

# Reference Books in Japanese Public Libraries that Provide Good Reference Services

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**Abstract**—This study investigates reference books held in (1) Japanese libraries with a high number of reference transactions and (2) libraries that consider reference services as important. The results show that the *Encyclopedia of Modern Japanese Literature* and the *Encyclopedia of Japanese People* were held in these types of libraries or municipalities. The *Encyclopedia of News in the Meiji Era* and the *Techno Atlas of Japan* were popular at relatively small municipality libraries, such as those in cities, towns, and villages, whereas the *Series of Pandect of Modern Japanese Literary* was popular in large municipality libraries, such as those in prefectures and special wards.

**Keywords**—reference books; Japanese public libraries; reference transactions; National Diet Library

## I. INTRODUCTION

Reference books are important for public libraries to maintain reference services, but their importance varies depending on the libraries' aims and sizes. For instance, the reference books that are important for prefectural libraries may not be so for village libraries. While there are many guidebooks on reference books, few indicate which books are important for which libraries. The purpose of this paper is to suggest some recommendation lists for reference books in accordance with the above-mentioned library types. Such lists will be useful for reference librarians who try to improve their services. We assume the following two criteria: (1) public libraries' aims and sizes are mostly determined by the types of municipalities that they belong to (i.e., prefecture, special ward, city, town, or village), and (2) lists of reference books being held in libraries that provide good reference services are useful for other libraries. Furthermore, regarding (2), we assume that libraries with a high number of reference transactions per service-targeted customers, such as residents from the library's neighborhood (henceforth *Type A libraries*) and libraries that consider reference services as important (henceforth *Type B libraries*) provide good reference services. This paper presents lists of the reference books held by Type A or B libraries in each type of municipality. Sample reference books were selected from *Japanese Reference Books: How to Select and Use* [1]. The number of reference transactions per library was

extracted from *Statistics on Libraries in Japan*, 2014, and the population of the municipalities to which the libraries belong was extracted from the Japanese *National Census*, 2010 [2][3]. The attitudes toward reference services were determined based on the survey conducted by National Diet Library (NDL) in 2012 [4].

## II. RELATED STUDIES

Miura et al. (1983) [5] clarified which reference books were held in three different Japanese university libraries. Sugie (2007) [6] investigated five libraries in the Kanto area to determine which health science reference books they held. Her focus was limited to the field of health science. Mabe (2011) [7] investigated which reference books that appeared in the Collaborative Reference Database maintained by NDL were held in Japanese prefectural libraries. As mentioned above, few studies have been conducted on reference books held in Japanese public libraries in general.

## III. SAMPLE BOOKS AND LIBRARIES

### A. Sample reference books

We randomly selected sample reference books listed in *Japanese Reference Books: How to Select and Use* (see Fig.1). We chose this book as a source because Masao Nagasawa, its first author, is a representative researcher of reference services and the book is very popular among Japanese librarians. The book consists of eight chapters; we randomly chose ten reference books from each chapter, ranging from chapter 1 to 8. With ten reference books chosen from eight chapters, the result was 77 sample reference books as only seven reference books are shown in Chapter 1.

### B. Sample libraries and municipalities

We investigated Japanese prefectural libraries, special ward libraries, city libraries, town libraries, and village libraries. To judge whether these held specific reference books, we used Calil API and OPAC for each library. Calil

API can perform cross-library searches among Japanese libraries, which enabled us to identify libraries that efficiently hold sample reference books (as of February 18, 2016, Calil API can search 6,719 libraries). It can retrieve books from most, albeit not all, Japanese libraries. Therefore, we chose sample libraries that Calil API can access (see Fig.1). Table I shows the numbers of our sample public libraries and municipalities (such as prefectures, special wards, cities, towns, or villages) to which they belong. Calil can access all prefectural, special ward, and village libraries (i.e., complete enumeration). We randomly selected 206 and 75 sample libraries from the city and town libraries that Calil can access.

TABLE I. NUMBERS OF OUR SAMPLE LIBRARIES

| Types of Libraries     | Number of Municipalities | Number of Libraries |
|------------------------|--------------------------|---------------------|
| Prefectural libraries  | 47                       | 59                  |
| Special ward libraries | 23                       | 246                 |
| City libraries         | 50                       | 206                 |
| Town libraries         | 50                       | 75                  |
| Village libraries      | 41                       | 48                  |
| Total                  | 211                      | 634                 |

#### IV. CHECKING WHETHER OR NOT LIBRARIES HOLD BOOKS

We used the following three methods to examine which reference books the selected Japanese public libraries held: (1) by ISBN via Calil API; (2) by ISBN via each library's OPAC; and (3) by book title via OPAC. With these three methods, we expect to minimize the error regarding libraries not holding certain books despite the fact that they do in fact have them<sup>1</sup>. We conducted these retrievals from April 17, 2014, to November 27, 2014.

