# NEW BRUNSWICK HISTORICAL NEWSPAPERS PROJECT

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Jeff Carter (Manager, Systems Group)









# SOMETHING FOR EVERYONE

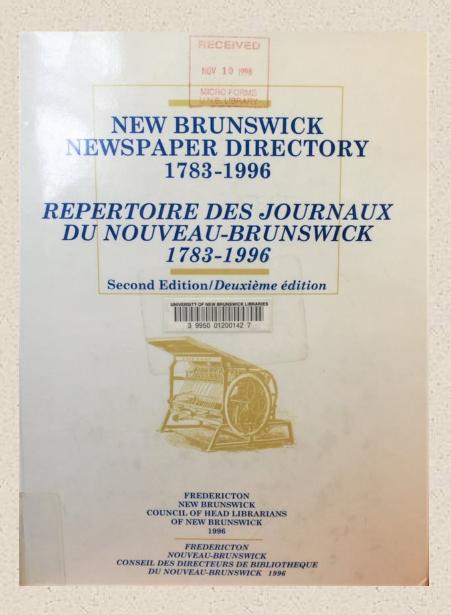
- Students
- Academics and researchers
- Public



# UNB COLLECTION

- World's largest New Brunswick newspaper collection is held at UNB Libraries
- Print and microfilm index online since 2009
- UNB has been **digitally** preserving newspapers since 2010 from print and microfilm

# NEWSPAPER DIRECTORY 1783-1996



- Collective effort starting in the 1980s to preserve newspaper heritage following Russell J. Harper's 1961 directory
- Second edition 1996, followed by a website







# LATEST LAST PROJECT ITERATION

Remember when microfilm was the future?

There will be no DVD release or Blu-ray box set

## Renewed Partnerships:

- Provincial Archives of New Brunswick
- Council of Archives New Brunswick
- Libraries, museums and local organizations

# NBHNP OBJECTIVES

- 1. Document and track publication history and existing holdings
- 2. Determine what material should be preserved and digitized
- 3. Provide access to content
  - digital (local fulltext) and linked
  - microfilm
  - print





# **FORMATS**

## WITHIN NBHNP



JUST PUBLISHED, In 32 pages 8vo. (small type) price One Shilling, And for Sale at the Star Office, at the Book-Stores of Mestre, Republis, and M. Millis, and ut Browne's Music Salcout-

FULL-LENGTH PORTRAIT

November 30,1824.

Miniature Almanack.

MAY 1825. Rises | Sets. s. S. SEA



March 1910

March 08, 1910 Volume 14 No. 203

The Daily Mail.



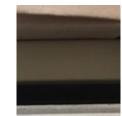
March 09, 1910 Volume 14 No. 204



March 10, 1910 Volume 14 No. 205



March 11, 1910 Volume 14 No. 206



The Daily Gleaner (Fredericton, NB)

y 3, 1956 - July 4, 1957

## April 1910

LL Persons having any legal demands against the Estate of Groone Fours, late of Swansulle, near Belfast, deveased, are requested to present the same sluly attended, within Srz Months from this date; and all those indested to said Estate are requested to make immediate payment to Louis and Carleton, March 29.

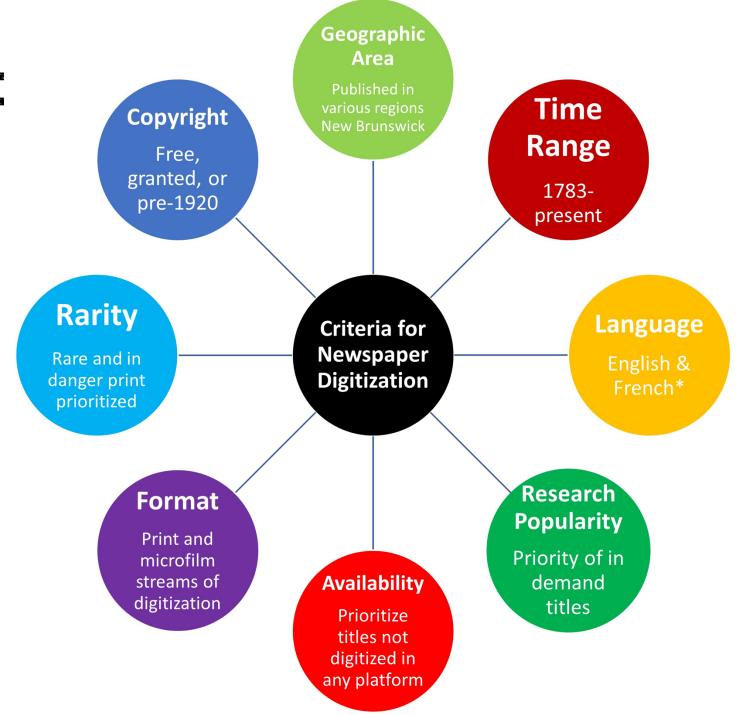
\*\*Carleton, March 29.\*\*

\*\*Administrator\*\*.





# CURRENT FOCUS: DIGITIZATION







# IS IT A NEWSPAPER?

- Current content
- Advertisements
- General interest topics
- Can included editorials and features
- Regular publication at shorter intervals
- Uses newsprint paper



# SELECTION AND COPYRIGHT

CRKN / Clark Wilson LLP Analysis

• **Pre-1913**: Low Risk

• 1913-1931: Moderate Risk

• Post 1931: High Risk

- Further "due diligence" questions to consider:
  - Is the publication still in circulation? Is the publisher still active?
  - Does the publisher have a history of trying to enforce copyright?
  - Is the publication being used in another commercial product?
- Titles and issues must be evaluated on a case-by case basis



# MATERIAL CONDITIONS



LIQUOR STEALING CHARGE WAS DISMISSED TODAY

> SERIOUSLY WOUNDED BY DISCHARGE OF RIFLE

Probably Another Fatality Near Parrsbore

the waters of the miles from Parrsboro yesterday after- steamer Monmouth is ket Wharf. He was shooting. Durning was some distance | defence. he girl standing on behind Davis when he slipped on some wharf. The officer ice, the gun he was carrying being ac-

ing inquiries into nother will be lo-

and made aware

ion, has taken up the President to Commit Hari-Kari.

