User Survey on Food and Drinks in Japanese Public Libraries

Marika Kawamoto, Keita Tsuji

Abstract—Several decades ago, food and drinks were disallowed in most Japanese libraries. However, as discussions of "Library as a Place" have increased in recent years, the number of public and university libraries that have relaxed their policies to allow food and drinks have been increasing. This study focused on the opinions of library users on allowing food and drinks in public libraries and conducted a questionnaire survey among users of nine Japanese libraries. The results indicated that many users favored allowing food and drinks in libraries. Furthermore, it was found that users tend to frequently visit and stay longer in libraries where food and drinks are allowed.

Keywords—Food and drinks, Japanese libraries, opinions of users, public libraries.

I. INTRODUCTION

S EVERAL decades ago, food and drinks were not allowed in most Japanese libraries. Oldenburg [1], an American urban sociologist proposed the idea of "the Third Place" in 1989. As he mentioned a library as an example of "the Third Place," discussions of "Library as Place" have spread in recent years. Accordingly, the number of public or university libraries that allow food and drinks have been increasing.

We have already investigated (1) the percentage of Japanese libraries that allow food and drinks, (2) areas of the library where food and drinks are allowed, (3) the types of food and drinks that are allowed, and (4) the opinions of librarians on allowing food and drinks in libraries [2]. The results showed that the 56.2% and 62.3% of 356 public and 329 university libraries, respectively, allowed food and/or drinks. We also revealed that 66.0% of public librarians agreed that "Drinks should be allowed in the whole library" or "Drinks should be allowed in the whole library." Similarly, 46.9% of public librarians agreed that "Food should be allowed in the whole library." However, there may be some differences between what libraries provide and what library users' demand.

This study attempts to clarify whether library users expect libraries to allow food and drinks and used a questionnaire survey to find out. Since opinions could differ between users of libraries where food and drinks are allowed and where they are not, we investigated users in both such libraries.

University of Tsukuba, Japan (e-mail: keita@slis.tsukuba.ac.jp).

II. RELATED STUDIES

Davis and Boyer [3] showed that traditional bans on food and drink consumption in academic libraries were gradually giving way in some institutions to more tolerant policies and practices. Singh [4] conducted a questionnaire survey to determine how students used academic libraries and asked about their coffee drinking habits. After examining the findings, suggestions were made for libraries to consider providing coffee for their users. The Louisiana State University (LSU) planners forged a deal with Starbucks to have it set up shop on the first floor of the Middleton Library, as well as two other sites on campus. However, more than 100 students voiced their concerns about the addition to the library in response to an e-mail campaign [5].

In Japan, the 2008 Editorial Board of the Pharmaceutical Library Bulletin [6] and Terasawa [7] conducted questionnaire surveys on allowing food and drinks in libraries. While these surveys were conducted on librarians, Ueoka [8] conducted the survey on users. She reported the results of the focus group interviews conducted by the User Survey Group at Keio University Library. With regard to eating and drinking, she revealed that students preferred to study with access to food and drinks in libraries because "I am hungry while studying" and "I study at home with food and drinks." Do library users really need eating and drinking services? Very few studies have focused on the opinions of library users on policies of allowing food and drinks in libraries.

III. METHOD

In this study, we focused on public library users across different age groups to investigate their opinions. Because most Japanese libraries disallowed food and drinks until a few years ago, the opinions of users might be significantly different depending on their age.

A. Sample Library Users

We randomly selected six public libraries that allowed food and/or drinks and three public libraries that did not. These libraries formed the setting of the questionnaire survey that we had conducted in [2] (i.e. some of the respondent librarians in [2] belong to these libraries) and were located in Tokyo, Ibaraki, and Chiba prefectures. We randomly selected 20 library users per library.

B. Survey Dates

This survey was conducted on weekdays between February and April, 2017, except during students' spring holidays.

We went to each library and asked users to respond to the

Marika Kawamoto is part of the Graduate School of Library, Information and Media Studies, University of Tsukuba (e-mail: marika@slis.tsukuba.ac.jp). Keita Tsuji is part of the Faculty of Library, Information and Media Science,

questionnaire.

 TABLE I

 WHETHER USERS HAVE USED FOOD AND/OR DRINKING AREAS IN THE LIBRARIES

| | n | Frequently use | Occasionally use | Do not use | Did not know | Other responses | No response |
|---------------------------------|-----|----------------|------------------|------------|--------------|-----------------|-------------|
| Libraries that allow food/drink | 120 | 9.2% | 16.7% | 34.2% | 38.3% | 0.0% | 1.7% |

C. Questionnaire Survey

The questionnaire was created by combining and modifying our 2015 questionnaire [2], Ueoka's survey [8], etc. Survey items differed depending on whether or not libraries allowed food and drinks. Each question allowed a single answer, multiple answers, or a free description. The survey items were: For all users:

- (1) Users' gender
- (1) Users genu
- (2) Users' age
- (3) Users' occupation
- (4) The time it takes to get from home to the library
- (5) Frequency of library visits
- (6) Duration of library visits
- (7) Number of visitors when coming to the libraries
- (8) Purpose of visiting the libraries
- (9) Number of books they borrow per month
- (10) Frequency with which they read, study, and work while drinking or eating every day, irrespective of whether they are at home or in libraries
- (11) Whether users want to allow food and drinks in libraries
- (12) Types of food and drinks that users want
- (13) Types of food and drinks that make users feel uncomfortable
- (14) Opinions of users on library policies allowing food and drinks
- (15) Things users want in the eating and drinking areas of the libraries
- (16) Comfort of the libraries
- (17) Whether users have spilled food or drinks on library materials outside the libraries in the past
- (18) Whether to eat or drink when using library materials outside the libraries

For users in libraries that allowed food and/or drinks:

- (19) Whether users have used food and/or drinking areas in the libraries
 - For users in libraries that disallowed food and drinks:
- (20) What they do when they feel thirsty or hungry in libraries
- (21)Expected change in the frequency of visits after libraries begin allowing food and drinks
- (22) Expected change in the duration of visits after libraries begin allowing food and drinks

IV. RESULTS

One hundred and twenty users of libraries that allowed food and/or drinks and 60 users of libraries that disallowed food and drinks responded to the survey.

First, we reveal the responses to survey item (19) "Whether users have used food and/or drinking area in the libraries" in Table I. It is the survey item for users in libraries that allowed food and/or drinks. Before investigation, we assumed that users of such libraries would have known about the food and/or drinking area. However, there were a large number of users (38.3%) who did not know of such a facility. We eliminated these users' responses from our sample to accurately compare the opinions of users of libraries that allowed food and/or drinks with that of the users of libraries that did not.

A. Basic Results

The characteristics of the users who responded to the questionnaire were shown in Tables II-VI.

