

National Digital Newspaper Program

2025-2027 Digital Asset Metadata Elements - Dictionary

NOTES:

- Metadata elements below are described by original object. Elements may appear in more than one digital object per NDNP specifications. Mandatory (and mandatory if available) elements are marked as “M” (or “MA”) and appear in red.

Data Description	Data Type	Example	Notes	Repeatable R= repeatable NR = non-repeatable	Mandatory M=mandatory MA=mandatory, if available O=optional	Xpath (see XML templates) and/or Data location
General Information						
Awardee Name	string	New York Public Library	Name of institution that received the NEH award	NR	M	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/metsHdr/mets:agent/mets:name mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/metsHdr/mets:agent/mets:name
Award Year	enumeration	2025	Year of NEH award under which the digitization of this content was funded	NR	M	Xml:xml[@TYPE="urn:library-of-congress:ndnp:batch"]/batchHdr/batch:agent/batch:awardYear
Original Source Repository	string	Multiple examples: Library of Congress; Washington, DC or New York Public Library; New York, NY	Owner of original source that was digitized (micro-film or paper) ; city and state postal abbreviation	NR	M	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/mets:dmdSec[@ID="pageModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:relatedItem[@type="original"]/mods:location/mods:physicalLocation/@displayLabel mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:dmdSec[@ID="targetModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:relatedItem/mods:location/mods:physicalLocation/@displayLabel

Original Source Repository Code	enumeration	dlc	Normalized MARC organization code of owner of source. See https://www.loc.gov/marc/organizations/org-search.php for more information and code list.	NR	MA	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/mets:dmdSec[@ID="pageModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:relatedItem[@type="original"]/mods:location/mods:physicalLocation mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:dmdSec[@ID="targetModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:relatedItem/mods:location/mods:physicalLocation
Digital Responsible Institution	string	Multiple examples: Library of Congress; Washington, DC or Library of Virginia; Richmond, VA	Awardee institution; city and state postal abbreviation	NR	M	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/mets:dmdSec[@ID="pageModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:note[@type="agency ResponsibleForReproduction"]/@displayLabel mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:dmdSec[@ID="techTargetModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:note/@displayLabel mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:dmdSec[@ID="targetModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:note/@displayLabel TIFF: Tag 315/institution name PDF: rdf:Description/dc:description/ rdf:Alt/rdf:li JPEG2000: rdf:Description/ dc:description/ rdf:Alt/rdf:li

Digital Responsible Institution Code	enumeration	Multiple examples: dlc oru vi	Normalized MARC organization code of Awardee. See https://www.loc.gov/marc/organizations/org-search.php .	NR	MA	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/mets:dmdSec[@ID="pageModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:note[@type="agencyResponsibleForReproduction"] mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:dmdSec[@ID="techTargetModsBib"]/mets:mdWrap/mets:xmlData/mods:mods/mods:note mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:dmdSec[@ID="targetModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:note Xml:xml[@TYPE="urn:library-of-congress:ndnp:batch"]/batchHdr/batch:agent/batch:awardee
Batch name Sample	string	batch_dlc_2025sample	For initial sample batch, use this naming structure: batch_[MARC organization code*]_[year of award]sample For production batches, use this naming structure: batch_[MARC organization code*]_[keyword**].	NR	M	Xml:xml[@TYPE="urn:library-of-congress:ndnp:batch"]/batchHdr/batch:agent/batch:name
Batch name Production	string	batch_dlc_apple	*For MARC Organization code, see https://www.loc.gov/marc/organizations/org-search.php. ** Batch keywords are unique within the deliveries of a			

			given awardee throughout their program participation. Keywords (in alpha order for a given grant period) are selected by awardees. NOTE: All batch names must be lower-case. (batch _[orgcode]_[keyword]. Only 2 underscores are permitted per batch name (e.g., batch_dlc_thomasjefferson)			
Scanning Contractor	string	Image Scanning Corporation OR Image Scanning Corporation; Image Subcontractors, Inc.	Contractor that scans to create TIFFs. Additional sub-contractors creating TIFFs may be represented separated by a semicolon and a single space. (Note: Scanning contractor element is combined with Digital Responsible Institution in TIFF Tag 315. If the Digital Responsible Institution ("institution name" element in TIFF tag 315) conducts its own scanning, the "scanning contractor" element can be omitted.)	NR	MA	TIFF: Tag 315/scanning contractor (See NDNF TIFF Profile for more information.)
Scanner Manufacturer	string	Scanner Manufacturing Company, Inc.	Manufacturer of scanner used to create TIFFs.	NR	M	TIFF: Tag 271
Scanner Model	string	Scanner0001, Model2, SN#12345	Model name, number and serial number of scanner. Use the following format: "model name, model number, SN#serial number" Note: Include model number (optional).	NR	M	TIFF: Tag 272 (See NDNF TIFF Profile for more information.)

