Collaborative Web Archiving: Lessons from Kansas

Sherry Williams, chair

Megan Macken

Cliff Hight, substitute chair

Patty Nicholas

#omamac #s302
Introduction

- First web pages
  - Thanks, Tim Berners-Lee!

- Responsibility to preserve & make accessible

- Our plan
  - Overview
  - With limited resources
  - With more resources
Introduction

• For additional info on KAIC, see:

Current Issue: Volume 8, Issue 2 (2017) Web Archiving Special Issue

Articles

- [PDF](#) Introduction to the Special Issue on Web Archiving
  Nicholas Taylor

- [PDF](#) Developing Web Archiving Metadata Best Practices to Meet User Needs
  Jackie M. Dooley, Karen Stoll Farrell, Tammi Kim, and Jessica Venlet

Case Studies

- [PDF](#) Case Study: Washington and Lee’s First Year Using Archive-It
  Aiston B. Coburn

- [PDF](#) Using RSS to Improve Web Harvest Results for News Web Sites
  Gina M. Jones and Michael Neubert

- [PDF](#) Collaboration Made It Happen! The Kansas Archive-It Consortium
  Cliff Hight, Ashley Todd-Diaz, Rebecca Schulte, and Michael Church

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Starting the Collaborative

First K-State home page in Wayback Machine, 12/12/1998

Cliff Hight
University Archivist | Morse Department of Special Collections
In the Beginning...

• Found common challenge

• Discussions with others in Kansas
  – 2011–2013: chats with state archivist & others
  – 2013: request of state archives director

Photo: close up of http://www.flickr.com/photos/empeiria/8657432375/
In the Beginning...

- Naming the consortium
  - Kansas Web Archiving Collaborative (KWAC)
  - Kansas Archive-It Consortium (KAIC)

Photo: http://www.flickr.com/photos/9422878@N08/
Photo: http://www.flickr.com/photos/marcyleigh/
• Current member institutions

– Emporia State University
– Fort Hays State University
– Kansas Historical Society
– Kansas State University
– University of Kansas
– Washburn University

Map: http://www.netstate.com/states/maps/images/ks_outline.gif

@cliffhight1 #omamac #s302
Organizational Structure

• Administrative
  – Flexible approach
  – Project coordinator
  – Archive-It

• Maintaining relationships
  – Build trust
  – Consistent communication
  – Use technology wisely
Financial Collaboration

- Creating messages for resource allocators
- Strength in numbers
- Independent flexibility

K-State students purchasing season tickets for football, 1958

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Lessons for a Web Collaborative

- Recognize variations among partners
- Use technology
  - A/V conferencing
  - Shared online space
  - Shared seed list
  - Partner/shared metadata guidelines

Computers in the K-State library for database searching, 1988
Benefits and Difficulties

• Benefits
  – Others who can help
  – Stronger relationships within group
  – Improved collection development
  – And others

• Difficulties
  – Requires time to coordinate
  – Differences in resources
  – Keeping up with other duties
  – And others
Summary

1. Communicate, communicate, communicate
2. Plan, plan, plan
3. Formal documentation
4. Unique partner opportunities
5. Clarify number of users
6. Collaborative collecting is possible

New IBM 650 installed at K-State, 1958
Collaborative Collecting

• Based on concept of “documentation strategy”
  – First from Helen Samuels & others
  – Summary:
    • Many repositories
    • Similar topic
    • Defined collecting scope
    • Formalized institutional involvement
    • Appraisal criteria
    • Acquisition

• Connections to web archiving

Student reads newspaper at K-State, 1969

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Kansas Archive-It Consortium (KAIC) at Fort Hays State University

Patty Nicholas
Library Specialist,
Special Collections and Periodicals
Forsyth Library
Fort Hays State University
Hays, Kansas

- Founded in 1902
- Only 4 year institution of higher learning in the western part of the state
- Spring 2017 enrollment
  - 4257 – Campus
  - 6652 – Virtual College
  - 1744 – International partner institutions
FHSU’s first entry on the Wayback Machine

November 4, 1996
Consortium Beginnings

• I was the University Archivist at the time in late 2013 when the meetings and conference calls with other consortium members began

• Visited with the man who was our library director at that time about the consortium, and he liked the idea