##### A. Retrieving books via Calil API by ISBN

Because Calil API only allows searching books by ISBN, we first searched for the sample reference books according to their ISBN (see Fig.1). Some reference book titles are assigned multiple ISBNs. For instance, *A New Version of Comprehensive National Poems* (Shinpen Kokka Taikan) consists of ten volumes and each volume has its own ISBN. In such cases, we used three ISBNs as follows: First, we defined  $n$  as the smallest integer that is larger than  $N/2$ , where  $N$  is the total number of volumes of a reference book. For instance, if a reference book consists of nine volumes,  $n$  is defined as 5 (which is larger than  $9/2 = 4.5$ ). We used three ISBNs of volume Nos.  $n-1$ ,  $n$ , and  $n+1$ . As for annual books that continue to be published, we used the three

<sup>1</sup> As previously mentioned, the number of sample reference books and public libraries was 77 and 634, respectively. We conducted 48,818 ( $=77*634$ ) searches by Calil and obtained 42,103 negative results (i.e., Calil reported that these book were not held in these libraries). We then conducted 42,103 searches by each library's OPAC and obtained 4,463 positive results, i.e., 4,463 reference books were found to be held in 4,463 libraries (including duplicates), even though Calil reported that they were not held in these libraries. The ratio is 10.6% ( $=4,463/42,103*100$ ).

ISBNs of the three latest volumes. We regarded the reference book as held in the library if one of the three volumes was confirmed to be held. The reason why we did not use the ISBNs of all volumes was simply to reduce our investigation costs.

##### B. Retrieving books via OPAC by ISBN

Unfortunately, Calil API sometimes fails to find books. Therefore, we used each library's OPAC when Calil API reported that the books were not held in the library (see Fig.1). We also retrieved the sample reference books via OPAC by ISBN.

##### C. Retrieving books via OPAC by title

Some OPACs do not allow ISBN searches, while others sometimes fail to find books through an ISBN search. Therefore, we also searched for books by their titles (see Fig.1). Since a title search is more complicated than an ISBN search, we will explain in detail below how this process was conducted. First, we used MeCab, a Japanese morphological analyzer, and decomposed the titles into words and POS-tags. We then selected the following nine combinations of nouns that appear in titles and used them as search keywords: (1) the first four nouns; (2) the first three nouns and the last noun; (3) the first two nouns and the last two nouns; (4) the first noun and the last three nouns; (5) the last four nouns; (6) the first three nouns; (7) the first two nouns and the last noun; (8) the first noun and the last two nouns; and (9) the last three nouns. If the title was too short to extract four nouns, we tried out all noun combinations as search keywords. In addition, we used the titles of the reference books directly as search keywords without using MeCab.

#### V. LIBRARIES WITH A HIGH NUMBER OF REFERENCE TRANSACTIONS

We assume that libraries that receive many reference questions (per library user or per resident from the library's neighborhood) are providing good reference services (because users would not ask questions to librarians if they receive poor service). The lists of reference books in such libraries would be beneficial for librarians who try to improve reference services. From this viewpoint, we first obtained each library's (a) number of reference transactions and (b) number of people who have registered as library users from the annual *Statistics on Libraries in Japan 2014* (see Fig.1). Subsequently, we obtained information on (c) the local population of each library's location and (d) the local population of each library's location from the Japanese *National Census 2010*. Next, we identified libraries with high (a) / (b), (a) / (c) and (a) / (d). More concretely, we identified libraries with (a) / (b), (a) / (c) and (a) / (d) in the top 20% of all sample libraries. These libraries are referred to as *Type A libraries*, as mentioned in the Introduction Section. Finally, we identified the reference books that were held in all these three kinds of top-ranked libraries.

Fig.1. Methodology

- Section III-A  
The data was collected by hand.
- Section III-B  
The data was automatically collected.
- Section IV-A  
The retrieval was automatically conducted.
- Section IV-B  
The retrieval was conducted by hand.
- Section IV-C  
The retrieval was conducted by hand.
- Section V  
The data was collected by hand.

## VI. LIBRARIES THAT CONSIDER REFERENCE SERVICES AS IMPORTANT

The National Diet Library in Japan conducted a survey to clarify the current situation of Japanese reference services in 2012. A questionnaire consisting of 63 questions was sent to all 5,258 institutions that had ISILs (International Standard Identifier for Libraries and related organizations) in Japan. The response rate was 74.4% and each library's answer is downloadable from the NDL website.

We assume that libraries that consider reference services as important provide good reference services, and the lists of their reference books would therefore be beneficial for other libraries. From this viewpoint, we focus on the above-mentioned survey question No. 8 and assume that the libraries that answered this question by stating “we actively keep account of reference services” consider reference services as important and actually provide good services. Among the 2,462 public libraries that completed the NDL survey, 36.3% answered in this way. Among our 634 sample libraries, 430 libraries answered this question and 220 of them answered that they actively kept account of reference services. Henceforth, these libraries are referred to as *Type B libraries*, as mentioned in the Introduction Section. We identified the reference books that were held in all these Type B libraries.

In fact, the number of reference transactions varies depending on each library's definition of reference services or reference transactions. Those that reported a large number of transactions may actually provide poor reference services. Moreover, there is no solid evidence that libraries that showed a positive attitude toward reference services in the NDL survey actually provide good service. We leave confirmation of these facts for future research.

