

Methodology

An FDLP Forecast Study Presentation

Paul Giannini U.S. Government Printing Office December 3, 2013

U.S. GOVERNMENT PRINTING OFFICE www.gpo.gov | www.fdsys.gov | http://www.fdlp.gov/ | http://bensguide.gpo.gov | http://bookstore.gpo.gov



Survey Instruments Timeline

- Creation of Survey Instruments: October 2011 January 2012
- Release of Library Questionnaire Survey Instrument: January 31, 2012
- Release of State Questionnaire Survey Instrument: February 12, 2012
- Deadline for all Survey Submissions: November 30, 2012
- Analysis of Survey Responses: December 2012 September 2013

U.S. GOVERNMENT PRINTING OFFICE www.gpo.gov | www.fdsys.gov | http://www.tdlp.gov/ | http://bensguide.gpo.gov | http://bookstore.gpo.gov



Retrieving & Data Preparation

- Data retrieval and cleanup performed by GPO's Program, Strategy, and Technology (PST), Business Intelligence and Analysis Group
- Definition of an Eligible Questionnaire
 - Submitted by the November 30, 2012 deadline
 - Completed in its entirety
 - Certified, as requested in forecast questions 35 (Library) and 21 (State)
 - One eligible questionnaire accepted from each Library or State

U.S. GOVERNMENT PRINTING OFFICE www.gpo.gov | www.fdrys.gov | http://www.fdlp.gov/ | http://bensguide.gpo.gov | http://bookstore.gpo.gov



Retrieving & Data Preparation

- Downloaded survey data from Survey Monkey into Excel spreadsheets
- Identified eligible questionnaires
- Imported the initial Excel spreadsheets into SAS
- Performed further "data cleanup" by examining consistency and out-of-range responses (for example, identifying FDLP number typos)
- Added demographic grouping variables from the FDLP Directory to each eligible Library Questionnaire
- Used SAS to extract the responses for each Library/State open-ended question for Subject Matter Expert (SME) Teams to analyze

U.S. GOVERNMENT PRINTING OFFICE www.gpo.gov | www.fdsys.gov | http://www.fdlp.gov/ | http://bensguide.gpo.gov | http://bookstore.gpo.gov



Quantitative Analysis

- "Quantitative" questions are those with specific responses (e.g., yes/no; extremely, moderately or not beneficial, etc.)
- High-level summaries of all "quantitative" questions
- Demographic cross-tabulations generated by SAS
- Graphical Outputs: US Maps, Pie and Bar Charts generated by SAS
- Excel Workbooks and Word RTF files generated by SAS

U.S. GOVERNMENT PRINTING OFFICE www.gpo.gov | www.fdrys.gov | http://www.fdlp.gov/ | http://bensguide.gpo.gov | http://bookstore.gpo.gov



Qualitative Analysis

- "Qualitative" questions contain a "text" box for the responder to enter their "open-ended" responses
- Multiple SME Teams
- Created codes for themes
- Coded each response with one or more codes, as appropriate
- Reviewed theme tabulation and identified overarching categories for theme compression
- Quality Control of coding
- Quantitative data analysis techniques applied to qualitative coded themes for both compressed and un-compressed (root themes) data

U.S. GOVERNMENT PRINTING OFFICE www.gpo.gov | www.fdsys.gov | http://www.fdlp.gov/ | http://bensguide.gpo.gov | http://bookstore.gpo.gov



Qualitative Analysis: Definitions

- Responder the "library" or "state" that filled out the survey questionnaire
- Response the information selected (quantitative question) or provided (qualitative question that contains a text box)
- Open-ended response responder provides answer to a qualitative question, in their own words, in the text box provided
- Theme(s)/Root Theme (un-compressed) recurring topic(s) or pattern(s) discerned from the open-ended responses that are associated to a specific qualitative question
- Coding the applying of themes to the open-ended responses
- Compressed Theme collapsing of root theme codes into categories to better assist in identifying overarching themes.
- Observation each response made by the responder for a quantitative question or each root theme coded from a responder's open-ended response for a qualitative question

U.S. GOVERNMENT PRINTING OFFICE www.gpo.gov | www.fdsys.gov | http://www.fdlp.gov/ | http://bensguide.gpo.gov | http://bookstore.gpo.gov



Reporting Results

- Library and State Data Reports
- Working Papers
- Expanding the Forecast Framework: Engage & Discuss, Focused Discussions:
 - Determining the Future of Microfiche Distribution (12/04/2013)
 - Depository Library collaboration: Structure for the Digital Age (12/05/2013)
 - ▶ Part 1: Regional and Selective Depository Libraries
 - ▶ Part 2: New Opportunities for Depository Libraries
 - Building an Authoritative National Bibliography of U.S. Government Publications (12/10/2013)
 - In the Public Eye: Increasing Federal Depository Library (12/10/2013)
 - Resolving Anticipated Barriers to Digital Access (12/11/2013)
 - Marketing (12/11/2013)
- FDLP Forecast Study Report: Summary and Recommendations

u.s. aovernment printina office | www.gpo.gov | www.fdsys.gov | http://www.fdlp.gov/ | http://bensguide.gpo.gov | http://bookstore.gpo.gov



Overall Survey Confidence

- Error reduction actions
- High response rate (67% for the Library Forecast and 84% for the State Forecast)
- Representation from all states and territories
- Margin of Error (MOE) statistic expressing the amount of random sampling error in a survey's results – reported at the 95% Confidence level
 - Library Forecast Questionnaire Survey: within ± 2%
 - State Forecast Questionnaire Survey: within ± 5.5%
- Solid foundation for any inferences made from responses

U.S. GOVERNMENT PRINTING OFFICE www.gpo.gov | www.fdrys.gov | http://www.fdlp.gov/ | http://bensguide.gpo.gov | http://bookstore.gpo.gov