1) Users' Gender

| TABLE II | | |
|---------------|---|-----|
| USERS' GENDER | | |
| | n | Mal |

| | n | Male | Female |
|---|----|-------|--------|
| Libraries that allowed food and/or drinks | 74 | 55.4% | 44.6% |
| Libraries that disallowed food and drinks | 60 | 45.0% | 55.0% |

2) Users' Age

| TABLE III |
|--|
| USERS' AGE (LIBRARIES THAT ALLOWED FOOD AND/OR DRINKS) |

| (| | |
|---|----------------|-------|
| | 10 to 19 years | 13.5% |
| | 20 to 29 years | 12.2% |
| | 30 to 39 years | 14.9% |
| | 40 to 49 years | 9.5% |
| | 50 to 59 years | 9.5% |
| | 60 to 69 years | 17.6% |
| | 70+ years | 23.0% |
| | | |

| TABLE | IV |
|---------------------------------|--------------------------|
| USERS' AGE (LIBRARIES THAT DISA | ALLOWED FOOD AND DRINKS) |
| 10 to 19 years | 18.3% |

| 20 to 29 years | 15.0% |
|----------------|-------|
| 30 to 39 years | 18.3% |
| 40 to 49 years | 15.0% |
| 50 to 59 years | 5.0% |
| 60 to 69 years | 20.0% |
| 70+ years | 8.3% |

3) Users' Occupation

TABLE V USERS' OCCUPATION (LIBRARIES THAT ALLOWED FOOD AND/OR DRINKS)

| 110 | TION (LIBRARIES THAT ALLOWED FO | | | | | | |
|-----|---------------------------------|-------|--|--|--|--|--|
| | Office worker | 9.5% | | | | | |
| | Self-employed | 10.8% | | | | | |
| | Part-time employee | 17.6% | | | | | |
| | Housewife | 12.2% | | | | | |
| | Student | 21.6% | | | | | |
| | Unemployed | 24.3% | | | | | |
| | Others | 2.7% | | | | | |
| - | No response | 1.4% | | | | | |

TABLE VI USERS' OCCUPATION (LIBRARIES THAT DISALLOWED FOOD AND DRINKS)

| | | |
|--------------------|-------|---|
| Office worker | 15.0% | |
| Self-employed | 6.7% | |
| Part-time employee | 13.3% | |
| Housewife | 13.3% | |
| Student | 20.0% | |
| Unemployed | 23.3% | |
| Others | 3.3% | |
| No response | 5.0% | |
| | | : |

Next, we report the results from the perspective of (i) how users use libraries, (ii) using food and drinks in libraries and users' thoughts on it, and (iii) damaging or defiling library materials.

(i) How users use libraries

For survey items (4) to (9), we asked each user how he or she used libraries. Table VII shows the responses to survey item (5) "Frequency of library visits." Among users of libraries that disallowed food and drinks, 8.3% answered "Almost every day," whereas that percentage was 14.9% among users of libraries that allowed food and/or drinks. In addition, 25.0% of users of libraries that disallowed food and drinks answered "Two or three days a week," whereas that percentage was 31.1% among users of libraries that allowed food and/or drinks.

For survey item (6) "Duration of library visits" in Table VIII, 20.0% of users of libraries that disallowed food and drinks answered "Two hours or more," whereas that percentage was 35.1% among users of libraries that allowed food and/or drinks.

For survey item (8) "Purpose of visiting the libraries" in Table IX, 18.9% of users of libraries that allowed food and/or drinks and 10.0% of users of libraries that disallowed food and drinks answered "Research." On the other hand, 21.6% of users of libraries that allowed food and/or drinks and 31.7% of users of libraries that disallowed food and drinks answered "To study." Therefore, there are differences between libraries that allow food and/or drinks and those that do not.

(ii) Using food and drinks in libraries and users' thoughts on it Through survey items (10) to (16) and (19) to (22), we investigated the current status of eating and drinking in libraries and the opinions on allowing food and drinks in libraries. Table X shows the responses to survey item (11), "Whether users want to allow food and drinks in libraries." We found that 68.9% (21.6% + 47.3%) of users of libraries that allowed food and/or drinks and 51.6% (18.3% + 33.3%) of users of libraries that disallowed food and drinks answered "Please allow both" or "Please allow only drinks." The most popular reasons for this were "To appease my thirst." On the other hand, 29.7% of users of libraries that allowed food and/or drinks and 36.7% of users of libraries that did not answer "Do not allow either." The most popular reason for this was "Because the books get dirty."

According to the responses to survey item (14) "Opinions of users on library policies allowing food and drinks," as seen in Table XI, 82.4% (29.7% + 52.7%) of users of libraries that allowed food and/or drinks and 86.7% (11.7% + 75.0%) of users of libraries that disallowed food and drinks answered "Drinks should be allowed in the whole library" or "Drinks should be allowed in parts of the library." With regard to food, as seen in Table XII, 56.8% (5.4% + 51.4%) of users of libraries that allowed food and/or drinks and 60.0% (1.7% + 58.3%) of users of libraries that disallowed food and drinks answered "Food should be allowed in the whole library" or "Food should be allowed in the whole library" or "Food should be allowed in the users" of "Food should be allowed in the users" of "Food should be allowed in the users" of "Food should be allowed in parts of the library."

The survey items (20) to (22) were asked only to users of libraries that disallowed food and drinks. Table XIII shows the responses for survey item (20) "What they do when they feel thirsty or hungry in libraries." A large number of users leave the library at least once (for instance, 33.3% "Go outside once to eat and drink" and 23.3% "Go home"). On the other hand, 23.3% of users responded with "Be patient," implying that they deal with their hunger or thirst by being patient and waiting.

Table XIV shows the responses for survey item (21) "Expected change in the frequency of visits after libraries begin allowing food and drinks." With regard to allowing drinks, 1.7% (1.7% + 0.0%) of users answered "[I think visits will] decrease" or "[I think visits will very] greatly decrease," whereas, 21.6% (3.3% + 18.3%) of users answered "[I think visits will very] greatly increase" or "[I think visits will] increase." With regard to allowing foods, 6.7% (5.0% + 1.7%) of users answered "[I think visits will] decrease" or "[I think visits will very] greatly decrease," whereas 16.7% (5.0% + 11.7%) of users answered "[I think visits will very] greatly increase" or "[I think visits will] increase." Table XV shows the responses for survey item (22) "Expected change of duration of visits in libraries after libraries begin allowing food and drinks." With regard to allowing drinks, 1.7% (0.0% + 1.7%) of users answered "[I think visits will] decrease" or "[I think visits will very] greatly decrease," whereas, 40.0% (6.7% + 33.3%) of users answered "[I think visits will very] greatly increase" or "[I think visits will] increase." With regard to allowing foods, 5.0% (3.3% + 1.7%) of users answered "[I think visits will] decrease" or "[I think visits will very] greatly decrease," whereas 33.4% (6.7% + 26.7%) of users answered "[I think visits will very] greatly increase" or "[I think visits will] increase."