• Quotes were received by consortium members in May 2014

• After we received the quotes and data budgets, I got the okay to proceed with the membership to Archive-It from our library director
1st Challenge

• I had to deal with concerns from some of my colleagues
  • Thought I should have gone to the University Web Site committee for input
  • Not sure if our director had the authority to offer university content to an external entity
  • Whether the university or the library should pay the annual costs
  • Are there other pages within the university’s site that should be crawled
How we proceeded with joining the consortium

• University Web Site Committee
  – I gave them information regarding Archive-It and the consortium
  • The web content manager said she was not sure it really even needed to be approved by the committee, so we went ahead with the process

• Our IT person went to the University’s Computing Center
  – Our university has to go through an office there for computer, tablets and software purchases
  – It was decided this would be a library purchase, not a university purchase, on an annual basis
2014-2015

• First MOU for the consortium was available to sign in August 2014
  – FHSU’s portion
    • Up to 3 million URLs archived
    • Not to exceed 0.125 terabyte(s) in data
• Became a member on November 12, 2014
  – Decided on 4 sites to crawl
    • 1 daily
    • 3 weekly
• By the end of 2015, we had added two more sites
Big Problem

- After our new dean of libraries came in, she made some changes. In November 2015, a colleague, Sherry Severson, was moved into the University Archives and she took over the Archive-It project for Forsyth Library
  - I was asked to return to work in the Periodicals area and also remain in Special Collections
- By the end of January 2016, we realized that we were going over our data budget
  - Remember the daily crawl I mentioned on the last slide?
    - Tiger Media Network – the online news site for the university
    - When I made the decision to crawl daily, I did not realize how much data it would take up
- Sherry and I talked with a representative from Archive-It to get some ideas on how often to crawl big sites
  - It is currently being crawled monthly
- We were invoiced for the data that was over our data budget
## Numbers

Current Subscription Details: July 2016-June 2017 as of April 5, 2017

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<tr>
<th></th>
<th>Data Budget</th>
<th>New Data</th>
<th>New Documents</th>
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<tbody>
<tr>
<td><strong>Current</strong></td>
<td>189 GB</td>
<td>53 GB</td>
<td>2,067,383</td>
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<table>
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<th>2015</th>
<th>2016</th>
<th>All Time</th>
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<tr>
<td><strong>Total Data</strong></td>
<td>80.4 GB</td>
<td><strong>269 GB</strong></td>
<td>402.4 GB</td>
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<tr>
<td><strong>Total Documents</strong></td>
<td>2,413,965</td>
<td>8,045,892</td>
<td>12,527,240</td>
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</table>
Collections

• We currently have 17 active collections on a scheduled crawl
  – 4 monthly
  – 3 quarterly
  – 6 semi-annual
  – 4 annual

• Two other active collections were 1 time crawls

• 20th active collection is currently not scheduled, but we are keeping our eye on it
  – It is a new publication put out by the Alumni Association and we don’t know how often it will be published
Collections

- Our collections include:
  - 5 colleges
  - 2 top administrative offices
  - FHSU Athletics
    - They use a commercial web service for their web site
  - Tiger Media Network
  - University Relations
  - Forsyth Library
  - Plymouth Schoolhouse (Omeka site)
Issues

• Hard to determine how often we should crawl various sites because of unknown future data numbers
  – Current Data budget – 189 GB
  – Sherry decided she wanted to be more conservative in how often to crawl various sites
• We are the furthest away from the other members of the consortium
  – Getting approval to attend non-teleconference meetings can be denied due to limited travel budget
• With a limited budget, how do we determine which sites are to be crawled? The following is what I went by:
  – Crucial information that is contained in the site
    • The university catalog of courses is no longer printed at FHSU
  – News of the university on a daily or weekly basis
    • Tiger Media Network
    • University Relations News
  – Potential and current student information
    • The colleges within the university
  – Popular
    • Alumni Association
    • Athletics
Advantages of being a part of KAIC

• Working together with various institutions from across the state to achieve a common goal
• Sharing of staff expertise and best practices
• The joint purchasing agreement helps to reduce the costs of archiving our web pages
• Advocacy from other institutions can help with getting your own institution on board
Archiving Websites at the Kansas Historical Society

Megan Macken, Digital Archivist
Basic Vocabulary

- Seeds
- Crawling
- Scoping
- QA
- Crawler Trap
- Robots.txt
- Wayback Machine

Collaboration?

