Web Harvesting the Government of Canada sites

A Collaborative Effort

Sam-chin Li Tom Smyth Amanda Wakaruk Web sites are collected via software that downloads code, images, documents, and others files essential to completely and faithfully reproduce the web site at the time of capture.

International Internet Preservation consortium

What is Web Harvesting

The web is often the only source for government information.

Web archives keep important records of the government and ensure democracy for now and for the future.

Why harvesting Government web sites

March 2013

- Reduce Redundant, Outdated and Trivial Content (ROT Criteria)
- GoC Web Convergence Plan
- UofT starts to archive GoC web content

Background

A URL appearing in a seed list as one of the starting addresses a web crawler uses to capture content. Also called a targeted URL.

Archive-IT glossary

What is seed?

 Government of Canada Departments, Agencies, Crown Corporations, Special Operating Agencies and various affiliated organizations.

One time onlyDaily and Semiannually

Separate seeds for important resources

Scope and Frequency



Home > About Government > Departments and Agencies

Departments and Agencies

This page provides an alphabetical listing of links to Government of Canada Departments, Agencies, Crown Corporations, Special Operating Agencies and various affiliated organizations.

If the name of the organization you are looking for is not listed, try consulting the *<u>Financial Administration Act</u>*. It contains information on all current Government of Canada departments, agencies, Crown corporations and special operating agencies, and also includes a listing of organizations that no longer exist or that have been privatized.

A B C D E F G H I J K L M N O P Q R S T V V W X Y Z

А

- Aboriginal Affairs and Northern Development Canada
 - First Nations Statistical Institute
 - Indian Oil and Gas Canada
 - Indian Residential Schools
- Agriculture and Agri-Food Canada
 - <u>Canadian Biodiversity Information Facility</u>
 - <u>Canadian Pari-Mutuel Agency</u>
- Assisted Human Reproduction Canada
- Atlantic Canada Opportunities Agency

Seed List based on this Page

We started too late!

Many contents have already disappeared from the Web!

March 2013

INTERNET ARCHIVE			
UayBack Machine	http://www.gc.ca/depts/major/depind-eng.html	Go	Searc
About Canada	A <u>91 captures</u> 01 23 Dec 07 - 12 Aug 13		2012 2013 2014

Departments and Agencies

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A

- Aboriginal Affairs and Northern Development Canada
 - First Nations Statistical Institute
 - o Indian Oil and Gas Canada
 - Indian Residential Schools
- Agriculture and Agri-Food Canada
 - Canadian Biodiversity Information Facility
 - Canadian Pari-Mutuel Agency
- Assisted Human Reproduction Canada
- Atlantic Canada Opportunities Agency
- Atlantic Pilotage Authority
- <u>Atlas of Canada</u> Natural Resources Canada
- <u>Atomic Energy of Canada Limited</u>
- <u>Auditor General of Canada, Office of</u>

Solution: Wayback Machine

June, 2013

- Checked the gaps in the Wayback Machine GoC Harvest
- Crawled the gaps
- Purchased the content
- Moved it to UofT Archive-IT account

Strategy Changed

Library and Archives Canada www.collectionscanada.gc.ca					
	ome Contact Us Help Search canada.gc.ca				
<u>Home</u> > <u>Government c</u>	of Canada Web Archive > Versions				
Introduction	Government of Canada Web Archive				
Search	Versions				
Basic Search	URL: http://www.acst-ccst.gc.ca				
Advanced Search	<u>2005-12-22</u>				
Department List	- <u>2005-12-22</u> 2006-01-17 2006-01-26				
URL List	<u>2006-01-26</u> 2006-10-26				
Help	<u>2006-10-30</u> 2006-10-30				
FAQ	<u>2007-11-16</u>				

