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An Examination of Factors Affecting Japanese Tourism in Hawaii

Sun-Young Park University of San Francisco, sypark5@usfca.edu

Hye-Ryeon Lee

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TTRA 2009 Annual Conference "Catch The Wave – Tourism Research" June 21-29, 2009- Honolulu, HI Attendee List



Momi Aldmseu

Hawaii Tourism Authority 1801Kalakaua Ave., 1st Floor

Honolulu, HI 96815

USA

Phone:001(808)973-2278 Fax:001(808)973-2253

Email: makimseu@hawaiitourismauthority.org

Kathleen Andereck

Arizona State University

School of Community Resources & Development,

411N. Central Ave, Suite 550

Phoenix, AZ 85004

USA

Phone:001(602)496-1056 Fax:001(602) 496-0953

Email: kandereck@asu.edu

Kevin Bagger

Las Vegas Convention/Visitors Authority

3150 Paradise Road Las Vegas, NV 89109

USA

Phone:001(702)892-0711 Fax:001(702)892-7685 Email:kbagger@lvcva.com

Kenneth Bartkus Utah State University

Jon M Huntsman School of Business

Logan, UT 84321

USA

Phone: 001(435) 797-3891 Fax:001(435) 797-3929 Email: ken. bartkus@usu.edu

Pierre Bellerose

Tourisme Montreal

1555 Peel Street, Suite 600

Montreal, QC 0

Canada

Phone:001(514)844-S400 Fax:001(S14)844-5757

Email: bellerose.pierre@tourisme-montreal.org

Michael Altman

SMS Research & Marketing Services, Inc.

1042 Fort Street Mall, Suite 200

Honolulu, HI 96813

USA

Phone:001(808)537-3356 Fax:001(808)537-2686

Email: maltman@smshawaii.com

Muriel Anderson

Hawaii Tourism Authority

1801Kalakaua Ave.

Aiea, HI 96815

USA

Phone:001(808)973-2269

Fax:001(808)973-2253

Email: manderson@hawaiitourismauthority.org

Carla Barbieri

University of Missouri

105 ABNR

Columbia, MO 65211

USA

Phone:001(573)882-9516

Fax:OO(573)882-9526

Email: barbieric@missouri.edu

Linsi Beckman

California University of Pennsylvania

2300 Ridge Rd.

Finleyville, PA 15332

USA

Phone:001(412)901-7952

Email: bec2207@cup.edu

Pierre Benckendorff

James Cook University School of Business

Townsville, QLD 4811

Australia

Phone:006(174)781-4254

Fax:006(174)781-4019

Email:pierre.benckendorff@jcu.edu.au



TTRA 2009 Annual Conference "Catch The Wave – Tourism Research" June 21-29, 2009 – Honolulu, HI Attendee List



Daniel Nahoopii

DBEDT Research and Economic Analysis 250 South Hotel St, Rm 435 DH Wing

Honolulu, HI 96813

USA

Phone:001(808)586-2466 Fax:001(808)S86-8449 Email: dn@dbedt.hawaii.gov

Gyan Nyaupane

Arizona State University 411 N. Central Ave. Suite 550

Phoenix, AZ 85283

USA

Phone:001(602)496-0166 Fax:001(602)496-0853 Email:gyan@asu.edu

IouriO'leary

Office of the Governor of Texas

Economic Development and Tourism 1700 N.

Congress, Suite 200 Austin, TX 78701

USA

Phone:001(512)936-0438 Fax: 001(512) 936-0450

Email: loleary@governor.state tx us

John Packer

TNS Travel & leisure 600 Vine St., Ste 300 Cinncinnati, OH 45202

USA

Phone:001(513)345-2066

Email:john. packer@tns-global com

Sun-Young Park University of Hawaii 2560 Campus Rd. Honolulu, HI 96826

USA

Email: parksy@hawaii.edu

Norma Nickerson

Inst. For Tourism/Recreation Research, Univ.