## VII. RESULTS

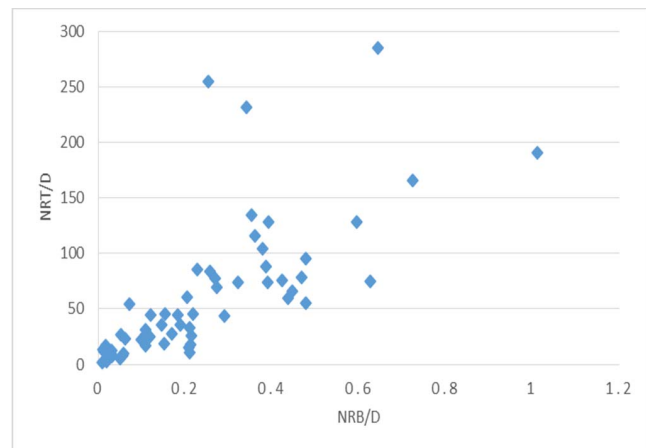
Before showing the lists of reference books held in Type A and B libraries, TABLE I presents the correlation

coefficients between the number of holdings of reference books (NRB) and the number of reference transactions (NRT) in the sample libraries. In TABLE I, NRB/P and NRB/D represent NRB divided by population and population density of the municipality that the library belongs to. NRT/P and NRT/D are defined as the same. TABLE I shows that there is a certain correlation between NRB and NRT. It is particularly worth noting that the correlation coefficient between NRB/D and NRT/D reaches 0.72 concerning prefectural libraries. Fig. 1 shows the scatter plot of these libraries. The results confirmed that the more reference books libraries hold, greater is the number of reference transactions, and thus, in that sense, reference books are important for reference services.

TABLE II. CORRELATION COEFFICIENTS BETWEEN THE NUMBER OF HOLDINGS OF REFERENCE BOOKS AND THE NUMBER OF REFERENCE TRANSACTIONS

| Types of Libraries     | NRB and NRT | NRB/P and NRT/P | NRB/D and NRT/D |
|------------------------|-------------|-----------------|-----------------|
| Prefectural libraries  | 0.25        | 0.64            | 0.72            |
| Special ward libraries | 0.36        | 0.72            | 0.46            |
| City libraries         | 0.51        | 0.43            | 0.47            |
| Town libraries         | 0.30        | 0.09            | 0.32            |
| Village libraries      | 0.45        | 0.29            | 0.05            |

Fig. 1. Plot of NRB/D and NRT/D concerning prefectural libraries



### A. Reference books held in libraries with a high number of reference transactions

TABLES III, IV, V, VI, and VII show reference books with a high ratio of holdings among prefectural, special ward, cities, town, and village libraries of Type A, respectively. For instance, TABLE III shows that the *Encyclopedia of Modern Japanese Literature* is held in all sample prefectures (i.e., the ratio of holdings of the municipality is 100.0%) and in all sample prefectural libraries. Furthermore, this book is held in all other Type A libraries (as shown in TABLES IV, V, VI, and VII).

Libraries that do not own this book would be recommended to purchase it.

These TABLEs have also shown the usage numbers from the reference records of the Collaborative Reference Database, which is maintained by NDL. TABLE III shows that the *Encyclopedia of Japanese People* had the highest usage number in the reference records (i.e., 63). Considering that (a) the *Encyclopedia of Japanese People* is held in Type A prefectural libraries and (b) the usage number in the reference records is high, libraries or prefectures that do not hold this reference book would be recommended to purchase it. Likewise, city libraries or cities that do not hold the *Encyclopedia of Modern Japanese Literature* should consider purchasing it. In general, the *Encyclopedia of News in the Meiji Era* and the *Techno Atlas of Japan* seem to be popular among relatively small municipalities, such as cities, towns, and villages, whereas the *Series of Pandect of Modern Japanese Literary* seems to be popular among large municipalities, such as prefectures and special wards.

#### B. Reference books held in libraries that consider reference services as important

TABLEs VIII, IX, X, XI, and XII show reference books with a high ratio of holdings among prefectural, special ward, cities, town, and village libraries of Type B, respectively. For instance, TABLE VIII shows that the *Encyclopedia of Modern Japanese Literature* is again being held in all sample prefectures (i.e., the ratio of holdings of the municipality is 100.0%) and in all sample prefectural libraries. The results also present the usage number in the reference records in the Collaborative Reference Database. TABLE VIII shows that the *Encyclopedia of Japanese People* has the highest usage number in the reference records (i.e., 63) and is held in most prefectures. In that sense, we would recommend libraries or prefectures that do not hold this reference book to purchase it. Similar to the case of Type A libraries, the *Encyclopedia of News in the Meiji Era* and the *Techno Atlas of Japan* seem to be popular among relatively small municipalities, such as cities, towns, and villages, whereas the *Series of Pandect of Modern Japanese Literary* again seems to be popular among large municipalities, such as prefectures and special wards.

### VIII. DISCUSSION

Some reference books were found to be popular among either smaller or larger libraries, which leads us to infer that popular reference questions differ depending on library size. For instance, the *Series of Pandect of Modern Japanese Literary* is popular among larger libraries, because larger libraries tend to receive more reference questions about Japanese literature than smaller libraries. However, smaller libraries may receive more reference questions about geography than larger libraries and, therefore, the *Techno Atlas of Japan* is popular among smaller libraries. Of course, this is a chicken-and-egg situation, as the presence of certain reference books might have brought about certain reference questions. However, it is an interesting direction for investigating the contents of reference questions in each

library and determining which reference books should be held in which types (sizes) of libraries.

