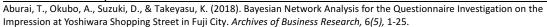
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Bayesian Network Analysis for the Questionnaire Investigation on the Impression at Yoshiwara Shopping Street in Fuji City

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ABSTRACT

Shopping streets at local city in Japan became old and are generally declining. In this paper, we handle the area rebirth and/or regional revitalization of shopping street. We focus on Fuji city in Japan. Four big festivals are held at Fuji city. Many people visit these festivals including residents in that area. Therefore a questionnaire investigation to the residents and visitors is conducted during these periods in order to clarify residents and visitors' needs for the shopping street, and utilize them to the plan building of the area rebirth and/or regional revitalization of shopping street. There is a big difference between Fuji Shopping Street and Yoshiwara Shopping Street. Therefore we focus Yoshiwara Shopping Street in this paper. These are analyzed by using Bayesian Network. Sensitivity analysis is also conducted. As there are so many items, we focus on "The image of the surrounding area at this shopping street" and pick up former half and make sensitivity analysis in this paper. The analysis utilizing Bayesian Network enabled us to visualize the causal relationship among items. Furthermore, sensitivity analysis brought us estimating and predicting the prospective visitors. Sensitivity analysis is performed by back propagation method. These are utilized for constructing a much more effective and useful plan building. We have obtained fruitful results. To confirm the findings by utilizing the new consecutive visiting records would be the future works to be investigated.

Keywords: Fuji City, Area rebirth; Regional vitalization; festival; Bayesian Network; Back Propagation;

INTRODUCTION

Shopping streets at local city in Japan are generally declining. It is because most of them were built in the so-called "High Growth Period (1954-1973)". Therefore they became old and area rebirth and/or regional revitalization are required everywhere.

There are many papers published concerning area rebirth or regional revitalization. Inoue (2017) has pointed out the importance of tourism promotion. Ingu et al.(2017) developed the project of shutter art to Wakkanai Chuo shopping street in Hokkaido, Japan. Ohkubo (2017) has made a questionnaire research at Jigenji shopping street in Kagoshima Prefecture, Japan and analyzed the current condition and future issues. For about tourism, many papers are presented from many aspects as follows.

Yoshida et al. designed and conducted a visitor survey on the spot, which used a questionnaire to investigate the activities of visitors to the Ueno district in Taito ward, Tokyo. Doi et al. analyzed the image of the Izu Peninsula as a tourist destination in their 2003 study "Questionnaire Survey on the Izu Peninsula." Kano conducted tourist behavior studies in Atami city in 2008, 2009, 2014 and in other years.

In this paper, we handle the area rebirth and/or regional revitalization of shopping street. We focus on Fuji city in Japan. Fuji city is located in Shizuoka Prefecture. Mt. Fuji is very famous all around the world and we can see its beautiful scenery from Fuji city, which is at the foot of Mt. Fuji. There are two big shopping street in Fuji city. One is Yoshiwara Shopping Street and another one is Fuji Shopping Street. They became old and building area rebirth and regional revitalization plan have started. Following investigation was conducted by the joint research group (Fuji Chamber of Commerce & Industry, Fujisan Area Management Company, Katsumata Maruyama Architects, Kougakuin University and Tokoha University). The main project activities are as follows.

- A. Investigation on the assets which are not in active use
- B. Questionnaire Investigation to Entrepreneur
- C. Questionnaire Investigation to the residents and visitors

After that, area rebirth and regional revitalization plan were built.

In this paper, we handle above stated C.

Four big festivals are held at Fuji city. Two big festivals are held at Yoshiwara Shopping Street and two big festivals at Fuji Shopping Street.

At Yoshiwara Shopping Street, Yoshiwara Gion Festival is carried out during June and Yoshiwara Shukuba (post-town) Festival is held during October. On the other hand, Kinoene Summer Festival is conducted during August and Kinoene Autumn Festival is performed during October at Fuji Shopping Street. Many people visit these festivals including residents in that area.

Therefore questionnaire investigation of C is conducted during these periods.

Finally, we have obtained 982 sheets (Yoshiwara district: 448, Fuji district: 534).

Basic statistical analysis and Bayesian Network analysis are executed based on that.

In this paper, a questionnaire investigation is executed in order to clarify residents and visitors' needs for the shopping street, and utilize them to the plan building of the area rebirth and/or regional revitalization of shopping street. There is a big difference between Fuji Shopping Street and Yoshiwara Shopping Street. Therefore we focus Yoshiwara Shopping Street in this paper. These are analyzed by using Bayesian Network. Sensitivity analysis is also conducted. As there are so many items, we focus on "The image of the surrounding area at this shopping street" and pick up former half and make sensitivity analysis in this paper. By that model, the causal relationship is sequentially chained by the characteristics of visitors, the purpose of visiting and the image of the surrounding area at this shopping street. The analysis utilizing Bayesian Network enabled us to visualize the causal relationship among items. Furthermore, sensitivity analysis brought us estimating and predicting the prospective visitors. Sensitivity analysis was conducted by back propagation method.

Some interesting and instructive results are obtained.

The rest of the paper is organized as follows. Outline of questionnaire investigation is stated in section 2. In section 3, Bayesian Network analysis is executed which is followed by the sensitivity analysis in section 4. Remarks is stated in section 5.

OUTLINE AND THE BASIC STATISTICAL RESULTS OF THE QUESTIONNAIRE RESEARCH Outline of the Questionnaire Research

A questionnaire investigation to the residents and visitors is conducted during these periods in order to clarify residents and visitors' needs for the shopping street, and utilize them to the plan building of the area rebirth and/or regional revitalization of shopping street. The outline of questionnaire research is as follows. Questionnaire sheet is attached in Appendix 1.

- 1. Scope of investigation: Residents and visitors who have visited four big festivals at Fuji city in Shizuoka Prefecture, Japan
- 2. Period: Yoshiwara Gion Festival: June 11,12/2016
 Yoshiwara Shukuba (post-town) Festival: October 9/2016
 Kinoene Summer Festival: August 6,7/2016
 Kinoene Autumn Festival: October 15,16/2016
 - (3) Method: Local site, Dispatch sheet, Self writing
 - (4) Collection: Number of distribution 1400

Number of collection 982(collection rate 70.1%)

Valid answer 982

Basic Statistical Results

Now, we show the main summary results by single variable.

Characteristics of answers

(1) Sex (Q7)

Male 55.6%, Female 44.4% These are exhibited in Figure 1.