			Include serial number (required).			
Scanning Software	string	ImageDocSoftware v.10.1	Software used to create original TIFFs or software used to create NDNP deliverable TIFF images. Include version number/name.	NR	M	TIFF: Tag 305
Title Information						
LCCN	string	sn83031150 or 2007123234	Use canonical (normalized) form of LCCN for associated title bibliographic description. See https://www.loc.gov/marc/lccn-namespace.html	NR	M	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/mets:dmdSec[@ID="issueModsBib"]/mets:mdWrap/mets:xmlData/mods:mods/mods:relatedItem/mods:identifier/@type Xml:xml[@TYPE="urn:library-of-congress:ndnp:batch"]/newspapertitle:lccn Xml:xml[@TYPE="urn:library-of-congress:ndnp:batch"]/issue:lccn PDF: rdf:Description/dc:description/rdf:Alt/rdf:li JPEG2000: rdf:Description JPEG2000: rdf:Description/dc:description/ rdf:Alt/rdf:li
Title	string	Multiple examples: The national forum. (Washington, D.C.) The Weekly roundabout. (Frankfort, Ky.)	Combine MARC 245\$a and (260\$a) Or Combine MARC 245\$a and (264\$a) [for RDA records]	NR	M	PDF: rdf:Description/dc:title/ rdf:Alt/rdf:li PDF: rdf:Description/dc:description/ rdf:Alt/rdf:li JPEG2000: rdf:Description/ dc:title/ rdf:Alt/rdf:li JPEG2000: rdf:Description/

		The Irish standard. (Minneapolis, Minn. ; St. Paul, Minn.) Svět = World. (Cleveland, Ohio)	Or MARC 130\$a (Use of the MARC 130 field is permitted only if the field is present and well-formed.) (If multiple MARC 260\$a fields are present, include all within parentheses and separate each with a space.) (If MARC 245\$b field is present, optionally include after MARC 245\$a separated with a space.)			dc:description/ rdf:Alt/rdf:li mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]@LABEL
Volume Number	string	27	Following SICI standard: (1.) All numeric information shall be converted to Arabic numerals. (2) Alphabetic data used as enumeration designations shall be transcribed as they appear on the piece, and converted to uppercase.	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/mets:dmdSec[@ID="issueModsBib"]/mets:mdWrap/mets:xmlData/mods:mods/mods:relatedItem/mods:part/mods:detail[@type="volume"]/mods:number
Edition Order	positive integer	Multiple examples: 1 2 3	Default is 1. If more than one edition on this date, number in chronological order.	NR	M	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/mets:dmdSec[@ID="issueModsBib"]/mets:mdWrap/mets:xmlData/mods:mods/mods:relatedItem/mods:part/mods:detail[@type="edition"]/mods:number Xml:xml[@TYPE="urn:library-of-congress:ndnp:batch"]/issue:editionOrder JPEG2000: rdf:Description
Edition Label	string	Multiple examples: Late City Final	If present, record as printed. (If not present, do not	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]

