A Web Crawl Is Not a Web Crawl, Is Not a Web Crawl

Tools for the Capture of Digital Assets on Websites

October 27, 2006

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Why Capture Websites?

- Websites now the primary way that North Carolina state agencies communicate with the public
- Over 80% of publications disseminated through the Web
- Important records on the Web:
 - Minutes, speeches (video), policies, images
- Websites have become an important part of agency history

What is Web Capture?

- Web crawler or "spider" collects web content
- Starts at predetermined list of URLs
- Makes a copy of web page, including all objects that are part of the web page
- Follows hyperlinks and captures additional web pages, as long as part of acceptable domain list
- Content captured is "clickable content"
 - must be a link for spider to find
 - must not require input from user

Website Philosophy

- Arizona Model vs. "Newspaper" theory
 - Arizona
 - Capture identified "series" hosted on website
 - Crawler only goes to the specified site
 - Newspaper
 - Website contains information that might be valuable or interesting to future research

Website Archiving Activities to Date

- Website guidelines and capture from 2001
- http://www.ah.dcr.state.nc.us/ records/e_records/default.htm#web
- CEP from IMLS grant
- WAW from OCLC, NDIIPP partnership
- Archive-It from Internet Archive

Capturing Electronic Publications

- Developed by the University of Illinois through an IMLS grant
- From September 2004-2005, NC State Library participated in a pilot program to capture websites.
- Open-source software
- 200 state government sites, monthly
- Currently, 273 gigabytes
- No search mechanism

Web Archives Workbench

- Developed by OCLC through National Digital Information Infrastructure Preservation program
- Based on the Arizona Model for Web site Harvesting
- Consists of 4 tools: Discovery tool, Properties tool, Analysis tool, Harvest and Packager tools
- Beta Testing phase—to be completed in 2008

Archive-It

- Pilot: 3 collections of 100 websites each
- 10 million documents total, up to .5 terabytes of data
- Crawled 3 collections—Cabinet, Council of State, Boards and Commissions
- End of Project— 9.5 million objects
- Archive-it captured 54 different formats

Discussion of Capture: What they can capture

- The Web contains valuable archival records in varying file formats.
 - Minutes—Microsoft Word, PDF
 - Speeches--Streaming Video, MP3, .WAV
 - Images--.JPEG, .GIF, .PNG
 - Policies--.HTML, .PDF
- CEP-Ability to capture but limited access
- WAW designed to capture documents
- Archive-It designed to capture the entire web site and render back



View





A http://wayback.archive-it.org/194/20060705131447/www.sustainablenc.org/main/72199/governor.htm









Windows Marketplace 📄 Windows Media

Windows



CONTACTS EVENTS | DOCUMENTS LINKS SEARCH | HOME



VIDEO: Instructions to State Agencies (9.5 MB MPG)

- AUDIO (1.37 MB MP3)
- AUDIO (15.1 MB WAV)

AUDIO: Speech at Emerging Issues Forum (6.9 MB MP3)

AUDIO: Speech at Smart Growth Conference (2.1 MB MP3)