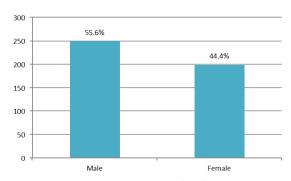
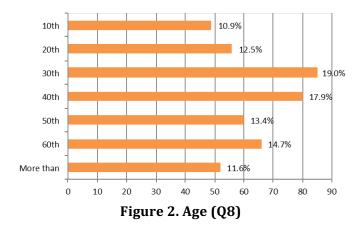


Figure 1. Sex (Q7)

(2) Age (Q8)

10th 10.9%, 20th 12.1%, 30th 19.0%, 40th 17.9%, 50th 13.4%, 60th 14.7%, More than 70 11.6%

These are exhibited in Figure 2.



(3) Residence (Q9)

a. Fuji city 78.3%, b. Fujinomiya city 6.9%, c. Numazu city 4.5%, d. Mishima city 1.3%, e. Shizuoka city 2.9%, F. Else (in Shizuoka Prefecture) 2.5%, g. Outside of Shizuoka Prefecture 3.6%

These are exhibited in Figure 3.

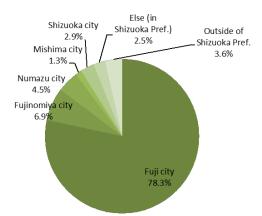


Figure 3. Residence (Q9)

Summary results for the items used in Hypothesis Testin

(1) How often do you come to this shopping street? (Q1)

Everyday 12.9%, More than 1 time a week 15.6%, More than 1 time a month 23.4%, More than 1 time a year 37.3%, First time 5.1%, Not filled in 5.6% These are exhibited in Figure 4.

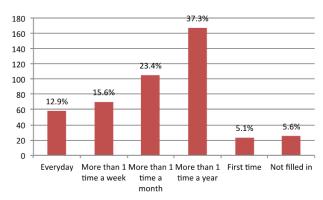


Figure 4. How often do you come to this shopping street? (Q1)

(2) What is the purpose of visiting here? (Q2)

Shopping 20.7%, Eating and drinking 13.1%, Business 7.5%, Celebration, event 47.5%, Leisure, amusement 1.5%, miscellaneous 9.7% These are exhibited in Figure 5.

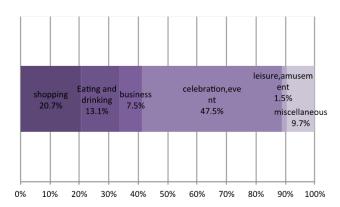


Figure 5. What is the purpose of visiting here? (Q2)

(3) How do you feel about the image of the surrounding area at this shopping street? (Q3)

Beautiful 51.9%, Ugly 48.1%, Of the united feeling there is 47.2%, Scattered 52.8%, Varied 40.0%, Featureless 60.0%, New 32.5%, Historic 67.5%, Full of nature 53.1%, Urban 46.9%, Cheerful 49.4%, Gloomy 50.6%, Individualistic 46.3%, Conventional 53.7%, Friendly 61.6%, Unfriendly 38.4%, Healed 54.2%, Stimulated 45.8%, Open 47.9%, exclusive 52.1%, Want to reside 45.1%, Do not want to reside 54.9%, Warm 62.6%, Aloof 37.4%, Fascinating 49.6%, Not fascinating 50.4%, Want to play 47.8%, Want to examine deliberately 52.2%, Lively 40.3%, Calm 59.7%, Atmosphere of urban 30.5%, Atmosphere of rural area 69.5% These are exhibited in Figure 6.

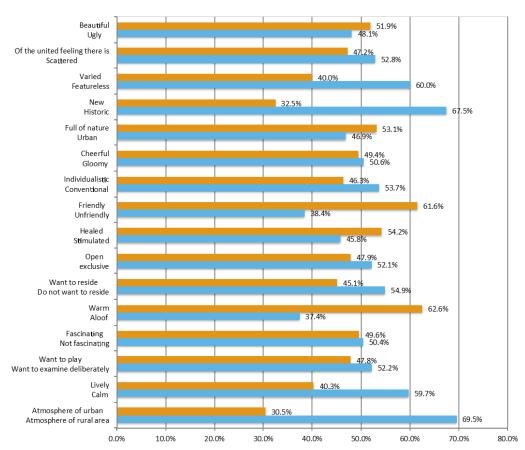


Figure 6. How do you feel about the image of the surrounding area at this shopping street? (Q3)

(4) There are many old building at the age of nearly 50 years. Do you think we can still use them? (Q4)

Can use it 38.6%, Cannot use it 33.9%, Have no idea 27.5% These are exhibited in Figure 7.

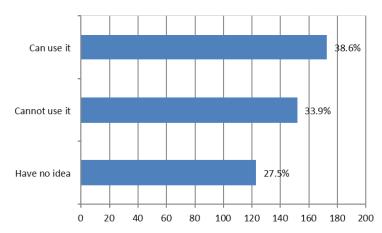


Figure 7. There are many old building at the age of nearly 50 years. Do you think we can still use them? (Q4)

BAYESIAN NETWORK ANALYSIS

In constructing Bayesian Network, it is required to check the causal relationship among groups of items.

Based on this, a model is built as is shown in Figure 8.

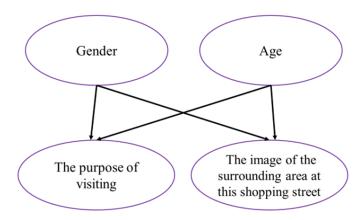


Figure 8. A Built Model

We used BAYONET software (http://www.msi.co.jp/BAYONET/). When plural nodes exist in the same group, it occurs that causal relationship is hard to set a priori. In that case, BAYONET system set the sequence automatically utilizing AIC standard. Node and parameter of Figure 8 are exhibited in Table 1.

Table 1. Node and Parameter

			Table 1. N	ouc and	1 al alliv					
Nodo					Paramete	er				
Node	1	2	3	4	5	6	7	8	9	10
Gender	Male	Female								
Age	10th	20th	30th	40th	50th	60th	More than 70			
The purpose of visiting	Shoppi ng	Eating and drinking	Business	Celebr ation • event	Leisur e, amuse ment	miscel laneo us				
The image of the surrounding area at this shopping street	Beautif ul	Ugly	Of the united feeling there is	Scatte red	Varied	Featur eless	New	Histor ic	Full of nature	Urban

Nada		Parameter								
Node	11	12	13	14	15	16	17	18	19	20
The image of the surrounding area at this shopping street	Cheerfu l	Gloomy	Individuali stic	Conve ntiona l	Frien dly	Unfrie ndly	Heale d	Stimul ated	Open	Exclus ive

Node]	Paramete	r				
Noue	21	22	23	24	25	26	27	28	29	30
The image of the surrounding area at this shopping street	Want to reside	Do not want to reside	Warm	Aloof	Fascin ating	Not fascin ating	Want to play	Want to exami ne delibe rately	Lively	Calm

Node	Parameter					
Noue	31	32				
The image of the surrounding area at this shopping street	Atmosphere of urban	Atmosphere of rural area				

In the next section, sensitivity analysis is achieved by back propagation method. Back propagation method is conducted in the following method (Figure 9).