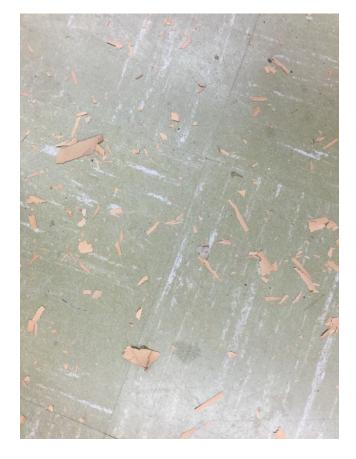
The Three Men, Amburg, Fulton and Campbell, Found Not Guilty of Taking Gin From

LASTERE

rosy cheeked girl, 19 AMHERST, N. S., April 1.—News has scaptured last night just been received here this morning George Campbell, Wm. Fulton and es while attempting of what may prove a fatal accident Joseph Amburg, who were arrested on by jumping off the which happened at Five Islands, ten suspicion of stealing gin from the noon. Austin Davis may lose his life. resumed in the police court this morn-nity of 11.30 o'clock Davis and another young man named ing. F. R. Taylor appeared for the happened to pa- Harold Durning were on the marsh prosecution and J. B. M. Baxter for the

under arrest and cidentally discharged, and the shot was discharged between eleven and ndering about and lodging in Davis' back. Davis was twelve o'clock; the officer in charge actory account of carried home, losing a great quantity thought all the liquor had been disof blood on the way. The bullet has charged when witness told him to be she came from been removed, and reports later say sure and on a search being made anthe patient is doing well as can be ex- other case of gin was found behind a couple of cases of furniture. Amburg did not say that he put the case of gin behind the crates, or that he put the bottle in witnesses' pocket. When witness returned to work at one o'clock Sunday afternoon the refrigerator doors were open and he saw no one around there. The crew go to dinner at one o'clock; some of them were working about the ship's hold all morning but he did not see any of them about the refrigerator. During the first hour secretary of the Depositors of Chiyoda Bank Request and a half in the afternoon witness was working in the lower hold, and then he returned to the refrigerator to Alex. McGinnis saw that the gin was

discharged in the morning and was



the floor after imaging



# FUN TINDS



The Frederic

TO THE PUBLIC.

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To accommodate Solderbear, being at a different is well as

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to in expedient their all pollege on Lesson will be puist by the wilder.

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PARTICULAR NOTICE.

THOSE Constants in Street Country, with where
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TO DELINOTENT MUSICAIDERS.

P Their Furhas who have noticed the Royal even for former days, exhibit-ploying a forting, the result of the same of George the Third, by the Orms of One, and the mid of so much.

YEEN STAM. Princing Con. Sc. Jules, (N. P.) and July, 1808.

BLANKS of various kinds may

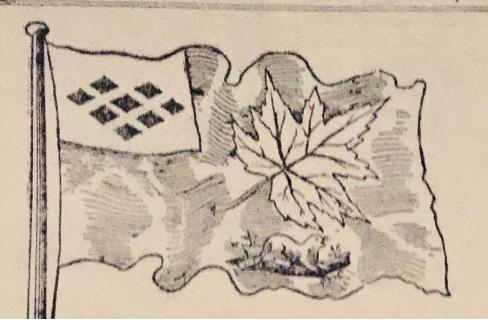
The only Paper in the World, so far as we know, Printed by a Men with the Fresh

# The Canadian Democrat.

Von 1 80 XII

FREDERICTON, N. B. MAY 1901

15 Crs. Pen Yvat, I Char a Copy



# BARKER HOUSE.

F. B. Coleman, Prop

QUEEN SI, FREDERICTON

Thoroughly up-to-date in every particular and fully abrewtof the Times.

Heatquarters for Tourish and Commercial Travellers.

## OR. ORGAN:

BERANCE ORGAN.

WRITY AND FIBELITY.

W. R. M. BURTIS, Esq Edi

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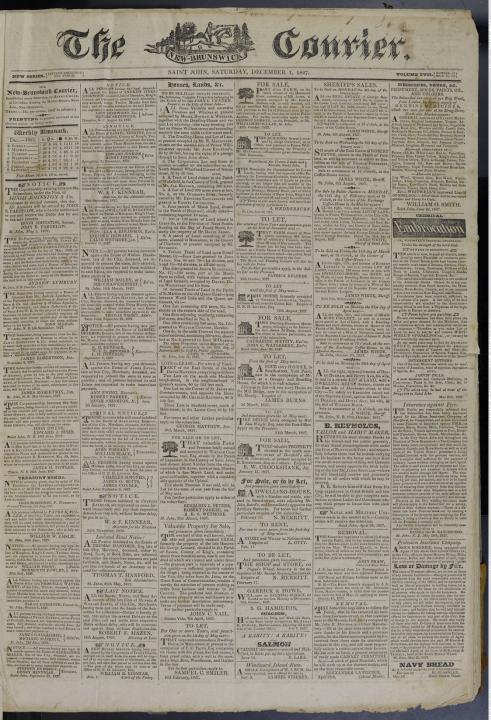
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where a sunbeam then?

