# FORUM EMPRESARIAL

Vol. 16. Núm. 1 · mayo 2011

### REVISTA FORUM EMPRESARIAL

Publicado semestraimente por el Centro de Investigaciones Comerciales e Iniciativas Académicas (CICIA) Facultad de Administración de Empresas. Universidad de Puero Rico

Dr. Miguel A. Muñoz / Presidente Dra. Ana R. Guacalupe / Rectora Dr. Paul R. Latortue / Decano

Director CICIA Anibal Báez Diaz, Ph.D.

Editora Camille Villafañe Rodriguez, Ph.D.

Oficial Administrativa Olga E. González Dieppa, MA

Diseño Gráfico Sr. Marcos Pastrana Comunicación Gráfica

Revisión de Estilo Dra. Zoraida Fa, ardo Dra. Aida Andino Prof. Ivelisse Hemández

Toda corresponciencia debe dirigirse a: REVISTA FORUMEMPRESARIAL PO BOX 23332 SAN JUAN, PR 08931-3332 Correo electrónico: forum.empresarial@upr.edu

Forum Empresarial està indizada en: Red ALYC, Latindex, CONUCO, UFASTA, Vida digital y WorldCat.

Puede acceder este volumen en nuestro portal en la Internet http://cicla.uprrp.edu/fonan.html.

ISSN 1541-8561 Forum Empresorial C, 2011

# FORUM EMPRESARIAL

Vol. 16. Núm. 1 · mayo 2011

# Índice

- MORAIMA DE HOYOS RUPERTO / CARMEN I.
   FIGUEROA MEDINA
   Entrepreneurial Education as a Strategy for Global
   Competitiveness: Entrepreneurship Challenge in Puerto
   Rico
- 25 FLORA MARÍA DÍAZ-PÉREZ / MARYSELA COROMOTO MORILLO-MORENO / MARÍA BETHENCOURT-CEJAS The User Gap (Perceptions-Expectations) in Tourism Accommodations Services in Mérida State, Venezuela
- 59 SILVIA LÓPEZ PALÁU / BEATRIZ RIVERA-CRUZ El razonamiento bioético y la orientación hacia responsabilidad social empresarial de los estudiantes de negocios
- 103 Anuncios

# FORUM EMPRESARIAL

Wall Sti. Horn. 1 - mayo. 2011 / psp. 25-57.

# The User Gap (Perceptions-Expectations) in Tourism Accommodation Services in Mérida State, Venezuela<sup>1</sup>

Flora Maria Díaz-Férez / fdiazp@ull.es University of La Laguna Tenerife, Spain

Marysela Coromoto Morillo-Moreno / marysela.morillo@gmail.com University of Los Andes Mérida, Venezueli

Maria Yolanda Bethencourt-Cejas / mbethen@ull.es University of La Laguna Tenerife, Spain

#### BABSTRACT:

The present research focuses on service quality in tourism accommodation, measured using a combination of the Serviquel model, which measures quality from the user's/turist's perspective, and the 5-gaps model, in an attempt to account for the discrepancy between client expectations and perceptions. The measurement allows us to infer a service quality shortfall given that expectations exceed perceptions. A quality shortfall was noted in both seasons. Moreover, differences in average Serviqual scores were found to exist only among the user groups defined by their level of education and earnings.

Keywords: service quality, tourism, Serviqual model, five gaps model.

#### RESUMEN:

La presente investigación sobre la calidad del servicio turístico, utilizando una combinación del modelo de Servigual, que mide la calidad de la perspectiva del usuario/ turista, y el modelo 5 brechas, en un intento de explicar la discrepancia entre las expectativas y las percapciones de los clientes. La medición permite que deduzcamos un déficit de calidac del servicio dado que las expectativas sobrepasan las percepciones. Un déficit de calidad fue notado en ambas temporadas de turismo. Además, las diferencias en los resultados promedios del modelo Servigual sólo se encontraron entre los grupos de usuarios definidos por su nivel de educación e ingresos.

Palabras clave; calidad cel servicio, turismo, modelo de Servqual, modelo de las cinco brechas.

<sup>&</sup>lt;sup>1</sup> This paper is part of M.C. Morillo-Moreno Doctoral Dissertation (July, 2010); affiliation: University of Los Andes, Mérida, Venezuela. M. Díaz-Pérez and M<sup>a</sup> Bethencourt-Cejas served as advisors of M.C. Morillo-Moreno Doctoral Dissertation; affiliation: University of la Laguna.

#### INTRODUCTION

In the context of the current Venezuelan (Mérida State) development strategies, many advocate strengthening tourism to complement the country's existing economic structure, particularly given tourism's employment and growth potential.

In order to be competitive in the tourism sector and to put in place actions and strategies to improve service quality, one first needs is to obtain information using models for measuring service quality in tourist accommodation. To that end, research was carried out to analyse the quality of tourism accommodation services in Mérida, using the Servqual model for measuring service quality and the service quality gap model, for the purpose of formulating strategies to help raise, maintain and monitor quality during and after service delivery.