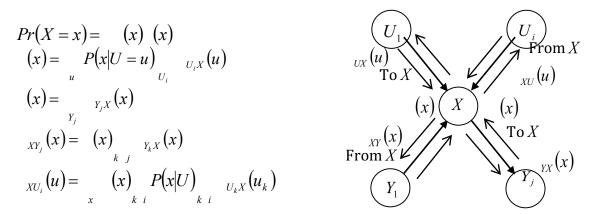


Figure 9. Back propagation method (Takeyasu et al., 2010)

SENSITIVITY ANALYSIS

Now, posterior probability is calculated by setting evidence as, for example, 1.0. Comparing Prior probability and Posterior probability, we can seek the change and confirm the preference or image of the surrounding area at this shopping street. We set evidence to all parameters. Therefore, the analysis volume becomes too large. In this paper, we focus on "The image of the surrounding area at this shopping street" and pick up latter half and make sensitivity analysis. We prepare another paper for the rest of them.

As stated above, we set evidence for each parameter, and the calculated posterior probability is exhibited in Appendix 2. The value of "Posterior probability – Prior probability" (we call this "Difference of probability" hereafter) is exhibited in Appendix 3. The sensitivity analysis is executed by mainly using this table.

Here, we classify each item by the strength of the difference of probability.

- Strong (++, --): Select major parameter of which absolute value of difference of probability is more than 0.05
- Medium (+, —): Select major parameter of which absolute value of difference of probability is more than 0.01

· Weak: Else

In selecting items, negative value does not necessarily have distinct meaning, therefore we mainly pick up positive value in the case meaning is not clear.

Now we examine each for Strong and Medium case.

Sensitively Analysis for "The image of the surrounding area at this shopping street

(1) Setting evidence to "Healed"

After setting evidence to "Healed", the result is exhibited in Table 2.

Table 2. Setting evidence to "Healed" case

Shopping	_
Eating and drinking	
Of the united feeling there is	+
Cheerful	+
Individualistic	+
Fascinating	+
Want to play	+
Lively	+
Atmosphere of urban	+
Male	
Female	+
Age: 10th	++
Age: 20th	+
Age: 30th	+
Age: 40th	+
Age: 50th	
Age: 60th	_
Age: More than 70	

We can observe that "Those who have an image of the surrounding area at this shopping street as "Healed" had come under the image of the surrounding area at this shopping street as "Of the united feeling there is", "Cheerful", "Individualistic", "Fascinating", "Want to play", "Lively" or "Atmosphere of urban" of an age of "10th", "20th", "30th" or "40th" in which the gender is "Female". (Strong part is indicated by bold font.)

(2) Setting evidence to "Stimulated"

After setting evidence to "Stimulated", the result is exhibited in Table 3.

Table 3. Setting evidence to "Stimulated" case

Fascinating	
Want to play	_
Lively	_
Age: 10th	
Age: 20th	
Age: 50th	+
Age: 60th	+
Age: More than 70	+

We can observe that "Those who have an image of the surrounding area at this shopping street as "Stimulated" had come by an age of "50th", "60th" or" More than 70 ".

(3) Setting evidence to "Open"

After setting evidence to "Open", the result is exhibited in Table 4.

Table 4. Setting evidence to "Stimulated" case

Male	+
Female	_
Age: 20th	+
Age: 40th	+
Age: 50th	_
Age: 60th	+
Age: More than 70	_

We can observe that "Those who have an image of the surrounding area at this shopping street as "Open" had come by an age of "20th", "40th" or "60th" in which the gender is "Male".

(4) Setting evidence to "Exclusive"

After setting evidence to "Exclusive", the result is exhibited in Table 5.

Table 5. Setting evidence to "Exclusive" case

Business	+
Atmosphere of urban	_
Male	_
Female	+
Age: 10th	
Age: 20th	++
Age: 30th	++
Age: 40th	_
Age: 50th	_
Age: 60th	_
Age: More than 70	_

We can observe that "Those who have an image of the surrounding area at this shopping street as "Exclusive" had come with the purpose of visiting for "Business" of an age of "20th" or "30th" in which the gender is "Female".

(5) Setting evidence to "Want to reside"

After setting evidence to "Want to reside", the result is exhibited in Table 6.

Table 6. Setting evidence to "Want to reside" case

Male	+
Female	_
Age: 10th	_
Age: 20th	+
Age: 40th	+
Age: 50th	_
Age: 60th	_
Age: More than 70	++

We can observe that "Those who have an image of the surrounding area at this shopping street as "Want to reside" had come by an age of "20th","40th" or "More than 70" in which the gender is "Male".

(6) Setting Evidence to "Do not want to reside"

After setting evidence to "Do not want to reside", the result is exhibited in Table 7.

Table 7. Setting evidence to "Do not want to reside" case

Business	_
Lively	+
Male	+
Female	_
Age: 10th	++
Age: 20th	_
Age: 30th	+
Age: 40th	_
Age: 50th	_
Age: 60th	++
Age: More than 70	

We can observe that "Those who have an image of the surrounding area at this shopping street as "Do not want to reside" had come under the image of the surrounding area at this shopping street as "Lively" of an age of "10th", "30th" or "60th" in which the gender is "Male".

(7) Setting Evidence to "Warm"

After setting evidence to "Warm", the result is exhibited in Table 8.

Table 8. Setting evidence to "Warm" case

Eating and drinking	_
Leisure, amusement	
Male	_
Female	+
Age: 10th	+
Age: 40th	++
Age: 50th	
Age: 60th	_
Age: More than 70	_

We can observe that "Those who have an image of the surrounding area at this shopping street as "Warm" had come by an age of "10th" or "40th" in which the gender is "Female".

(8) Setting evidence to "Aloof"

After setting evidence to "Aloof", the result is exhibited in Table 9.

Table 9. Setting evidence to "Aloof" case

Age: 30th	_
Age: 50th	+
Age: 60th	++
Age: More than 70	

We can observe that "Those who have an image of the surrounding area at this shopping street as "Aloof" had come by an age of "50th" or "60th".