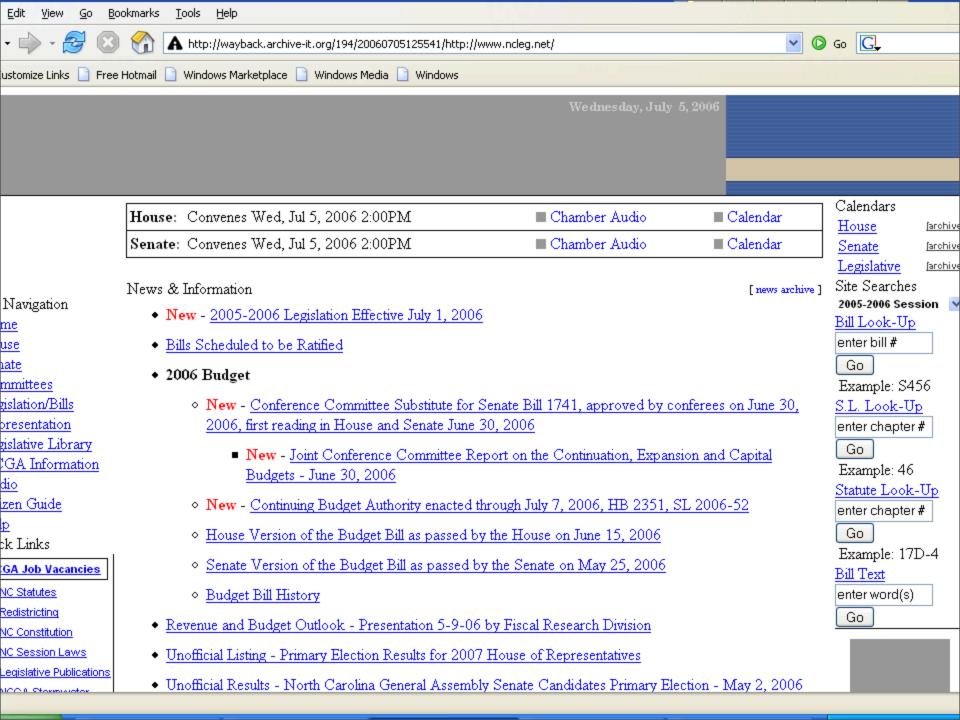
Gov. James B. Hunt Jr.

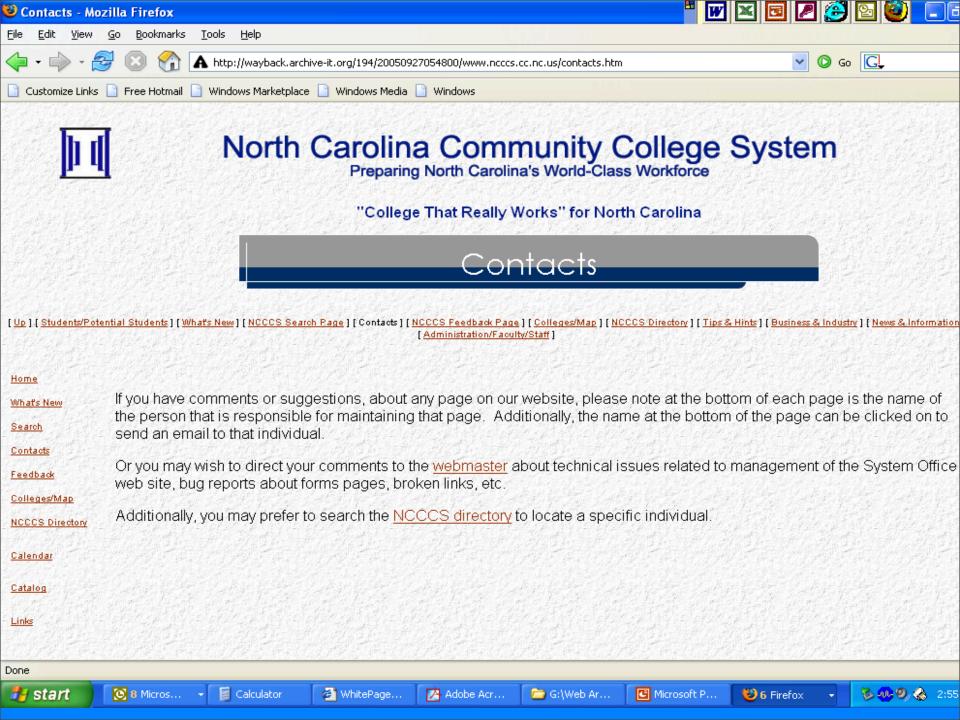
On September 10, 1998, Governor James B. Hunt, Jr., convened an historic conference of his Cabinet and 150 public leaders of state agencies, universities, community colleges, and United States military installations in North Carolina to discuss environmental sustainability and smart growth. Governor Hunt challenged all state agencies and institutions to implement measures to reduce the environmental impacts of their operations. Governor Hunt reminded participants, "We ought to take care of what we have been given. It is morally the right thing to do."