		Two Stars (Final Edition) Extra	generate.) If symbol is used to indicate edition label (e.g., two stars), describe the visual symbols and the meaning of those symbols in parentheses (i.e. if 2 stars are used to represent Final Edition, then Field value should be "Two Stars (Final Edition)".)			/mets:dmdSec[@ID="issueModsBib"]/ mets:mdWrap/mets:xmlData/mods:mods/mods:relatedItem/mods:part/mods:detail[@type="edition"]/mods:caption mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"] @LABEL
Issue Number	string	3	Following SICI standard: (1.) All numeric information shall be converted to Arabic numerals. (2) Alphabetic data used as enumeration designations shall be transcribed as they appear on the piece, and converted to uppercase.	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/ mets:dmdSec[@ID="issueModsBib"]/ mets:xmlData/mods:mods/mods:relatedItem/mods:part/mods:detail[@type="issue"]/mods:number
Issue Date	date	1908-03-21	Actual date issued, corrected if necessary. Use this particular <i>ISO 8601</i> style: YYYY-MM-DD.	NR	M	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/ mets:dmdSec[@ID="issueModsBib"]/ mets:mdWrap/mets:xmlData/mods:mods/mods:originInfo/mods:dateIssued Xml:xml[@TYPE="urn:library-of-congress:ndnp:batch"]/issue:issueDate PDF: rdf:Description/dc:title/ rdf:Alt/rdf:li PDF: rdf:Description/dc:description/ rdf:Alt/rdf:li JPEG2000: rdf:Description JPEG2000: rdf:Description/dc:title/ rdf:Alt/rdf:li JPEG2000: rdf:Description/dc:date/

						rdf:Seq/rdf:li mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"] @LABEL
Issue Present Indicator	string	Not digitized, published	Valid values are: Present; Not digitized, published; Not digitized, not published; Not digitized, publishing unknown. (Note: "Present" means Published and digitized).	NR	M	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"] /mets:dmdSec[@ID="issueModsBib"]/ mets:mdWrap/mets:xmlData/mods:mods/mods:note
Issue Present Comment	string	No issue published due to weather.	To record any additional known information indicated in film on missing issues.	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"] /mets:dmdSec[@ID="issueModsBib"]/ mets:mdWrap/mets:xmlData/mods:mods/mods:note/@displayLabel
Issue Date As Labeled	date	1908-03-21	If date printed was in error (not the date issued), this field reflects the incorrect date as printed. Include this field only if date printed was in error. Use this particular <i>ISO 8601</i> style: YYYY-MM-DD.	R	MA	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"] /mets:dmdSec[@ID="issueModsBib"]/ mets:mdWrap/mets:xmlData/mods:mods/mods:originInfo/mods:dateIssued[@qualifier="questionable"]
Page Information						
Section Label	string	B	If present, record as printed, to reflect logical Section navigation. (If not present, do not generate.) Could be blank, "C," "IV," "3," "Business," etc. If more than one Section heading per page, record dominant	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"] /mets:dmdSec[@ID="sectionModsBib1"]/ mets:mdWrap/mets:xmlData/mods:mods/mods:part/mods:detail[@type="section label"]/mods:number

			heading or combine headings (limit to approx. 6 words).			
Page Sequence Number	positive integer	13	This orders the pages within an issue, regardless of printed page number. See Page Number field below. This field is particularly useful for multi-section titles.	NR	M	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/mets:dmdSec[@ID="pageModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:part/mods:extent[@unit="pages"]/mods:start JPEG2000: rdf:Description
Page Number	string	B3	Exactly as printed. If not printed, element should be omitted. If not used, element should be omitted.	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/mets:dmdSec[@ID="pageModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:part/mods:detail[@type="page number"]/mods:number PDF: rdf:Description/dc:title/ rdf:Alt/rdf:li JPEG2000: rdf:Description/dc:title/ rdf:Alt/rdf:li
Page Physical Description	string	microfilm	Valid values: microfilm, microfiche, print.	NR	M	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/mets:dmdSec[@ID="pageModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:relatedItem[@type="original"]/mods:physicalDescription/mods:form TIFF: Tag 41728 (See NDNF TIFF profile for more information on acceptable values.)
Page Present Indicator	string	Present	Valid values are: Present; Not digitized, published; Not digitized, not published; Not digitized, publishing	NR	M	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/mets:dmdSec[@ID="pageModsBib1"]/mets:mdWrap/mets:xmlData/mods:mods/mods:note[@type="noteAboutReproduction"]