### IX. CONCLUSIONS

We investigated reference books held in (1) Japanese libraries with a high number of reference transactions and (2) libraries that consider reference services as important. Consequently, this study provides recommendation lists for reference books in accordance with library types. We will subsequently aim to incorporate information about each reference book's price and determine the most cost-effective books for libraries.

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TABLE III. REFERENCE BOOKS HELD IN PREFECTURAL LIBRARIES OF TYPE A

| Titles   | Ratio of Holdings of the Municipality | Number of Being Used in the Reference Records | Ratio of Holdings of the Library |
|--|---------------------------------------|---|----------------------------------|
| <i>Encyclopedia of Modern Japanese Literature</i>  | 100.0                                 | 29  | 100.0                            |
| <i>Series of Pandect of Modern Japanese Literary</i>                                     | 100.0                                 | 18  | 96.6                             |
| <i>Series of Full Information</i>  | 100.0                                 | 17  | 98.3                             |
| <i>Encyclopedia for place names of Great Japan</i>                                       | 100.0                                 | 15  | 96.6                             |
| <i>Dictionary of Foreigner in the Modern Era</i>   | 100.0                                 | 12  | 100.0                            |
| <i>Catalog of Translation Book</i>   | 100.0                                 | 11  | 94.9                             |
| <i>Encyclopedia of Westerners</i>  | 100.0                                 | 8   | 98.3                             |
| <i>Encyclopedia of Cultural Anthropology</i>   | 100.0                                 | 5   | 96.6                             |
| <i>Chronological Table of Japan in the Modern Period</i>                                 | 100.0                                 | 2   | 100.0                            |
| <i>Union catalog of serials in Japanese language</i>                                     | 100.0                                 | 2   | 96.6                             |
| <i>Annual of China</i>   | 100.0                                 | 2   | 93.2                             |
| <i>Japanese Reference Book</i>   | 100.0                                 | 0   | 100.0                            |
| <i>Catalog of National Diet Library</i>  | 100.0                                 | 0   | 96.6                             |
| <i>Chronological Table of World History</i>  | 100.0                                 | 0   | 94.9                             |
| <i>Japanese Subject-title Catalog</i>  | 100.0                                 | 0   | 91.5                             |
| <i>Encyclopedia of Japanese People</i>   | 97.9                                  | 63  | 94.9                             |
| <i>Chijin Shokan Dictionary of Astronomy</i>   | 97.9                                  | 6   | 84.7                             |
| <i>Bibliography of Japanese People Who are Relevant to Politics in The Modern Period</i> | 97.9                                  | 0   | 91.5                             |

TABLE IV. REFERENCE BOOKS HELD IN SPECIAL WARD LIBRARIES OF TYPE A

| Titles  | Ratio of Holdings of the Municipality | Number of Being Used in the Reference Records | Ratio of Holdings of the Library |
|---|---------------------------------------|---|----------------------------------|
| Encyclopedia of Japanese People                   | 100.0                                 | 63  | 55.7                             |
| Encyclopedia of Modern Japanese Literature        | 100.0                                 | 29  | 62.2                             |
| Series of Pandect of Modern Japanese Literary     | 100.0                                 | 18  | 61.4                             |
| Series of Full Information                        | 100.0                                 | 17  | 50.8                             |
| Encyclopedia of News in the Meiji Era             | 100.0                                 | 17  | 34.1                             |
| Yearbook of Literature                            | 100.0                                 | 13  | 52.0                             |
| Dictionary of Foreigner in the Modern Era         | 100.0                                 | 12  | 57.7                             |
| Catalog of Translation Book                       | 100.0                                 | 11  | 41.1                             |
| Encyclopedia of Westerners                        | 100.0                                 | 8   | 46.7                             |
| Encyclopedia of Cultural Anthropology             | 100.0                                 | 5   | 46.3                             |
| Dictionary of Direct Words in Japan               | 100.0                                 | 4   | 54.9                             |
| Encyclopedia of The World's Masterpiece           | 100.0                                 | 4   | 50.4                             |
| Chronological Table of Japan in the Modern Period | 100.0                                 | 2   | 71.5                             |
| Encyclopedia of Musician                          | 100.0                                 | 1   | 49.2                             |
| Illustrated Fishes in Color Revised Edition       | 100.0                                 | 1   | 35.4                             |
| Japanese Reference Book                           | 100.0                                 | 0   | 61.4                             |
| A New Version of Comprehensive National Poems     | 95.7                                  | 28  | 45.9                             |
| Techno Atlas of Japan                             | 95.7                                  | 3   | 48.0                             |