(9) Setting evidence to "Fascinating"

After setting evidence to "Fascinating", the result is exhibited in Table 10.

Table 10. Setting evidence to "Fascinating" case

Shopping Eating and drinking	_
Eating and dainling	
Eaung and urinking	_
Beautiful	+
Ugly	_
Of the united feeling there is	+
Scattered	_
Varied	+
Featureless	_
Urban	_
Cheerful	+
Gloomy	_
Individualistic	+
Friendly	+
Healed	+
Stimulated	_
Want to play	+
Lively	+
Male	_
Female	+
Age: 10 th	++
Age: 20 th	++
Age: 40 th	
Age: 50 th	
Age: 60 th	
Age: More than 70	

We can observe that "Those who have an image of the surrounding area at this shopping street as "Fascinating" had come under the image of the surrounding area at this shopping street as "Beautiful", "Of the united feeling there is", "Varied"," Cheerful", "Individualistic", "Friendly", "Healed", "Want to play" or "Lively" of an age of "10th" or "20th" in which the gender is "Female".

(10) Setting evidence to "Not fascinating" After setting evidence to "Not fascinating", the result is exhibited in Table 11.

Table 11. Setting evidence to "Not fascinating" case

Of the united feeling there is	_
Featureless	+
Urban	+
Cheerful	_
Gloomy	+
Individualistic	_
Want to play	_
Want to examine deliberately	+
Lively	_
Atmosphere of urban	_
Female	+
Age: 10 th	
Age: 20 th	_
Age: 30 th	++
Age: 40 th	
Age: 50 th	_
Age: 60 th	++
Age: More than 70	+

We can observe that "Those who have an image of the surrounding area at this shopping street as "Not fascinating" had come under the image of the surrounding area at this shopping street as "Featureless", "Urban", "Gloomy" or "Want to examine deliberately" of an age of an age of "30th", "60th" or "More than 70" in which the gender is "Female".

(11) Setting evidence to "Want to play"

After setting evidence to "Want to play", the result is exhibited in Table 12.

Table 12. Setting evidence to "Want to play" case

Shopping	
Eating and drinking	_
Business	_
Ugly	_
Of the united feeling there is	+
Scattered	_
Urban	_
Cheerful	+
Gloomy	_
Individualistic	+
Friendly	+
Healed	+
Stimulated	_
Fascinating	+
Not fascinating	_
Lively	+
Calm	_
Atmosphere of urban	+
Atmosphere of rural area	_
Male	+
Female	_
Age: 10 th	++
Age: 20 th	++
Age: 30 th	_
Age: 40 th	+
Age: 50 th	
Age: 60 th	
Age: More than 70	

We can observe that "Those who have an image of the surrounding area at this shopping street as "Want to play" had come under the image of the surrounding area at this shopping street as "Of the united feeling there is", "Cheerful", "Individualistic", "Friendly", "Healed", "Fascinating", "Lively" or "Atmosphere of urban" of an age of "10th", "20th" or "40th" in which the gender is "Male".

(12) Setting evidence to "Want to examine deliberately" After setting evidence to "Want to examine deliberately", the result is exhibited in Table 13.

Table 13. Setting evidence to "Want to examine deliberately" case

Shopping	+
Eating and drinking	_
Ugly	+
Of the united feeling there is	_
Gloomy	+
Individualistic	_
Fascinating	_
Not fascinating	+
Lively	_
Atmosphere of urban	_
Male	_
Female	+
Age: 10 th	
Age: 20 th	_
Age: 30 th	_
Age: 40 th	+
Age: 50 th	
Age: 60 th	++
Age: More than 70	++

We can observe that "Those who have an image of the surrounding area at this shopping street as "Want to examine deliberately" had come with the purpose of visiting for "Shopping" under the image of the surrounding area at this shopping street as "Ugly", "Gloomy" or "Not fascinating" of an age of "40th", "60th" or "More than 70" in which the gender is "Female".

(13) Setting evidence to "Lively"

After setting evidence to "Lively", the result is exhibited in Table 14.

Table 14. Setting evidence to "Lively" case

5	rable 14. Setting evidence to Lively case	
Beautiful + Ugly - Of the united feeling there is + Scattered - Varied + Cheerful + Cheerful + Gloomy - Individualistic + Friendly + Healed + Stimulated - Stimulated - Fascinating + Not fascinating + Not fascinating + Want to play + Want to examine deliberately - Atmosphere of urban + Atmosphere of rural area - Male + Female - Age: 10th + Age: 20th + Age: 30th	Shopping	
Ugly — Of the united feeling there is + Scattered — Varied + Cheerful + Gloomy — Individualistic + Friendly + Healed + Stimulated — Fascinating + Not fascinating + Want to play + Want to examine deliberately — Atmosphere of urban + Atmosphere of rural area — Male + Female — Age: 10th + Age: 20th — Age: 30th —	Business	ı
Of the united feeling there is Scattered Varied Cheerful Gloomy Individualistic Friendly Healed Stimulated Fascinating Want to play Want to examine deliberately Atmosphere of urban Atmosphere of rural area Male Female Age: 10th Age: 20th Age: 30th	Beautiful	+
Scattered — Varied + Cheerful + Gloomy — Individualistic + Friendly + Healed + Stimulated — Fascinating + Not fascinating — Want to play + Want to examine deliberately — Atmosphere of urban + Atmosphere of rural area — Male + Female — Age: 10th + Age: 20th + Age: 30th —	Ugly	_
Varied + Cheerful + Holomy - Individualistic + Friendly + Healed + Stimulated + Stimulated - Fascinating + Not fascinating + Not fascinating - Want to play + Want to examine deliberately - Atmosphere of urban + Atmosphere of rural area - Male + Female - Age: 10th + Age: 20th + Age: 30th Age:	Of the united feeling there is	+
Cheerful + Gloomy - Individualistic + Friendly + Healed + Stimulated - Fascinating + Not fascinating - Want to play + Want to examine deliberately - Atmosphere of urban + Atmosphere of rural area - Male + Female - Age: 10th + Age: 20th - Age: 30th -	Scattered	
Gloomy — Individualistic + Friendly + Healed + Stimulated — Fascinating + Not fascinating — Want to play + Want to examine deliberately — Atmosphere of urban + Atmosphere of rural area — Male + Female — Age: 10th + Age: 20th + Age: 30th —	Varied	+
Individualistic	Cheerful	+
Friendly + Healed + Stimulated - Fascinating + Not fascinating - Want to play + Want to examine deliberately - Atmosphere of urban + Atmosphere of rural area - Male + Female - Age: 10th + Age: 20th - Age: 30th -		
Healed + Stimulated - Fascinating + Not fascinating - Want to play + Want to examine deliberately - Atmosphere of urban + Atmosphere of rural area - Male + Female - Age: 10th + Age: 20th + Age: 30th -	Individualistic	+
Stimulated — Fascinating + Not fascinating — Want to play + Want to examine deliberately — Atmosphere of urban + Atmosphere of rural area — Male + Female — Age: 10th + Age: 20th + Age: 30th —	Friendly	+
Fascinating + Not fascinating - Want to play + Want to examine deliberately - Atmosphere of urban + Atmosphere of rural area - Male + Female - Age: 10th + Age: 20th - Age: 30th -	Healed	+
Not fascinating — Want to play + Want to examine deliberately — Atmosphere of urban + Atmosphere of rural area — Male + Female — Age: 10th + Age: 20th + Age: 30th —	Stimulated	_
Want to play + Want to examine deliberately - Atmosphere of urban + Atmosphere of rural area - Male + Female - Age: 10th + Age: 20th + Age: 30th -	Fascinating	+
Want to examine deliberately — Atmosphere of urban + Atmosphere of rural area — Male + Female — Age: 10th + Age: 20th + Age: 30th —	Not fascinating	_
Atmosphere of urban + Atmosphere of rural area - Male + Female - Age: 10th + Age: 20th + Age: 30th -	Want to play	+
Atmosphere of rural area — Male + Female — Age: 10th + Age: 20th + Age: 30th —	Want to examine deliberately	
Male + Female - Age: 10th + Age: 20th + Age: 30th -	Atmosphere of urban	+
Female — Age: 10th +- Age: 20th +- Age: 30th —		ı
Age: 10th + - Age: 20th + - Age: 30th -	Male	+
Age: 20th +- Age: 30th	Female	ı
Age: 30th –	Age: 10th	++
-	Age: 20th	++
Age: 40th ——	Age: 30th	
	Age: 40th	
Age: 50th	Age: 50th	
Age. outil		
Age: More than 70	Age: More than 70	_

