The National Digital Newspaper Program (NDNP) is a partnership between the National Endowment for the Humanities (NEH) and the Library of Congress. The program builds on the success of the United States Newspaper Program’s (USNP) microfilm collection by creating digital page images of historic newspapers using a primarily microfilm-to-digital methodology. NDNP’s twenty-year mission is to fund and make available online these historic newspapers from all fifty U.S. states and U.S. territories. States are selected incrementally, chosen every two years in “Phases.” Each Phase is defined by a date range. Phase I (2005-2007) limited content to a single decade 1900-1910; Phase II (2007-2009), the current stage in operation, includes content from 1910 back to 1880; and Phase III (2008-2010) opens the field even wider to include dates 1860 through the copyright ceiling of 1922.

The University of Kentucky Libraries was one of only six institutions selected for NDNP Phase I, along with University of California-Riverside, University of Florida—who has since dropped out of the program—New York Public Library, University of Utah, and Library of Virginia. With Phase III awardees recently selected, the contributing states now equal fifteen: Arizona, California, Florida, Hawaii, Kentucky, Nebraska, New York, Minnesota, Missouri, Pennsylvania, Ohio, Texas, Utah, Virginia, and Washington. In addition to being the program’s data repository and online portal, the Library of Congress acts as an awardee by adding Washington D.C. newspapers to the national collection as well as permanently storing each awardee’s digitized print master microfilm as a hedge against catastrophic loss.

All of the awardee content is accessible through the Library of Congress online interface Chronicling America http://www.loc.gov/chroniclingamerica/home.html. Moreover, NDNP allows each awardee to display its state’s content via its own interface. In Kentucky, the newspapers are available through the Kentuckiana Digital Library (KDL) http://kdl.uky.edu/ which is managed by the University of Kentucky Libraries in partnership with the Kentucky Virtual Library (KYVL).

The first Kentucky newspaper titles were chosen to represent the six geographic regions of the commonwealth equally. Each title is also supplemented with a short essay addressing its historic significance to the state, region, or nation. The KDL includes titles that do not currently qualify for NDNP inclusion, such as papers digitized from positive microfilm (Washington County’s Springfield Sun and News-Leader), foreign language papers (Louisville’s German language Omnibus), or those not considered “newspapers” by Library of Congress cataloging standards (Afro-American Mission Herald). To date, nearly 700,000 digital newspaper pages are available in Chronicling America. Of those, 106,661 pages from 36 titles have been produced by the University of Kentucky Libraries. In the KDL that number swells to 110,000 pages from 40 titles. When Phases II and III are complete, the University of Kentucky Libraries will have added another twelve titles totaling 52 title—the most from any awardee. (See complete list at the end of this article.)

Chronicling America also offers a directory of every United States newspaper entered into the OCLC database from 1690 to the present. Even though this is a comprehensive tool, uncataloged newspapers are still being discovered partly as a result of NDNP. During Phase
I alone, Kentucky found and digitized three previously uncataloged “orphan” newspapers: Ohio Valley Worker, Kentucky Vindicator, and Afro-American Mission Herald. Records now exist for each of these titles, and more unknown papers are expected to be found as digitization continues.

It was no small affair for the commonwealth, or for the University of Kentucky, to be included in the first phase of NDNP. Only one institution from each state or territory is, or will ever be, responsible for NDNP content submission. Inter-state partnerships are permitted, even encouraged, to assist in adding content, whether through the sharing of microfilm and source documents or in some other way.

One such instance is the collaboration between the University of Kentucky Libraries and the University of Louisville to find and microfilm missing issues and pages from Kentucky's paper of record, Louisville's Courier-Journal. The Courier-Journal was identified as the pre-eminent Kentucky newspaper in 2005 by Kentucky's NDNP Advisory Council that is made up of archivists, historians, genealogists, and newspaper professionals. The University of Louisville holdings supplement the existing University of Kentucky hard-copy collection of The Courier-Journal. The goals of the collaboration are to make high-quality preservation microfilm of The Courier-Journal once and for all, make keyword-searchable digital access possible, stabilize the rare color pages, and make a collaborative decision about long-term disposition and storage of the hard copy.

An exciting discovery in The Courier-Journal—undetectable in microfilm—was that many front pages and comics were printed in color. The paper will be microfilmed according to today's preservation microfilm standards for
preservation and digitization, but because the Library of Congress specifications now allow color scans to be included in the national corpus, a more accurate surrogate of The Courier-Journal can be assembled online by replacing black-and-white scans from microfilm with color scans of the hard copy from those pages printed with color.