TABLE VII

| FREQUENCY OF LIBRARY VISITS | | | | | | | | | | |
|------------------------------------|----|---------------------|-----------------------------|----------------|---------------------------|-----------------|-------------------------|---------------|--|--|
| | n | Almost every day | Two or three days a week | One day a week | Two or three days a month | One day a month | Several times a year | First time | | |
| Libraries that allow food/drink | 74 | 14.9% | 31.1% | 17.6% | 24.3% | 6.8% | 4.1% | 1.4% | | |
| Libraries that disallow food/drink | 60 | 8.3% | 25.0% | 15.0% | 21.7% | 8.3% | 18.3% | 3.3% | | |

| | | | | DURAT | TABLE VI ION OF LIBRA | | | | | | |
|--|--|---|---|---|--|--|---|---|--|--|---|
| | | | n | Less than 3 | 30 minutes | 30 ~ 59 minu | tes One ~ 7 | wo hours | Two hours | s or more | - |
| Libraries th | | | | 14. | | 29.7% | | 0.3% | 35.1 | | - |
| Libraries tha | t disallov | v food/drin | ık 60 | 6.7 | 7% | 45.0% | 28 | 3.3% | 20.0 | 0% | = |
| | | | | | TABLE IX | ζ. | | | | | |
| | | | | | | HE LIBRARIES | | | | | |
| n | To rent books | To read books | Research | To receive reserved boo | | n To study | To participat in events | e To relax | To eat and drink | No purp | ose Others |
| food/drink | 48.6% | 28.4% | 18.9% | 4.1% | 21.6% | 21.6% | 0.0% | 5.4% | 0.0% | 0.0% | 4.1% |
| Libraries that disallow food/drink 60 | 48.3% | 36.7% | 10.0% | 3.3% | 23.3% | 31.7% | 0.0% | 5.0% | 1.7% | 1.7% | 1.7% |
| | | | | | TABLE X | | | | | | |
| | | WH | HETHER US | | | OD AND DRINK | | ES | | | |
| | | n Ple | ease allow | both Plea | ase allow only drinks | , | low only od | Do not allo | w either | Others | No response |
| Libraries that allow food/dr | rink | 74 | 21.6% | | 47.3% | 0.0 | | 29.7 | % | 0.0% | 1.4% |
| Libraries that disallow food/d | drink | 60 | 18.3% | | 33.3% | 0.0 |)% | 36.7 | % | 11.7% | 0.0% |
| | | | | | | | | | | | |
| | | | | OF LISERS ON | TABLE X | | | | | | |
| | | | | of Users on ld be allowed | | LICIES ALLOW | | rinks shoul | d be | | No |
| | | n | | ole library | | of the library | | bited in the | | Others | response |
| Libraries that allow fo | od/drink | 74 | 29. | .7% | | 52.7% | | 13.5% | | 2.7% | 1.4% |
| Libraries that disallow f | food/drin | k 60 | 11. | .7% | | 75.0% | | 11.7% | | 0.0% | 1.7% |
| | | n I | Food shoul | ld be allowed | in Food s | OLICIES ALLOV hould be allow | red F | ood should | | Others | No |
| Libraries that allow fo | | n 74 | Food shoul the wh | | N LIBRARY PO | OLICIES ALLOV | red F | ood should bited in the 35.1% 35.0% | | Others 1 4.1% 0.0% | No response 4.1% 5.0% |
| | | n 74 | Food shoul the wh | ld be allowed tole library 5.4% | N LIBRARY PO | DLICIES ALLOW hould be allow rts of the librar 51.4% | red F | bited in the 35.1% | | 4.1% | 4.1% |
| | | n 74 k 60 | Food shoul the wh | ld be allowed nole library 5.4% 1.7% | N LIBRARY Po in Food s in par TABLE XI | DLICIES ALLOV hould be allow ts of the librar 51.4% 58.3% | ed F y prohi | bited in the 35.1% 35.0% | | 4.1% | 4.1% |
| | | n 74 k 60 WHA | Food shoul the wh | ld be allowed nole library 5.4% 1.7% DO WHEN THI | N LIBRARY Pe in Food s in par TABLE XI EY FEEL THIR | DLICIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG | ed F y prohi RY IN LIBRAR | bited in the 35.1% 35.0% IES | library | 4.1% 0.0% | 4.1% 5.0% |
| | food/drin | n 74 k 60 WH/ | Food shoul the wh | ld be allowed nole library 5.4% 1.7% DO WHEN THI | N LIBRARY PO in Food s in par TABLE XI EY FEEL THIR | DLICIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG Skip lu | ed F y prohi | bited in the 35.1% 35.0% | library Secretly | 4.1% | 4.1% 5.0% |
| Libraries that disallow f | food/drin | n 74 k 60 WH/ n Go out eat a | Food shoul the wh AT THEY D side once | ld be allowed nole library 5.4% 1.7% Do WHEN THI to Go to a | N LIBRARY PO in Food s in par TABLE XI EY FEEL THIR Go hor nt Go hor | DLICIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG ne Skip h | ed F y prohi RY IN LIBRAR Inch/dinner | bited in the 35.1% 35.0% IES Be | library Secretly in th | 4.1% 0.0% eat and dr | 4.1% 5.0% |
| Libraries that disallow f | food/drin | n 74 k 60 WH/ n Go out eat a | Food shoul the wh AT THEY D side once t and drink | ld be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura | N LIBRARY Period Sin Food Sin participation of the second | DLICIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG Ne Skip lu 6 1 | ed F y prohi RY IN LIBRAR Inch/dinner time | bited in the 35.1% 35.0% IES Be patient | library Secretly in th | 4.1% 0.0% eat and dr he library | 4.1% 5.0% |
| Libraries that disallow f | food/drin | n 74 k 60 WHA n Go out eat a 50 3 | Food shoul the wh | ld be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% | N LIBRARY PO in Food s in par TABLE XI EY FEEL THIR Go hor nt Go hor TABLE XI | DILCIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG ne Skip h 6 1 | ed F y prohi RY IN LIBRAR Inch/dinner time 5.0% | bited in the 35.1% 35.0% IES Be patient 23.3% | library Secretly in th | 4.1% 0.0% eat and dr he library | 4.1% 5.0% |
| Libraries that disallow f | food/drin drink (| n 74 k 60 WHA n Go out eat a 50 3 CHANGE IN | Food shoul the wh AT THEY D side once t and drink 33.3% | ld be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% | TABLE XI TABLE XI EY FEEL THIR Go hor nt 23.39 TABLE XI ISITS AFTER I | DLICIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG Ne Skip lu 6 1 | ed F y prohi RY IN LIBRAR mch/dinner time 5.0% | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD ANI | library Secretly in th | 4.1% 0.0% eat and dr he library | 4.1% 5.0% |
| Libraries that disallow f | food/drin drink (| n 74 k 60 WHA n Go out eat a 50 3 | Food shoul the wh AT THEY D side once to and drink 33.3% THE FREQ crease | ld be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% QUENCY OF V | N LIBRARY PO in Food s in par TABLE XI EY FEEL THIR Go hor nt Go hor TABLE XI | DILCIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG Ne Skip h 6 1 V LIBRARIES BEC | ed F y prohi RY IN LIBRAR Inch/dinner time 5.0% | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD ANI | Secretly in the secret of the | 4.1% 0.0% eat and dr he library 6.7% | response 4.1% 5.0% ink Others 6.7% |