We can observe that "Those who have an image of the surrounding area at this shopping street as "Lively" had come under the image of the surrounding area at this shopping street as "Beautiful", "Of the united feeling there is", "Varied", "Cheerful", "Individualistic", "Friendly", "Healed", "Fascinating", "Want to play", or "Atmosphere of urban" of an age of "10th" or "20th" in which the gender is "Male".

(14) Setting evidence to "Calm"

After setting evidence to "Calm", the result is exhibited in Table 15.

Table 15. Setting evidence to "Calm" case

Shopping	+
Leisure, amusement	_
Of the united feeling there is	_
Cheerful	_
Individualistic	_
Fascinating	
Not fascinating	+
Want to play	
Want to examine deliberately	+
Atmosphere of urban	_
Male	_
Female	+
Age: 10th	
Age: 20th	
Age: 30th	++
Age: 50th	+
Age: 60th	+
Age: More than 70	++

We can observe that "Those who have an image of the surrounding area at this shopping street as "Calm" had come with the purpose of visiting for "Shopping" under the image of the surrounding area at this shopping street as "Not fascinating", or "Want to examine deliberately" of an age of "30th", "50th", "60th" or "More than 70" in which the gender is "Female".

(15) Setting evidence to "Atmosphere of urban" After setting evidence to "Atmosphere of urban", the result is exhibited in Table 16.

Table 16. Setting evidence to "Atmosphere of urban" case

_
+
+
+
+
_
++
_
_
_
_
++

We can observe that "Those who have an image of the surrounding area at this shopping street as "Atmosphere of urban" had come under the image of the surrounding area at this shopping street as "Cheerful", "Want to play" or "Lively" of an age of "10th" or "More than 70" in which the gender is "Male".

(16) Setting evidence to "Atmosphere of rural area" After setting evidence to "Atmosphere of rural area", the result is exhibited in Table 17.

Table 17. Setting evidence to "Atmosphere of rural area" case

Business	+
Of the united feeling there is	_
Cheerful	
Individualistic	_
Friendly	_
Fascinating	
Not fascinating	+
Want to play	_
Want to examine deliberately	+
Lively	
Male	
Female	+
Age: 10th	_
Age: 40th	_
Age: 50th	++
Age: 60th	++
Age: More than 70	+

We can observe that "Those who have an image of the surrounding area at this shopping street as "Atmosphere of rural area" had come with the purpose of visiting for "Business" under the image of the surrounding area at this shopping street as "Not fascinating" or "Want to examine deliberately" of an age of "50th", "60th" or "More than 70" in which the gender is "Female".

REMARKS

The Results for Bayesian Network Analysis are as follows.

In the Bayesian Network Analysis, model was built under the examination of the causal relationship among items. Sensitively Analysis was conducted after that. The main result of sensitively analysis is as follows.

We can observe that "Those who have an image of the surrounding area at this shopping street as "Healed" had come under the image of the surrounding area at this shopping street as "Of the united feeling there is", "Cheerful", "Individualistic", "Fascinating", "Want to play", "Lively" or "Atmosphere of urban" of an age of "10th", "20th", "30th" or "40th" in which the gender is "Female".

We can observe that "Those who have an image of the surrounding area at this shopping street as "Fascinating" had come under the image of the surrounding area at this shopping street as "Beautiful", "Of the united feeling there is", "Varied"," Cheerful", "Individualistic", "Friendly", "Healed", "Want to play" or "Lively" of an age of "10th" or "20th" in which the gender is "Female".

We can observe that "Those who have an image of the surrounding area at this shopping street as "Want to play" had come under the image of the surrounding area at this shopping street as "Of the united feeling there is", "Cheerful", "Individualistic", "Friendly", "Healed", "Fascinating", "Lively" or "Atmosphere of urban" of an age of "10th", "20th" or "40th" in which the gender is "Male".

We can observe that "Those who have an image of the surrounding area at this shopping street as "Want to examine deliberately" had come with the purpose of visiting for "Shopping" under the image of the surrounding area at this shopping street as "Ugly", "Gloomy" or "Not fascinating" of an age of "40th", "60th" or "More than 70" in which the gender is "Female".

We can observe that "Those who have an image of the surrounding area at this shopping street as "Lively" had come under the image of the surrounding area at this shopping street as "Beautiful", "Of the united feeling there is", "Varied", "Cheerful", "Individualistic", "Friendly", "Healed", "Fascinating", "Want to play", or "Atmosphere of urban" of an age of "10th" or "20th" in which the gender is "Male".