This work is organised as followed: first, literature about quality conceptualization and its measurement is presented; second, methodology that includes objectives and hypotheses, data collection procedure and statistic analysis is applied; third, results; and finally, it ends with some conclusions and recommendations,

#### BACKGROUND

Given that service quality is conceptualized from the customer perspective, so too must its measurement. While acknowledging, as Cantú (2006) does, that the intangible aspects of service cannot be quantified readily or fully, it is equally true that client expectations are commonly misinterpreted. Nevertheless, this situation should not serve as a pretext to avoid measuring expectations. On the contrary, as Denton (1991) and Pride and Ferrell (1997) argue, measurement is essential for service providers since it helps them know how they are evaluated by clients and why clients prefer some providers ahead of others. For Albercht (1990) and Denton (1991), evaluating service means closing the circle with a comprehensive feedback system that reinforces service quality, helping managers and employees take remedial action and constantly aim to increase the levels of quality. Otto and Ritchie (1996), for their part, argue that measuring service quality contributes to an understanding of murist satisfaction.

Certain characteristics of services can, according to Deming (1986), be measured easily (time taken to deal with a customer enquiry, number of complaints and employees, spaciousness of facilities), as can aspects or characteristics of basic manufactured goods: sangible aspects, to use Cantú's term (2006). One advantage of meassuring service quality in the opinion of Deming (1986) is that customreact immediately to what they perceive to be good or bad servwe, whereas with tangible products this reaction comes with a delay, given the delivery and storage processes involved. However, service's unique characteristics (intangibility, heterogeneity, simultaneity of consumption and production, and perish ability) necessitate different customer evaluation processes to those used to evaluate goods.

For Lovelock and Wirtz (2008) and Zeithaml, Parasuraman and Berry (1985), the pioneers of service quality evaluation, customeroriented performance measurements offer several advantages, although the same authors warn that the process is complex and multidimensional given that clients' judgement (perceptions) incorporates aspects associated with the service outcome and the delivery process. Accordingly, the inclusion of client expectations in the measurement has its risks because, if a client has low expectations of a service, any perception of the service will surpass his expectations even though this does not necessarily mean the service is of high quality. Moreover, evaluations of services which offer high credibility for clients may never succeed in knowing or evaluating whether the work was performed well due to the complex nature of the service. For this reason, clients use other dimensions (functional quality) which are easily measured but can differ greatly from the real outcome (technical quality).

Despite the above caveats, Lovelock (1997) notes that it is impossible to control something that cannot be measured. Without measurement, managers caunot identify the current position of their company, which is why Cantú (2006) and Denton (1991) view measurement as the basis for improvement.

For experts such as Cantú (2006), Díaz, F. et al. (2006), Gutiérrez (2001), Hoffman and Bateson (2002), service quality analysis comprises a series of conceptual models and instruments that allow these models to be implemented for the purpose of evaluating service quality, including in tourist accommodation.

The present research focuses on service quality in tourism accommodation, measured using a combination of the Servqual model, which measures quality from the user/tourist perspective, and the 5-gaps model, in an attempt to account for the discrepancy between client expectations and perceptions. In effect, these discrepancies are statistically evaluated by a factorial analysis of variance (ANOVA), which allows measure not only individual but also combined effect of two or more factors (independent variables) over a quantitative variable (dependent) characterized by the difference between customer expectations and perceptions.

# EXPECTATIONS-PERCEPTIONS GAP MODEL

Service quality can be measured by considering the difference or gap between the value the client expects and that which he perceives, as conceptualized by Santomá (2004) in his study of hotel quality in a number of European cities<sup>2</sup>. Following Díaz, F. et al. (2006), service quality can be measured quantitatively using the coefficient shown in Figure 1 below:

Figure 1: Service quality coefficient

Q = Quality perceived / Quality expected

Source: From Díaz, F. et al. (2006, p. 289)

In this approach Diaz, F. et al. (2006) and Santomá (2004) indicate that the quality coefficient can produce three possible outcomes: quality is optimal when perceptions match expectations, giving a coefficient of I. A coefficient below 1 indicates a quality shortfall; in the mind of the client the services are not quality services and he is unhappy because he has not received what he expected, that is, his service expectations exceeded his perceptions. Conversely, a coefficient above 1 indicates an excess of quality, which is not expected or requested by the user.

### FIVE DIMENSIONS/CRITERIA MODEL

Based on their extensive research, Zeithaml, Parasuraman and Berry (1985) identified 10 service-quality criteria or dimensions (credibility, courtesy, communications, access, tangibles, security, responsiveness, competence, reliability and understanding/knowing the client). A high degree of correlation was discovered between these variables, which were subsequently condensed into five more practical dimensions (tangibles, empathy, assurance, responsiveness and reliability) for use by tourist organizations.

Tangibles cover the aspects and physical appearance of all the elements involved in service delivery. These elements are extremely important given intangibility or lack of a physical product in the client transactions.

Empathy is the capacity to put oneself in the customer's shoes, to experience the feelings of another person (client) as if they were our own; it means 'not forgetting how the customer feels' through personalized attention, the accessibility of the services for the client and good communication with the latter.

Assurance reflects the knowledge and skills required to provide the service, as well as the courtesy, credibility, honesty and integrity of the service provider, along with security in the transactions, expressed in the form of the absence of risk or danger.

Responsiveness refers to a responsive attitude, punctuality, promptness and service vocation, as well as the capacity to respond to queries and deliver service, demonstrating a preparedness to do so.

