

Collaborative Web Archiving: Lessons from Kansas

Sherry Williams, chair K



Megan Macken STORIES HISTORICAL

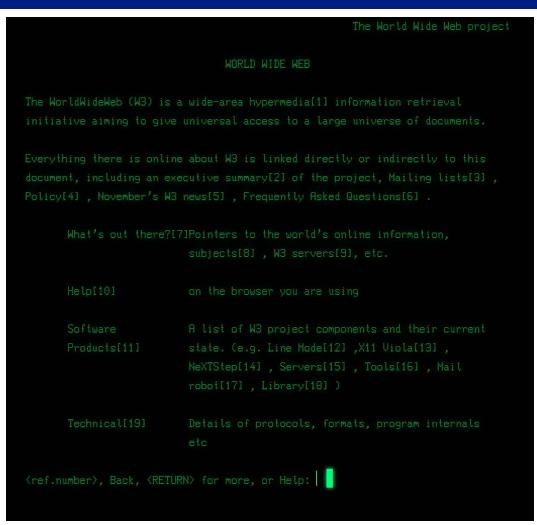
Cliff Hight, substitute KANSAS STATE Chair Chair

Patty Nicholas



Introduction

- First web pages
 - Thanks, Tim Berners-Lee!
- Responsibility to preserve & make accessible
- Our plan
 - Overview
 - With limited resources
 - With more resources



Emulated version of the first widely accessible web page, 1992 From http://line-mode.cern.ch/www/hypertext/WWW/TheProject.html



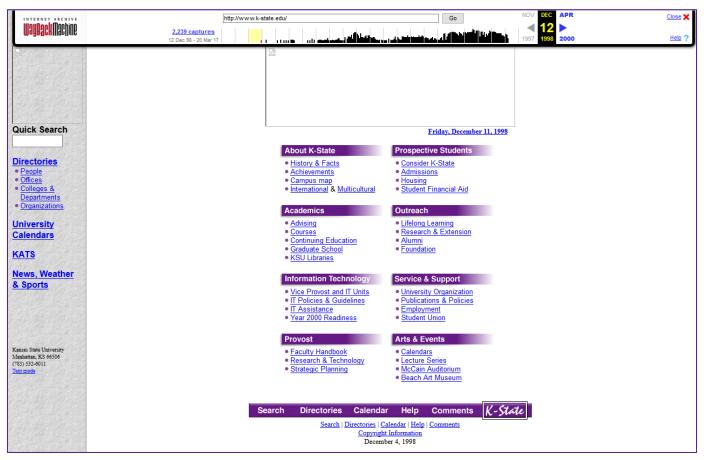
Introduction

- For additional info on KAIC, see:
 - "Collaboration Made it Happen! The Kansas Archive-It
 Consortium," Journal of Western Archives, at:
 http://digitalcommons.usu.edu/westernarchives/vol8/iss2/4

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

Articles Introduction to the Special Issue on Web Archiving Nicholas Taylor 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 Alston B. Cobourn Deptity 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

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)



Photo: http://www.flickr.com/photos/9422878@N08/

Kansas Archive-ItConsortium (KAIC)

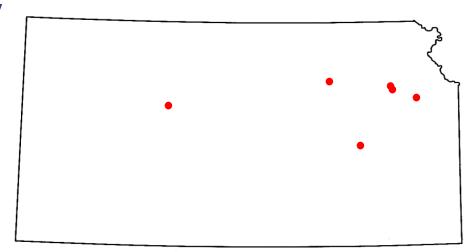


Photo: http://www.flickr.com/photos/marcyleigh/



In the Beginning...

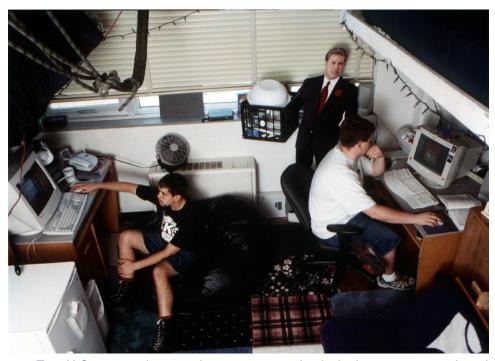
- Current member institutions
 - Emporia State University
 - Fort Hays State University
 - Kansas Historical Society
 - Kansas State University
 - University of Kansas
 - Washburn University



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

Organizational Structure

- Administrative
 - Flexible approach
 - Project coordinator
 - Archive-It
- Maintaining relationships
 - Build trust
 - Consistent communication
 - Use technology wisely