TABLE V. REFERENCE BOOKS HELD IN CITY LIBRARIES OF TYPE A

| Titles  | Ratio of Holdings of the Municipality | Number of Being Used in the Reference Records | Ratio of Holdings of the Library |
|---|---------------------------------------|---|----------------------------------|
| Encyclopedia of News in the Meiji Era             | 90.0                                  | 17  | 39.8                             |
| Encyclopedia of Modern Japanese Literature        | 86.0                                  | 29  | 33.0                             |
| Chronological Table of Japan in the Modern Period | 84.0                                  | 2   | 33.5                             |
| Techno Atlas of Japan                             | 80.0                                  | 3   | 39.3                             |
| Dictionary of Synonym                             | 78.0                                  | 0   | 28.2                             |
| Dictionary of Direct Words in Japan               | 76.0                                  | 4   | 27.7                             |
| Chronological Table of World History              | 76.0                                  | 0   | 30.6                             |
| A New Version of Comprehensive National Poems     | 74.0                                  | 28  | 21.8                             |
| Series of Full Information                        | 72.0                                  | 17  | 24.8                             |
| Encyclopedia of Musician                          | 72.0                                  | 1   | 25.7                             |
| Yearbook of Literature                            | 70.0                                  | 13  | 23.8                             |
| Dictionary of Foreigner in the Modern Era         | 64.0                                  | 12  | 25.7                             |
| Illustrated Dictionary of Fossil                  | 64.0                                  | 0   | 23.3                             |
| Dictionary of Difficult Reading of a Kanji        | 64.0                                  | 0   | 22.3                             |
| Illustrated Fishes in Color Revised Edition       | 60.0                                  | 1   | 19.9                             |

TABLE VI. REFERENCE BOOKS HELD IN TOWN LIBRARIES OF TYPE A

| Titles   | Ratio of Holdings of the Municipality | Number of Being Used in the Reference Records | Ratio of Holdings of the Library |
|--|---------------------------------------|---|----------------------------------|
| Encyclopedia of News in the Meiji Era  | 74.0                                  | 17  | 54.7                             |
| Chronological Table of Japan in the Modern Period                            | 70.0                                  | 2   | 49.3                             |
| Techno Atlas of Japan  | 64.0                                  | 3   | 48.0                             |
| Encyclopedia of Modern Japanese Literature                                   | 54.0                                  | 29  | 37.3                             |
| Dictionary of Direct Words in Japan  | 52.0                                  | 4   | 36.0                             |
| Series of Full Information   | 48.0                                  | 17  | 32.0                             |
| Dictionary of Foreigner in the Modern Era                                    | 46.0                                  | 12  | 33.3                             |
| Yearbook of Literature   | 44.0                                  | 13  | 29.3                             |
| Illustrated Dictionary of Fossil   | 44.0                                  | 0   | 33.3                             |
| Encyclopedia of Japanese People  | 42.0                                  | 63  | 28.0                             |
| World History Atlas  | 42.0                                  | 2   | 30.7                             |
| Encyclopedia of Musician   | 42.0                                  | 1   | 33.3                             |
| Chronological Table of World History   | 42.0                                  | 0   | 30.7                             |
| The Genealogies of the Houses of biographical dictionary in History of Japan | 38.0                                  | 10  | 26.7                             |
| Series of Pandect of Modern Japanese Literary                                | 26.0                                  | 18  | 18.7                             |
| Japanese Subject-title Catalog   | 26.0                                  | 0   | 17.3                             |
| Encyclopedia of Southeast Asia   | 22.0                                  | 1   | 14.7                             |
| Chronology of World History  | 20.0                                  | 2   | 13.3                             |
| Handbook of Government and Municipal Offices                                 | 20.0                                  | 0   | 13.3                             |
| Dictionary of Buddhist Japanese People                                       | 16.0                                  | 14  | 10.7                             |

TABLE VII. REFERENCE BOOKS HELD IN VILLAGE LIBRARIES OF TYPE A

| Titles  | Ratio of Holdings of the Municipality | Number of Being Used in the Reference Records | Ratio of Holdings of the Library |
|---|---------------------------------------|---|----------------------------------|
| Encyclopedia of News in the Meiji Era             | 53.7                                  | 17  | 45.8                             |
| Techno Atlas of Japan                             | 46.3                                  | 3   | 41.7                             |
| Times Wrold Map: Live Atlas                       | 43.9                                  | 2   | 37.5                             |
| Chronological Table of Japan in the Modern Period | 29.3                                  | 2   | 25.0                             |
| Illustrated Dictionary of Fossil                  | 22.0                                  | 0   | 18.8                             |
| Encyclopedia of Current Law                       | 19.5                                  | 2   | 16.7                             |
| Chronological Table of World History              | 19.5                                  | 0   | 16.7                             |
| Yearbook of Literature                            | 17.1                                  | 13  | 14.6                             |
| Chronology of World History                       | 17.1                                  | 2   | 14.6                             |
| Encyclopedia of Musician                          | 17.1                                  | 1   | 14.6                             |
| Encyclopedia of Modern Japanese Literature        | 14.6                                  | 29  | 12.5                             |
| Encyclopedia of Japanese People                   | 12.2                                  | 63  | 10.4                             |
| World History Atlas                               | 12.2                                  | 2   | 10.4                             |
| French-Japanese Dictionary                        | 9.8                                   | 3   | 8.3                              |
| Dictionary of Foreigner in the Modern Era         | 7.3                                   | 12  | 6.3                              |
| Dictionary of Secret Language                     | 7.3                                   | 3   | 6.3                              |
| Series of Full Information                        | 4.9                                   | 17  | 4.2                              |
| Encyclopedia of Westerners                        | 4.9                                   | 8   | 4.2                              |
| Japanese Subject-title Catalog                    | 4.9                                   | 0   | 4.2                              |
| Dictionary of Japanese Synonyms                   | 4.9                                   | 0   | 4.2                              |
| Series of Pandect of Modern Japanese Literary     | 2.4                                   | 18  | 2.1                              |
| Annual Catalog and Explanation of Reference Book  | 2.4                                   | 1   | 2.1                              |
| Annual of Bibliography                            | 2.4                                   | 0   | 2.1                              |