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# PROJECT STATUS

- Most accurate index of New Brunswick newspapers over 1,100 titles from 1783 Royal St. John's Gazette and Nova Scotia Intelligencer to 2023 Fredericton Independent
- Updated holdings for most institutions
- 350+ new titles have been discovered and indexed
- Approx. 104 digitized fulltext titles with ongoing imaging
- Partnership with Canadiana/CRKN to share content
- Replaced New Brunswick Newspaper Directory on PANB website
- Users may send corrections or additions





# DIGITIZATION PROCESS



# DIGITIZING FROM PRINT

- Initially, Atiz Bookdrive Pro
  - two Canon 5D Mark II cameras.
- 2012 purchased a second Atiz unit
  - Nikon D800E cameras to be able to capture newspaper images at 300PPI
- 2021 UNBSJ purchased a Zeutschel Omniscan OS 12000 (A-1 paper size) to assist with newspaper digitization



# BRITISH PAPERS FEATURE SCANDAL

# SCANDALMAY WILL PLAY IN FOREIGN FIELD

London Paper Says It Has Altered Whole

### Dock Laborers in the Old Country Threaten

To Tie up Every Port hipping Companies Working Today With Fever-

ish Haste to Clear Cargoes Before the Blow Falls - Deadlock Has Existed Since February 1st - Little Hope of

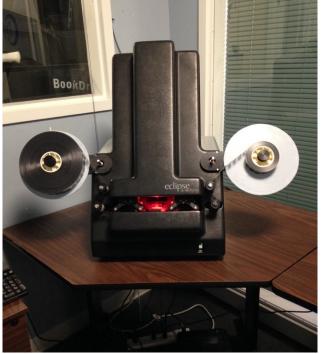
### R. B. HANSON, K.C., M.P., DEMANDS RETRACTION FROM GLEANER OR SUIT FOR LIBEL WILL BEGIN

Editorial Reference on Thursday Charging Him Followed by That Action—P. J. Hughes, K.C., Retained by Mr. Hanson—J. B. M. Baxter,

## MACDONALD

## SAYS IDEAS ARE VAGUE







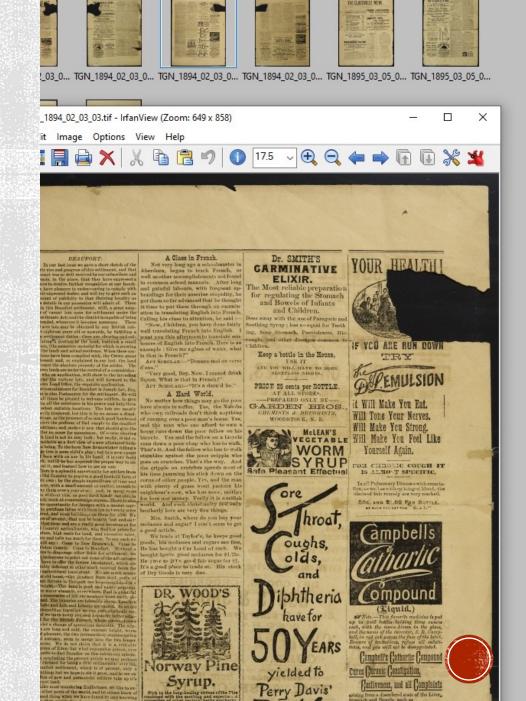
## DIGITIZING FROM MICROFILM

- 2014 Nextscan Eclipse microfilm scanner as part of BNI contract
- Completed 3 million pages of Brunswick News
   International material in just over 4 years
- Scanner replaced under warranty near the end of the project deliberation



# QUALITY CONTROL

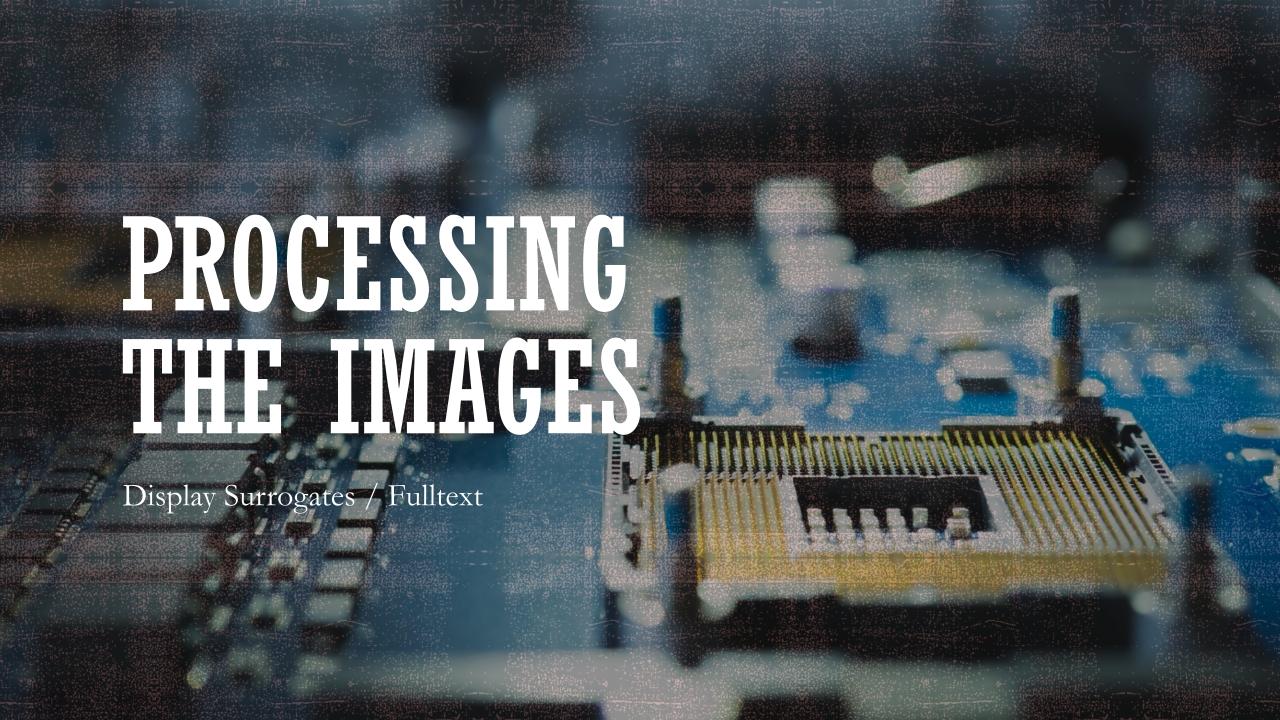
- Image quality enhancements
  - Cropping, rotating and scaling
  - Surrogate generation
  - Can be a bottleneck
- Directory/File structure for ingest
  - Parent folder for titles
    - Unique folder for each issue
      - Images named with page numbers