Two K-State students using computers in their dorm room, undated



Financial Collaboration

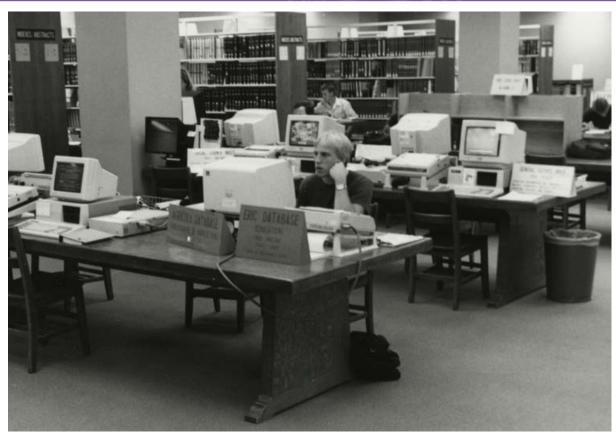
- Creating messages for resource allocators
- Strength in numbers
- Independent flexibility



K-State students purchasing season tickets for football, 1958

Lessons for a Web Collaborative

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



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



Sheep shearing at K-State, 1911



Summary

- 1. Communicate, communicate, communicate
- 2. Plan, plan, plan
- 3. Formal documentation
- 4. Unique partner opportunities
- 5. Clarify number of users



New IBM 650 installed at K-State, 1958

6. Collaborative collecting is possible



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



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

Patty Nicholas
Library Specialist,
Special Collections and Periodicals
Forsyth Library

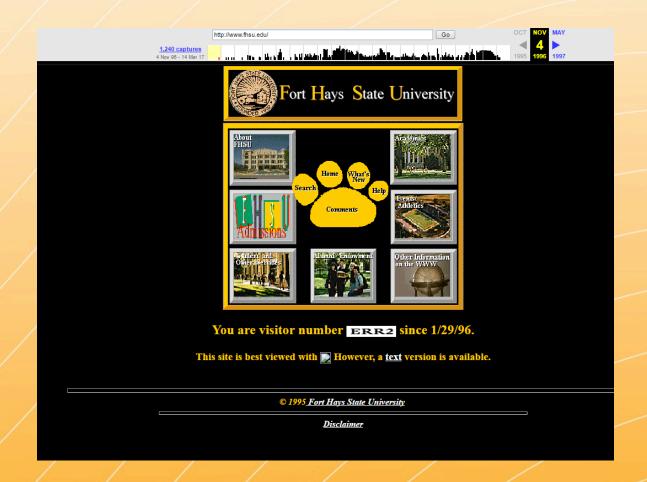


Fort Hays State University Hays, Kansas

- 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

Forward thinking. World ready.

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

Forward thinking. World ready.

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

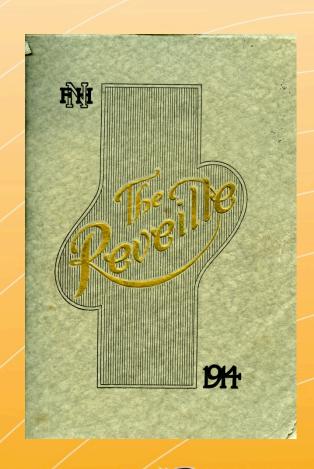
	Current Subscription Details: July 2016- June 2017 as of April 5, 2017
Data Budget	189 GB
New Data	53 GB
New Documents	2,067,383

	2015	2016	All Time
Total Data	80.4 GB	269 GB	402.4 GB
Total	2,413,965	8,045,892	12,527,240
Documents			



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

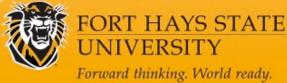




Collections



- 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

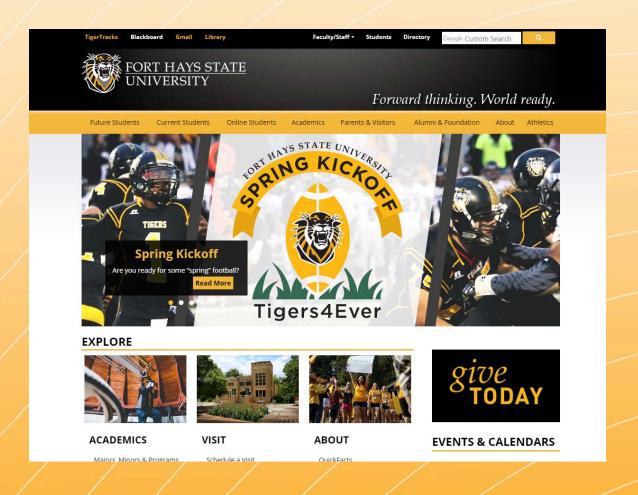
- Hard to determine how often we should crawl various sites because of unknown future data numbers
 - Current Data budget 189 GB
 - Sherry decided she wanted to be more conservative in how often to crawl various sites
- We are the furthest away from the other members of the consortium
 - Getting approval 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

Forward thinking. World ready.