Reliability refers to the ability or capacity to provide the promised service dependably and accurately, with consistency of performance.

<sup>&</sup>lt;sup>2</sup> As a genera rule, the following equation is used: Quality = Perception – Expectations (Sansoná, 2004).

# GAP MODEL OF SERVICE QUALITY

Quality has been studied conceptually in terms of the gaps between the expectations and perceptions not just of clients but of service employees and managers also. This is the concept of service quality put forward by Parasuraman, Zeithaml and Berry in their 1985 work A Conceptual Model of Service Quality and Its Implications for Future Research and, later, in Delivering Quality Service (1990). The model has been studied and considered since then by a broad range of experts in tourism, marketing and services, including Hoffman and Bateson (2002), Kotler et al. (2005), Lovelock (1997), and Zeithaml and Bitner (2002).

According to Santomá (2004), even when a client's expectations are fully known and the service is designed to meet said expectations, service quality can often fall short due to the difference between expectations and perceptions, a situation known as the dient gap, in which diverse factors play a part.

The second gap arises as a result of the failure to select the correct service design and standards. The third gap exists where the expectations of the clients have been understood clearly and the required design and standards have been put in place, but the systems, processes and individuals do not guarantee service implementation equal to (or above) the standards (Zeithaml and Bitner, 2002). The fourth gap arises when the service delivered fails to match what has been promised to the client.

# METHODOLOGY

## OBJECTIVES AND HYPOTHESES

Objective 1: To establish the discrepancies which exist between user expectations and perceptions (user gap), when using the dimensions that determine quality in tourism accommodation services in Mérida State, in order to assess the quality of the services.

Specific objective 2: To determine the role of user income level, education, age and sex, when assessing discrepancies between expectations and perceptions, during high and low tourism seasons.

Hypothesis 1: User expectations with respect to tourism accommodation services in Mérida State are surpassed by the perceptions of the service received, and hence these can be considered quality services.

Hypothesis 2: Independent variables: income level, education, sex, and age of users affect the value reached by those discrepancies between customer expectations and perceptions during high and low tourism seasons.

#### DATA COLLECTION

In line with the objectives and hypotheses of the research, and the background, which is strictly linked to the variables contained in the objectives and hypotheses, the section which follows will outline the methodological aspects aimed at identifying, collecting and processing the information required to verify the aforementioned objectives and hypotheses.

### TARGET POPULATION

For the purpose of collecting the required data to study the reality outlined above and to achieve the objectives of the research and test the stated hypotheses, two target populations were defined: tourist accommodation and users.

As a prior step to the study of the target populations (accommodation and users), personal interviews were carried out with experts in the tourist sector. The information obtained assisted with the preparation of the definitive questionnaires. It should be noted that the content of questionnaires used are based on the Servqual scale, together with a section of user-demographic data. Although Cronin & Taylor (1992 and 1994), question how long and recurring Servqual is, besides that expectations are worthless, it is also considered that perceptions do not report the customer goals and values, or priorityservice areas; therefore the use of Servqual responded to the need of knowing quantitatively the user expectations, and of studying comprehensively the service process.

### Tourist Accommodation

To determine the sample size for the first target population to be studied (tourist accommodation), the minimum number of units of analysis needed for a sample (n) was calculated to ensure a standard deviation, at worst, of 5% or less. For a total population of 346 accommodation establishments, the sample size selected was 186.

Having established the sample size, the next step was to determine the sampling procedure, bearing in mind that the studied population comprises various sub-groups of establishments, each with their own characteristics (different categories of tourist hotel, inns, motels, special establishments and others). For each of these levels, sub-levels (geographical location) were identified to ensure full representation of establishments throughout the State of Mérida. Simple random probability sampling was used for the final selection of sampling elements within each layer.

### Users

The following criteria were followed as regards the size and selection of the sample of tourist accommodation users: first, two time periods were considered for the data collection (high and low season), and, second, the visitor numbers in each season were considered.

Bearing in mind that the tourist population in Mérida State during high season (Carnival, Easter, school holidays and Christmas) exceeds 100,000 visitors (Infinite population size), the maximum variance criterion (Hernández et al., 2006; Scheaffer et al., 1997) was used to calculate the sample and a sample size of 400 subjects was established.

To determine the size of the low-season user sample it was considered that the number of tourists visiting Mérida State in the season is below 100,000 (Table 1) (Finite population size). Accordingly, it was established that the minimum number of units of analysis required for a sample (n) guaranteeing a standard error of 5% or less was 397 users.