# IMAGE METADATA

```
"title": "The Christian Visitor",
   "volume": "35",
   "issue": "2",
   "edition": "",
   "date": "1882-01-11",
   "missing": "",
   "errata": "",
   "language": "eng",
   "media": "print"
}
```

- Issue level metadata:
  - Publication date
  - Title
  - Volume/Issue number
  - Alternative titles (supplement or section)
  - Errata



# POST-SCAN INGEST PROCESS

## **Custom Processing Workflow**

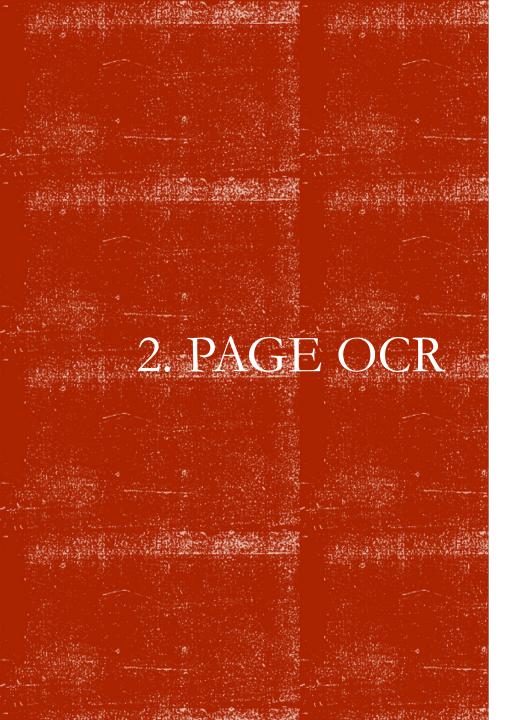
- PHP / Robo Framework
- 'Systems Toolkit'
  - https://github.com/unb-libraries/systems-toolkit

## Steps:

- Issue Discovery
- 2. Page OCR
- 3. Issue Creation, Page Ingest
- 4. DZI Tile Generation
- 5. PDF Generation
- 6. Issue Audit



- We begin with a tree of scanned issues in a standardized format.
  - Structure/Naming/Metadata.
- Search for all subfolders that contain a metadata file, which is assumed to be an issue's path.
- Search for all images in that folder and assume they are each pages from that issue.
- Check if each image has an associated .hocr file generated. If not, the image is queued for OCR with Tesseract in a later step.
  - We queue instead of OCR immediately to optimize core usage - some issues have a small number of pages. This would leave cores unused.
- Convert the metadata to JSON format for assertion to the Drupal REST API.



## OCR:

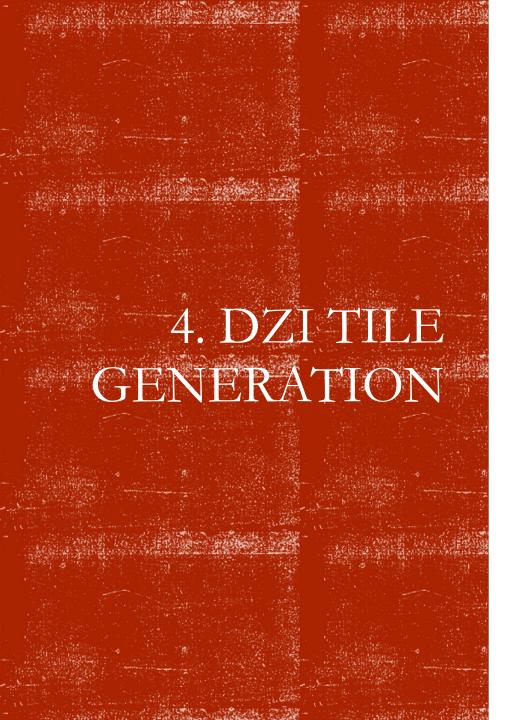
- Tesseract 5.x
  - https://github.com/unb-libraries/docker-tesseract
- Spawn 12-16 docker containers to simultaneously process pages (Based on PC hardware/cores).
- (Setting OMP\_THREAD\_LIMIT=1 showed a slight performance improvement vs scheduler).
- For efficiency, issues are not created via the REST API until all pages in the queue are complete.
- We store .hocr files with images in the tree.



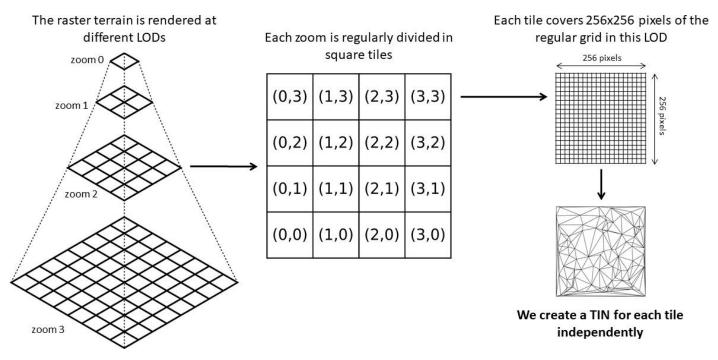
## Once the OCR is complete:

- We iterate over the issues and create them on the site via the Drupal REST API.
- Create the pages and attach them to the issue.

- Add OCR text to the Drupal page entities.
- For resiliency, we write a marker file inside the subfolder to indicate the issue has been ingested.