FHSU Web Page Today

www.fhsu.edu





Archiving Websites at the Kansas Historical Society

Megan Macken, Digital Archivist



Basic Vocabulary

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



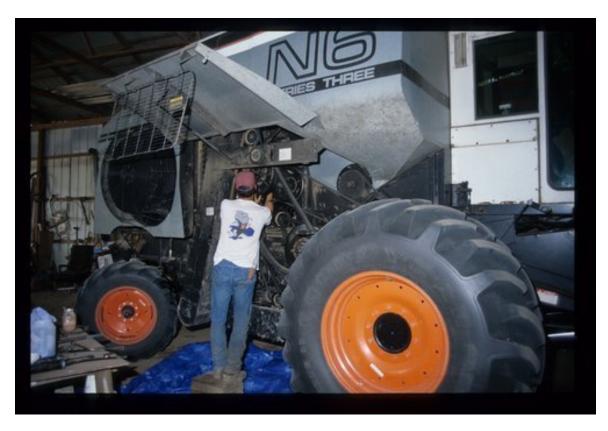


Rotate-o-Matic Super Astronaut, Horikawa Company, 1960s. Courtesy KansasMemory.org.

https://support.archive-it.org/hc/en-us/articles/ 208111686-Glossary-of-Archive-It-and-Web-Archiving-Terms



Collaboration?



Galle Family, Moundridge, Kansas, 1998. Courtesy KansasMemory.org.



YOUR STORIES OUR HISTORICAL SOCIETY

KAIC Comparison

Institution	FTE	ТВ	Seeds	Local
Fort Hays State University	0.05	0.125	21	100%
Emporia State University	0.05	0.125	53	100%
Washburn University	0.01	0.25	21	100%
Kansas State University	0.07	0.5	33	27%
University of Kansas	0.2	0.5	618*	38%
Kansas Historical Society	0.15- 0.8	0.75	395	0.001%



Ella Bird Lott's 80th Birthday, 1941. Courtesy KansasMemory.org.



^{*481} of the 618 seeds are one-time, single-page crawls

KSHS Staffing

Title	Tasks	Web Collection	Status	Hrs/Mo
Digital Archivist	All			24
Digital Initiatives Coordinator	Contract; Selection; QA; Preservation			1-2
Electronic Records Archivist	QA; Preservation	State Government Agencies	Turnover	1-2
Public Records Archivist	QA	State Government Agencies	Turnover	-
Head of Acquisitions & Collections	Selection; QA	Collections of KSHS; Community, Hist/Genealogical + Political Orgs	Retiring, replaced?	1-2
Director of State Archives			Retired	-
Asst. Director, State Archives	Selection; QA	State Government Agencies	Promoted/ not replaced	-
Archivist/Pres. Coordinator	Selection; QA	Collections of KSHS; Community, Hist/Genealogical + Political Orgs		1-2

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



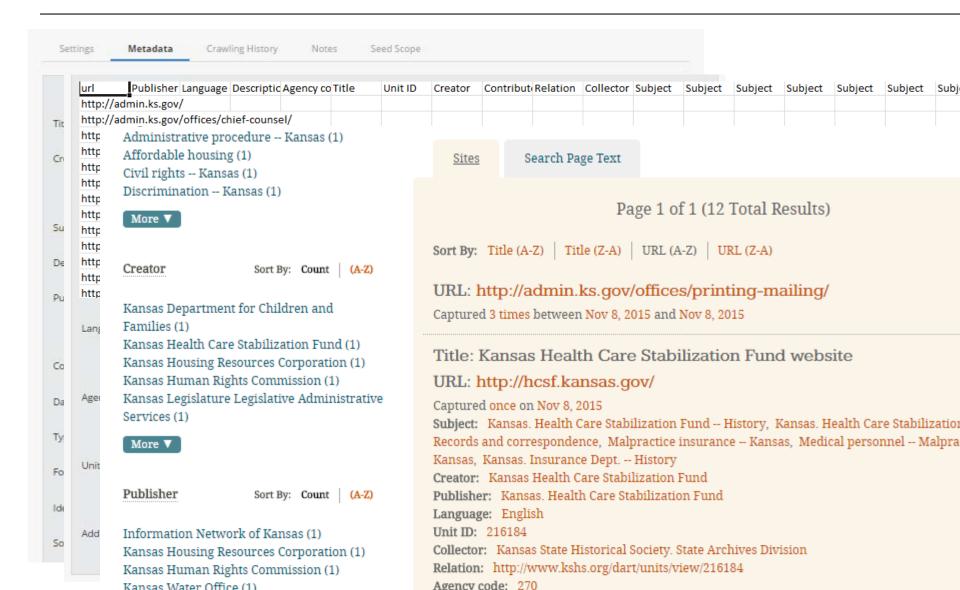
Pen and ink drawing, Myron A. Waterman, 1893. Courtesy KansasMemory.org.