TABLE VIII. REFERENCE BOOKS HELD IN PREFECTURAL LIBRARIES OF TYPE B

| Titles  | Ratio of Holdings of the Library which Responds (3) to Question (8) in NDL Survey | Ratio of Holdings of the Municipality | Number of Being Used in the Reference Records | Ratio of Holdings of the Library |
|---|---|---------------------------------------|---|----------------------------------|
| Encyclopedia of Modern Japanese Literature              | 100.0   | 100.0                                 | 29  | 100.0                            |
| A New Version of Comprehensive National Poems           | 100.0   | 100.0                                 | 28  | 96.6                             |
| Series of Pandect of Modern Japanese Literary           | 100.0   | 100.0                                 | 18  | 96.6                             |
| Series of Full Information                              | 100.0   | 100.0                                 | 17  | 98.3                             |
| Dictionary of Foreigner in the Modern Era               | 100.0   | 100.0                                 | 12  | 100.0                            |
| Encyclopedia of The World's Masterpiece                 | 100.0   | 100.0                                 | 4   | 98.3                             |
| Dictionary of Direct Words in Japan                     | 100.0   | 100.0                                 | 4   | 94.9                             |
| Chronological Table of Japan in the Modern Period       | 100.0   | 100.0                                 | 2   | 100.0                            |
| Annual Catalog and Explanation of Reference Book        | 100.0   | 100.0                                 | 1   | 96.6                             |
| Encyclopedia of Musician                                | 100.0   | 100.0                                 | 1   | 94.9                             |
| Encyclopedia of History                                 | 100.0   | 100.0                                 | 1   | 94.9                             |
| Japanese Reference Book                                 | 100.0   | 100.0                                 | 0   | 100.0                            |
| Chronological Table of World History                    | 100.0   | 100.0                                 | 0   | 94.9                             |
| Bibliography of Bibliographies in Japan                 | 100.0   | 97.9                                  | 0   | 94.9                             |
| Reference Dictionary of Foreigner                       | 91.7  | 100.0                                 | 20  | 93.2                             |
| Encyclopedia of News in the Meiji Era                   | 91.7  | 100.0                                 | 17  | 94.9                             |
| Catalog of Oya Soichi Library                           | 91.7  | 100.0                                 | 13  | 94.9                             |
| Catalog of Translation Book                             | 91.7  | 100.0                                 | 11  | 94.9                             |
| Encyclopedia of Westerners                              | 91.7  | 100.0                                 | 8   | 98.3                             |
| Encyclopedia of Cultural Anthropology                   | 91.7  | 100.0                                 | 5   | 96.6                             |
| Union catalog of serials in Japanese language           | 91.7  | 100.0                                 | 2   | 96.6                             |
| Catalog of National Diet Library                        | 91.7  | 100.0                                 | 0   | 96.6                             |
| Encyclopedia of Japanese People                         | 91.7  | 97.9                                  | 63  | 94.9                             |
| Yearbook of Literature                                  | 91.7  | 97.9                                  | 13  | 93.2                             |
| Dictionary of Synonym                                   | 91.7  | 97.9                                  | 0   | 94.9                             |
| Annual of Bibliography                                  | 91.7  | 97.9                                  | 0   | 93.2                             |
| French-Japanese Dictionary                              | 91.7  | 95.7                                  | 3   | 93.2                             |
| Handbook of History of Japan                            | 91.7  | 95.7                                  | 3   | 88.1                             |
| Times Wrold Map: Live Atlas                             | 91.7  | 93.6                                  | 2   | 89.8                             |
| Encyclopedia of Japanese Scientist in The Modern Period | 91.7  | 93.6                                  | 1   | 89.8                             |
| Illustrated Fishes in Color Revised Edition             | 91.7  | 91.5                                  | 1   | 79.7                             |