Montana

University of Montana 32 Campus Drive #1234

Missoula, MT 59812

USA

Phone: 001(406) 243-2328 Fax:001{406}243-4845

Email: norma .nickerson@umontana.edu

Barbara Okamoto

Hawaii Visitors & Convention Bureau

2270 Kalakaua Avenue #801

Honolulu, HI 96815

USA

Phone:001(808)924-0242 Fax:001(808)924-0292 Email: bokamoto@hvcb.org

Christine Oschell

University of Montana

Institute for Tourism and Recreation Research 32

Campus Drive #1234 Missoula, MT 59825

USA

Phone:001(406)243-6454 Fax:001(406)243-4845

Email: christine.oschell@umontana edu

Minkyung Park

George Mason University 10900 University Blvd. Managass, VA 20120

USA

Phone:001(703)993-2062 Fax:001(703)993-2025 Email: mparka@gmu edu

Margaret Parker

University of Oregon

1275 University of Oregon #310

Eugene, OR 97403

USA

Phone:001(808)651-5394 Fax:001(541) 346-0682

Email: mparker3@uoregon.edu

An Examination of Factors Affecting Japanese Tourism in Hawaii

Presented at Annual TTRA Conference in Honolulu, Hawaii, June 21-24, 2009

Sun-Young Park

School of Travel Industry Management University of Hawaii at Manoa Honolulu, Hawaii, USA

Hye-Ryeon Lee

Department of Speech Communication University of Hawaii at Manoa Honolulu, Hawaii, USA

ABSTRACT

The Japanese tourist market is a crucial component of the Hawaii tourism economy due to both market size and higher per capita expenditures in comparison with other key markets for the state. Over the past decade, annual Japanese tourist arrivals have decreased significantly off a peak in 1997. This study examines various supply and demand factors, which may be influencing Japanese tourist arrivals to Hawaii using regression analysis. Results show that five of eight variables significantly influence the monthly Japanese tourist numbers to Hawaii: monthly total Japanese overseas tourists, available air seats, average room rates, available room units, and change in security checking procedure. Meanwhile, three variables were not found to be significant influencers: mean monthly exchange rate (\$/100 Yen), anti-smoking law, and airline fuel surcharges. These results do not support the anecdotes and conjectures about the decreasing number of Japanese tourists to Hawaii.

INTRODUCTION

According to Department of Business, Economic Development and Tourism (DBEDT) (2006), over the past decade since 1997, Hawaii has experienced a steady decline in the number

of tourist arrivals from Japan at an annual average of 4.9 percent or approximately 93,604 tourists. This decline has created an obvious concern for Hawaii's tourism industry, because Japan is one of the state's most lucrative tourist markets in terms of tourist numbers and expenditures. Historically, Japanese tourists account for approximately 70 percent of total international arrivals or 25 percent of total tourist arrivals in Hawaii. The .Japanese market's significance is especially evidenced by daily destination expenditure per person higher than other tourists (\$267 of Japanese tourist vs. \$169 of U.S. mainland tourist) (DEBEDT, 2006). The state government officials, tourism industry representatives, and residents have considered many factors that influence the past decade's decline in Japanese tourist arrivals. However, there is a lack of empirical analysis to more clearly understand this phenomenon. Beyond drawing upon speculation and anecdotal-evidence based assessments, this study analyzes both supply and demand factors that may have influenced Japanese tourist arrivals to Hawaii. As studies on international tourism demand (e.g., Crouch, 1994; Gang, Song, & Witt, 2005; Lee, 1996; Lim, 1999; Uysal & Crompton, 1984) have suggested, economic variables in the origin as well as the destination influence demand. In this study, exchange rates and fuel surcharges are examined for their effects on Japanese tourist arrivals. Although the effect of transportation costs have been inconclusive (e.g., Lee, 1996; Lim, 1999; Mervar & Payne, 2007), fuel surcharges are included in this study, because the media and tourism organizations have claimed that they are one of the most important deterrents for Japanese travelers to choose Hawaii as a destination. Further, a continuous rise in accommodation rates, which increases the overall cost of trip to Hawaii, may have played a significant role in decreasing Japanese tourist arrivals. This seemed important, because most Japanese tourists (89% in