## KAIC Comparison

<table>
<thead>
<tr>
<th>Institution</th>
<th>FTE</th>
<th>TB</th>
<th>Seeds</th>
<th>Local</th>
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</thead>
<tbody>
<tr>
<td>Fort Hays State University</td>
<td>0.05</td>
<td>0.125</td>
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<td>100%</td>
</tr>
<tr>
<td>Emporia State University</td>
<td>0.05</td>
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</tr>
<tr>
<td>Washburn University</td>
<td>0.01</td>
<td>0.25</td>
<td>21</td>
<td>100%</td>
</tr>
<tr>
<td>Kansas State University</td>
<td>0.07</td>
<td>0.5</td>
<td>33</td>
<td>27%</td>
</tr>
<tr>
<td>University of Kansas</td>
<td>0.2</td>
<td>0.5</td>
<td>618*</td>
<td>38%</td>
</tr>
<tr>
<td><strong>Kansas Historical Society</strong></td>
<td><strong>0.15-0.8</strong></td>
<td><strong>0.75</strong></td>
<td><strong>395</strong></td>
<td><strong>0.001%</strong></td>
</tr>
</tbody>
</table>

*481 of the 618 seeds are one-time, single-page crawls*
# KSHS Staffing

<table>
<thead>
<tr>
<th>Title</th>
<th>Tasks</th>
<th>Web Collection</th>
<th>Status</th>
<th>Hrs/Mo</th>
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<tr>
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<td>Contract; Selection; QA; Preservation</td>
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<td>QA; Preservation</td>
<td>State Government Agencies</td>
<td>Turnover</td>
<td>1-2</td>
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<td>Public Records Archivist</td>
<td>QA</td>
<td>State Government Agencies</td>
<td>Turnover</td>
<td>-</td>
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<td>Head of Acquisitions &amp; Collections</td>
<td>Selection; QA</td>
<td>Collections of KSHS; Community, Hist/Genealogical + Political Orgs</td>
<td>Retiring, replaced?</td>
<td>1-2</td>
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<tr>
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<td>State Government Agencies</td>
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<tr>
<td>Archivist/Pres. Coordinator</td>
<td>Selection; QA</td>
<td>Collections of KSHS; Community, Hist/Genealogical + Political Orgs</td>
<td></td>
<td>1-2</td>
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Web Archiving Steps

1. Selection
2. Running Test Crawls
3. Scoping (pre-QA)
4. Crawling
5. Quality Assurance
6. Patching
7. Going Public
8. Preservation

Pen and ink drawing, Myron A. Waterman, 1893. Courtesy KansasMemory.org.
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<td></td>
<td>1-2</td>
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</tbody>
</table>
## Metadata

### Title: Kansas Health Care Stabilization Fund website

**URL:** [http://hcsf.kansas.gov/](http://hcsf.kansas.gov/)

Captured on Nov 8, 2015

**Subject:** Kansas, Health Care Stabilization Fund -- History, Kansas, Health Care Stabilization Fund -- Records and correspondence, Malpractice insurance -- Kansas, Medical personnel -- Malpractice insurance -- Kansas, Kansas, Insurance Dept. -- History

**Creator:** Kansas Health Care Stabilization Fund

**Publisher:** Kansas Health Care Stabilization Fund

**Language:** English

**Unit ID:** 216184

**Collector:** Kansas State Historical Society, State Archives Division

**Relation:** [http://www.kshs.org/dart/units/view/216184](http://www.kshs.org/dart/units/view/216184)

### Additional Metadata

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<td>Kansas Department for Children and Families</td>
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<td>Kansas Health Care Stabilization Fund</td>
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<td>Kansas Housing Resources Corporation</td>
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<tr>
<td>Kansas Human Rights Commission</td>
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<tr>
<td>Kansas Legislature Legislative Administrative Services</td>
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<table>
<thead>
<tr>
<th>Publisher</th>
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<tbody>
<tr>
<td>Information Network of Kansas</td>
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<tr>
<td>Kansas Housing Resources Corporation</td>
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<td>Kansas Human Rights Commission</td>
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<td>Kansas Water Office</td>
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<table>
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<th>Collector</th>
<th>Count</th>
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<tbody>
<tr>
<td>Kansas State Historical Society, State Archives Division</td>
<td>1</td>
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</tbody>
</table>