Purchased Wayback Machine Harvest from

December 2007 – March 2013

ARCHIVE-IT	Archived since: Mar, 2013 Description: A collection of Canadian government websites Subject: <u>Government</u> Collector: <u>University of Toronto</u> Notes: <u>Asterisk (*) beside dates indicates new content has been archived since previous capture.,</u> Search features in databases not working. Use "browse" or "list" options to access content.				
Narrow Your Results	Sites for this collection are listed below. Narrow your results at left, or enter a search query below to f specific URL or to search the text of archived webpages.				
Subject Sort By: Count (A-Z)	Enter search terms here Search				
Justice, Administration of (4) Criminal justice, Administration ofCanada (3) Emigration and immigrationCanada (3) Environmental protection (3) Finance, public (3)	Sites Search Page Text Page 1 of 3 (279 Total Results) Next Page				
CreatorSort By:Count(A-Z)Natural Resources Canada (10)Canadian Heritage (8)Library and Archives Canada (8)Department of National Defence and theCanadian Armed Forces (7)Department of Justice (6)	Sort By: Title (A-Z) Title (Z-A) URL (A-Z) URL (Z-A) Title: Agriculture & Agri-Food Canada URL: http://agr.gc.ca/ Captured 191 times between Dec 2, 2007 ind Aug 13, 2013 Subject: Agriculture, Food Production Creator: Agriculture & Agri-Food Canada Language: English, French				
More V	Title: The Atlas of Canada				

Archive-IT: University of Toronto

Canadian Government Information Web Archive (University of Toronto)



ARCHIVE-IT

Enter Web Address: http://	All 💌 🛛 Take Me Back	
Searched <mark>for <u>http://agr.gc.ca/</u></mark>		191 Results <u>RSS</u> <u>Me</u>
Look up URL in general Internet Archive web collection		Proxy Mod

* denotes when page was updated

	Found 191 Captures between Dec 2, 2007 - Aug 13, 2013							
2007	2008	2009	2010	2011	2012	2013		
1 page	48 pages	12 pages	3 pages	15 pages	12 pages	100 pages		
<u>Dec 2, 2007</u> *	<u>Feb 16, 2008</u>	<u>Jan 29, 2009</u>	<u>Feb 13, 2010</u>	<u>Jun 5, 2011</u>	Feb 4, 2012	<u>Jan 13, 2013</u> *		
	<u>Feb 19, 2008</u>	<u>Feb 6, 2009</u>	<u>Oct 7, 2010</u>	<u>Jul 6, 2011</u>	Feb 5, 2012	<u>Jan 14, 2013</u> *		
	<u>Feb 27, 2008</u>	<u>Feb 7, 2009</u>	<u>Dec 14, 2010</u>	<u>Jul 9, 2011</u>	<u>Feb 6, 2012</u>	<u>Mar 12, 2013</u>		
	<u>Mar 8, 2008</u>	<u>Feb 25, 2009</u>		<u>Aug 5, 2011</u>	Feb 15, 2012	<u>May 9, 2013</u>		
	<u>Apr 6, 2008</u>	Feb 25, 2009		Aug 7, 2011	Feb 18, 2012	<u>May 15, 2013</u>		
	<u>Apr 8, 2008</u>	Feb 26, 2009		<u>Aug 11, 2011</u> *	<u>Apr 10, 2012</u>	<u>May 16, 2013</u>		
	Apr 14, 2008	<u>Mar 4, 2009</u>		Aug 24, 2011 *	<u>Apr 15, 2012</u>	<u>May 19, 2013</u>		
	May 27, 2008	<u>Mar 14, 2009</u>		Aug 25, 2011	<u>Jun 26, 2012</u>	<u>May 22, 2013</u>		
	<u>Jun 27, 2008</u>	<u>Mar 18, 2009</u>		<u>Sep 2, 2011</u>	<u>Jun 30, 2012</u> *	<u>May 22, 2013</u> *		
	<u>Aug 9, 2008</u>	<u>Mar 25, 2009</u>		<u>Sep 24, 2011</u>	<u>Jul 28, 2012</u> *	<u>May 22, 2013</u> *		

UoT Archive IT: Two Collections Combined Seamlessly

ing an archived web page, collected at the request of <u>University of Toronto</u> using <u>Archive-It</u>. This page was capture 04, 2013, and is part of the <u>Canadian Government Information</u> collection. The information on this web page may be date. See <u>All versions</u> of this archived page.

	Ivernement Canada	Canadä
news re pro-	Canada News Centre news.gc.ca	e dia adviso e speech
Français Hor Home	ne Contact Us Help	Search canada.gc.ca
Category News Releases Media Advisories Warnings and Advisories Speeches and Statements Views National News		Search Search Advanced search Stay in Touch Customize Your Feed RSS News Feeds News Wireless Portal
News by Region News by Audience Economic Action Plan Resources Media Contacts Canada Gazette	16:10 ADT (Thursday, Oct 03, 2013) HEROIN AND OTHER DANGEROUS DRUGS ARE FROM HEALTH CANADA'S SPECIAL ACCESS PROGRAMME - GOVERNMENT OF CANADA PU SAFETY AND SECURITY OF CANADIANS FIRS FOCUSES ON TREATMENT AND RECOVERY Joined by doctors, health experts, Canadians w	#eap13