| Libraries that disallow f | food/drin drink (RPECTED (n | n 74 k 60 WH/ n Go out eat a 60 3 CHANGE IN Greatly in | Food shoul the wh AT THEY D side once t and drink 33.3% N THE FREQ crease | d be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% QUENCY OF V Increase | TABLE XI TABLE XI EY FEEL THIR Go hor nt TABLE XI TABLE XI TABLE XI ISITS AFTER I No change | DILCIES ALLOV hould be allow tts of the librar 51.4% 58.3% II STY OR HUNG Ne Skip h 6 1 V LIBRARIES BEC Decrease | ed F y prohi RY IN LIBRAR Inch/dinner time 5.0% Greatly dec | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD ANI | Secretly Secretly in th D DRINKS Not sure | 4.1% 0.0% eat and dr he library 6.7% Others | response 4.1% 5.0% |
| Libraries that disallow f | food/drin drink (APECTED (n 60 | n 74 k 60 WH/ Go out n eat a 50 3 CHANGE IN Greatly in 3.3% | Food shoul the wh AT THEY D side once t and drink 33.3% N THE FREQ crease | Id be allowed nole library 5.4% 1.7% OO WHEN THI to Go to a restaura 21.7% QUENCY OF V Increase 18.3% | TABLE XI EY FEEL THIR a CONT CONT CONT CONT CONT CONT CONT CONT | DILCIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG Ne Skip h 6 1 ULBRARIES BEC Decrease 1.7% | ed F y prohi RY IN LIBRAR unch/dinner time 5.0% SIN ALLOWIN Greatly dec 0.0% | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD ANI | Secretly in the D DRINKS Not sure 6.7% | 4.1% 0.0% eat and dr he library 6.7% Others 0.0% | response 4.1% 5.0% ink Others 6.7% No response 3.3% |
| Libraries that disallow food/d | food/drin drink (xpected (n 60 60 | n 74 k 60 WHA n Go out n eat a 50 3 CHANGE IN Greatly in 3.3% 5.0% | Food shoul the wh AT THEY D side once to and drink 33.3% | Id be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% QUENCY OF V Increase 18.3% 11.7% | N LIBRARY PO in Food s in par TABLE XI EY FEEL THIR Go hor 23.39 TABLE XI ISITS AFTER I No change 66.7% 65.0% TABLE XV | DLICIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNGI ne Skip lu 6 1 V LIBRARIES BEC Decrease 1.7% 5.0% | ed F y prohi RY IN LIBRAR Inch/dinner time 5.0% SIN ALLOWIN Greatly dea 0.0% 1.7% | bited in the 35.1% 35.0% ES Be patient 23.3% G FOOD AND crease N | Secretly in the secret of the | 4.1% 0.0% eat and dr he library 6.7% Others 0.0% | response 4.1% 5.0% ink Others 6.7% No response 3.3% |
| Libraries that disallow food/c | drink (<u>APECTED</u>) <u>60</u> <u>60</u> <u>XPECTED</u> | n 74 k 60 WHA Go out n Go out eat a 50 3 CHANGE IN 3.3% 5.0% CHANGE I | Food shoul the wh AT THEY D side once the and drink 33.3% ATHE FREQ crease 5 5 5 N THE DUF | Id be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% QUENCY OF V Increase 18.3% 11.7% | N LIBRARY Period Sin Para Second Seco | DLICIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG Ne Skip lu 6 1 V LIBRARIES BEG 1.7% 5.0% | ed F y prohi RY IN LIBRAR Inch/dinner time 5.0% Greatly dec 0.0% 1.7% | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD AND G FOOD AND | Secretly in the secret | 4.1% 0.0% eat and dr he library 6.7% Others 0.0% 0.0% | response 4.1% 5.0% ink Others 6.7% No response 3.3% 3.3% |
| Libraries that disallow food/c Libraries that disallow food/c Ex Libraries that allow drinks Libraries that allow food EX | drink (<u>PECTED</u>) n 60 60 <u>XPECTED</u> n | n 74 k 60 WH/ n Go out eat a 50 3 CHANGE IN Greatly in 3.3% 5.0% CHANGE I Greatly in | Food shoul the where the w | d be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% QUENCY OF V Increase 18.3% 11.7% | N LIBRARY PO in Food s in par TABLE XI EY FEEL THIR Go hor nt Go hor 23.39 TABLE XI TABLE XI TABLE XI 65.0% TABLE XV ISITS AFTER L No change | DILCIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG M 6 1 V LIBRARIES BEG 1.7% 5.0% V IBRARIES BEG Decrease | ed F y prohi RY IN LIBRAR IN ALLOWIN Greatly dec 0.0% 1.7% | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD AND G FOOD AND | Secretly in the secret | 4.1% 0.0% eat and dr he library 6.7% Others 0.0% 0.0% 0.0% | response 4.1% 5.0% ink Others 6.7% No response 3.3% 3.3% No response |
| Libraries that disallow food/c Libraries that disallow food/c Ex Libraries that allow drinks Libraries that allow food E: Libraries that allow drinks | drink (<u>CPECTED</u>) n 60 60 <u>XPECTED</u> n 60 | n 74 k 60 WH/ n Go out eat a 50 3 CHANGE IN Greatly in 3.3% 5.0% CHANGE I Greatly in 6.7% | Food shoul the wh AT THEY D side once the and drink 33.3% ATHE FREC crease b M THE DUR crease b M THE DUR | Id be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% QUENCY OF V Increase 18.3% 11.7% RATION OF VI Increase 33.3% | N LIBRARY PO in Food s in par TABLE XII EY FEEL THIR Go hor nt Go hor 123.39 TABLE XII YISITS AFTER I No change 66.7% 65.0% TABLE XV ISITS AFTER L No change 50.0% | DILCIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG Ne Skip h 6 1 V LIBRARIES BEC 1.7% 5.0% V IBRARIES BEC Decrease 0.0% | ed F y prohi RY IN LIBRAR mnch/dinner time 5.0% SIN ALLOWIN Greatly dea 0.0% 1.7% IN ALLOWING Greatly dea 1.7% | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD AND G FOOD AND | Secretly in the D DRINKS Not sure 6.7% 8.3% DRINKS Not sure 5.0% | 4.1% 0.0% eat and dr he library 6.7% Others 0.0% 0.0% Others 0.0% | response 4.1% 5.0% ink Others 6.7% No response 3.3% No response 3.3% |
| Libraries that disallow food/c Libraries that disallow food/c Ex Libraries that allow drinks Libraries that allow food E: Libraries that allow drinks | drink (<u>PECTED</u>) n 60 60 <u>XPECTED</u> n | n 74 k 60 WH/ n Go out eat a 50 3 CHANGE IN Greatly in 3.3% 5.0% CHANGE I Greatly in | Food shoul the wh AT THEY D side once the and drink 33.3% ATHE FREC crease b M THE DUR crease b M THE DUR | d be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% QUENCY OF V Increase 18.3% 11.7% | N LIBRARY PO in Food s in par TABLE XI EY FEEL THIR Go hor nt Go hor 23.39 TABLE XI TABLE XI TABLE XI 65.0% TABLE XV ISITS AFTER L No change | DILCIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG M 6 1 V LIBRARIES BEG 1.7% 5.0% V IBRARIES BEG Decrease | ed F y prohi RY IN LIBRAR IN ALLOWIN Greatly dec 0.0% 1.7% | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD AND G FOOD AND | Secretly in the secret | 4.1% 0.0% eat and dr he library 6.7% Others 0.0% 0.0% 0.0% | response 4.1% 5.0% ink Others 6.7% No response 3.3% 3.3% No response |