TABLE IX. REFERENCE BOOKS HELD IN SPECIAL WARD LIBRARIES OF TYPE B

| Titles   | Ratio of Holdings of the Library which Responds ⑧ to Question 8(3) in NDL Survey | Ratio of Holdings of the Municipality | Number of Being Used in the Reference Records | Ratio of Holdings of the Library |
|--|--|---------------------------------------|---|----------------------------------|
| Chronological Table of Japan in the Modern Period          | 76.5   | 100.0                                 | 2   | 71.5                             |
| Encyclopedia of Modern Japanese Literature                 | 73.0   | 100.0                                 | 29  | 62.2                             |
| Dictionary of Foreigner in the Modern Era                  | 66.1   | 100.0                                 | 12  | 57.7                             |
| Series of Pandect of Modern Japanese Literary              | 63.5   | 100.0                                 | 18  | 61.4                             |
| Encyclopedia of Japanese People                            | 62.6   | 100.0                                 | 63  | 55.7                             |
| Japanese Reference Book                                    | 62.6   | 100.0                                 | 0   | 61.4                             |
| Series of Full Information                                 | 57.4   | 100.0                                 | 17  | 50.8                             |
| Yearbook of Literature                                     | 57.4   | 100.0                                 | 13  | 52.0                             |
| Dictionary of Direct Words in Japan                        | 57.4   | 100.0                                 | 4   | 54.9                             |
| Encyclopedia of The World's Masterpiece                    | 54.8   | 100.0                                 | 4   | 50.4                             |
| Encyclopedia of Cultural Anthropology                      | 52.2   | 100.0                                 | 5   | 46.3                             |
| Encyclopedia of Westerners                                 | 51.3   | 100.0                                 | 8   | 46.7                             |
| Encyclopedia of Musician                                   | 50.4   | 100.0                                 | 1   | 49.2                             |
| A New Version of Comprehensive National Poems              | 47.8   | 95.7                                  | 28  | 45.9                             |
| Techno Atlas of Japan                                      | 47.8   | 95.7                                  | 3   | 48.0                             |
| Catalog of Translation Book                                | 45.2   | 100.0                                 | 11  | 41.1                             |
| French-Japanese Dictionary                                 | 45.2   | 95.7                                  | 3   | 40.2                             |
| Dictionary of Difficult Reading of a Kanji                 | 40.0   | 100.0                                 | 0   | 37.0                             |
| Rovere French - Japanese Dictionary Published by Shogakkan | 38.3   | 100.0                                 | 3   | 35.0                             |
| Chronological Table of World History                       | 37.4   | 91.3                                  | 0   | 35.0                             |
| Chronology of World History                                | 37.4   | 87.0                                  | 2   | 32.1                             |

TABLE X. REFERENCE BOOKS HELD IN CITY LIBRARIES OF TYPE B

| Titles  | Ratio of Holdings of the Library which Responds ⑧ to Question 8(3) in NDL Survey | Ratio of Holdings of the Municipality | Number of Being Used in the Reference Records | Ratio of Holdings of the Library |
|---|--|---------------------------------------|---|----------------------------------|
| Encyclopedia of News in the Meiji Era             | 64.9   | 90.0                                  | 17  | 39.8                             |
| Techno Atlas of Japan                             | 50.9   | 80.0                                  | 3   | 39.3                             |
| Chronological Table of World History              | 49.1   | 76.0                                  | 0   | 30.6                             |
| Encyclopedia of Modern Japanese Literature        | 47.4   | 86.0                                  | 29  | 33.0                             |
| Dictionary of Direct Words in Japan               | 45.6   | 76.0                                  | 4   | 27.7                             |
| Dictionary of Foreigner in the Modern Era         | 45.6   | 64.0                                  | 12  | 25.7                             |
| Chronological Table of Japan in the Modern Period | 43.9   | 84.0                                  | 2   | 33.5                             |
| Series of Full Information                        | 43.9   | 72.0                                  | 17  | 24.8                             |
| Dictionary of Synonym                             | 42.1   | 78.0                                  | 0   | 28.2                             |
| Japanese Reference Book                           | 42.1   | 72.0                                  | 0   | 22.3                             |
| Illustrated Dictionary of Fossil                  | 42.1   | 64.0                                  | 0   | 23.3                             |
| Encyclopedia of Musician                          | 40.4   | 72.0                                  | 1   | 25.7                             |
| Encyclopedia of Cultural Anthropology             | 40.4   | 70.0                                  | 5   | 24.3                             |
| Encyclopedia of Japanese People                   | 36.8   | 78.0                                  | 63  | 28.6                             |
| Yearbook of Literature                            | 36.8   | 70.0                                  | 13  | 23.8                             |
| A New Version of Comprehensive National Poems     | 35.1   | 74.0                                  | 28  | 21.8                             |
| Times World Map: Live Atlas                       | 33.3   | 66.0                                  | 2   | 24.8                             |
| Dictionary of Difficult Reading of a Kanji        | 33.3   | 64.0                                  | 0   | 22.3                             |
| World History Atlas                               | 33.3   | 60.0                                  | 2   | 21.4                             |
| Encyclopedia for place names of Great Japan       | 31.6   | 58.0                                  | 15  | 16.5                             |
| Encyclopedia of Current Law                       | 31.6   | 58.0                                  | 2   | 20.4                             |