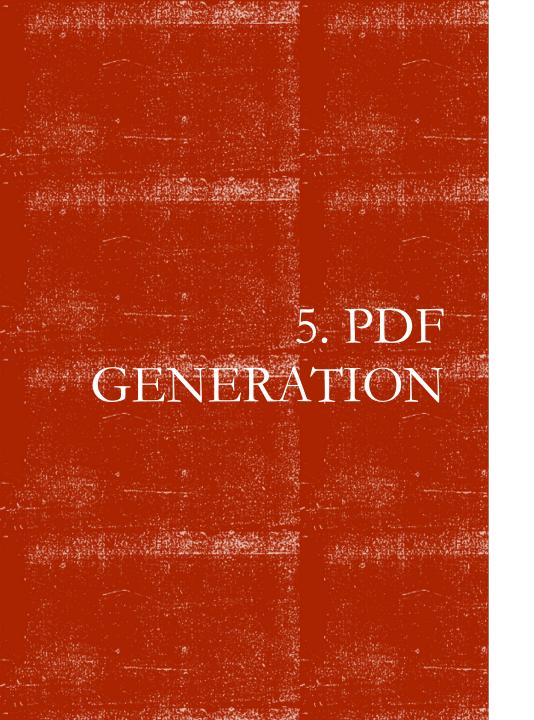


- The page viewer: OpenSeadragon
- DZI 'tiles' are then pre-generated to minimize bandwidth and user load times.
  - The user is only required to download enough of the image to see clearly at the current zoom.

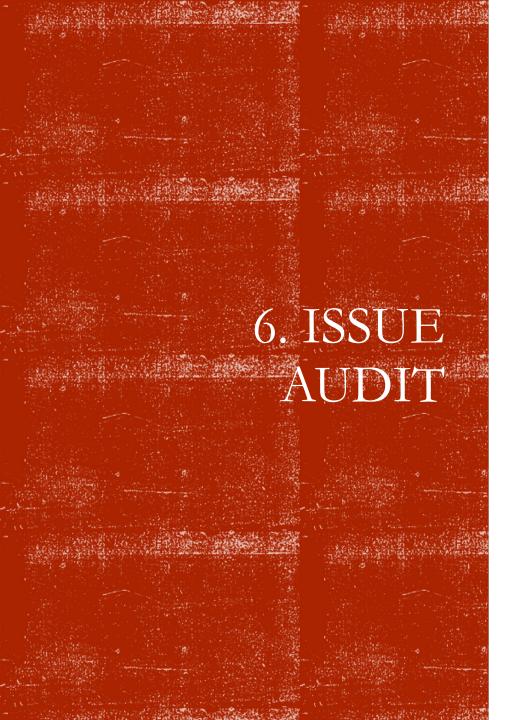


Remote Sens. 2020, 12(3), 437; <a href="https://doi.org/10.3390/rs12030437">https://doi.org/10.3390/rs12030437</a>

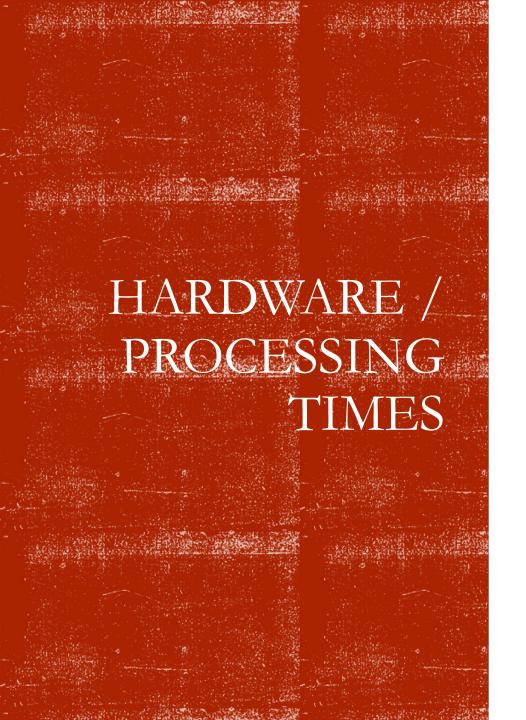




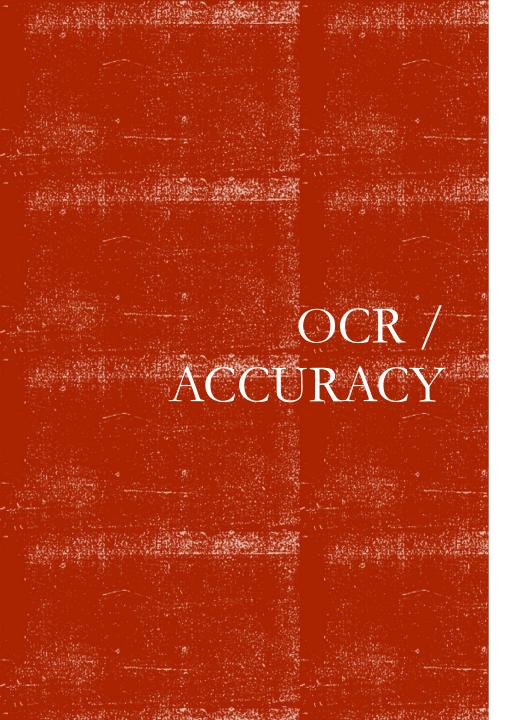
- PDFs are Generated using Tesseract
- Provides an OCR-rich download option.
- (Similar process to OCR.)



- Audit Metadata
- Hash remote images, compare to local files.
- Check page numbering
- Identify missing assets



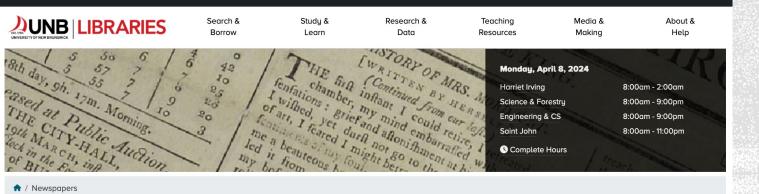
- Processor: Core(TM) i9-12900 (16 Cores)
- Memory: 64GB
- Multi-threaded processes set to use 12 threads.
- Average total ingest/dzi/pdf/audit time:
  - ~60s per page
- No Orchestration. Can scale horizontally to accommodate volume.