We can observe that "Those who have an image of the surrounding area at this shopping street as "Atmosphere of rural area" had come with the purpose of visiting for "Business" under the image of the surrounding area at this shopping street as "Not fascinating" or "Want to examine deliberately" of an age of "50th", "60th" or "More than 70" in which the gender is "Female".

ACKNOWLEDGEMENTS

The authors are grateful to all those who supported us for answering the questionnaire investigation.

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APPENDIX 1

Questionnaire Sheet about the Image Around the Shopping Street

The authors are grateful to all those who supported us for answering the questionnaire investigation.

- 1. How often do you come to this shopping street?
 a. Everyday b. () times a week c. () times a month d. () times a year e. miscellaneous ()
- 2. What is the purpose of visiting here? (Plural answers allowed)
- a. shopping b. eating and drinking c. business d. celebration、event e. leisure, amusement f. miscellaneous (

3. How do you feel about the image of the surrounding area at this shopping street? Select the position

Beautiful	•	•	•	•	•	Ugly
Of the united	•	•	•	•	•	Scattered
feeling there is						
Varied	•	•	•	•	•	Featureless
New	•	•	•	•	•	Historic
Full of nature	•	•	•	•	•	Urban
Cheerful	•	•	•	•	•	Gloomy
Individualistic	•	•	•	•	•	Conventional
Friendly	•	•	•	•	•	Unfriendly
Healed	•	•	•	•	•	Stimulated
Open	•	•	•	•	•	exclusive
Want to reside	•	•	•	•	•	Do not want to
						reside
Warm	•	•	•	•	•	Aloof
Fascinating	•	•	•	•	•	Not fascinating
Want to play	•	•	•	•	•	Want to examine
						deliberately
Lively	•	•	•	•	•	Calm
Atmosphere of	•	•	•	•	•	Atmosphere of rural
urban						area

4.	There	are	many	old	building	at	the	age	of	nearly	50	years.	Do	you	think	we	can	still	use
th	em?																		

a. Can use it b. Cannot use it c. Have no idea

5. Is there any functions or facilities that will be useful?	
6. Comments	
of definitions.	

7. Sex

a. Male b. Female

- 8. Age
- a.10th b.20th c.30th d.40th e.50th f.6th g. More than 70
- 9. Residence
- a. Fuji City b. Fujinomiya City c. Numazu City d. Mishima City e. Shizuoka City f. Miscellaneous
- in Shizuoka Prefecture g. Outside of Shizuoka Prefecture [