The Library of Congress specification change provides a home, in addition to the KDL, for Kentucky's first newspaper, the Kentucke Gazette. The first newspaper west of the Alleghenies, the Kentucke Gazette is an exciting historic newspaper project collaboration among the University of Kentucky Libraries, the KDL, and the Lexington Public Library, which owns and houses a near-complete collection of the original documents. Unlike The Courier-Journal's color pages that are captured in color for display purposes only, all of the Kentucke Gazette's pages will be scanned and preserved in color. This approach is a much longer and labor-intensive process than microfilm digitization, not to mention its increased digital storage needs, but the effort permits a
more tactile user experience. Based on the anticipated date range, the Gazette's earliest content—first issued in 1787—won't be permissible in NDNP until 2010 or later, although it will be available in the KDL in its entirety from the start.

Since large-scale digitization began at the University of Kentucky Libraries, researchers have been asking, "When are you going to digitize newspapers?" Most people believe all that's needed to digitize anything is a flatbed scanner and a computer. That is hardly the case, especially where newspapers are concerned. Unlike books, whose text is primarily left-to-right reading of the page format, newspapers are much more complex because of their column structure and because articles often continue between pages. For newspapers it's not simply a matter of digitizing the artifact, whether from the newspaper itself or from microfilm. Online accessibility requires robust IT infrastructure, and the searchability of that paper is possible only with OCR (optical character recognition) generation. The NDNP specification is densely structured to accommodate the copious metadata collected from each microfilm reel, newspaper title, and corresponding digital surrogates. The mandatory grayscale files can be incredibly large, upward of 80M for a single page image. In addition, each page image is delivered to the Library of Congress in four file formats: TIF 6.0 (the preservation master), JPEG 2000 and PDF (used for online access), and the corresponding XML (with all pertinent metadata). Multiply that by just one 600-800 page image microfilm reel, and the storage, even the file transfer, needs become staggering. Every aspect is intricate, complex, and technologically ever-changing.

When NEH called for newspaper digitization proposals in 2005, the University of Kentucky Libraries had many assets to bring to the NDNP program. We have in our vault an enormous microfilm collection with some 28,000 master negative reels of Kentucky newspapers. We know the state's newspapers extremely well, having been an original participant in the United States Newspaper Project—of which NDNP is a sibling—in addition to of microfilming newspapers 30 years prior to that and continued microfilming of 172 current Kentucky newspapers. Moreover, we have the technological know-how and infrastructure to manage such a large-scale digitization program, including a full-service microfilm lab, an increasingly rare commodity these days.

The University of Kentucky Libraries was the only awardee to propose newspaper digitization using an entirely in-house microfilm-to-
digital methodology. Doing so has allowed us to develop expertise and become national leaders. Throughout the year we provide significant research findings to the Library of Congress while also offering unique collaborative opportunities to other NDNP awardees. We also work closely with our software vendor, iArchives, to refine its software suite for the NDNP specifications. This benefits other awardees that use iArchives’ services. Most notably, we host *meta morphosis: a film-to-digital institute* at the University of Kentucky Libraries. This annual symposium covers scanning, including scanning from microfilm; evaluating scanners, metadata ins-and-outs along with problem-solving issues; infrastructure and production needs; film, newspaper, and imaging evaluation; building an RFP, and an in-depth look at the art of making good microfilm products. Now in its third year, *meta morphosis* attendance has become a requirement for new NDNP awardees. More than 30 states and institutions have participated in *meta morphosis*. The success of past participants who are now partners in NDNP is testament to the institute’s good work and the University of Kentucky Libraries’ expertise. Ultimately, the hard work of all NDNP awardees will open up historic newspaper pages for the entire world to read.
Kentucky newspapers available in Chronicling America and Kentuckiana Digital Library

Adair County News  Frankfort Weekly News & Roundabout  Kentucky Irish American
American Baptist  Hartford Herald  Kentucky Reporter
Bee (Earlington)  Hartford Republican  Kentucky Vindicator
Blue Grass Blade  Hazel Green Herald  Liberty (LaCenter)
Bourbon News  Hickman Courier  Mount Vernon Signal
Breathitt County News  Hopkinsville  Mountain Advocate
Breckenridge News  Kentuckian  Mt. Sterling Advocate
Central Record  Interior Journal  Ohio Valley Worker
Citizen (Berea)  It  Owingsville Outlook
Clay City Times  Paducah Sun

Newspapers exclusive to Kentuckiana Digital Library

Afro-American Mission-Herald  News-Leader  Omnibus  Springfield Sun

Titles Earmarked for NDNP Phases II and III digitization

Big Sandy News  Daily Public Ledger  Herald Ledger  Middlesborough News
Courier-Journal  Evening Bulletin  Logan County News  Spout Spring Times
Crittenden Press  Frankfort Roundabout  Middlesboro Record  Weekly Roundabout

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