<table>
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<th>Agency code</th>
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<td>270</td>
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Meta-Collaborations

Prize Cakes Culinary Department, Kansas Free Fair Album, 1921. Courtesy KansasMemory.org.
Archive-It

- To Do List and Outstanding Questions
- Kansas Archive-It Consortium
- Metadata
  - Archive-It Metadata Procedures
  - Metadata Import/Export
- QA
  - Webcrawl Scoping
- Selection Criteria
  - Government Records
  - Collections
- Support
- User Accounts

Additional KSHS documentation is located at:
I:\Outreach\Partnerships\web_archiving_collaborative

- External resources

New file
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</table>

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# KSHS Web Collections

<table>
<thead>
<tr>
<th>Collection</th>
<th>Frequency</th>
<th>Seeds</th>
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<tbody>
<tr>
<td>Community Organizations</td>
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<td>Weekly</td>
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<tr>
<td></td>
<td>One-time</td>
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<tr>
<td>Historical/Genealogical Orgs</td>
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<td>83</td>
</tr>
<tr>
<td></td>
<td>One-time</td>
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</tbody>
</table>
Collaborations

Welcome

WELCOME to the KSB. The KSB is an online directory of businesses and services. The KSB is also available as an email newsletter.

Announcement

FALL 2016 Edition

The revised Fall Edition of the KSB is now available online. We also updated all our listings.

NOTICE

The deaf and hearing-impaired are now being served by the KSB. The deaf and hard of hearing are also welcome to submit applications.

Contact Us Neewollah on Facebook

Neelah Deb/Stage Escort Application

Logo Contest Information

Queen Neelah LXXIV

Anna Miller
Collaboration.

# KAIC Documentation

## Master Seed List - Kansas Archive-It Consortium

<table>
<thead>
<tr>
<th>Collection Title</th>
<th>Seed Title</th>
<th>URL</th>
<th>Notes</th>
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<tr>
<td>Kansas State University Web Archive</td>
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<td><a href="http://www.k-state.edu">www.k-state.edu</a></td>
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<td>Landon Lecture Series on Public Issues</td>
<td>one.ksu.edu/lectures/landon/index.html</td>
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<td>One-time before change</td>
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<td>Kansas 4-H</td>
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</tr>
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<td>Quarterly</td>
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<td>We Are K-State</td>
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<td>Annual</td>
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<tr>
<td>Kansas State Collegian Newspaper</td>
<td><a href="http://www.kstatecollegian.com">http://www.kstatecollegian.com</a></td>
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<td>One-time &amp; then Weekly</td>
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<td>UFM</td>
<td><a href="http://myufm.org">http://myufm.org</a></td>
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<td>Quarterly</td>
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<td>Kansas State University Student Organizations Web Archive</td>
<td>Black Student Union at Kansas State University</td>
<td><a href="https://kunrankofs.wordpress.com/">https://kunrankofs.wordpress.com/</a></td>
<td>Semi-annual</td>
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<td>Black Student Union Twitter</td>
<td><a href="http://twitter.com/kbubu">http://twitter.com/kbubu</a></td>
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<tr>
<td>Black Student Union Facebook</td>
<td><a href="http://www.facebook.com/kstate">https://www.facebook.com/kstate</a></td>
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KAIC Portal

Kansas Archive-It Consortium

Search Web Archives

Kansas Historical Society and State Archives
Search Web Archives
Browse Web archives
https://archive-it.org/organizations/606
Collecting Areas
State Government Agencies of Kansas, Kansas Political Organizations, Kansas Community Organizations, Websites pertaining to collections of the Kansas Historical Society, Historical and Genealogical Societies of Kansas, Kansas Digital Newspapers

Kansas State University
Search Web archives
Browse Web archives
https://archive-it.org/organizations/890
Collecting Areas
Consumer movement, Cookery, Kansas Life and Culture, Kansas State University History

Lessons learned...
Contact & Evaluation

Kansas Archive-It Consortium: http://sites.google.com/site/kansaswebarchives

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Kansas Historical Society
mmacken@kshs.org
785-272-8681, ext. 280

Annual meeting and session evaluation form:
bit.ly/OMAMAC2017