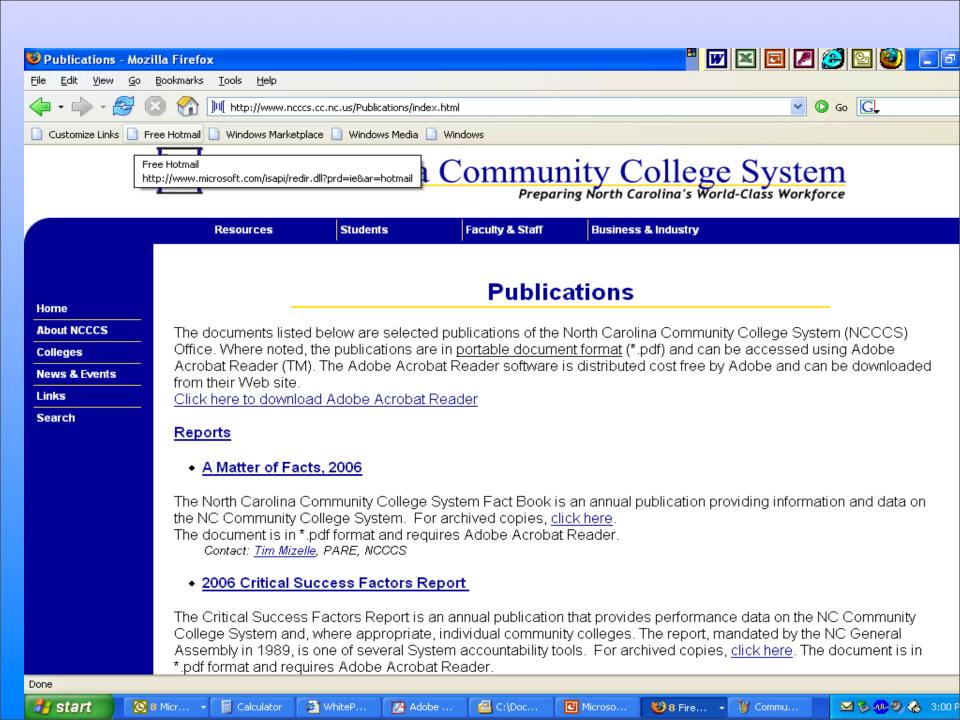
Many state agencies already are doing their part to improve North Carolina's environmental quality. They have shown the kind of leadership that Governor

Discussion of Capture

- Inability to capture and display information
- Redirect to Live Web
 - Relative versus absolute links: (CEP)
 - <u>http://www.ncleg.net</u>
 - Java Script: (AI)
 - <u>http://www.ncstatefair.org/</u>
 - Community Colleges
 - http://www.ncccs.cc.nc.us/







Discussion of Capture What it Cannot Capture

- Archive-It and WAW cannot capture Streaming Video
- Archive-It and WAW cannot capture dynamic database driven sites
 - http://www.ncfarmfresh.com/
- Archive-It cannot capture password protected sites.







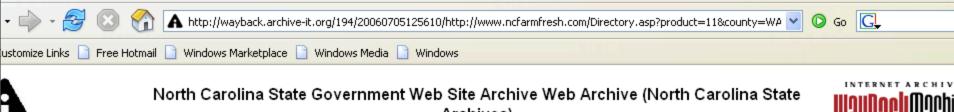
Search For Farms Christmas Trees 🔻 in WAKE County

... or choose a region



Additional Search Options

- Show Only Goodness Grows in North Carolina Members
- Pick Your Own
- Road Side Market
- □ Community Supported Agriculture (CSA) farms





View

Archives)



nter Web Address: http:// All 💌 Take Me Back 🛮 Adv. Sea

Not in Archive.