| Libraries that disallow food/c Libraries that disallow food/c Ex Libraries that allow drinks Libraries that allow food Ex Libraries that allow food | drink (<u>APECTED</u>) n 60 60 <u>XPECTED</u> n 60 60 60 | n 74 k 60 WH/ n Go out eat a 60 3 CHANGE IN Greatly in 3.3% 5.0% CHANGE I Greatly in 6.7% 6.7% | Food shoul the where the w | Id be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% QUENCY OF V Increase 18.3% 11.7% RATION OF VI Increase 33.3% 26.7% | N LIBRARY PO in Food s in par TABLE XI EY FEEL THIR Go hor nt Go hor 123.39 TABLE XI No change 66.7% 65.0% TABLE XV SITS AFTER L No change 50.0% 53.3% | DILCIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG ne Skip h 6 1 V JBRARIES BEG 1.7% 5.0% V IBRARIES BEG Decrease 0.0% 3.3% | ed F y prohi RY IN LIBRAR mnch/dinner time 5.0% SIN ALLOWIN Greatly dea 0.0% 1.7% N ALLOWING Greatly dea 1.7% 1.7% | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD ANI crease N S FOOD ANE crease N | Secretly in the secret | 4.1% 0.0% eat and dr he library 6.7% Others 0.0% 0.0% 0.0% 0.0% | response 4.1% 5.0% ink Others 6.7% No response 3.3% No response 3.3% |
| Libraries that disallow food/c Libraries that disallow food/c Ex Libraries that allow drinks Libraries that allow food Ex Libraries that allow food | drink (<u>APECTED</u>) n 60 60 <u>XPECTED</u> n 60 60 60 | n 74 k 60 WH/ Go out eat a 50 3 50 3 50 6 3 3.3% 5.0% CHANGE IN 3.3% 5.0% CHANGE I Greatly in 6.7% 6.7% RS HAVE S | Food shoul the where the w | Id be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% QUENCY OF V Increase 18.3% 11.7% RATION OF VI Increase 33.3% 26.7% | N LIBRARY Period in Food s in part TABLE XI EY FEEL THIR Go hor nt Go hor 23.39 TABLE XI ISITS AFTER I No change 66.7% 65.0% TABLE XI ISITS AFTER L No change 50.0% 53.3% | DILCIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNGH ne Skip h 6 1 V LIBRARIES BEC Decrease 1.7% 5.0% V IBRARIES BEG Decrease 0.0% 3.3% VI Y MATERIALS | ed F y prohi RY IN LIBRAR mnch/dinner time 5.0% SIN ALLOWIN Greatly dea 0.0% 1.7% N ALLOWING Greatly dea 1.7% 1.7% | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD ANI crease N S FOOD ANIE crease N S LIBRARIES | Secretly in the DDRINKS Not sure 6.7% 8.3% DDRINKS Not sure 5.0% 5.0% S IN THE PA | 4.1% 0.0% eat and dr he library 6.7% Others 0.0% 0.0% 0.0% 0.0% | response 4.1% 5.0% ink Others 6.7% No response 3.3% 3.3% No response 3.3% 3.3% |
| Libraries that disallow food/c Libraries that disallow food/c Ex Libraries that allow drinks Libraries that allow food Ex Libraries that allow food | drink (<u>APECTED</u>) n 60 60 <u>XPECTED</u> n 60 60 60 | n 74 k 60 WH/ Go out n Go out eat a 50 3 50 3 50 50 50 50 50 50 50 50 50 67 67 67 67 67 7 67 | Food shoul the where the w | Id be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% QUENCY OF V Increase 18.3% 11.7% RATION OF VI Increase 33.3% 26.7% OD OR DRINK | N LIBRARY Period Sin Para Second Seco | DILCIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG ne Skip h 6 1 V JBRARIES BEG Decrease 1.7% 5.0% V IBRARIES BEG Decrease 0.0% 3.3% V I MATERIALS I have not defiled a | ed F y prohi RY IN LIBRAR mnch/dinner time 5.0% SIN ALLOWIN Greatly dea 0.0% 1.7% N ALLOWING Greatly dea 1.7% 1.7% 0.005 THI I have n materials o | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD ANI crease N G FOOD ANI crease N Crease N | Secretly in the DDRINKS Not sure 6.7% 8.3% DDRINKS Not sure 5.0% 5.0% S IN THE PAR Not | 4.1% 0.0% eat and dr he library 6.7% Others 0.0% 0.0% 0.0% 0.0% | response 4.1% 5.0% ink Others 6.7% No response 3.3% 3.3% No response 3.3% 3.3% No response 3.3% No response 3.3% No response 3.3% |
| Libraries that disallow food/c Libraries that disallow food/c Ex Libraries that allow drinks Libraries that allow food Ex Libraries that allow food WHETT | drink (CPECTED) n 60 60 XPECTED n 60 60 HER USEI | n 74 k 60 WH/ n Go out eat a 50 3 CHANGE IN Greatly in 3.3% 5.0% CHANGE I Greatly in 6.7% 6.7% RS HAVE S n I ha boo | Food shoul the where the w | d be allowed ole library 5.4% 1.7% 00 WHEN THI to Go to a restaura 21.7% 2UENCY OF V Increase 18.3% 11.7% RATION OF VI Increase 33.3% 26.7% 0D OR DRINH a I have ch book | N LIBRARY Perint | DLICIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG ne Skip h 6 1 V LIBRARIES BEG Decrease 1.7% 5.0% V IBRARIES BEG Decrease 0.0% 3.3% V I MATERIALS I have not defiled a book | ed F y prohi RY IN LIBRAR mnch/dinner time 5.0% SIN ALLOWIN Greatly dea 0.0% 1.7% (N ALLOWING Greatly dea 1.7% 1.7% OUTSIDE THI I have n materials o libra | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD ANI crease N G FOOD ANI crease N Crease N | Secretly in the D DRINKS Not sure 6.7% 8.3% D DRINKS Not sure 5.0% 5.0% S IN THE PAU Not sure | 4.1% 0.0% eat and dr he library 6.7% Others 0.0% 0.0% 0.0% 0.0% ST Others | response 4.1% 5.0% ink Others 6.7% No response 3.3% 3.3% No response 3.3% 3.3% No response |
| Libraries that disallow food/c Libraries that disallow food/c Ex Libraries that allow drinks Libraries that allow food Ex Libraries that allow food | drink (<u>CPECTED</u>) n 60 60 <u>XPECTED</u> n 60 60 HER USEI ink | n 74 k 60 WH/ Go out n Go out eat a 50 3 50 3 50 50 50 50 50 50 50 50 50 67 67 67 67 67 7 67 | Food shoul the where the w | Id be allowed ole library 5.4% 1.7% DO WHEN THI to Go to a restaura 21.7% QUENCY OF V Increase 18.3% 11.7% RATION OF VI Increase 33.3% 26.7% OD OR DRINH I a I have ch book | N LIBRARY PO in Food s in par TABLE XI EY FEEL THIR Go hor nt Go hor 123.39 TABLE XI VISITS AFTER I No change 66.7% 65.0% TABLE XV ISITS AFTER L No change 50.0% 53.3% TABLE XV cs on LIBRAR defiled a | DILCIES ALLOV hould be allow ts of the librar 51.4% 58.3% II STY OR HUNG ne Skip h 6 1 V JBRARIES BEG Decrease 1.7% 5.0% V IBRARIES BEG Decrease 0.0% 3.3% V I MATERIALS I have not defiled a | ed F y prohi RY IN LIBRAR mnch/dinner time 5.0% SIN ALLOWIN Greatly dea 0.0% 1.7% N ALLOWING Greatly dea 1.7% 1.7% 0.005 THI I have n materials o | bited in the 35.1% 35.0% IES Be patient 23.3% G FOOD ANI crease N G FOOD ANI crease N G FOOD ANI crease N Crease | Secretly in the DDRINKS Not sure 6.7% 8.3% DDRINKS Not sure 5.0% 5.0% S IN THE PAR Not | 4.1% 0.0% eat and dr he library 6.7% Others 0.0% 0.0% 0.0% 0.0% ST | response 4.1% 5.0% ink Others 6.7% No response 3.3% 3.3% No response 3.3% 3.3% No response 3.3% No response 3.3% No response 3.3% |