2006) visited Hawaii via group tour or package. According to previous study results and demand theory, Japanese tourist arrivals would be negatively influenced by fuel surcharges because of higher travel costs to Hawaii, and positively influenced by exchange rates due to stronger purchasing power of Yen. As destination or supply-side factors, the capacity of air seats from Japan to Hawaii and available accommodation units and room rates in Hawaii are examined in this study. There was an average annual decrease of 4.7 percent from 1995 to 2006 in air seat capacity from Japan to Hawaii. Except for the years of 1997, 2004 and 2005, every year in this period showed a decline in capacity. Compared to 1995 (2.9 million seats), the capacity from Japan to Hawaii showed a 61.8 percent decrease in 2006 (1.8 million seats). This continuous decrease may have a detrimental long-term effect on the tourist volume. Other variables included in this study as dummy variables are: 1) increased airport security commenced in 2002 after the 9-11 event; and 2) smoke-free ordinance which went in effect in November 2006. There are some concerns that the increased airport security and more burdensome entry procedures (e.g., finger printing, interviews by unfriendly immigration officers) after the 9-11 event may have contributed to the decrease, because these may be viewed as an unpleasant nuisance to Japanese tourists. Finally, there has been a speculation that the restrictions on smoking in public places, first implemented by a variety of county ordinances since 2002, and later by a comprehensive statewide law in effect since November 2006, have influenced Japanese tourist dynamics. Some have suggested the policy would, or has been a net detractor for Japanese tourists, hypothesizing that since Japanese males have a high smoking prevalence rate, not being able to smoke freely may drive them to choose other destinations with more lenient smoking policies. Contrarily, others have suggested the policy implementations

would, and may already be, net attractors for Japanese tourists who seek a different, more healthful vacation environment. Studies on the impact of a smoke-free policy on tourist arrivals have been scarce. However, potential impacts of the ordinance on the hospitality industry have been conducted. For example, Hyland, Puli, Cumming, and Sciandra (2003) found no or significant positive effect of the ordinance on sales and employment at eating and drinking places and hotels in New York State. Blecher (2006) also reported that the 1999 control amendment act of tobacco products had no significant negative effect on restaurant revenues South Africa.

METHODS

Multiple regression was used to examine the factors that may have influenced Japanese tourism to Hawaii from January 1995 through August 2007 and the data was obtained from Annual Tourist Research Reports prepared by DBEDT. The dependent variable (DV) for the study is the monthly Japanese tourist arrivals in Hawaii. We tested a total of eight independent variables (IVs) in the current study based on the literature review and data availability. The 3 months lagged IVs were used for air seat capacity, hotel room rates and hotel units, because Japanese tourists would plan their trip to Hawaii approximately 3 months. Thus, these variables will start to impact on their decision for travel at least 3 months after the fact. The continuous IVs were centered to avoid nonessential multicollinearity and to achieve easier interpretation (Cohen, Cohen, West, & Aiken, 2002). Those eight IVs are: 1) Monthly total Japanese overseas tourists to all destinations; 2) Japan Yen exchange rate averaged for each month; 3) Available air seats from Japan to Hawaii (lagged 3 months); 4) Average hotel room rates in Hawaii per month (lagged 3 months); 5) Available hotel units in Hawaii averaged for each month (lagged 3 months); 6) Adoption of stricter security checking procedure (January 2004, as dummy variable);

7) Adoption of the Hawaii smoke-free workplace law (November 06, as dummy variable); and 8) Adoption of airline fuel surcharges (January 2005, as dummy variable).

RESULTS

When all IVs were entered together, the overall model was significant: F (8, 143) = 146.11, p<. 001, adj. R_2 = .89. When each predictor was examined, monthly total Japanese overseas tourists, available air seats prior to 3 months, average room rates prior to 3 months, available room units prior to 3 months, and change in security checking procedure were significant in predicting the monthly Japanese tourist in Hawaii, while mean monthly exchange rate (\$/100 Yen), anti-smoking law, and airline fuel surcharges were not. In particular, total monthly Japanese outbound tourists (f3 = .341, p < .001), available air seats prior to 3 months (f3 = .657, f4 < .001) and change in security checking procedure (f3 = .149, f4 < .05), but negative relationships with average room rates prior to 3 months (f3 = -.240, f4 < .001) and available room units prior to 3 months (f3 = -.154, f7 < .01). Table 1, 2, and 3 present the results for the regression analysis.