Bookmarks

Tools

Help

The page you requested has not been archived.

Most likely the page you are requesting was outside of the crawler's scope. Try another request or click here to search for all pages on the same host as

ncfarmfresh.com/Directory.asp?product=11&county=WAKE&submit=Search

Or this error message could have appeared because the site is currently being crawled and the archived pages are not available in the Wayback Machine yet. It usually takes about an hour after your crawl has finished for the site to appear in the Wayback Machine. Please try again after the allotted time, and if you continue to see this error for a page you believe to have been crawled, contact us.

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Lessons Learned

- One hop off
 - "out of scope materials"
- Embedded Links Captured
 - "inappropriate materials"
 - Search for "lottery"
 - Embedded sponsor links (also in WAW)
 - Tremendous amount of material would have to be masked.
- Robots.txt
 - Example North Carolina State Fair.



Try another request or click here to search for all pages on ncstatefair.org/2005/ See the FAQs for more info and help, or contact us.

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Fairgrounds Events Calendar

View

Bookmarks

Tools

Help

Tickets

Fairgrounds Facilities & Rental Rates (non-fair)

/the book - The N.C. State Fair: The First 150 Years

Fairgrounds Map (non-fair pdf)

Driving Directions

nber of the International Assn. of Fairs & Expositions

N. C. County Fairs

The 2006 N.C. State Fair is coming October 13-22



This year, the Fair unveils its new Midway Building, continuing a five-year plan to add more restrooms and other amenities. The new building, located near Gate 9, will be home to Red Cross emergency services and public safety staff throughout the 10-day event.

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Newsroom

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The new building includes 32 women's and 19 men's bathroom stalls, and a multi-purpose room that will be available to rent during non-fair time. The facility will feature tile interiors, day-lighting and easy access. Click here to see the building's progress >>

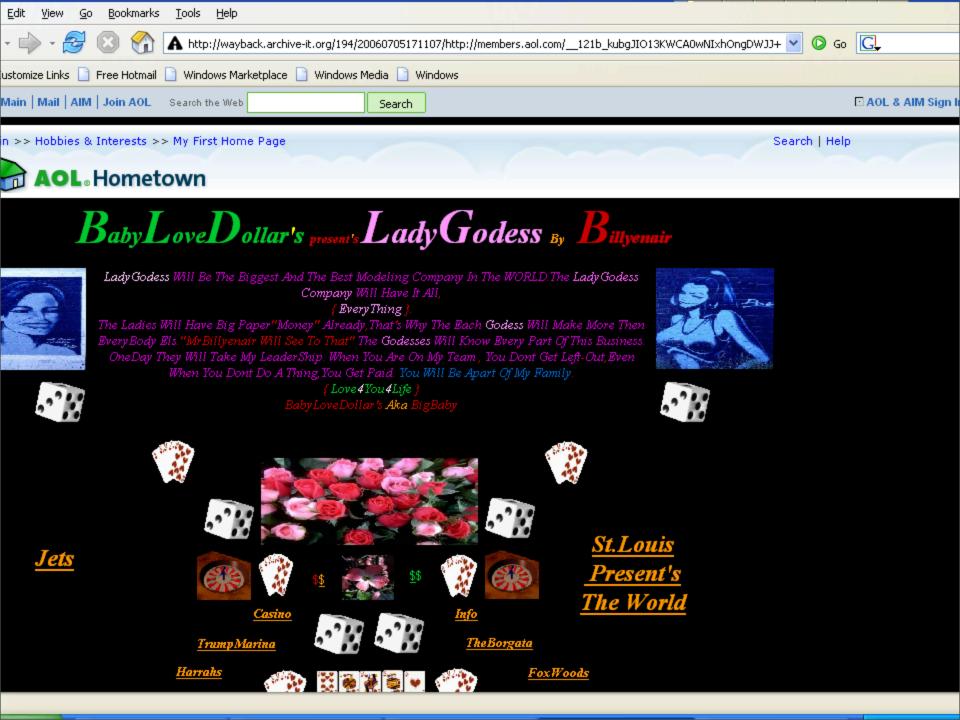
Latest News:

Pleasant named Certified Fair Executive 5-22-06

Entertainment

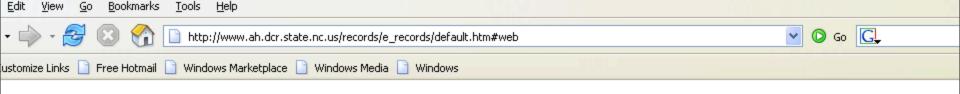
Michael S. Pleasant, assistant manager of the N.C. State Fair, was recently designated a Certified Fair Executive by the International Association of Fairs and Expositions, Pleasant is the first N.C. State Fair





Analysis of 3 Methodologies

- **CEP**—on-site solution
 - One spider for each URL CVS format
 - Control over the crawler
 - Need institutional support
 - Need IT support.
 - Practitioner needs background in programming.
- WAW—hosted solution
 - Same crawler. Assume it will work similarly to Internet Archive.
 - Crawls specific web documents.
 - Control over the crawler
- Internet Archive—hosted solution
 - captures a moment in time
 - crawls everything within the domain.
 - Limited control over crawlers. Changed 7/2006.



Web Site Guidelines

- Program, Standards and Procedures Documents
 - Program for Maintaining and Preserving Records of Web-Based Activities (pdf)
 - Standard for Automated Web Site Capture (pdf)
 - Collection Procedures for State Government Web Sites Using Archive-It (pdf)
- Procedures for Manual Collection of Web-Based Activities (pdf)
- Web Site Content Assessment Table (pdf)
- Web Site Description Form (pdf)
- Web Site Description Form Instructions (pdf)

Digital Imaging Systems Guidelines (pdf)

- 1. Project Planning
- 2. Technology Assessment and Selection
- 3. System Implementation
- 4. Suggested Reading
- 5. Scanning Glossary

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Welcome!

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her Sites

ernet Archive

The North Carolina State Government Web Site Archive allows you to view North Carolina state agency web sites from past dates. The Web Site Archive contains web sites from the Fall of 2005, and from April 2006 forward allowing free and open access to this information long after the sites have changed on the live web.

The Web Site Archive can be searched via the search box on the top of every page on this site. For tips and helpful hints on searching, read our Search Help document. Users may also browse for web sites by State Agency or by Collection.

The Web Site Archive began as a pilot project with the Internet Archive during the Fall of 2005. The purpose of this project was to refine a tool called Archive-It which collects, preserves, and provides access to web sites of enduring value.

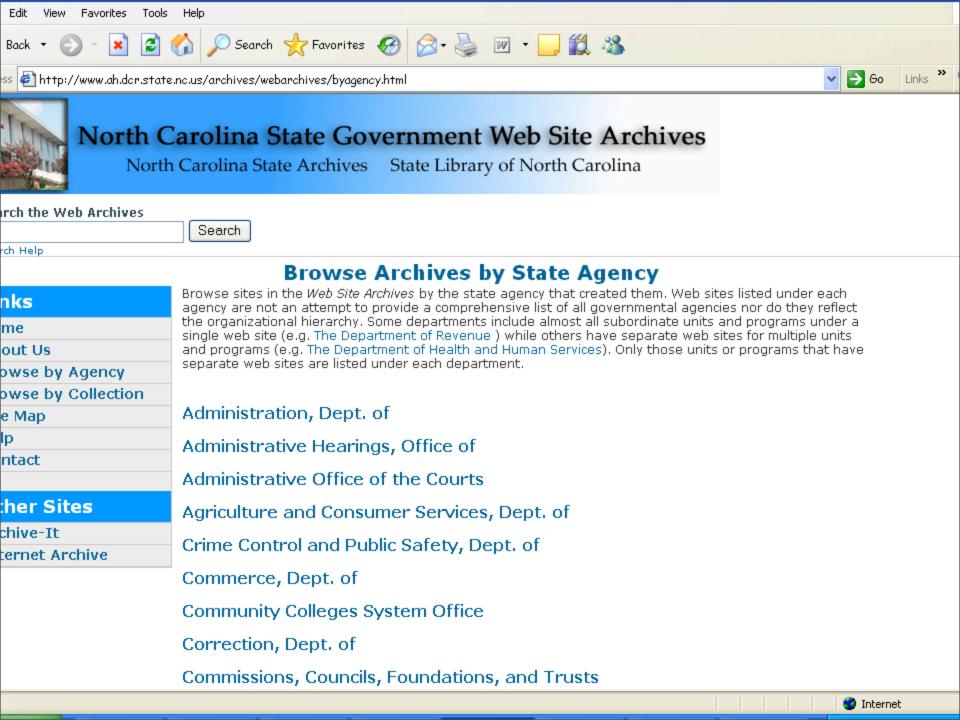
The success of the Pilot Project led to the creation of the current version of *The North Carolina State Government Web Site Archive* which began archiving web sites in late April of 2006. The *Web Site Archive* contains copies of state agency web sites captured during the pilot project in the Fall of 2005 and after the official launch in April 2006 forward.