 TABLE XVII

 CAUSES OF DAMAGE TO LIBRARY MATERIALS

| | n | Damaged while eating or drinking | Getting wet in the rain | Damaged by food and drinks in the same bag | Damaged by someone | Accidentally knocked down food or drinks that I had places nearby | Accidentally writing with a pen | On purpose | Others | No response |
|---------------------------------------|----|--|-------------------------------|---|--------------------------|---|---------------------------------------|---------------|--------|----------------|
| Libraries that allow food/drink | 10 | 0.0% | 50.0% | 10.0% | 20.0% | 10.0% | 10.0% | 0.0% | 0.0% | 10.0% |
| Libraries that disallow food/drink | 9 | 11.1% | 22.2% | 11.1% | 44.4% | 11.1% | 11.1% | 0.0% | 11.1% | 0.0% |

(iii) Damaging or defiling library materials

With regard to survey items (17) and (18), we investigated damage and defilement of library materials. Table XVI shows the responses to survey item (17) "Whether users have spilled food or drinks on library materials outside the libraries in the past." It revealed that 13.6% (1.4% + 12.2%) of users of libraries that allowed food and/or drinks and 15.0% (0.0% + 15.0%) of users of libraries that disallowed food and drinks answered "I have defiled a book very much" or "I have defiled a book a little." As shown in Table XVII, the most common causes were "Getting wet in the rain" by users of libraries that

allowed food and/or drinks (50.0%) and "[It was] damaged by someone (e.g., children and pets)" by users of libraries that disallowed food and drinks (44.4%). The results also showed that users of libraries that allowed food and/or drinks have never damaged library materials while eating and drinking outside libraries, whereas, 11.1% of users of libraries that disallowed food and drinks answered "Damaged while eating and drinking." Meanwhile, 10.0% of users of libraries that allowed food and/or drinks and 11.1% of users of libraries that disallowed food and drinks answered "[I] accidentally knocked down food or drinks that I had placed nearby."

TABLE XVIII

| SERS' AGE×WHETHER USERS WANT TO ALLOW FOOD AND DRINKS IN LIBRARIES (LIBRARIES THAT ALLOW FOOD/DRINK) | |
|--|--|
| | |

| | Please allow both | Please allow only drinks | Please allow only food | Do not allow either | Others | No response | Total |
|----------------|-------------------|--------------------------|------------------------|---------------------|--------|-------------|--------|
| 10 to 19 years | 30.0% | 40.0% | 0.0% | 30.0% | 0.0% | 0.0% | 100.0% |
| 20 to 29 years | 22.2% | 77.8% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% |
| 30 to 39 years | 18.2% | 54.5% | 0.0% | 27.3% | 0.0% | 0.0% | 100.0% |
| 40 to 49 years | 28.6% | 71.4% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% |
| 50 to 59 years | 28.6% | 57.1% | 0.0% | 14.3% | 0.0% | 0.0% | 100.0% |
| 60 to 69 years | 30.8% | 23.1% | 0.0% | 46.2% | 0.0% | 0.0% | 100.0% |
| 70+ years | 5.9% | 35.3% | 0.0% | 52.9% | 0.0% | 5.9% | 100.0% |
| Total | 21.6% | 47.3% | 0.0% | 29.7% | 0.0% | 1.4% | 100.0% |