	Table 13	Average	number o	at visitors	to Merida	State acco	Table 11 Average number of visitors to Merida State according to season	meson	
SEASONS /Years	2000	2001	2002	2003	2004	2002	2006	2007	Arithmetic average
January - February	53,643	38,925	41,679	33,539	42,947	53,395	29,361	•	44021.30
Camival	890,08	85,409	93,529	90,794	101,556	111,067	128,188	136,870	
March - April	45,522	20,469	55,409	59,097	64,041	20,560			44183
Easter	238,473	231,903	243,540	234,890	237,424	190,064	233,217	234,039	
April - May	51,857	38,665	54,286	88,128	89,328	180,137			68393.50
June - July	37,316	38,824	12,621	\$6,808	36,254	71,438			45543.50
School Holidays	170,461	223,664	184,946	236.610	244,268	259,798	270,230	•	-
16 Sept October	52,618	49,321	28,788	50,933	50,967	48,778		*	46899.16
November - 14 Dec.	22,861	28,233	25,871	94,212	95,717	115,852	*	*	63457.68
Christmas	108,446	149,461	39,096	185,310	213,000	222,763	226,117	<b>5</b> 7	
TOTALS	2011.065	790 000	790 735	1.110.321	900 864 799 735 1 110 321 1 175 561 1 163 292	1.163.292	•	٠	52063.02

DIAZ-PEREZ / COROMOTO MORILLO-MORENO / BETHENCOURT-CEJAS

Table 2: Descriptive Statistics for Level of Exp	ectations and Perceptions
--	---------------------------

	_	Table 2. Description		Expect	tations			Perc	eptions	
	_	Tourism seasons	Hig	h	Lov	v	High		eptions Low N Valid 397 397 397 397 397 397 397 397 397 397	
		Servoual Scale Items	N Valid	Md	N Valid	Md	N Valid	Md	N Valid	Md
Sho   Wh	When the firm promises to do something by a certain time, they should do so	399	4	397	5	400	2	397	4	
	2	When customers have a problem, the firm should show sincere interest in resolving it	y a certain time, they 399 4 should show sincere 398 4 should show sincere 398 5 agreed time 400 5 sely 400 5 compt and sincere in-397 5 ampt service from the 400 5 spond to customer 400 4 ass of the firm 400 4 heir transactions with 400 5 399 5	397	5	400	5	9000	5	
	3	The firm should perform the service well habitually	399	5	397	5	399	-5		5
	_	The firm should perform the service at the agreed time	400	5	395	5	399	3		5
	_	The firm should keep their records accurately	400	5	397	5	398	5	395	5
Responsiveness:		They should not be expected to provide prompt and sincere in- formation on all conditions of the service*	397	5	397	5	400	4	397	4
	7	It is not realistic for all guests to expect prompt service from the firm's employees "	400	5	395	5	400	5	394	5
	8	Hotel employees do not always need to be willing to help oustomers *	400	5	396	5	400	5	1d N Valid 2 397 5 397 5 397 5 395 4 397 5 397 4 397 5 397 5 397 5 397 5 397	5
	9	It is not important if they are too busy to respond to customer requests promptly*	400	4	397	5	400	971		5
Assurance:	10	Customers should be able to trust employees of the firm	400	4	396	4	399	5	397	5
	11	Customers should be able to feel safe in their transactions with the firm's employees	400	5	396	5	398	785	5753	5
	12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	399	5	395	5	400	5	397	5
	-	The employees should get adequate support from the firm to	400	5	397	5	400	5	Low N Valid 397 397 397 397 397 397 397 397 397 397	5

Empathy:	14	The firm should not be expected to give customers individual- ized attention*	400	5	397	5	400	3	397	4
	15	Employees of the firm should not be expected to give custom- ers personal attention *	400	5	397	5	399	5	397	5
	16	It is unrealistic to expect employees to know what the needs of their customers are *	400	5	397	5	400	4	397	4
	17	It is unrealistic to expect the employees of the firm to have the customers' best interests at heart *	400	4	397	4	400	4	397	4
	18	The firm should not be expected to have operating hours convenient to the different types of customer *	399	5	397	5	399	5	397	5
Tangibles:	19	The firms should have up-to-date equipment and new technolo- gies	400	4	397	5	399	5	397	5
	20	The firm's physical facilities should be comfortable and visually appealing	399	5	395	5	399	5	394	5
	21	The employees should be well dressed and appear neat	400	5	397	5	400	5	395	5
	22	The material elements and documentation associated with the service offered should be visually appealing	399	5	397	5	399	5	392	5

Source: Compiled using data collected by the author. Md: Median. 5: Entirely agree. 4: Moderately agree. 3: Neither agree nor disagree. 2: Moderately disagree. 1: Disagree entirely.

Table 3: Likert Scale for Measuring User Service

Expectations and Perceptions

Total Litert Scale Score	(110-88) Very high expectations and perceptions	(95 - 66) Moderately high expectations and perceptions	(SE-44) Indifferent	(64 - 22) Moderately low expectations and perceptions	(22 - 0) Very low expectations and perceptions
Season	н	igh		Low	
Likert Score, Average Expectations	10	0.21		102.49	
Litearts Score. Average Perceptions	9	6.41		99.96	

Source: Based on data from Hernandez et al. (2006) and data collected by the author.

In order to further confirm the above and test Hypothesis 1, a T test was performed for dependent samples (two-way hypothesis contrast) in each of the two tourism seasons to infer differences between the average expectations and perceptions of Table 2. As the results given in Table 4 show, it can be stated with 95% confidence that significant differences exist between the average scores for expectations and perceptions, given that the critical value of the test is below 0.05 (ps 0.05) and the null hypothesis that assumes equal averages can therefore be rejected. The confidence interval values for the inferred difference show with 95% confidence that the expectations score is higher than the perceptions score (quality shortfall).