APPENDIX 2

Calculated posterior probability

	Ju	ı ŀ	Ş Ş	3	ıe	11	U	-	þ,	U	עי	aı	וט	11	ιy									sho	the light															\neg			Nis.	Į.		20
			n					e e																on at this opping street	the surrounding	,																	visiting	a summous of		ime_yoshihara
More than 70	600h	500	40th	3 00/5	20th	1001	Fortule	Male	Atmosphere of nasil area	Almosphere of urban	Calm	Lively	Want to evening deliberately	Want to play	Not becirating	Fascinality,	Alcof	Warm	Do not want to reside	Want to reside	Exclusive	Орен	Stimulated	Hodel	Unifically	Friendly	Conventional	Infiviludiate	Gleony	Cheerful	Urlson	Full of mature	Historic	New	Fedureless	Variod	Scattered	Of the united feeling, there is	AND	Bouiful	Losaro, ansaconos	Celebration, event	Business	Esting and drinking	Shopping.	state
0.116	0.147	0.134	0.178	0.189	0.125	0.110	0.444	0.556	0.594	0.129	0.487	0.247	0.327	0.259	0.331	0.317	0.177	0.496	0.385	0.269	0.349	0.280	0.225	0.311	0.208	0.491	0.359	0.276	0.365	0.344	0.251	0.329	0.597	0.153	0.442	0.194	0.367	0.293	0.256	0.314	0.046	0.546	0.114	0.172	0.252	Prior
0.147	0.179	0.168	0.203	0.107	0.098	0.099	0.532	0.468	0.608	0.124	0.500	0.230	0.345	0.246	0.332	0.306	0.180	0.499	0.379	0.269	0.345	0.275	0.232	0.301		0.479	0.365	0.265	0.370	0.333	0.252	0.329	0.583	0.156					0.262		0.049	0.533	0.117	0.163		Shopping.
7 0.087	9 0.167	8 0.171	3 0.192	7 0.224	8 0.099	90.0	2 0.280	8 0.720	8 0.591	4 0.121	0 0.480	0 0.239	5 0.309	6 0.247	2 0.336	6 0.295	0.180	9 0.481	9 0.386	9 0.269	5 0.342	5 0.284	2 0.232	0.299	8 0.212	9 0.481	5 0.356	5 0.272	0 0.369	3 0.336	2 0.259	9 0.320	3 0.611	6 0.144					2 0.253	3 0.304	9 0.046	3 0.534	7 0.110	GJ.	0.240	Faingard drinking
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0.131 (0.131 (0.148 (0.189	0.144 (0.220 (0.036		0.508	0.608 (0.116	0.489 (0.232 (0.333 (0.247 (0.334 (0.316 0	0.178	0.497 (0.371 (0.276 0	0.363	0.280	0.224 (0.304 (0.223 (0.367		0.380	0.333	0.245 (0.338 (0.165 (0.264 (0.047 (0.528		0.167 (0.259 (Coldmation
0.112	0.133	0.117		0.229		0.128		0.537		0.132	0.490	0.250	0.326	0.264	0.330	0.323	0.175	0.499	0.387	0.268	0.350	0.280	0.224							0.348	0.250	0.329									0.045	-	0.111	0.169	0.247	Leitre,
0.142	0.134	0.222	0.138	0.092	0.136	0.136	0.403	0.597	0.593	0.134	0.476	0.255	0.318	0.259	0.318	0.318	0.179	0.486	0.378	0.268	0.340	0.272	0.225	0.301	0.206	0.489	0.335	0.280	0.339	0.346	0.250	166.0	0.580	0.159	0.424	0.201	0.372	0.295	0.251	0.309	-	0.530	0.117	0.173	0.263	Beautifu
0.130	0.123	0.109	0.132	0.225	0.154	0.127	0.457	0.543	0.590	0.133	0.486	0.257	0.326	0.265	0.330	0.330	0.173	0.497	0.386	0.272	0.355	0.280	0.222	0.318	0.210	0.498	0.360	0.279	0.365	0.351	0.251	0.334	0.600	0.154	0.439	0.200	0.357	0.295	0.000	-	0.046	0.554	0.115	0.167	0.243	age of the surr
0.144	0.169	0.118	0.193	0.177	0.126	0.072	0.461	0.539	0.601	0.124	0.495	0.234	0.337	0.247	0.339	0.307	0.176	0.497	0.382	0.273	0.350	0.281	0.230	0.305	0.213	0.481	0.365	0.268	0.374	0.337	0.254	0.331	0.597	0.153	0.451	0.191	0.374	0.287	_	0.000	0.046	0.540	0.118	0.171	0.258	Ounding area at Ortho
0.093	0.109	0.105	0.220	0.157	0.149	0.166	0.437	0.563	0.578	0.137	0.474	0.266	0.317	0.285	0.314	0.337	0.176	0.502	0.385	0.270	0.346	0.284	0.217	0.324	0.205	0.507	0.352	0.289	0.354	0.359	0.243	0.331	0.598	0.155	0.434	0.195	0.000	_	0.250	0.316	0.047	0.549	0.113	0.166	0.248	curited Scat
0.134	0.179	0.144	0.201	0.155	0.106	0.082	0.428	0.572	0.599	0.125	0.491	0.236	0.332	0.247	0.336	0.303	0.179	0.494	0.383	0.270	0.344	0.281	0.230	0.302	0.210	0.482	0.362	0.269	0.371	0.337	0.255	0.328	0.595	0.152	0.450	0.190	_	0.000	0.261	0.306	0.047	0.537	0.115	0.177	0.260	aired Va
0.140	0.103	0.145	0.129	0.191	0.167	0.125	0.417	0.583	0.588	0.135	0.479	0.261	0.318	0.266	0.324	0.330	0.173	0.492	0.380	0.274	0.352	0.279	0.222	0.313	0.212	0.495	0.356	0.283	0.363	0.351	0.248	0.336	0.594	0.156	0	_	0.360	0.295	0.252	0.324	0.048	0.546	0.117	0.170	0.244	Virial
0.140	0.181	0.093	0.194	0.205	0.097	0.090	0.416	0.584	0.593	0.129	0.492	0.241	0.334	0.251	0.340	0.306	0.176	0.496	0.389	0.272	0.345	0.285	0.230	0.307	0.209	0.488	0.362	0.270	0.371	0.342	0.258	0.328	0.603	0.149	_	0	0.373	0.288	0.261	0.312	0.045	0.547	0.112	0.177	0.250	biturdos
0.110	0.161	0.144	0.152	0.129	0.197	0.107	0.476	0.524	0.600	0.124	0.480	0.250	0.332	0.261	0.326	0.325	0.180	0.496	0.382	0.270	0.356	0.279	0.221	0.311	0.213	0.489	0.362	0.278	0.371	0.344	0.250	0.333	0		0.429	0.198	0.366	0.296	0.257	0.317	0.048	0.535	0.122	0.165	0.257	New
0.105	0.151	0.113	0.184	0.215	0.125	0.107	0.426	0.574	0.591	0.129	0.486	0.248	0.325	0.261	0.332	0.317	0.177	0.496	0.387	0.270	0.350	0.283	0.225	0.313	0.208	0.492	0.359	0.277	0.366	0.346	0.252	0.329							0.255		0.045	0.549	0.113	0.175	0.246	Historic
5 0.137	0.124	0.128		0.186	0.148	0.105		0.549	0.593	0.130	6 0.487	8 0.249	0.326	0.260	2 0.329	7 0.322	7 0.174	6 0.497	7 0.380	0.273	0.351	0.280	0.224	0.311		2 0.490	9 0.360	7 0.277	6 0.366	0.345	2	9	0.596	0.155					5 0.257		5 0.047	0.545	3 0.117	0.169	6 0.251	Full of ridure
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0.111	0.125	0.106	0.171	0.188	0.134	0.165	0.415	0.585	0.579	0.139	0.476	0.267	0.319	0.278	0.320	0.333	0.175	0.497	0.389	0.270	0.346	0.283	0.220				0.334	0.286	0	_	0.249	0.331							0.250		0.047		0.110	0.169	0.244	Glaxuy
0.128	0.186	0.122	0.163	0.190	0.144	0.067	0.447	0.553	0.603	0.122	0.491	0.236	0.337	0.245	0.341	0.307	0.178	0.494	0.385	0.271	0.354	0.281	0.229	0.305	0.214	0.481	0.366	0.269	_	0	0.257	0.330	0.599	0.155	0.449	0.192	0.372	0.284	0.262	0.314	0.046	0.540	0.119	0.174	0.253	Infridu
0.092	0.109	0.125	0.183	0.181	0.156	0.154	0.405	0.595	0.579	0.137	0.473	0.266	0.314	0.280	0.317	0.334	0.176	0.496	0.386	0.270	0.349	0.283	0.218	0.321	0.207	0.504	0	_	0.357	0.357	0.245	165.0	0.599	0.155	0.433	8,910	0.359	0.307	0.249	815.0	0.047	845.0	0.113	0.172	0.242	listic Carvon
0.127	0.172	0.125	0.167	0.190	0.128	0.090	0.471	0.529	0.601	0.128	0.493	0.239	0.336	0.250	0.337	0.312	0.178	0.497	0.385	0.269	0.352	0.280	0.227	0.308	0.210	0.485	_	0	0.372	0.339	0.254	0.330	0.597	0.154	0.446	0.192	0.370	0.287	0.260	0.314	0.046	0.544	0.116	0.170	0.256	foral Friend
0.108	0.136	0.108	0.171	0.190	0.128	0.158	0.432	0.568	0.583	0.137	0.480	0.263	0.322	0.275	0.323	0.330	0.176	0.498	0.390	0.269	0.347	0.282	0.221	0.320	0	_	0.356	0.283	0.358	0.356	0.250	0.329	0.600	0.152	0.440	0.196	0.360	0.303	0.251	0.319	0.046	0.552	0.110	0.169	0.246	V Undi
0.144	0.138	0.118	0.180	0.185	0.178	0.057	0.425	0.575	0.598	0.123	0.486	0.241	0.329	0.250	0.336	0.314	0.175	0.494	0.378	0.277	0.355	0.284	0.226	0.306	_	0	0.363	0.274	0.376	0.338	0.250	0.336	0.598	0.157	0.445	0.197	0.370	0.288	0.262	0.317	0.046	0.538	0.123	0.174	0.249	ically Hodal
0.089	0.125	0.097	0.184	0.208	0.144	0.153	0.465	0.535	0.584	0.134	0.481	0.261	0.322	0.278	0.322	0.335	0.175	0.503	0.389	0.268	0.351	0.283	0	_	0.205	0.505	0.336	0.284	0.358	0.385	0.247	0.330	0.602	0.153	0.437	0.195	0.356	0.306	0.250	0.321	0.045	0.556	0.112	0.165	0.244	hi