Table 1. Multiple Regression Analyses Results

Change Statistics
Mode
IR R
Square
Adjusted
R Square
Std. Error of
the Estimate
R Square
Change
F

Change df1 df2 Sig. F Change Durbin-Watson 1.947

.896 .890 10657.008 .896 146.1118 135 .000 1.618

Notes: a. Predictors: (Constant), Surcharges, Doll_per_yen_C, Jap_tourist_C, Smoking law, Air_seats_C, Units_mon_C, Room_rate_C, Security; Dependent Variable: Annual arrivals

Table 2: ANOVA Results

Model Sum of Squares df Mean Square F Sig. Regression 1.328E118 1.659E10 146.111.oooa Residual 1.533E10 135 L136E8
Total 1.481E11 143

Notes: a. Predictors: (Constant), Surcharges, Doll_per_yen_C, Jap_tourist_C, Smoking Jaw, Air_seats_C, Units_mon_C, Room_rate_C, Security; Dependent Variable: Annual arrivals

Table 3: Coefficients

Unstandardized Coefficients
Standardized
Coefficients
Model
B Std. Error Beta
t Sig.
(Constant) 138282.579 1535.248 90.072 .000*
Total Japan Tourists .056 .005 .341 10.218 .000*
\$/100 Yen -2413.089 12647.422 -.006 -.191 .849
Air seats .564 .038 .657 14.942 .000*
Average room rates -375.439 85.787 -.240 -4.376 .000*
Available units/month -66.225 21.600 -.154 -3.066 .003*
Security 10771.420 4227.722 .149 2.548 .012*
Smoking law -6388.875 5464.306 -.036 -1.169 .244
Surcharges 2180..306 4380.120 .027 .498 .619

Notes: Dependent Variable: Annual arrivals; * significant at p<.05

APPLICATION OF RESULTS

Government officials and industry members of Hawaii tourism should utilize the results of this empirical study for planning and executing their strategies for not only for recovering Japanese tourism but also for targeting other new markets. According to this study results, some ways that Hawaii can do to revitalize the number of Japanese tourists to come back to Hawaii, are to make more air seats available and to lower average room rates. These results may be also applicable to other markets of Hawaii tourism, considering prevalent renovations in recent years and the changing number of air seats to the islands. In addition, we did not find evidence to support the anecdotes and conjectures about the two main factors that many (including news reporters) believe to have caused the Japanese tourist arrivals to Hawaii to decrease. First, we did not find any significant and/or negative influence of the adoption of the anti-smoking law on the Japanese tourist arrivals to Hawaii. Second, we did not find airline fuel surcharges to have significantly caused the decline of Japanese tourist arrivals to Hawaii. It may well be that Japanese travelers choose other vacation destinations over Hawaii not because it is not only more expensive but because other destinations are perceived to render more value and/or newer. Unlike previous findings in the tourism literature (e.g., Crouch, 1994; Lim, 1999), we did not find a significant influence of the favorable exchange rate in predicting the number of Japanese tourist arrivals to Hawaii.

CONCLUSIONS There are many concerns regarding the declining number of tourists who visit Hawaii from Japan, who constitute a significant proportion of overall tourism in Hawaii. Rather than blindly believing conjectures or speculating why this is happening, stakeholders of Hawaii tourism should empirically examine the factors that influence this phenomenon, as done in this

study. Future studies should re-examine this study's model and expand it to include other data (e.g., tourist expenditures, tourist days, and comparative attractiveness). Results can have tremendous implications for state policy, planning, and management and the industry members' strategies in Hawaii. **REFERENCES**

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Contact information:

Dr. Sun-Young Park Assistant Professor University of Hawaii at Manoa School of Travel Industry Management 2560 Campus Road, Honolulu, HI96822 Office: (808) 956-6611

Office: (808) 956-6611 Fax: (808) 956-5378 parksy@hawaii.edu