The North Carolina State Government Web Site Archive is proof of the ongoing commitment by the North Carolina State Archives and the State Library of North Carolina to provide free and open access to state government records and publications.

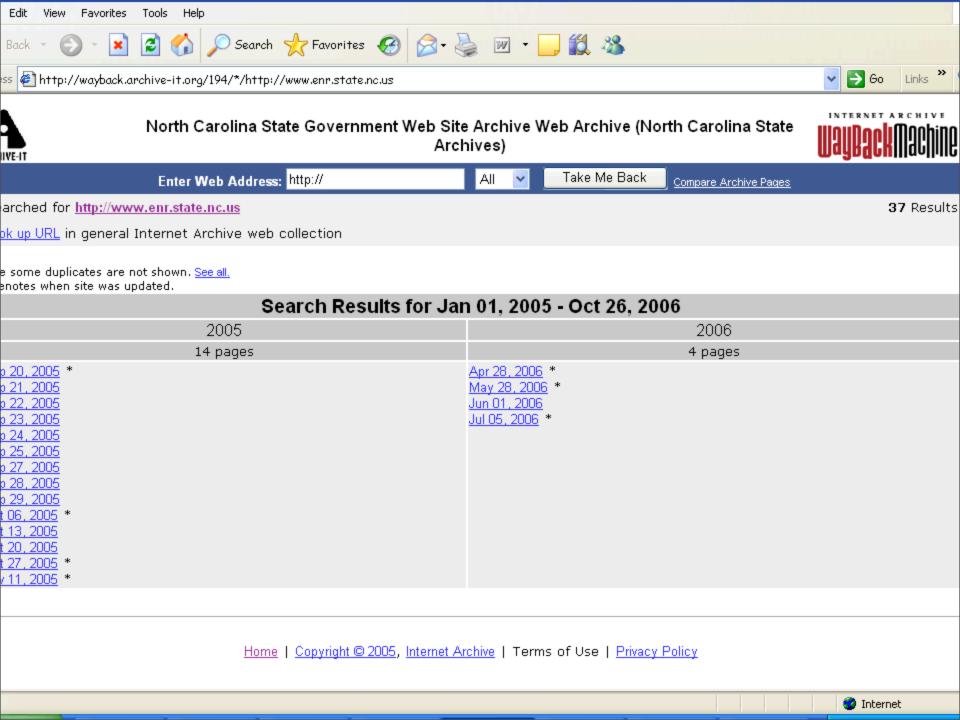


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Above: Screenshot of the Governor's web site from Sept. 20th, 2005. Click image to view site







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http://www.ah.dcr.state.nc.us/archives/webarchive/
index.html

http://www.ah.dcr.state.nc.us/records/default.htm

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