Related sample statistics	de statistics			Mean	×	Standard deviation	lon from	Wean sta	Wean standard error
Pair 1	Total Likert scale user expectation score	3J005 I		100,2100	400	53743	27	LA	2887
High Sesson	Total Litert scale user perception scare	2000		96.4050	400	7.8872	27	100	3948
Pair 1 Low Season	Total Likert scale user expectation score Total Likert scale user perception score	9,0008		102.4812	387	4.8879	138	ed ad	2853
Related samp	Related sample correlations						z	8	R
Par 1 Hgh Season	Total Likert user expectation score and Total Likert user perospison score	latof bna i	Nort user pero	aucos uogda			900	900-	906
Pair 1 Low Season	Total Libert user expectation score and Total Libert user perception score	and Total	Jkert user perce	aucos uoga			383	790	25
			Ref	Related offerences	20		+	5	Sg
<b>L</b>	Related Samples test	Mean	Standard	Mean	Mary of the control o	35% confidence Internal of the difference			(fear)
			OSENSO	emor	Upper	Lower			
Pair 1 High US Sesson US	Total user expectations score - Total user perceptions score	3306	9.579	4789	2.8634	4,7468	787	388	000
Pair 1 Low 150 South 150	Total user expectations score - Total user perceptions score	2531	8361	4196	1,7064	3.3564	603	396	900

Source: Based on data collected by the author and processed with SPS statistics suite, version 15

Table 7: T test for one Sample

One sample stati	27.773			N	Mean S	Stand, Dev.	Standard Error Mean
High Season	Total Servqual score			400	1700	.4450	.0220
Low Season	Total Servqual score			397	1200	.3770	019
High Season	Servoual score for the Reliability Dimension			395	-,4330	.7257	.0365
	Serviqual score for the Responsiveness Dimension		- 2	397	2399	.4580	.0229
	Servicual score for the Assurance Dimension			396	.1086	.5438	.0273
	Serviqual score for the Empathy Dimen sion			398	5408	.6195	.0310
	Servqual score for the Tangibles Dimension			397	.1597	.5000	,0250
Low Season	Servoual score for the Reliability Dimension			393	.0015	.6556	.0330
rare.co.v.aa.	Servqual score for the Responsiveness Dimension			392	- 2022	.3417	.0172
	Servoual score for the Assurance Dimension			394	.1390	4245	.0213
	Servoual score for the Empathy Dimension			397	4691	.5428	.0272
	Servoual score for the Tangibles Dimension			386	0848	.5220	.0265
One sample test				(4,4)4	st value = 0		
		-	Sak	-1-1-1-1	Means	95% conf	dence interval liflerence Upper
	V-0.00000000000000000000000000000000000		df	Sig. (2-way)	difference	Lower	Upper
High Season	Total Servqual score	-7.640	399	.000	-,.70		
Low Season	Total Servqual score	-6.473	396	,000	12	20160	0900
High Season	Servoual score for the Reliability Dimension	-9.401	394	.000	-,34	32415	1 -2715
- 0.0	Servoual score for the Responsiveness Dimension	-10.437	396	.000	23		
	Servoual score for the Assurance Dimension	3,973	395	.000	.10	85 .054	
	Servoual score for the Empathy Dimension	-17.414	397	.000	54	08601	
	Servoual score for the Tangibles Dimension	6,324	396	.000	.15	86 .109	4 .2080
Low Season	Servoual score for the Reliability Dimension	.046	392	.963	.00	15063	
	Servoual score for the Responsiveness Dimension	-11.713	391	.000	-20	21236	1 -,1682
	Servoual score for the Assurance Dimension	6.497	393	.000	.13		9 .1810
	Servgual score for the Empathy Dimension Servgual score for the Tangibles Dimension	-17.220	396	.000	-,46	91522	74156
		-3.193	385	.002	08	48137	10326

Source: Based on data collected by the author.

Table 8: Total and percentage distribution of users by Servqual Score According to Tourism Season and Servonal Scale Dimension

Dimensions and to	purism season	High Season	Low Sesson	Total
Servigual score	less than -2.00	- 1	1	9
or the Reliability		2.0%	.3%	1.1%
Dimension	from -2.00 to -1.20	37	20	57
[grouped]		9.4%	5.1%	7.2%
2	fram -1,20 to -0.40	132	84	216
	1011 100 10 111	33.4%	21.4%	27.4%
	from -0.40 to 0.40	160	175	335
	4901 4-10 0 0-1	40.5%	44.5%	42.5%
	greater than 0.40	58	113	171
		14.7%	28.8%	21.7%
Total		395	393	788
locat		100.0%	100.0%	100.01
Servousi score for	from -2.00 to -1.31	8	0	8
the Responsiveness		2.0%	0%	1.0%
Dimension	from -1.31 to -0.62	57	43	100
(prouped)	THE PURITY NAME	14.4%	11.0%	12.7%
	from -0.82 to 0.6	254	305	559
		64.0%	77.8%	70.0%
	greater then 0.6	78	44	122
		19.6%	11.2%	15.5%
Total		367	362	789
		100.0%	990.0%	100.01
Servigual score for the Assurance	from -2.00 to -1.19	12	1	13
Dimension		3.0%	.3%	1.6%
(grouped)	from -1.19 to0.37	56	45	101
(Brookers)		54.1%	11.4%	12.6%
	from-0.37 to 0.44	181	290	391
	- CONTRACTOR	45.7%	53.3%	49.5%
	greater than 0.044	147	138	285
		37.1%	35.0%	36.1%
	Total	366	354	790
		100.0%	100.0%	100,05
Serviqual score	less than 2.00	0	1	1
for the Tangibles		0%	3%	.1%
Dimension	from -2.00 to -1.19	5	11	16
[grouped]		1.2%	2.8%	2.0%
	from -1.19 to -0.37	42	76	118
		10.6%	19.7%	15.19
	from -0.27 to 0.44	238	257	495
		59.9%	96.6%	83.25
	Greater than 0.44	112	41	153
	250000000000000000000000000000000000000	28.2%	10.6%	19.51
-	Total	397	386	783
		100.0%	100.0%	100.01