| τ | USERS' AGE×WHETHER USERS WANT TO ALLOW FOOD AND DRINKS IN LIBRARIES (LIBRARIES THAT DISALLOW FOOD/DRINK) | | | | | | | | | |
|----------------|--|--------------------------|------------------------|---------------------|--------|-------------|--------|--|--|--|
| | Please allow both | Please allow only drinks | Please allow only food | Do not allow either | Others | No response | Total | | | |
| 10 to 19 years | 27.3% | 54.5% | 0.0% | 18.2% | 0.0% | 0.0% | 100.0% | | | |
| 20 to 29 years | 11.1% | 44.4% | 0.0% | 44.4% | 0.0% | 0.0% | 100.0% | | | |
| 30 to 39 years | 18.2% | 45.5% | 0.0% | 18.2% | 18.2% | 0.0% | 100.0% | | | |
| 40 to 49 years | 11.1% | 22.2% | 0.0% | 44.4% | 22.2% | 0.0% | 100.0% | | | |
| 50 to 59 years | 33.3% | 33.3% | 0.0% | 33.3% | 0.0% | 0.0% | 100.0% | | | |
| 60 to 69 years | 16.7% | 16.7% | 0.0% | 58.3% | 8.3% | 0.0% | 100.0% | | | |
| 70+ years | 20.0% | 0.0% | 0.0% | 40.0% | 40.0% | 0.0% | 100.0% | | | |
| Total | 18.3% | 33.3% | 0.0% | 36.7% | 11.7% | 0.0% | 100.0% | | | |

TABLE XX

THE TIME IT TAKES TO GET FROM HOME TO THE LIBRARY×WHETHER USERS WANT TO ALLOW FOOD AND DRINKS IN LIBRARIES (LIBRARIES THAT ALLOW FOOD/DRINK)

| | Please allow both | Please allow only drinks | Please allow only food | Do not allow either | Others | No response | Total |
|----------------------|-------------------|-----------------------------|------------------------|---------------------|--------|-------------|--------|
| Less than 10 minutes | 16.7% | 55.6% | 0.0% | 27.8% | 0.0% | 0.0% | 100.0% |
| 10~29 minutes | 23.3% | 46.5% | 0.0% | 30.2% | 0.0% | 0.0% | 100.0% |
| 30~59 minutes | 20.0% | 30.0% | 0.0% | 40.0% | 0.0% | 10.0% | 100.0% |
| One hour or more | 33.3% | 66.7% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% |
| Total | 21.6% | 47.3% | 0.0% | 29.7% | 0.0% | 1.4% | 100.0% |

TABLE XXI THE TIME IT TAKES TO GET FROM HOME TO THE LIBRARY×WHETHER USERS WANT TO ALLOW FOOD AND DRINKS IN LIBRARIES (LIBRARIES THAT DISALLOW FOOD/DRINK)

| | | | , | | | | |
|----------------------|-------------------|--------------------------|------------------------|---------------------|--------|-------------|--------|
| | Please allow both | Please allow only drinks | Please allow only food | Do not allow either | Others | No response | Total |
| Less than 10 minutes | 7.7% | 38.5% | 0.0% | 23.1% | 30.8% | 0.0% | 100.0% |
| $10\sim 29$ minutes | 12.5% | 34.4% | 0.0% | 43.8% | 9.4% | 0.0% | 100.0% |
| 30~59 minutes | 36.4% | 18.2% | 0.0% | 45.5% | 0.0% | 0.0% | 100.0% |
| One hour or more | 50.0% | 50.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% |
| Total | 18.3% | 33.3% | 0.0% | 36.7% | 11.7% | 0.0% | 100.0% |

B. Results of Cross Tabulation

We wanted to consider the characteristics of users who wanted to eat and drink in libraries based on our preliminary results. To do this, we conducted cross tabulation of survey items (11) "Whether users want to allow food and drinks in libraries," (2) "Users' age," (4) "The time it takes to get from home to the library," (5) "Frequency of library visits," and (6) "Duration of library visits." Tables XVIII and XIX show the cross tabulation results with regard to survey item (11) "Whether users want to allow food and drinks in libraries" and (2) "Users' age" in libraries that allow and disallow food and/or drinks, respectively. It revealed that 70% to 100% of users between 10 years and 59 years of libraries that allowed food and/or drinks answered "Please allow both" or "Please allow only drinks", as shown in Table XVIII, (e.g., 70.0% (30.0% + 40.0%) of 10 year to 19 year olds users answered "Please allow both" or "Please allow only drinks"). Tables XX and XXI show the cross tabulation results with regard to survey items (11) "Whether users want to allow food and drinks in libraries" and (4) "The time it takes to get from home to the library" in

libraries that allow and disallow food and/or drinks, respectively. It revealed that all users who answered "One hour or more" from home to the library wanted to drink in libraries. Tables XXII and XXIII show the cross tabulation results with regard to survey item (11), "Whether users want to allow food and drinks in libraries" and (5) "Frequency of library visits," in the case of libraries that allowed food and/or drinks, most users who answered "Please allow both" or "Please allow only drinks" were those who used libraries "two or three days a week" (87.0%). In the case of libraries that disallowed food and drinks, most users who answered "Please allow both" or "Please allow only drinks" were those who used libraries "two or three days a month" (69.3%). Tables XXIV and XXV show the cross tabulation results with regard to survey item (11) "Whether users want to allow food and drinks in libraries" and (6) "Duration of library visits" in libraries that allow and disallow food and/or drinks, respectively. With regard to users of libraries that allowed food and/or drinks, it was seen that the answers "Please allow both" or "Please allow only drinks" gradually increase as the duration of visits increases.

| | Please allow both | Please allow only drinks | Please allow only food | Do not allow either | Others | No response | Total |
|---------------------------|-------------------|-----------------------------|------------------------|---------------------|--------|-------------|--------|
| Almost every day | 36.4% | 45.5% | 0.0% | 18.2% | 0.0% | 0.0% | 100.0% |
| Two or three days a week | 34.8% | 52.2% | 0.0% | 13.0% | 0.0% | 0.0% | 100.0% |
| One day a week | 15.4% | 46.2% | 0.0% | 38.5% | 0.0% | 0.0% | 100.0% |
| Two or three days a month | 5.6% | 44.4% | 0.0% | 44.4% | 0.0% | 5.6% | 100.0% |
| One day a month | 20.0% | 60.0% | 0.0% | 20.0% | 0.0% | 0.0% | 100.0% |
| Several times a year | 0.0% | 33.3% | 0.0% | 66.7% | 0.0% | 0.0% | 100.0% |
| First time | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | 100.0% |
| Total | 21.6% | 47.3% | 0.0% | 29.7% | 0.0% | 1.4% | 100.0% |

TABLE XXII FREQUENCY OF LIBRARY VISITS×WHETHER USERS WANT TO ALLOW FOOD AND DRINKS IN LIBRARIES (LIBRARIES THAT ALLOW FOOD/DRINK)