			unknown. Note: "Present" means Published and digitized.			
Page Present Comment	string	Best copy available	To record any additional known information indicated in film.	NR	O	mets:mets[@TYPE="urn:library-of- congress:ndnp:mets:newspaper:issue"] /mets:dmdSec[@ID="pageModsBib1"]/ mets:mdWrap/mets:xmlData/mods:mo ds/mods:note[@type="noteAboutRepro duction"]/@displayLabel
Reel Information						
Reel Number	string	375892205698	Reel number to correspond with LC barcode supplied for all duplicate microfilm reels deposited with LC. --Not mandatory if page is missing (even if page is represented by a target).	NR	MA	mets:mets[@TYPE="urn:library-of- congress:ndnp:mets:newspaper:issue"] /mets:dmdSec[@ID="pageModsBib1"]/ mets:mdWrap/mets:xmlData/mods:mo ds/mods:relatedItem[@type="original"]/ mods:identifier[@type="reel number"] mets:mets[@TYPE="urn:library-of- congress:ndnp:mets:microfilmReel"]/m ets:dmdSec[@ID="techTargetModsBib"]/mets:mdWrap/mets:xmlData/mods:m ods/mods:relatedItem/mods:identifier[@type="reel number"] Xml:xml[@TYPE="urn:library-of- congress:ndnp:batch"]/reel:reelnumber TIFF: Tag 269 PDF: rdf:Description/dc:identifier/ rdf:Alt/rdf:li JPEG2000: rdf:Description/ dc:identifier/ rdf:Alt/rdf:li
Reel Sequence Number	positive integer	1	This orders the records within a reel . Indicate position of the image within the microfilm reel sequence.	NR	MA	mets:mets[@TYPE="urn:library-of- congress:ndnp:mets:newspaper:issue"] /mets:dmdSec[@ID="pageModsBib1"]/ mets:mdWrap/mets:xmlData/mods:mo

						ds/mods:relatedItem[@type="original"]/ mods:identifier[@type="reel sequence number"] mets:mets[@TYPE="urn:library-of- congress:ndnp:mets:microfilmReel"]/m ets:dmdSec[@ID="techTargetModsBib"]/mets:mdWrap/mets:xmlData/mods:m ods/mods:relatedItem/mods:identifier[@type="reel sequence number"] TIFF: Tag 42016 PDF: rdf:Description/dc:identifier/ rdf:Alt/rdf:li JPEG2000: rdf:Description/ dc:identifier/ rdf:Alt/rdf:li
Object Format	string	Microfilm	Valid value (currently): Microfilm	NR	M	mets:mets[@TYPE="urn:library-of- congress:ndnp:mets:microfilmReel"]/m ets:dmdSec[@ID="targetModsBib"]/met s:mdWrap/mets:xmlData/mods:mods/m ods:relatedItem/mods:physicalDescripti on TIFF: Tag 41728 (See NDNP TIFF profile for more information on acceptable values.)
Tech Target Label	string	Preservation Microfilm Scanner Target PMT1	Valid value (currently): Preservation Microfilm Scanner Target PMT1 Contact LC staff if this value is not applicable for your project.	NR	M	mets:mets[@TYPE="urn:library-of- congress:ndnp:mets:microfilmReel"]/m ets:dmdSec[@ID="techTargetModsBib"]/mets:mdWrap/mets:xmlData/mods:m ods/mods:titleInfo/mods:title
Titles (on Reel)	string	Multiple examples: The national forum. (Washington, D.C.)	Combine MARC 245\$a and (260\$a) Or	NR	O	mets:mets[@TYPE="urn:library-of- congress:ndnp:mets:microfilmReel"]/m ets:amdSec/techMD[@ID="reelTechM D"]/mets:mdWrap/mets:xmlData/ndnp:r

		The Weekly roundabout. (Frankfort, Ky.) The Irish standard. (Minneapolis, Minn. ; St. Paul, Minn.) Svět = World. (Cleveland, Ohio)	Combine MARC 245\$a and (264\$a) [for RDA records] Or MARC 130\$a. (Use of the MARC 130 field is permitted only if the field is present and well-formed.) (If multiple MARC 260\$a fields are present, include all within parentheses and separate each with a space.) (If MARC 245\$b field is present, optionally include after MARC 245\$a separated with a space.) Use title that corresponds to the folder in which the reel XML file resides. Make note of multiple titles in “comments” element (below).			eelTechMD/ndnp:titles
Start Date	date	1881-11-22	Use this particular <i>ISO 8601</i> style: YYYY-MM-DD.	NR	O	mets:mets[@TYPE="urn:library-of- congress:ndnp:mets:microfilmReel"]/m ets:amdSec/techMD[@ID="reelTechM D"]/mets:mdWrap/mets:xmlData/ndnp:r eelTechMD/ndnp:startDate
End Date	date	1881-11-16	Use this particular <i>ISO 8601</i> style: YYYY-MM-DD.	NR	O	mets:mets[@TYPE="urn:library-of- congress:ndnp:mets:microfilmReel"]/m ets:amdSec/techMD[@ID="reelTechM D"]/mets:mdWrap/mets:xmlData/ndnp:r eelTechMD/ndnp:endDate
Position	string	2a	1a, 2a, 1b, 2b	NR	O	mets:mets[@TYPE="urn:library-of- congress:ndnp:mets:microfilmReel"]/m ets:amdSec/techMD[@ID="reelTechM