Source: Based on data collected by the author.

The statistical tests performed, which reveal differences between expectations and perceptions, allow us to reject Hypothesis 1, concerning equality of expectations and perceptions. The test results point to acceptance of the alternate hypothesis, namely, that differences exist between users' expectations and perceptions with respect to service quality and that their expectations are higher than their perceptions. As a result, a shortfall in service quality is deemed to exist.

In order to establish which tourism season produced the highest Servqual scores (Table 8), the confidence intervals which estimate the level of score differences (Table 7) were examined closely. The examination allows us to infer that, with 95% confidence, the reliability dimension in high season produces more negative or least favourable scores, i.e. the Servqual score in low season is higher than in high season. On the other hand, the tangibles dimension in high season presents a more positive Servqual score than in low season.

Hypothesis 2: Independent variables: income level, education, sex, and age of users affect the value reached by those discrepancies between customer expectations and perceptions during high and low tourism seasons,

Factorial Analysis of Variance for Seroqual Scores. In order to o detect discrepancies in the Servqual scores between different user groups (Table 9), a factorial ANOVA5 was carried out for each of the two tourism seasons.

As the ANOVA shows, the critical level of statistic F (p = 0 < 0.05)indicates that the model explains a significant portion of the variation seen in the Servqual scores (independent variable), for both the high and low seasons. Specifically, the model indicates that a discrepancy exists only between the average Servqual score in user groups with different levels of earnings and education, and the average of that score is similar among those users grouped according to their age and sex. It indicates also that there is no interaction effect between the independent variables, given that the critical value of the test statistic is greater than 0.05 (Table 10).

<sup>3</sup> According to Parco and Ruiz (2002), factorial ANOVAs evaluate the individual and combined effect of two or more factors (categorical independent variables) on a quantitative dependent variable.

In order to identify which group of independent variables (user education and earnings) produced the highest scores, an ad hoc comparison was performed as part of the ANOVA and a profile chart generated. This revealed that, in order of importance, users with a university or higher technical education level presented the highest Servqual scores, followed by those with basic or secondary education and, thirdly, users with postgraduate studies (Table 11).

Table 9: Categorized Independent Variables of the ANOVA

Value Label
Male
Female
35 or below
Over 35
Basic or secondary education
University or higher technical education
Postgraduate university education
Less than Bs. 2000.00
More than Bs. 2000,00

Source: Based on data collected by the author. Bir Bolivar, Venezuelan currency.

Table 10: Factorial ANOVA for Mean Servqual Scores Inter-subject effect tests. Dependent variable: Total Servqual Score

High Season / Source	Type III sum	ď	Quadratic	F	Sig
Add of the action	of squares		mean		- 127
Adjusted model	20.630(a)	23	.897	5.821	.00
Intersection	4,396	1	4.366	28.335	.00
Gender	.062	1	.062	.402	.52
Agrigrouped	.209	3.	209	1,359	.24
Educgrouped	10.929	2	5.464	35.464	.00
Earningsgrouped	5,779	- 1	5.779	37.503	.00
gander * agagrouped	.145	3.	.145	.943	33
gender * educgrouped	.015	2	.008	060	.95
agegrouped * aductrouped	.224	2	.112	728	./45
gender * agagrouped *educgrouped	.087	2	.044	284	.75
gender * earningsprouped	.024	1	.004	155	,99
agogrouped * earningsprouped	.070	1	070	453	.50
gender " agagrouped "sarringsgreuped	.095	1	.065	420	.51
oducgrouped * sarringsgrouped	499	2	255	1.522	.31
gender "aductrouped earningsgrouped	.890	2	445		
spegrouped "educyrouped" samings-				2.888	.05
perser apertuped stuctioused	.119	2	.069	.386	.68
samingsgrouped	.284	2	.142	.921	.39
Error	58.067	364	.154	17.7	_
lotal	87.211	388	. 104		
Adjusted total	76.717	387		_	
R squared = 269	19217				
Adjusted R squared = 2235					
Low Season / Source:					
Adjusted model	10 68854	10	4 488	28 288	
ntersection	19,963(a) .097	16	1,198	12.196	.00
lander	.009	-	.009	.090	.32
Legitouped	.601	1	.001	.007	.93
Educgrouped	1,284	2	.642	6.541	.90
Earningsgrouped	.387	1		3.942	.54
gonder * ageglouped	.955	1	367	564	.45
gander * educgrouped	.095	2	003	333	75
accordined * eductroped	,098	1	.066	1.002	.75 35
pender " agegrouped " educgrouped	.001	1.	.001	.015	.90
pender " earningsgrouped	.039	1	D38	.394	.53
gegrouped * earningscrouped	136	1	.136	1.385	.24
ponder " agagrouped " samingagrouped	.000	1	.000	.003	.99
durgrouped * earningsprouped	.070	1	070	.713	.39
seducabed, edinologic per permits and seducabed, seducable and seducable	.014	1	.014	.147	.70
	.016	1	.015	.165	.68
suger adeducebet, egnistombed,	.000	0			_
omingsgrouped					- 1+
otel	37.015	277	.098		
700	62.067	394			
kdjusted totuli R squared = .341 (Adjusted R scuared	56.177	393			

Source: Compiled by another.