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46.346097	73681	16.93%	205	39.2923204	47583	1211	85.63841808	121264	1416
7.8809332	166193	413.64%	2002	73.22727273	35442	484	81.10820595	201635	2486
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1.0854314	-6229	-4.85%	-88	92.09801762	167250	1816	93.18344907	161021	1728
0.17330574	-1436	-0.71%	-21	92.51171477	272447	2945	92.68502052	271011	2924
3.3997221	155127	183.24%	1880	77.25925926	79268	1026	80.65898142	234395	2906
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0.65098150	28546	19.11%	322	84.59465875	142542	1685	85.24564026	171088	2007
0.753958190	-3424	-2.31%	-59	89.91738449	229649	2554	90.67134269	226225	2495
0.830418269	-2262	-1.78%	-54	87.70029674	265995	3033	88.53071501	263733	2979
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-1.3397669	-323	0.33%	1	89.64820847	27522	307	88.30844156	27199	308
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9.07006849	-2069	-11.19%	-350	77.92777245	243836	3129	86.99784095	241767	2779
-0.00396694059	-43637	-19.57%	-504	86.56504854	222905	2575	86.5610816	179268	2071
-1.10775775	-46490	-22.19%	-518	85.86546701	200410	2334	84.75770925	153920	1816
-1.5539593	-97108	-48.25%	-1128	84.42172797	197378	2338	82.8677686	100270	1210
0.90083377	-6239	-4.99%	-91	85.70597916	156242	1823	86.60681293	150003	1732
1.19831954	-27501	-19.93%	-376	77.95654478	147104	1887	79.15486433	119603	1511
4.68526610	138230	114.21%	1567	79.42565598	108972	1372	84.11092208	247202	2939
1.7100863	85498	38.77%	961	82.846309	205376	2479	84.55639535	290874	3440
-0.338937629	-1586	-0.82%	-12	91.04223433	133650	1468	90.7032967	132064	1456
1.0850372	149839	REMOVED	1651	89.46774194	27735	310	90.55277919	177574	1961
-1.13901118	883	4.29%	14	90.73312883	29579	326	89.59411765	30462	340
0.496893713	2499	0.36%	11	90.0843254	272415	3024	90.58121911	274914	3035
-0.20882063	1998	1.01%	28	92.24666426	255800	2773	92.03784363	257798	2801
22.234580	178318	REMOVED	1918	70.66666667	424	6	92.9012474	178742	1924
-1.9353306	-60888	-35.36%	-656	89.27978437	165614	1855	87.34445371	104726	1199
0.021920223	512	0.18%	5	90.14659498	251509	2790	90.16851521	252021	2795
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3.87		33.71%	307.25	Mean Extra Words					

Slight improvement if images are cropped to page content but can be very labour intensive.

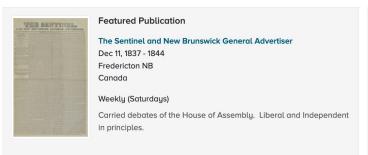




## New Brunswick Historical Newspapers Project

Ask Us 
 Search
 Search







**NBHNP** Partnerships





# WEBSITE

- Drupal
- Custom entities
- Solr search
- Custom UNB Libraries Bootstrap theme
- newspapers.lib.unb.ca
- https://github.com/unblibraries/newspapers.lib.unb.ca







# SEARCH

- 1. Title Metadata
- 2. Fulltext



# 1. SEARCHING BY TITLE

French (2)

Publication Year	Newspaper Title Search				
1877 1982	Keywords				
	Moncton 1932	O Browse/Search 1	Titles Show All Titles	s	
Country	Search by title, location, publisher, notes, description or combination. eg. Moncton 1932				
Canada (8)					
	Displaying 1 - 8 of 8 results				
Province/State	<b>♦</b> Title	Place of publication	First Issue		
✓ New Brunswick (8)					
	Moncton Transcript  Available: microform, online, print	Moncton NB Canada	1906-01-02	1982-12-31	
City/Locality					
Moncton (7)	Moncton Daily Times	Moncton NB	1932-01-20	1971-01-09	
Saint John (1)	Available: microform, online, print	Canada			
Holdings Type	The Pilot (Moncton, New Brunswick)	Moncton NB	1932-01-01 Unknow	Unknown	
☐ Print (6)	Available: print	Canada			
Online (5)	L'Evangalina (Manatan New Prunquisks 1905)	Moncton NB	1905-06-01	1937-07-29	
Microform (4)	L'Evangeline (Moncton, New Brunswick: 1905)  Available: microform, online, print	Canada	1905-06-01	1937-07-29	
Holdings Institution					
	Pythian Senator	Moncton NB	1923-01-01	1935-12-31	
UNB Libraries, Fredericton (6)  Moncton Public Library (4)		Canada	1877-08-11 1932-0		
Saint John Free Public Library (4)					
Bibliothèque Champlain (3)	Daily Times  Available: microform, print, online	Moncton NB Canada		1932-01-29	
Brunswick News Inc. (3)	Available. Inicrototti, print, online	Canada			
Moncton Museum (3)	Le Fermier gcadien	Moncton NB	1927-01-01	1962-12-31	
☐ Mount Allison Libraries & Archives (3)	20.000000000000000000000000000000000000	Canada	1027 01 01	.552 .2 5.	
Albert County Museum (2)					
Library And Archives Canada (2)	Educational Review	Saint John NB	1887-06-01	1970-12-31	
New Brunswick Museum Archives (2)	Available: online, print	Canada			
+ Show All					
Language					
□ English (6)					

Holdings Institution			
UNB Libraries, Fredericton (588)			
New Brunswick Museum Archives (249)			
Library And Archives Canada (206)			
Saint John Free Public Library (164)			
Canadiana By CRKN (162)			
☐ Mount Allison Libraries & Archives (114)			
UNB Libraries, NB Historical Newspapers Project (99)			
Bibliothèque Champlain (48)			
Legislative Library Of New Brunswick (41)			
Google News Archives (40)			
Kings County Historical Society (40)			
Charlotte County Archives (32)			
UNB Libraries, Saint John (24)			
☐ Brunswick News Inc. (23)			
Fredericton Public Library (23)			
Grand Manan Archives (19)			
Chatham Public Library (18)			
Moncton Public Library (17)			
Library Of Congress (16)			
Moncton Museum (14)			
Réseau Des Échos Du NB (13)			
Campbellton Centennial Library (7)			



# 

## The Saint John Gazette and General Advertiser (1799)

#### Details

#### **Dates of Publication:**

Mar 29, 1799 - Jul 4, 1803

#### Place of Publication:

Saint John NB

Canada

#### Frequency:

Unknown (weekly?)