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Metadata

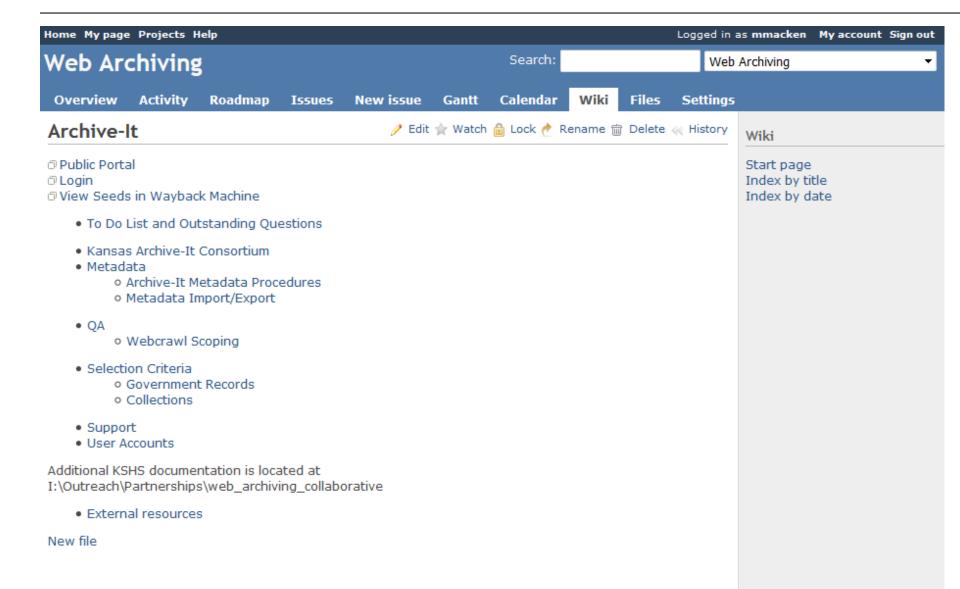


Meta-Collaborations



Prize Cakes Culinary Department, Kansas Free Fair Album, 1921. Courtesy Kansas Memory.org.

Internal Documentation



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Ella Bird Lott's 80th Birthday, 1941. Courtesy KansasMemory.org.



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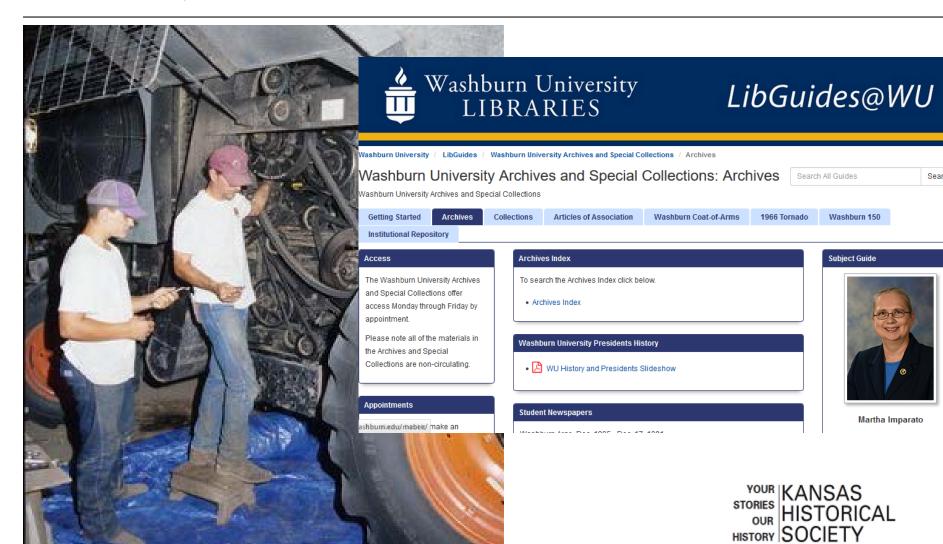
KSHS Web Collections