Example of an archived page: Canada News Centre

Select sites

- Crawl test to identify the scope
- Schedule the frequency
- Harvesting
- Quality Assurance
- Patch crawls
- Create metadata

Workflow

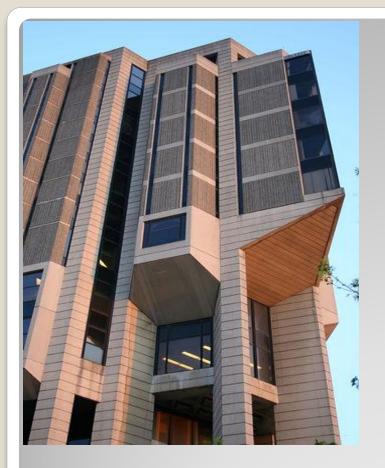
Seed Selection & Quality Assurance

How can we make sure the important content is archived in a such **short timeframe** ?



URLs Recommended by subject specialists: • 46

Libraries Volunteered their time: • Industrial Relations & Human Resources • OISE Library community involvement



Seeds

 Captured: 146

 Transferred from Global Wayback: 418

http://www.archive-it.org/collections/3608

University of Toronto Archive-IT

Sam-chin Li, Government Information Librarian

- Don McLeod, Archive-IT account coordinator at UofT
- Nicholas Worby, Graduate
 Student Library Assistant

The Team

Due to the Federal government shutdown, usgs.gov and most associated web sites are unavailable. Only web sites necessary to protect lives and property will be maintained.

- Ecosystems
 - Disease Maps
- Natural Hazards
 - Earthquakes
 - Volcanoes
 - Erosion Hazards
 - Landslide Hazards
 - GeoMagnetism Program
- Water

Please see doi.gov for more shutdown information.

"Announcing the first ever Archive-It US Government Shutdown Notice Awards!"

Archive-IT Blog http://blog.archive-it.org/2013/10/11/announcing-the-first-ever-archive-it-us-government-shutdown-notice-awards/

Web Content Precarity

- 1996: Internet Archive founded and starts web harvesting activities
- 2001: Wayback Machine launches
- 2002: First release of Heritrix (web crawler)
- 2003: International Internet Preservation Consortium (IIPC)
- 2006: Archive-It, one of the first web archiving services
- 2009: WARC file, format generated by Heritrix, becomes an ISO standard
- 2009: University of Alberta Libraries (UAL) starts web harvesting with Archive-IT

Adapted from Scott Reed's slides: Wakaruk, Lau, Reed, "Community Tools and Best Practices for Harvesting and Preserving At-Risk Web Content." Association of Canadian Archivists, June 2013 <u>http://hdl.handle.net/10402/era.32072</u>

Web Harvesting

Current Status (October 2013)

- 13 collections, > 67 million documents crawled (3.6 TB), ~600 active seeds, >1700 websites: ~50-60 are gc.ca
- government web content distributed across multiple collections: e.g., Energy & Environment, Health Sciences Grey Literature, Idle No More, Circumpolar, Government Information Collection (~133 seeds, mostly Alberta)

Web Harvesting at UAL 2013

UAL Collection Development Committee Born Digital Working Group (2009-2014)

- Leads the Libraries' direction related to born digital collections.
- Members: AUL, Collections Manager; Librarians: Digital Initiatives, Digital Repository Services, Metadata, Govt Info, Circumpolar, Business, Humanities and Social Sciences

Policies and Procedures

- Policy and Procedures for Born Digital Collections
- Metadata and Cataloguing Policy
- Web Archiving Guidelines (2): Selectors and Collection Managers
- Web Archiving Policy; Web Archiving Agreement