Table 11: Post Hoc Test. Multiple comparisons. Dependent variable: Total Servqual score

High Season:	(f) Education (grouped)	(J) Education (grouped)	Difference between means (I-J)	Standard dev.	Significance	95% Confid	ence Interval
Tukey HSD	Basic or secondary education	University or higher technical education	Lower Limit - 1024	Upper limit .0538	Lower limit	Upper limit - 2292	Lower limit
	I become the sea block and the leading	Postgraduate university education	.2886(*)	.0492	.000	.1728	.4044
	University or higher technical	Basic or secondary education	.1024	.0538	.140	0244	2292
	education	Postgraduate university education	.3911(*)	.0473	.000	.2796	.5025
	Postgraduate university educa-	Basic or secondary education	2886(*)	.0492	.000	4044	1728
Cames-Howell	tion	University or higher technical education	3911(*)	0473	.000	-,5025	2796
CHITTOS-I IOWEII	Basic or secondary education	University or higher technical education	1024	.0574	.178	2380	.0332
	The section of the se	Postgraduate university education	.2886(*)	.0534	.000	.1625	4148
	University or higher technical	Basic or secondary education	.1024	.0574	.178	0332	.2380
	education	Postgraduate university education	.3911(*)	.0480	.000	.2777	.5044
	Postgraduate university educa-	Basic or secondary education	2886(*)	.0534	.000	-,4148	The state of the s
	tion	University or higher technical education	3911(*)	.0480	.000	-,5044	1625 2777
Low Season	(I) Education (grouped)	(J) Education (grouped)	Difference between means (I-J)	Standard dev.	Significance	95% Confide	ence Interval
ukey HSD	Basic or secondary education	Injunction blokes landed advertise	Lower limit	Upper Imit	Lower limit	Upper limit	Lower limit
	_ basic or secondary education	University or higher technical education	0093	.1074	.996	2621	.2434
	University or higher technical	Postgraduate university education	.3811(*)	.1064	.001	.1306	.6316
	education	Basic or secondary education	.0093	.1074	.996	2434	2621
	Postgraduate university educa-	Postgraduate university education	.3904(*)	.0325	.000	.3139	4670
	tion	Basic or secondary education	3811(*)	.1064	.001	6316	1306
Games-Howell	Basic or secondary education	University or higher technical education	3904(*)	.0325	.000	4670	3139
- miner Torrell	_ billion or secondary education	University or higher technical education	0093	.0548	.984	-,1545	.1359
	University or higher technical	Postgraduate university education	.3811(*)	.0536	.000	2376	.5246
	University or higher technical	Basic or secondary education	.0093	.0548	.984	1359	.1545
	education Posterod of a series	Postgraduate university education	.3904(*)	.0337	.000	.3111	.4697
	Postgraduate university educa-	Basic or secondary education	3811(*)	.0536	.000	5246	2376
	tion	University or higher technical education	3904(*)	.0337	.000	-,4697	3111

Note. Compiled by author. (\*) Significant for  $p = 0 \le 0.05$ .

Regarding the behaviour of the Servqual scores among users with different earnings levels, the average scores in both seasons are seen to be lower for the group earning less than Bs. 2,000.00 compared to that earning more than Bs. 2,000.00. This behaviour is similar in the user groups regardless of their educational backgrounds, as indicated by the lack of interaction between the variables (Figure 5).

Thus, it can be inferred that hypothesis 2 concerning the influence of the variables (tourists' earnings and education) on the discrepancies observed between expectations and perceptions is fulfilled.

#### CONCLUSIONS AND RECOMENDATIONS

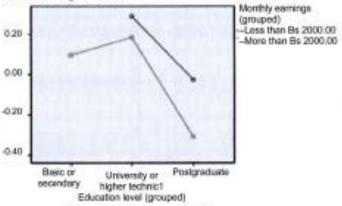
In the first part of the analysis presented here, the Servqual scale methodology was used to measure service quality in terms of the discrepancies between the expectations and perceptions of users (user gap) with respect to tourism accommodation in Mérida State (specific objective 1). The measurement allows us to infer a service quality shortfall given that expectations exceed perceptions.

Figure 5. Average Servqual scores by Education and Earnings for High and Low Seasons.