TABLE XXIII

| FREQUENCY OF LIBRA | FREQUENCY OF LIBRARY VISITS×WHETHER USERS WANT TO ALLOW FOOD AND DRINKS IN LIBRARIES (LIBRARIES THAT DISALLOW FOOD/DRINK) | | | | | | | | |
|---------------------------|---|-----------------------------|------------------------|---------------------|--------|-------------|--------|--|--|
| | Please allow both | Please allow only drinks | Please allow only food | Do not allow either | Others | No response | Total | | |
| Almost every day | 0.0% | 20.0% | 0.0% | 80.0% | 0.0% | 0.0% | 100.0% | | |
| Two or three days a week | 20.0% | 40.0% | 0.0% | 20.0% | 20.0% | 0.0% | 100.0% | | |
| One day a week | 11.1% | 33.3% | 0.0% | 33.3% | 22.2% | 0.0% | 100.0% | | |
| Two or three days a month | 30.8% | 38.5% | 0.0% | 23.1% | 7.7% | 0.0% | 100.0% | | |
| One day a month | 0.0% | 40.0% | 0.0% | 60.0% | 0.0% | 0.0% | 100.0% | | |
| Several times a year | 27.3% | 27.3% | 0.0% | 45.5% | 0.0% | 0.0% | 100.0% | | |
| First time | 0.0% | 0.0% | 0.0% | 50.0% | 50.0% | 0.0% | 100.0% | | |
| Total | 18.3% | 33.3% | 0.0% | 36.7% | 11.7% | 0.0% | 100.0% | | |

 TABLE XXIV

 Duration of Library Visits×Whether Users Want to Allow Food and Drinks in Libraries (Libraries that Allow Food/Drink)

| | Please allow both | Please allow only drinks | Please allow only food | Do not allow either | Others | No response | Total |
|----------------------|-------------------|-----------------------------|------------------------|---------------------|--------|-------------|--------|
| Less than 30 minutes | 18.2% | 36.4% | 0.0% | 45.5% | 0.0% | 0.0% | 100.0% |
| 30 ~ 59 minutes | 9.1% | 40.9% | 0.0% | 45.5% | 0.0% | 4.5% | 100.0% |
| One ~ Two hours | 13.3% | 60.0% | 0.0% | 26.7% | 0.0% | 0.0% | 100.0% |
| Two hours or more | 38.5% | 50.0% | 0.0% | 11.5% | 0.0% | 0.0% | 100.0% |
| Total | 21.6% | 47.3% | 0.0% | 29.7% | 0.0% | 1.4% | 100.0% |

TABLE XXV

DURATION OF LIBRARY VISITS×WHETHER USERS WANT TO ALLOW FOOD AND DRINKS IN LIBRARIES (LIBRARIES THAT DISALLOW FOOD/DRINK)

| | Please allow both | Please allow only drinks | Please allow only food | Do not allow either | Others | No response | Total |
|----------------------|-------------------|-----------------------------|------------------------|---------------------|--------|-------------|--------|
| Less than 30 minutes | 0.0% | 25.0% | 0.0% | 50.0% | 25.0% | 0.0% | 100.0% |
| 30 ~ 59 minutes | 25.9% | 29.6% | 0.0% | 25.9% | 18.5% | 0.0% | 100.0% |
| One ~ Two hours | 0.0% | 52.9% | 0.0% | 47.1% | 0.0% | 0.0% | 100.0% |
| Two hours or more | 33.3% | 16.7% | 0.0% | 41.7% | 8.3% | 0.0% | 100.0% |
| Total | 18.3% | 33.3% | 0.0% | 36.7% | 11.7% | 0.0% | 100.0% |

V.CONCLUSIONS

In this study, we used a questionnaire survey to clarify the opinions of library users on allowing food and drinks in libraries. First, we revealed that a large number of users did not know that food and/or drink were allowed in their libraries. Libraries may not have clearly notified users that food and/or drinks were allowed perhaps because librarians may have been concerned that users' eating and drinking may damage library materials. On the other hand, the number of users who answered "Drinks/Food should be allowed in parts of the library" was larger than the number of users who answered "Drinks/Food should be allowed in the whole library." Moreover, the most popular reason for "Do not allow either" was "Because the books get dirty." Library users may also have been concerned that allowing food and drinks in libraries could damage library materials. However, the most common explanations as to how users damaged library materials were "Getting wet by rain" and "[It was] damaged by someone (e.g., children and pets)." The incidence of damage by food and drinks were relatively few. We therefore infer that librarians and users do not have to worry about food and drink stains on library materials.

It was revealed that users who wanted to eat and drink in libraries were younger people. In particular, they wanted to drink in libraries. The study also revealed that users who spent more time to get to the libraries from their homes preferred to eat and drink in libraries. It was also shown that users who were staying for longer durations in libraries that allowed food and drinks tended to want to eat and drink.

Additionally, it was shown that users of libraries that allowed food and drinks came to libraries more frequently and stayed for longer durations.

Finally, the study results also revealed that the ratio of users who came to libraries to study was not higher in libraries that allowed food and drinks as compared to those that did not. We therefore infer that librarians do not have to worry that their libraries will be filled with students who come to study (as is common during term-end examinations) only because food and drinks are allowed.

On the basis of these revelations, we conclude that food and drinks in libraries are effective amenities to help users use libraries without imposing a burden on librarians.

In this research, the questionnaire survey was conducted only on library users. Next, we would like to conduct a similar survey on people who do not usually come to libraries.

REFERENCES

- R. Oldenburg, *The great good place: cafés, coffee shops, bookstores, bars, hair salons and other hangouts at the heart of a community.* New York: Marlowe, 1999, 384p.
- [2] M. Kawamoto and K. Tsuji, "Factual investigation of allowing food and drinks in Japanese libraries," graduation thesis in University of Tsukuba, 2016 (in Japanese).
- [3] M. Davis and J. Boyer, "The endless picnic: changing food and drink policies in academic libraries," *ERIC.*, No. ED399964, 1996. https://eric.ed.gov/?id=ED399964
- [4] G. Singh, "Evolving space: An examination of coffee shops in academic libraries," Master's paper, School of Information and Library Science, University of North Carolina., 2002, 30p.
- [5] "A coffee shop in the library," Current Awareness Portal, 2005. http://current.ndl.go.jp/node/2775 (accessed May 20, 2015) (in Japanese).
- [6] Editorial Board, "Totalling reports and analysis of questionnaire on food and drink manners in libraries," *Pharmaceutical Library Bulletin.*, vol. 53, no. 2, 2008, pp. 148–165. (in Japanese).
- [7] Y. Terasawa, "Survey results on the library environment," *Hospital Libraries.*, vol. 33, no. 2, 2014, pp. 107–112. (in Japanese).
- [8] M. Ueoka, "User study at Keio University Library," *The Journal of Information Science and Technology Association.*, vol. 58, no. 6, 2008, pp. 278–284. (in Japanese).