### Earlier title:

Continues The Saint John Gazette and the Weekly Advertiser (1786)

#### Later title:

Continued by The Saint John Gazette (1803)

#### **Broad Title History:**

(This includes all related titles and supplements and the publication dates of each)

☐ Broad Title History Map

- Royal St. John's Gazette and Nova Scotia Intelligencer (Saint John, New Brunswick: 1783) Dec 18, 1783 1784
- The Royal New Brunswick Gazette and General Advertiser 1784 1785
- The Royal New Brunswick Gazette and Weekly Advertiser 1785? 1785?
- Royal Gazette, and New-Brunswick Advertiser (Saint John, New Brunswick: 1785) Oct 11, 1785 Nov 24, 1802
- The Saint John Gazette and the Weekly Advertiser (1786) 1786 Mar 29, 1799
- → The Saint John Gazette and General Advertiser (1799) Mar 29, 1799 Jul 4, 1803
- The Royal Gazette (Saint John, New Brunswick: 1802) Dec 1, 1802 Dec 31, 1807
- The Saint John Gazette (1803) Jul 9, 1803 Dec 28, 1807
- The Royal Gazette and New Brunswick Advertiser (Saint John, New Brunswick: 1808) 1808 1814
- . The Pougl Gazette (Saint John New Brunswick: 1814) 1814 Mar 1815



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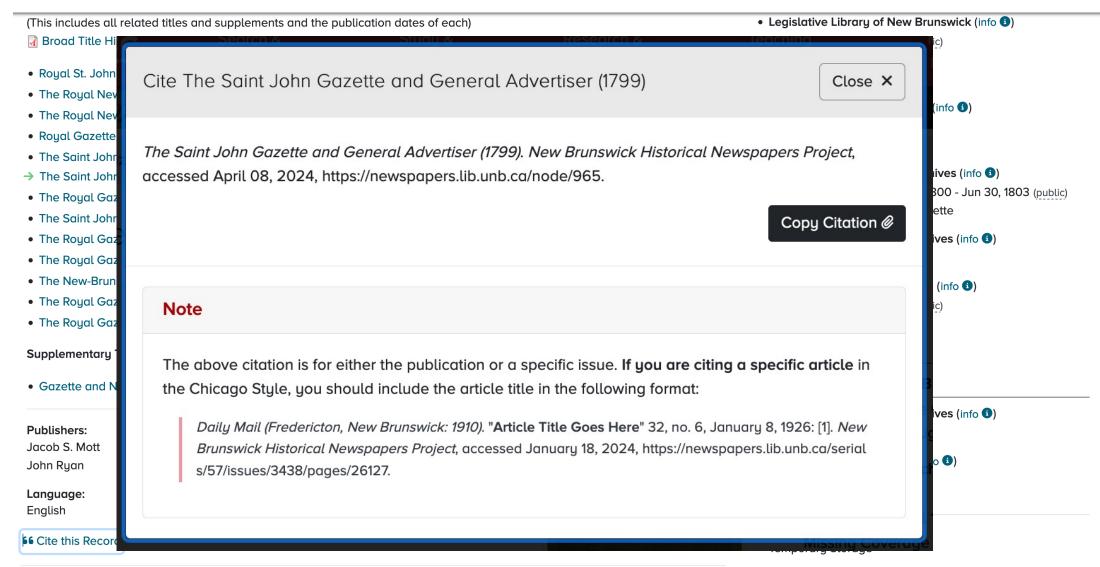
#### Online:

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   1 Issues Available Online
   Aug 29, 1800 Aug 29, 1800
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   MAMF, filed as Saint John Gazette
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- Saint John Free Public Library (@ info)
   Mar 29, 1799 Jul 4, 1803 (public)
   2nd Floor





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# 2. FULLTEXT SEARCHING

## **Publication Date** 1804 1939 **Publication Title** Daily Mail (Fredericton, New Brunswick: 1910) (1831) Dispatch (931) Miramichi Advance (713) Christian Visitor (648) Evening Times (638) The Daily Herald (576) Maritime Farmer (Fredericton, New Brunswick: 1879) (500) The Gleaner: And Northumberland, Kent, Gloucester And Restigouche Commercial And Agricultural Journal (439) Progress (Saint John, New Brunswick: 1888) (353) Review (Richibucto, New Brunswick) (288) + Show all

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The Gleaner: and Northumberland, Kent, Gloucester and Restigouche Commercial and Agricultural Journal: 1851-07-07 (Vol. 10, Issue 37)

... MecLaughlan, for refusing to assist the said Donald McLaughlan, a hog-reeve, to secure a hog at large on the 16th June, contrary to the Regulations of General ...

## Review (Richibucto, New Brunswick): 1901-01-24 (Vol. 12, Issue 24)

... Little. Boom Masters—John Murray, Robert . McCray, Wm. Keswick. **Hog Reeve**s and Pound Keepers—Dan- iel Maillet, Joseph Mitchell, Amos Ward, ... Sarveyors of Dams—Wm. G. Cameron, Samuel Briggs, Michael Swift, **Hog Reeve**s—Joseph Lamb, Andrew Melntosh, Zozeme Arsinault. Measurers ...