						D"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:position TIFF: Tag 274
Reduction Ratio	string	20x	If stated, transcribe. If not stated, estimate.	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:reductionRatio
Capture Resolution Original	string	300	Resolution relative to original material, measured in pixels/inch (or mm.).	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:captureResolutionOriginal
Capture Resolution Film	string	6000	Resolution relative to microfilm, measured in pixels/inch (or mm.). Capture Resolution Film = Reduction Ratio x Capture Resolution_Original.	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:captureResolutionFilm
Guide To Contents Present Flag	boolean	true	Valid values are "true" for present; "false" for missing.	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:guideToContentsPresentFlag
Guide To Contents String	string	Title established April 30...	If present, transcribe text from Guide to Contents, as it appears on film	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:guideToContentsString
Date Microfilm Created	string	1986	Date of microfilm creation	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:dateMicrofilmCreated
Loose Leaves Flag	boolean	false	For original material; Valid	NR	O	mets:mets[@TYPE="urn:library-of-

			values: true, false			congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:looseLeavesFlag
Bound Volume Flag	boolean	true	For original material; Valid values: true, false	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:boundVolumeFlag
Comments	string		Any general comments regarding the reel, duplication process, or content, etc. If listing multiple titles on the reel, include associated LCCNs and date spans of each title.	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:comments
Dimensions	string	17x23 in.	From original materials, if possible, or from N.W. Ayer & Son. N.W. Ayer & Son's American Newspaper Annual. Philadelphia : N.W. Ayer and Son, 1880-1909, or other sources.	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:dimensions
Pages Per Issue	positive integer	4	Estimate from microfilm, or from N.W. Ayer & Son. N.W. Ayer & Son's American Newspaper Annual. Philadelphia : N.W. Ayer and Son, 1880-1909, or other sources. See https://www.loc.gov/rr/news/news_research_tools/ayersdirectory.html	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:pagesPerIssue
Number Of Resolution Targets	positive integer	2	Refers to microfilming resolution targets.	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:numberOfResolutionTargets
Resolution Of	floating point	7.1	Resolution of original camera	NR	O	mets:mets[@TYPE="urn:library-of-

Master	number		master microfilm. Record actual number from line-pair resolution test pattern on film, if available.			congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:resolutionOfMaster
Resolution Of Master: Comments	string		Any comments relating to the resolution of the camera master microfilm	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:resolutionCommentMaster
Density Reading Master	floating point number	0.91	Ten readings per reel.	R	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:densityReadingMaster
Average Density Master	floating point number	0.95	The average density of the camera master microfilm	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:averageDensityMaster
Dmin Master	floating point number	0.2	The minimum density point on the camera master microfilm	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:dminMaster
Resolution Of Duplicate Negative	floating point number	6.3	Resolution of the duplicate negative used for digitization. Record actual number from line-pair resolution test pattern on film, if available.	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:resolutionOfDuplicateNegative
Resolution Of Duplicate Negative: Comments	string	Weak 7.1	Any comments relating to the resolution of the duplicate negative used for digitization	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:resolutionCommentDuplicateNegative
Density Reading	floating point	1.14	Ten readings per reel.	R	O	mets:mets[@TYPE="urn:library-of-

Duplicate Negative	number					congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:densityReadingDuplicateNegative
Average Density Duplicate Negative	floating point number	1.1	The average density of duplicate master negative used for digitization	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:averageDensityDuplicateNegative
Dmin Duplicate Negative	floating point number	0.15	The minimum density point on the duplicate negative used for digitization	NR	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xmlData/ndnp:reelTechMD/ndnp:dminDuplicateNegative