Collection	Frequency	Seeds
	Semi-annual	82
Community Organizations	Weekly	1
Collections of KSHS	Semi-annual	99
	Annual	1
Government Agencies	Annual	86
Political Organizations	Monthly	29
	Semi-annual	1
	One-time	1
	Annual	83
Historical/Genealogical Orgs	One-time	1



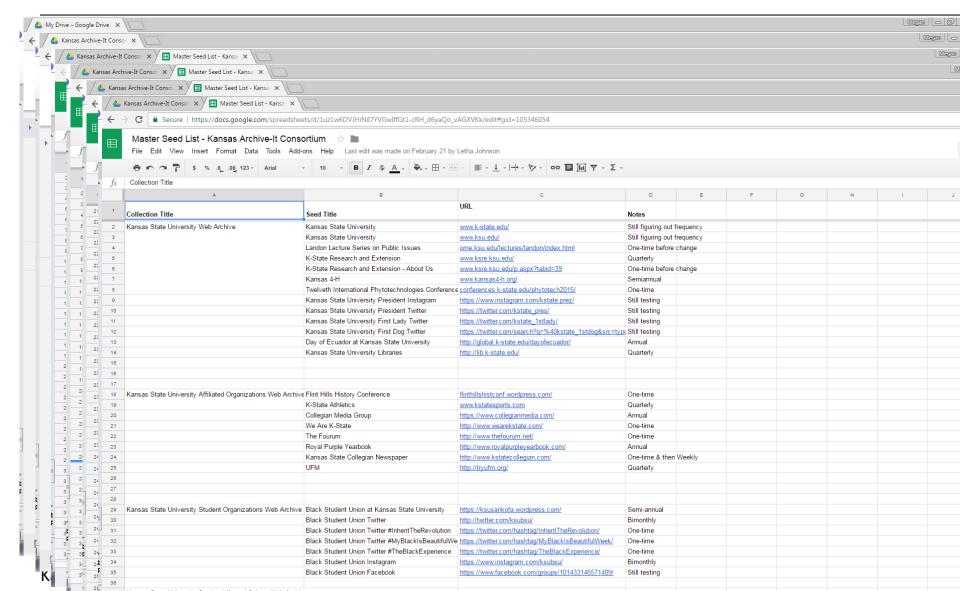


Collaboration.



Galle Family, Moundridge, Kansas, 1998. Courtesy KansasMemory.org.

KAIC Documentation



KAIC Portal

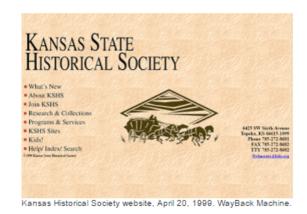
Kansas Archive-It Consortium

Introduction

Search Web Archives

Publications Member login

Search Web Archives



Kansas Historical Society and State Archives

Search this site

Search Web Archives

Go

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

Go

Browse Web archives https://archive-it.org/organizations/890

Collecting Areas

Consumer movement, Cookery, Kansas Life and Culture, Kansas State University History

Lessons learned...



Millennium paperweight, 1999. Courtesy Kansas Memory.org.



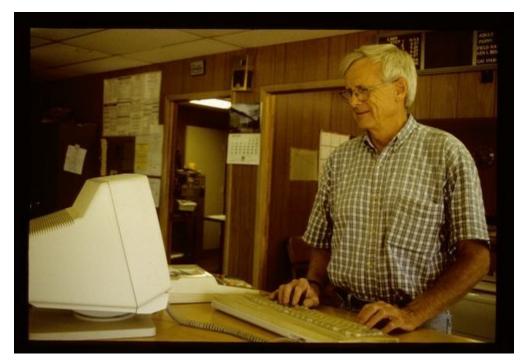
Contact & Evaluation

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

Megan Macken Digital Archivist Kansas Historical Society mmacken@kshs.org 785-272-8681, ext. 280

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





Solomon grain elevator, Solomon, Kansas, 1998. Courtesy Kansas Memory.org.