Governance and Workflow

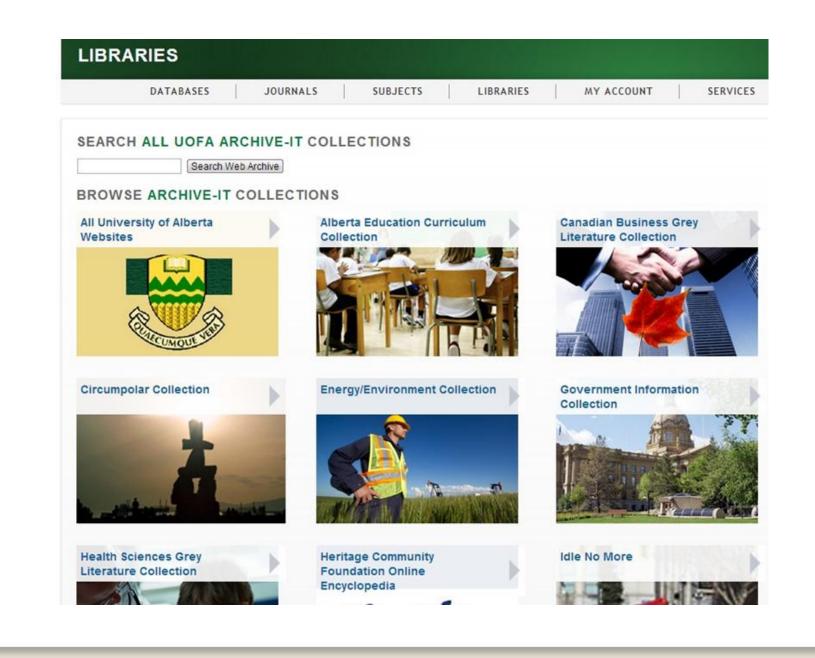
ACCESS: contents will be made publicly available OWNERSHIP: remains with the website owner AUTHORIZATION: we cannot authorize re-use

TAKE-DOWN: we will evaluate requests from content owners to remove content

LIABILITY: we will not be held liable for actions of website owners

http://www.library.ualberta.ca/webarchive/

UAL Web Archiving Policy (excerpts)



Conta	ins all of:
Exac	t phrase:
Not	containing:
	the Host
ex. v	www.archive-it.org
	ts per host: efault) 💽
File fo	ormat:
All fo	ormats 🗨
Capti From To:	re date range:
	ctions: iniversity of Alberta Websites
	lberta Education Curriculum
	ction/Collection Pédagogique
	ICF Alberta Online Encyclopedia
	rairie Provinces Politics & Econo
	ircumpolar Collection
	overnment information Collectio
-	Veb Archive - General
	nergy/Environment Collection
	anadian Business Grey Literature
Colle	
62002	ealth Sciences Grey Literature
Colle	
	lumanities Computing
	die No More

Search Page Text

Page 1 of 9,723 (194,454 To

Next Page +

Sort By: Best Match

Alberta Energy: About Oil Royalties

Collection: Government Information Collection URL: http://www.energy.alberta.ca/Oil/771.asp

This text was captured on Oct 24, 2011 Show All Captures

Alberta Energy: About Oil Royalties Skip To Navigation Skip To Content Using this Site Contact Us Search Alberta.ca > Energy Home > Our Buinness > Oil > Royalty Information > About Royalties About Us... System Information Letters Feed Back Comments and Questions Website feedback About Oil Royalties... in Kind Subscription to this page Historical Royalty Data Joint Industry Alberta Energy Crown Oil and... Posted June, 2010, effective January 1, 2011 Alberta Royalty Framework formulas Oil Alberta Royalty Framework formulas Natural Gas Alberta Royalty Framework Oil Graphs Alberta Royalty Framework Natural... Investment Phase 1 Competitiveness Review News Release - Alberta delivers on oil and gas competitiveness (March 11, 2010) Energizing Investment A Framework to Improve Alberta's Conventional Oil and... Content: text/html Size: 34 KB

More Results from energy.alberta.ca

NDP calls for new review of oil royalties :: News Releases :: Alberta's New Democrats

Collection: Prairie Provinces Politics & Economics

URL: http://albertandp.ca/news/details/ndp_calls_for_new_review_of_oil_royalties This text was captured on Oct 25, 2012 Show All Captures

NDP calls for new review of **oil royalties** :: News Releases :: **Alberta**'s New Democrats Home News Our... calls for new review of **oil royalties** February 05, 2008 **Alberta** NDP Leader Brian Mason today traveled to the site of **Alberta**'s first major **oil** strike, which led to the province's present prosperity. to highlight the importance of **oil** and gas to the province and call for a new royalty system. "**Oil** and gas created most of the wealth of **Alberta**," said Mason, "So it's important to get the royalty scheme... not given **Alberta** Energy documents showing **royalties** could go up much higher without hurting the... whether or not an Alaska level of **royalties** is appropriate for **Alberta**. "The Conservatives tried to... about 20% - giving their political donors in the **oil** patch a\$4 billion gift." "**Alberta** needs more...