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0.134	0.134	0.134			94 0.150	0.138 0.094	0.097	0.104	0.094	0.122		851.0	0.113			0.100 0.12	0.145 0
			3			0.181 0.149	0.133	0.163	0.204			92170					
0.189 0.189			189		881.0 08	0.210 0.180	0.173	0.170	0.179	0.223	0.193	591.0	0.191	0.199	18 0.184	0.192 0.218	0.191 0
			0.125		95 0.125	0.099 0.095	0.165	0.117				0.127				0.138 0.162	
0.110 0.110			0.110	5.		0.086 0.3	0.220	0.091	0.210	0.062	0.175	0.105	0.116	0.131	88 0.097	0.106 0.088	
0 1	0 1 0.444	1 0	0			0.498 0.372	0.364	0.526				0.437				0.410 0.48	0.436 0
0 1	0 0.556	0 1	_	,	28 0.516	0.502 0.628	0.636	0.474	0.85.0	0.541		595.0	0.520		19 0.579	0.590 0.519	0.564 0
0.551 0.646			0.551	_	0	0.603	0.564	0.608	0.568			6650				0.588 0.59	0.600 0
0.146 0.108			0.146	_	-	0.125	0.153	0.124	0.145	0.122		0.123	0.129			0.129 0.12	0.126 0
0.440 0.546			0.440		71 0.495	1 0.471	0	0.501	0.466			0.484				0.482 0.490	0.496 0
	0.202		0.282			0 0.287	_	0.231	0.282			0.242					
	0.387		0.279			0.336 0.313	0.310	_	0		0.317	0.329		0.330	29 0.326	0.325 0.329	
	0.245		0.270	_	91 0.248	0.248 0.291	0.297	0	- 1								0.244 0
0.322 0.342	0.342		0.322	-4			0.310	0.342	0.307	1					34 0.330	0.330 0.334	0.339 0
0.302 0.336			0.302			0.310 0.341	0.348	0.308	0.350	0	- 1	0.310				0.318 0.32	0.303 0
0.179 0.174			0.179	-	70 0.179	0.176 0.170	0.176	0.178	0.175	0.178	0.172	_	0	0.179	77 0.173	0.177 0.177	0.177 0
0.464 0.536			0.464	-	96 0.496	0.499 0.496	0.494	0.501	0.503	0.495	0.503	0	1	0.495	98 0.496	0.497 0.49	0.493 0
0.395 0.371			0.395	<i></i>	92 0.383	0.382 0.392	0.395	0.388	0.390	0.387		0.390	0.384	_	0	0.387 0.383	0.384 0
0.280 0.255			0.280	~	74 0.268	0.269 0.274	0.272	0.269	0.269	0.269	0.271	0.263	0.269	0	1 69	0.271 0.269	0.270 0
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				-0.005	130.0	-0.016		-0.004												T	0.000	-0.002	0.000
				180.0	0.000	-0.017		0.020													0.006	-0.001	0.005
0.004 0.005 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.007 0.006 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 0.008 0.007 <th< td=""><td></td><td></td><td></td><td>-0.048</td><td>0.088</td><td>40004</td><td>110.0</td><td>27000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1000 -0000</td><td>0.003</td><td>0.000</td><td>-0.003</td><td>0.000</td></th<>				-0.048	0.088	40004	110.0	27000											1000 -0000	0.003	0.000	-0.003	0.000
0.004 0.005 <th< td=""><td></td><td></td><td></td><td>0.002</td><td>0.063</td><td>0.026</td><td></td><td>010.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>10001</td><td>-0.003</td><td>1000</td></th<>				0.002	0.063	0.026		010.0													10001	-0.003	1000
0.004 0.005 0.006 0.007 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.007 0.006 0.007 0.006 0.007 0.006 0.007 <th< td=""><td></td><td></td><td></td><td>-0.066</td><td>-0.056</td><td>-0.094</td><td></td><td>0.011</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.001</td><td>0.008</td><td>-0.011</td></th<>				-0.066	-0.056	-0.094		0.011													0.001	0.008	-0.011
0.004 0.005 0.005 0.006 0.005 <th< td=""><td></td><td></td><td></td><td>-0.049</td><td>0.056</td><td>0.150</td><td>-0.005</td><td>0.004</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.004</td><td>-0.011</td><td>0.013</td></th<>				-0.049	0.056	0.150	-0.005	0.004													0.004	-0.011	0.013
62 63<				0.239	0.257	0.168	0.265	0.248											0.259 0.254	0.256	0.257	0.260	0.250
160 F 180 F <th< td=""><td></td><td></td><td></td><td>0.060</td><td>0.072</td><td>0.048</td><td>0.009</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.004 0.001</td><td>0.005</td><td>0.000</td><td>-0.005</td><td>0.007</td></th<>				0.060	0.072	0.048	0.009												0.004 0.001	0.005	0.000	-0.005	0.007
52 (6) 880/0 52 (6) 880/0 52 (6) 810 (7) 810 (-0.024	0.004	0.011	-0.004	0.003											100.0-	-0.001	10001	0.000	-0.001
210.6 210.7 210.0 100.0 220.4 250.0 220.4 250.0 210.0				0.116	-0.063	0.092	0.023												-0.002 0.004	0.002 -	0.000	-0.003	0.010
0.004 0.001 0.000 0				-0.027	0.087	-0.077	0.012													0.004	0.000	-0.001	-0.002
				0.031	-0.036	-0.077	-0.064														0.003	0.004	-0.007
013 0.015 -0.017 0.006 -0.011 0.006 -0.040 0.050				-0.110	-0.055			-0.040					013						-0.002 -0.004	-0.004	-0.006	0.006	-0.007
Abof Faccinative, Nat Socientary, Warstorphy (Warstorphy Lach); Colin almosphere of Amosphere of Male Female 10th 20th 20th 40th 50th 60th Mac Henri One Colin almosphere of Management	Marc than 70	6005	4005					Male	Almosphere of maral area	Atmosphere of urban	Calm	Harry Trees.	Ward to exa dell'acrately	p, Want to play	Nat facinatin	Fascinsting,	Alcof	Warm	de Do notwantto	haive Wast to reside	Ew	Simulated Open	Hosled S