TABLE XI. REFERENCE BOOKS HELD IN TOWN LIBRARIES OF TYPE B

| Titles   | Ratio of Holdings of the Library which Responds ⑧ to Question 8(3) in NDL Survey | Ratio of Holdings of the Municipality | Number of Being Used in the Reference Records | Ratio of Holdings of the Library |
|--|--|---------------------------------------|---|----------------------------------|
| Encyclopedia of News in the Meiji Era  | 75.0   | 74.0                                  | 17  | 54.7                             |
| Chronological Table of Japan in the Modern Period                            | 71.4   | 70.0                                  | 2   | 49.3                             |
| Techno Atlas of Japan  | 64.3   | 64.0                                  | 3   | 48.0                             |
| Dictionary of Foreigner in the Modern Era                                    | 53.6   | 46.0                                  | 12  | 33.3                             |
| Encyclopedia of Modern Japanese Literature                                   | 50.0   | 54.0                                  | 29  | 37.3                             |
| Dictionary of Direct Words in Japan  | 50.0   | 52.0                                  | 4   | 36.0                             |
| Series of Full Information   | 50.0   | 48.0                                  | 17  | 32.0                             |
| Encyclopedia of Musician   | 50.0   | 42.0                                  | 1   | 33.3                             |
| Chronological Table of World History   | 46.4   | 42.0                                  | 0   | 30.7                             |
| Yearbook of Literature   | 42.9   | 44.0                                  | 13  | 29.3                             |
| Illustrated Dictionary of Fossil   | 42.9   | 44.0                                  | 0   | 33.3                             |
| Encyclopedia of Current Law  | 42.9   | 40.0                                  | 2   | 26.7                             |
| World History Atlas  | 39.3   | 42.0                                  | 2   | 30.7                             |
| Series of Pandect of Modern Japanese Literary                                | 39.3   | 26.0                                  | 18  | 18.7                             |
| Encyclopedia of Japanese People  | 32.1   | 42.0                                  | 63  | 28.0                             |
| Times World Map: Live Atlas  | 32.1   | 38.0                                  | 2   | 25.3                             |
| Illustrated Fishes in Color Revised Edition                                  | 32.1   | 30.0                                  | 1   | 20.0                             |
| A New Version of Comprehensive National Poems                                | 32.1   | 28.0                                  | 28  | 18.7                             |
| The Genealogies of the Houses of biographical dictionary in History of Japan | 28.6   | 38.0                                  | 10  | 26.7                             |
| Handbook of History of Japan   | 28.6   | 32.0                                  | 3   | 21.3                             |
| Dictionary of Difficult Reading of a Kanji                                   | 28.6   | 30.0                                  | 0   | 20.0                             |
| Catalog of Translation Book  | 28.6   | 22.0                                  | 11  | 14.7                             |

TABLE XII. REFERENCE BOOKS HELD IN VILLAGE LIBRARIES OF TYPE B

| Titles   | Ratio of Holdings of the Library which Responds ⑧ to Question 8(3) in NDL Survey | Ratio of Holdings of the Municipality | Number of Being Used in the Reference Records | Ratio of Holdings of the Library |
|--|--|---------------------------------------|---|----------------------------------|
| Encyclopedia of News in the Meiji Era                          | 62.5   | 53.7                                  | 17  | 45.8                             |
| Techno Atlas of Japan  | 62.5   | 46.3                                  | 3   | 41.7                             |
| Illustrated Dictionary of Fossil                               | 50.0   | 22.0                                  | 0   | 18.8                             |
| Times World Map: Live Atlas                                    | 37.5   | 43.9                                  | 2   | 37.5                             |
| Chronological Table of Japan in the Modern Period              | 37.5   | 29.3                                  | 2   | 25.0                             |
| Chronological Table of World History                           | 37.5   | 19.5                                  | 0   | 16.7                             |
| Illustrated Fishes in Color Revised Edition                    | 37.5   | 14.6                                  | 1   | 12.5                             |
| Dictionary of Direct Words in Japan                            | 25.0   | 24.4                                  | 4   | 20.8                             |
| Encyclopedia of Current Law                                    | 25.0   | 19.5                                  | 2   | 16.7                             |
| Yearbook of Literature   | 25.0   | 17.1                                  | 13  | 14.6                             |
| Dictionary of Synonym  | 25.0   | 17.1                                  | 0   | 14.6                             |
| Encyclopedia of Japanese People                                | 25.0   | 12.2                                  | 63  | 10.4                             |
| World History Atlas  | 25.0   | 12.2                                  | 2   | 10.4                             |
| Handbook of History of Japan                                   | 25.0   | 7.3                                   | 3   | 6.3                              |
| Encyclopedia of Southeast Asia                                 | 25.0   | 4.9                                   | 1   | 4.2                              |
| Chronology of World History                                    | 12.5   | 17.1                                  | 2   | 14.6                             |
| Encyclopedia of Musician                                       | 12.5   | 17.1                                  | 1   | 14.6                             |
| A New Version of Comprehensive National Poems                  | 12.5   | 9.8                                   | 28  | 8.3                              |
| French-Japanese Dictionary                                     | 12.5   | 9.8                                   | 3   | 8.3                              |
| Chujin Shokan Dictionary of Astronomy                          | 12.5   | 7.3                                   | 6   | 6.3                              |
| Rovere French - Japanese Dictionary Published by Shogakkan     | 12.5   | 7.3                                   | 3   | 6.3                              |
| Handbook of Government and Municipal Offices                   | 12.5   | 7.3                                   | 0   | 6.3                              |
| Japanese Reference Book  | 12.5   | 7.3                                   | 0   | 6.3                              |
| Encyclopedia of Westerners                                     | 12.5   | 4.9                                   | 8   | 4.2                              |
| Encyclopedia of Niigata  | 12.5   | 4.9                                   | 5   | 4.2                              |
| Handbook of Japanese Newspaper and Journal                     | 12.5   | 4.9                                   | 1   | 4.2                              |
| Japanese Subject-title Catalog                                 | 12.5   | 4.9                                   | 0   | 4.2                              |
| The Compilation Pandect of The State of a Country in Showa Era | 12.5   | 2.4                                   | 17  | 2.1                              |
| Japan Newspaper Annual   | 12.5   | 2.4                                   | 7   | 2.1                              |
| Annual of China  | 12.5   | 2.4                                   | 2   | 2.1                              |
| Encyclopedia of History  | 12.5   | 2.4                                   | 1   | 2.1                              |