Content: text/html Size: 16 KB

More Results from albertandp.ca

NDP to raise royalties on oil - Alberta Votes 2012 - CBC News

Collection: Prairie Provinces Politics & Economics

URL: http://www.cbc.ca/news/canada/albertavotes2012/story/2012/04/02/albertavotes2012-ndpoilsands-royalties.html

This text was captured on Apr 02, 2012 Show All Captures

NDP to raise **royalties** on **oil** - **Alberta** Votes 2012 - CBC News Accessibility Links Skip to main content Skip to NDP to raise **royalties** on **oil** Skip to supplementary story content Skip to related news... Health Arts & amp; Entertainment Technology & amp; Science Community Weather Video Canada Edmonton **Alberta** Votes 2012 Vote Compass Divisions NDP to raise **royalties** on **oil** Mason would require new oilsands projects to upgrade in **Alberta** CBC News Posted: Apr 2, 2012 2:00 PM MT Last Updated: Apr 2, 2012 2:14 PM... **royalties** on **oil** The NDP said it will hike **royalties** and force all new oilsands projects to upgrade... require all new oilsands developments to upgrade bitument in **Alberta**. (CBC) Related Story Content Accessibility Links The NDP said it will hike **royalties** and force all new oilsands projects to upgrade...

Help with Search

Metadata Needs Assessed on Collection Basis

Mixed model of metadata:

- Traditional document level: <u>full, brief, use warrant access points</u>
- Non-traditional: AI text search/widgets, AI metadata

Ongoing:

- Exploring options for metadata creation (e.g., copy, outsourcing)
- Investigating discovery access options (e.g., EDS, AI Portal, others?)
- Developing use case studies (sub-group of BDWG)

Access = Metadata

Item Information More	Information Catalogue Record				
Mis-à-jour Giant [electronic resource] : Projet d'assainissement de la mine Giant Projet d'assainissement de la mine Giant (Canada)					
Corporate Author:	Projet d'assainissement de la mine Giant (Canada)				
Title:	Mis-à-jour Giant [electronic resource] : Projet d'accainissement de la mine Giant.				
Electronic access:	Free Access				
Publication info: [Yellowknife] : Indian and Northern Affairs Canada, [2008]					
Physical description:	1 online resource.				
General Note:	Distributed by the Government of Canada Depository Services Program.				
General Note:	"QS-Y289-005-FF-A1".				
General Note: Also published under the title: The Giant update, Giant Mine Remediation Project.					
Added Entry- Canada. Indian and Northern Affairs Canada. Corporat:					
Added Entry- Northwest Territories. Corporat:					
Govt Canada class#: R76-1/2007F-PDF					
key:	6062544				

ouine technician	electronic resource]			
Alberta. Alberta Educa				
	Alberta. Alberta Education.			
	Equine technician [electronic resource].			
Electronic access:				
	[Edmonton] : Alberta Education, 2009.			
	1 electronic text (3 p.)			
Series Added Entry- Uniform Title.	Alberta curriculum quides.			
	Green Certificate Program (Senior High)			
	Alberta. Alberta Agriculture. Green Certificate Program.			
Subject term:	HorsesStudy and teaching (Secondary) Alberta.	1		
Subject term:	Horsemen and horsewomenAlberta.			
Technica details:	Mode of access: Internet.			
Contents Note:	Equine operations and care 33 Equine processes and practices 33 Equine support systems 33.	Sites Se	arch Page Text	
Series Statement:	([Alberta curriculum guides])		Pa	ige 1 of 1 (1 Total Results)
	5360314			
		Sort By: Best Ma	atch Title (A-Z	Title (Z-A) URL (A-Z) URL (Z-A)
		Title: Equine	Technician	
		LIRI . http://et	uteauton all	erta.ca/media/1106757/equine_pafe.pdf
		Captured 12 times	between Oct 19,	2010 and Apr 26, 2013
		Subject: equin	e technician, pro	grams of study, program of studies, curriculum guide, senior
		A DATA TANÀNA MANDRI DATA DATA DATA DATA DATA DATA DATA DAT	e 10, grade 11, g	ade 12, division 4, division four, division IV, green certificate
		program	1.2	
		Date: 2009	15/1	
			terial is provided	under educational reproduction permissions included in Alberta
				re Statement, see terms at
		http://aducation.al	harra caluzingico	averight serve This Statement requires the following identification:

http://education.alberta.ca/using/copyright.aspx. This Statement requires the following identification: "The source of the materials is [Alberta Education] http://www.education.alberta.ca/. The use of these materials by the end user is done without any affiliation with or endorsement by the Government of Alberta. Reliance upon the end user's use of these materials is at the risk of the end user."

