Sharing and Collecting Latin American Publications in the Big Ten:

Developing a Methodology for Consortial Data Analysis

Lisa Gardinier, Manuel Ostos, Austin Smith, and Hilary Thompson
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The conference will explore how member research libraries can move from legacy cooperative collection development activities to a more holistic environment that leverages robust discovery, digitization, delivery, and shared service environments to advance and shape the collective collection.”
Why focus on international publications?

• Less funding or support
• Greater need to demonstrate their impact and use
• Barriers to international ILL
Study Parameters

Geography = Central America OR South America OR Caribbean Islands

AND

Language = Spanish OR Portuguese

19 Countries + Puerto Rico
Methodology: ILL Data Analysis

1. ILLiad custom searches or Access queries
2. Python script (Google Language Detection + WorldCat Search API)
3. Access queries

Analysis of ILL borrowing requests by date and country of publication, call number, format, requestor status, lender, and fill rate
Methodology: Collections Analysis

Python script using WorldCat Search API  
(tailored according to ILL data)

\[ dt="bks" \text{ and } yr:2006-2016 \text{ and } li:UMC \text{ and } cp:ag \text{ and } (lc=B1* \text{ or } lc=B2* \text{ or } lc=B3* \text{ or } lc=B4* \text{ or } \ldots ) \]

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Collection size and duplication percentage by country of publication and call number
Methodology: Measuring Volume v. Uniqueness

\[ H(n) = \text{the number of items held by } n \text{ libraries} \]
\[ T(n) = \text{total collection size.} \]

\[ \sum_{i=1}^{c} \frac{H(n)}{n \cdot T(n)} \]
Limitations

1. Quality of MARC cataloging
2. Language detection algorithm
3. Lack of circulation and other consortial borrowing data
4. Duplication analysis by OCLC number (not title)
Results

2,732,082 ILL requests
29,804 ILL requests for Latin American materials

88% books or chapters
82% loans/returnables (↑ 53% overall)
91% requested by faculty or graduate students (↑ 83%)
90% filled (↑ 84% overall)
9% locally owned (↓ 30% UBorrow)
Results: Borrowing Library, Country of Publication
Results: Lending Library

- BTAA Libraries: 60.7%
- Other U.S. Libraries: 36.7%
- Latin American Libraries: 0.4%
- Other International Libraries: 2.2%

Latin American libraries filled only 99 requests for BTAA libraries

( > 3 requests per library per year)
Results: Classification

BTAA Latin American Holdings, 2006-2016

BTAA Latin American ILL Requests, 2013-2017
Results: Duplication

Greatest Duplication:
• Classification: F (History)
• Country/Division: Cuba/West

Lowest Duplication:
• Classification: N (Fine Arts)
• Country Division:
  Bolivia/East and Chile/East

Over 60% duplication:
• Cuba-West-H
• Cuba-West-P
• Peru-West-F
• Chile-West-J
Applying the Results
Questions?

Lisa Gardinier  
lisa-gardinier@uiowa.edu

Manuel Ostos  
manuel.ostos@psu.edu

Austin Smith  
afsmith@umd.edu

Hilary Thompson  
hthomps1@umd.edu