price*, the medium aged consumers (segment 3), for the *type* of wine and lastly, older consumers, for its *origin* (segment 2). The latter, but without significant

differences, were also the ones who had a higher educational level.

Additionally and as a complement to the socioeconomic characteristics of the wine consumer segments, it was proposed to determine whether the

effect of *origin* in the choice of a wine was due to consumer ethnocentrism as defined in the methodology by Shimp and Sharma (1987): the preference of products from one's own region in detriment to those from other regions (Table V).

**Table V**

Average values from the CETSCALE variables

*Valores médios das variáveis CETSCALE*

Variables	Madrid			S.D.	Barcelona		
	S.D.	Seg. 1 PRICE	Seg. 2 ORIGIN		Seg. 3 TYPE	Seg. 1 PRICE	Seg. 2 ORIGIN
1. [†] consumers should always buy products...	2.31	2.23	2.20		2.73	2.86	2.51
2. Only those products that are not available in [†] should be imported...	2.19	2.17	2.48		2.89	2.83	2.53
3. Buying products from [†] means saving jobs in our region...	3.34	3.26	3.14		3.41	3.51	3.19
4. [†] products should be considered as the first, last and most important...	2.02	2.45	2.27		2.98	2.97	2.63
5. Purchasing products made outside the region is anti-[†]...	1.71	1.51	1.69	**	2.15	2.47	1.71
6. It is not good to purchase products made outside the region because...	2.27	2.02	2.22	**	2.58	2.56	2.03
7. A true [†] consumer should always buy products made in [†]...	1.97	1.99	1.96		2.42	2.46	2.13
8. We should purchase products made in [†] instead of allowing other...	2.22	1.95	2.03	**	2.46	2.68	2.04
9. It is best always to purchase products made in [†]...	2.05	1.97	2.16	*	2.56	2.83	2.36
10. There should be very little commerce or acquisition of goods...	2.01	1.97	2.14	*	2.60	2.76	2.27
11. [†] consumers should not purchase products from other areas...	2.23	1.91	2.28	**	2.50	2.66	1.97
12. All imports should be curbed...	1.89	1.69	2.01	**	2.32	2.32	1.81
13. It may cost me more in the long run but I prefer to support [†] products...	* 3.63	3.30	3.04		3.15	3.34	3.15
14. People from other regions should not be authorized to place their products.	2.25	2.40	2.35	*	2.40	2.63	2.18
15. Products from other regions should be heavily taxed to reduce their...	2.38	2.66	2.54		2.86	2.84	2.58
16. We should only purchase from other areas those products that...	2.57	2.56	2.56		2.88	3.00	2.65
17. [†] consumers who purchase products made in other regions...	1.93	1.83	2.12	**	2.27	2.39	1.86
<b>TOTAL</b>	<b>38.96</b>	<b>37.85</b>	<b>39.18</b>		<b>45.16</b>	<b>47.11</b>	<b>39.60</b>

Source: Our own elaboration based on Shimp and Sharma (1987)

† Madrid/Barcelona; S.D.: Significant Differences; \*\* and \*, correspond to 1% and 5% maximum error levels, respectively.

In general, consumers from Madrid and Barcelona did not show a clear ethnocentric behaviour regarding the products elaborated in their region since the values obtained on the CETSCALE were below the half-way point in the scores of the scale (68 points). Nevertheless, consumers from Barcelona are more ethnocentric than consumers from Madrid.

Wine consumers from Madrid as well as those from Barcelona chose wine for its *origin*. The former were less ethnocentric, searching for the more inexpensive wine. The latter looked basically for wine from their region. Comparing both consumer segments, from Madrid and from Barcelona, significant differences appear regarding origin, with a 1% maximum level of error in items 5, 8, 9, 10, 11, and 12, and with a 5%

maximum level of error in items 1, 2, 4, 6, 7, and 17. Therefore, it was verified that wine consumers from Barcelona are more ethnocentric than consumers from Madrid.

To end this section, it must be pointed out that the consistency of the results derived from the Conjoint Analysis technique and those obtained by using the CETSCALE, reinforce and complement one another.

Some authors find that consumers indicate low price as a clear reason for their choice of wine (Albiac *et al.*, 1986). Meanwhile, others find that consumers select wine according to the region of origin, assuming that wine derives its singularity from a specific geographical location. These authors indicate

that origin can provide producers with a sustainable competitive advantage since it is unique, truly differentiable and directly connected to the tangible quality of the product (Thode and Maskulka, 1998). Moreover, origin can override preferences for low prices.

In fact, in various papers the area of origin has shown its importance in consumer wine choice (Gil and Sánchez, 1997; Skuras and Vakrou, 2002; Martínez-Carrasco *et al.*, 2006). Nevertheless, Loureiro (2003) found that consumers willing to pay more for wine labelled with the Colorado (USA) origin, would pay only a little more for it and concluded that what is really important is to establish a good reputation for quality.

Shimp and Sharma (1987) carried out an early study in which they analysed the effect of ethnocentrism on the choice of a product. They defined it as “beliefs held by consumers about the appropriateness or morality of purchasing foreign products” since the purchase of foreign products harms the domestic economy and causes job losses.

Therefore, non-ethnocentric consumers evaluated products on their own merits without considering where they were made. Shimp and Sharma (1987) indicate that consumer ethnocentrism moderately predicts consumer beliefs, attitudes and purchasing intentions as well as their level of purchasing. Several authors establish that consumer ethnocentrism is one of the aspects that helps predict consumer judgements about the quality of acquired products (Netemeyer *et al.*, 1991; Sharma *et al.*, 1995).

It must be pointed out that CETSCALE scores were low in both of the markets under analysis (39.18 for the most ethnocentric segment from Madrid and 47.11 for the most ethnocentric segment from Barcelona), especially when compared to similar studies conducted in our country: 65.29 in the Community of Valencia (Brugarolas *et al.*, 2009) and 70.87 in the province of Valencia (Marín, 2005).

This difference could be due to the fact that research by Marín and Brugarolas *et al.* was carried out in

wider territories that included both large and small population nuclei, while the study described here was conducted in the two most populated Spanish cities.

## CONCLUSIONS

According to the preferences declared by wine consumers, in Madrid the most preferred wine was the lowest priced one, in Barcelona the most preferred was the one originating in their own region. In this sense, it is significant that while wines produced in Madrid region are the least preferred by Madrid consumers, wines produced in Catalonia are the most preferred by consumers from Barcelona.

From the analysis of wine consumer preferences, from their socioeconomic characteristics and degree of ethnocentrism, it seems to follow that there are commercial opportunities in the Madrid market for wine elaborated in Castile-La Mancha. Given its production structure, it can compete generically at low prices. Although it can also compete at medium prices for those consumers who prefer wine for its origin, who in turn are the ones who have greater purchasing power.

In Barcelona, market opportunities for Castile-La Mancha wines are scarce since, either they are unfamiliar or they are simply not preferred. To overcome that unfamiliarity with Castile-La Mancha wines there is no other solution than to conduct several communication strategies, jointly and mutually shared by the designations of origin, in favour of the wines produced in Castile-La Mancha, and by the wineries individually, to offer aged wine at reasonable prices with the object of attracting the most innovative wine consumers.

Finally, future lines of research should specifically include wines from other countries in the markets of Madrid and Barcelona, determining their level of acceptance among consumers in these markets, drawing on the structure of their preferences and their degree of ethnocentrism.

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