#### Low Season

Estimated marginal means of total Servoual score



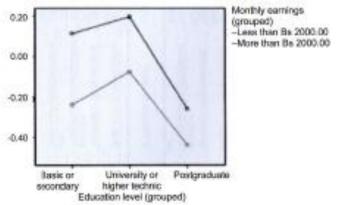


Non - estimable means not shown

### High Season

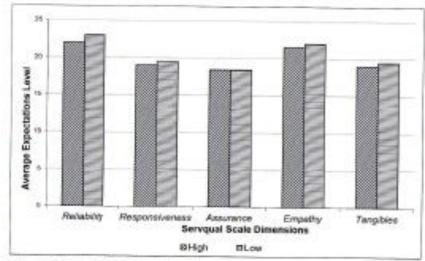
Esimated marginal means of total Servqual score

## Estimated marginal means



Source: Based on data collected by author.

Figure 6. Average Expectations in High and Low Tourism Seasons.



Source: Based on data collected by author.

Measurement was carried out in several ways: using the Servqual scale as a Likert scale; calculating the total Servqual score; and the Servqual score for the service dimensions. Hypothesis tests (based on the Student t-statistic test) show that users' expectations exceed their perceptions in both tourist seasons.

A factorial ANCIVA was used to study the behaviour of the Servqual scores in conjunction with other factors (independent variables) such as the characteristics of the service users. In addition, as part of the factorial ANOWA, inter-subject effects tests and future comparisons (post hoc) were performed. This analysis allowed analyzing the impact of variables such as income level, education, sex and age of users (independent variables) at the expectations and perceptions level of the same or Servqual scores (dependent variable). Specifically, it was demonstrated that different age and sex users have similar levels of Servqual scores; differences in average Servqual scores were found to exist only among the user groups defined by their level of education and earnings (objective 2): the most highly educated (postgraduate university studies) and highest-earning users present the lowest Servqual scores, given that their expectations are higher

### REFERENCES

- Albercht, K. (1990). La revolución del servicio. Bogotá: Legis Editores.
- Cantú, H. (2006). Desarrollo de una cultura de calidad (3ra. ed). México: McGraw Hill.
- Cronin, J., & Taylor, S. (1992). Measuring service quality: A reexamination and extension. *Journal of Marketing*, 56, 55-68.
- Cronin, J., & Taylor, S. (1994). Servpref versus Servqual: Reconciling performance based and perceptions-minus-expectations measurement of service quality. *Journal of Marketing*, 58, 125-131.
- Deming, E. (1986). Out of the crisis. Quality, productivity and competitive position. Cambridge, MA: Center for Advanced Engineering Study, Cambridge University Press.
- Denton, K. (1991). Calidad en el servicio a los clientes. Madrid: Díaz de Santos.
- Díaz, F., Álvarez, J., González, O., Jiménez, V., Bethencourt, M., Vera, J., Fernández, C., Clivaz, C., & Matos-Wasem, R. (2006). Politica turística: La competitividad y sostenibilidad de los destinos. España: Ed. Tirant Lo Blanch.
- Gutiérrez, D. (2001). La medición de la calidad: un instrumento para la gestión del entorno de un destino turístico. In M. Merchior (Ed.), El turismo en Canarias (pp. 141-154). España: Fundación Formación y Desarrollo Empresarial (FYDE).
- Hernández, R., Fernández, C., & Batista, P. (2006). Metodología de la investigación (4<sup>n</sup> ed). México: McGraw Hill.
- Hoffman, K., & Bateson, J. (2002). Fundamentos de marketing de servicios. Conceptos, estrategias y casos (2<sup>a</sup>, ed.). México: Internacional Thomson Editores, S.A.
- Kotler, F., Bowen, J., & Makens, J. (2005). Marketing para hoteleria y turismo (3ra. ed.). México: Prentice-Hall.
- Lovelock, C. (1997). Mercadotecnia de servicios (3ra. ed.). México: Prentice Hall.
- Lovelock, C., & Wirtz, J. (2008). Marketing de servicios (6ta. ed.). México: Pearson Educación.

- THE Usen GAP (PERCEPTIONS-EXPECTATIONS) IN TOURISM ACCOMMODATION SERVICES...
- Otto, J., & Ritchie, J.R. (1996). The service experience in tourism. Tourism Management. 17(3), 165-174.
- Pride, W., & Ferrell. (1997). Marketing: Conceptos y estrategias (9<sup>a</sup> ed.). México: McGraw-Hill.
- Santomà, R. (2004, 21-24 April). Comparación en el uso del e-mail y el equipamiento en TIC entre hoteles de Barcelona, París, Londres, 3erlín y Roma. Paper presented at the 13° International Leisure and Tourism Symposium ESADE-FIRA, Barcelona. Retrieved October 12, 2007, from htpp://www.esade.es/ cedir2004/cas/est\_papers.php
- Scheaffer, R., Mendenhall, W., & Otto, L. (1997). Elementos de muestro. España: Grupo Editorial Iberoamérica.
- Zeithaml, V., & Bitner, L. (2002). Marketing de servicios. Un enfoque de integración del cliente a la empresa (2a. ed.). México: McGraw-Hill.
- Zeithaml, V., Parasuraman, A., & Berry, L. (1985). A conceptual model of service quality and its implications for future research. Journal of Marketing, 49(9), 41–50.
- Zeithaml, V., Parasuraman, A., & Berry, L. (1993). More on improving service quality measurement. *Journal of Retailing*, 69(1), 140-147.