## Review (Richibucto, New Brunswick): 1902-02-06 (Vol. 13, Issue 24)

... Wry. Surveyors of Dams—Wm. G. Cameron, Samuel Briggs, Michael Swift, **Hog Reeves**—Joseph Lamb, Andrew Mcintosh, Z zeme Arsinault, Measurers of ... Joseph Little "Boom Masters—John Murray, Robert McCray, Wm. Keswick. **Hog Reeve**s and Pound Keepers— Daniel Maillet, Joseph Mitchell, Amos ...



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## Daily Mail (Fredericton, New Brunswick: 1910) - Digital Issues

1 You may swipe or click drag issues horizontally to quickly navigate through days of a month

## May 1939



**May 16, 1939** Volume 45 No. 112



Volume 45 No. 111



**May 12, 1939** Volume 45 No. 109



**May 11, 1939** Volume 45 No. 108



**May 10, 1939 May 09, 1939** Volume 45 No. 107 Volume 45 No. 106

### April 1939



**April 28, 1939** Volume 45 No. 97



**April 27, 1939** Volume 45 No. 96



**April 26, 1939**Volume 45 No. 95



**April 25, 1939** Volume 45 No. 94



**April 24, 1939** Volume 45 No. 93



**April 20, 1939**Volume 45 No. 90



# **OPENSEADRAGON**

Daily Mail (Fredericton, New Brunswick: 1910): 1910-03-10 - Page 1

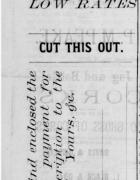
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# FULLPAGE METADATA



LOW RATES the grass crop. Very naturally, spoonful of the root, the mornings of the seeding alone proves much more than the seeding alone proves much m in quality is perceived a very results. Because it or ten drops of high rate of production can be unique and in the profitably used than any other stock, and the profitably used than any other stock, and it is one profitably used than any other stock, and it is one profitably used than any other stock, and will do more good. Any one disposed it is to give such doses can satisfy himself arainst the stalks. Grass in the pass.

deficient than seeding after planting figures are made quickly. They are also direct and aure. The move are also direct and aure. The move about not a pure that a bucklet of water, and the country land brought under outlevation, has a country land brou down in a few days and died for want these islands; but in looking at the science nave to against the stable. I have great prosperity which this has ingrass. Under the common system

as she was kept in the stable. I have

On two fields, millst was sown with dueed, it must not be forgotten that these foreign meat. It has become Put on the honey boxes and give where they cannot play off their of raising corn and then oats or rys, heard of cattle being deprived of the barley, and even this hot weather the stimulus given from Europe in almost impossible for a man, without them vontilation, if they are inclined pranks on the unsuspecting farmer or before the grass is got in there can be made for a weak, under like circumbe no permanent moving lots. But stances, but where they seem to be no means of fall seeding, grass-scan be doing all right I like to give them a refused to grow. A considerable numbad to submit. A cycle of good har
the stimulus given from narope in plants on the universal prants of the sample. The plants of the plant has rolled its leaves like corr recent years have been due to the universal prants of the grown year after year, good crops can little. In neither of the cases report- her have aimed to make the experi- vests in Europe would probably, at crops, and with a growing burden of the secured, and the land remain under the second report the rave aimed to make the experi- test in Europe to the American taxation, to hold his own against such impaired. The quality, as well as age of the flow of nilk, though they a late soiling crop, for the first time, agriculturists to free trade. - English odds. - London Echo. impared. It is a specific to the low of mins, though the capacity of the hay crop can give very little white getting no feed easily be kept up to a high standard, and little water. I hope any one so only be unsuccessful, but that they if the fields are plowed and seeded unfortunate as to be obliged to have a little water. If the fields are plowed and seeded unfortunate as to be obliged to have a little water. I hope any one so only the unsuccessful, but that they are little water. I hope any one so only the unsuccessful, but that they are little water. I hope any one so only the unsuccessful, but that they are little water. I hope any one so only the unsuccessful, but that they are little water. I hope any one so only the unsuccessful, but that they are little water. I hope any one so only the unsuccessful, but that they are little water. I hope any one so only the unsuccessful, but that they are little water. I hope any one so only the unsuccessful, but that they are little water. I hope any one so only the unsuccessful, but that they are little water. I hope any one so only the unsuccessful, but that they are little water. I hope any one so only the unsuccessful, but that they are little water. I hope any one so only the unsuccessful, but that they are little water. I hope any one so only the unsuccessful water water water little water. I hope any one so only the unsuccessful water water little water. I hope any one so only the unsuccessful water little water. I hope any one so only the unsuccessful water water little water. I hope any one so only the unsuccessful water little water. I hope any one so only the unsuccessful water little water little water. I hope any one so only the unsuccessful water little water li again, just as soon as the slightest resource to some stein measures will failure as to neglect making other

A writer on sheep hustandry in failure as to neglect making other A correspondent of the North British the south, says: To utilize the measures will failure as to neglect making other vantage over the practice of milking Jiminution in quantity or deteriors give the above a trial and report the similar experiments in the future.

A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south, says: To utilize the mea. A correspondent of the North British the south the North British the give the above a tran and report the similar experiments in the tuture. Agriculturist, who has of late years dow and pasture, sheep can be more and study of the state of another translation can be more and study of the state of another translations. Because its or ten drops of With us the drought has been very lost several foals after weaning, have profitably used than any other stock, due potatices into. All kinds of fruits, an experiment with three milkings a

Sheep on Every Farm.

A correspondent of the Country Gentleman, who has had fifteen years experience, writes on the way to keep of frequent milking are summed up potatoes as follows :-

finement to hard work.

FREQUENT MILKING.—The benefits by a French dairy paper, as quoted in

### Issue Details

Publication Title	The Agriculturalist
Printed Title	The Agriculturist
Volume / Issue Number	Volume 2, No. 22
Date	1879-09-06
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- Mapping publications by town/city and county
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