March, 2013

About 400 seeds Content disappearing on a daily basis Deadline: July 31, 2013

Mission Impossible !



Collaboration

UofA and UofT COPPUL members LAC

2	Departments/Agencies	URLs tried	URL 1	Library
3	Aboriginal Affairs and Northern Development Canada		http://www.aadnc-aandc.gc.ca/	UofA
4	British Columbia's Land Claims Agreement		http://www.ainc-inac.gc.ca/al/ldc/ccl/fagr/bc-eng.asp	UofA
5			http://www.northernstrategy.gc.ca/	UofA
6	First Nations Statistical Institute			
7	Indian Oil and Gas Canada			
8	Indian Residential Schools			
9	Labrador Inuit Land Claims Agreement		http://www.ainc-inac.gc.ca/al/ldc/ccl/fagr/nl-eng.asp	U of A
10	Nunavut Land Claims Agreement		http://www.ainc-inac.gc.ca/al/ldc/ccl/fagr/nu-eng.asp	U of A
11	Northwest Territories Land Claims Agreement		http://www.ainc-inac.gc.ca/al/ldc/ccl/fagr/nwt-eng.asp	U of A
12	Quebec Land Claims Agreement		http://www.ainc-inac.gc.ca/al/ldc/ccl/fagr/qc-eng.asp	U of A
13	http://pse-esd.ainc-inac.gc.ca/?		http://pse-esd.ainc-inac.gc.ca/	U of A
14	Yukon Land Claims Agreement		http://www.ainc-inac.gc.ca/al/ldc/ccl/fagr/yk-eng.asp	U of A
15	Aboriginal Portal of Canada		http://www.aboriginalcanada.gc.ca	U of A / U of T
16	pdfs		https://www.google.ca/search?as/q=&as/epq=&as/oq=&as/eq=&as/nlo=&	UofA
17	Agriculture and Agri-Food Canada	http://agr.gc.ca		UofT
18	Canadian Biodiversity Information Facility	http://www.cbif.gc.ca/		UofT
19	Canadian Pari-Mutuel Agency			UofT
20	Assisted Human Reproduction Canada		http://www.ahrc-pac.gc.ca/	UofA
21	Atlantic Canada Opportunities Agency	**		
22	Atlantic Pilotage Authority			
23	<u> Atlas of Canada - Natural Resources Canada</u>			
				2
	+ 🗉 Sheet1 - Sheet2 - Sheet3 -			

March, 2013 Seed List #1: UofA and UofT

f×						
	А	в	С			
1	What does yellow mean?		ellow highlighting was used by U of T and U of A to indicate instutitions hat deemed critical to capture and preserve			
2	Ministry of Finance : Results-based planning (documents)	Legislative Assembly				
3	Departments/Agencies	Library	URL 1			
168	North American Agreement on Environmental Cooperation (NAAEC) - Environment Canada	UVIC	http://www.cec.org/Page.asp?PageID=1226&SiteNodeID=			
169	Registry of the Specific Claims Tribunal of Canada	UVIC	http://www.sct-trp.ca/hist/hist_e.htm			
170	Seniors - Human Resources and Skills Development Canada	UVIC	http://seniors.gc.ca/eng/index.php			
171	Species at Risk Public Registry - Environment Canada	UVIC	http://www.sararegistry.gc.ca/default_e.cfm			
172	<u>Staff of the Non-Public Funds, Canadian Forces - National Defence and the</u> <u>Canadian Forces</u>	UVIC	https://www.cfpsa.com/en/Pages/default.aspx			
173	Statistical Survey Operations - Statistics Canada	UVIC				
174	Veterans Affairs Canada	UVIC				
175	Veterans Review and Appeal Board Canada	UVIC	http://www.vrab-tacra.gc.ca/Home-accueil-eng.cfm			
176	Pacific Fisheries Resource Conservation Council	UVIC	http://www.fish.bc.ca/			
177	Canada Research Chairs - Industry Canada	UVIC / UofT	Part of the Industry Canada crawl done by UofT			
178	How to use this spreadsheet:					
179	Please enter your institution's name in Column B next to the agencies that you will *intend* to harvest with Archive-IT. Many of us do not have final approval to purchase ArchiveIt so this is just our first draft.					
180	Please locate the main URL for the sites that you intend to harvest and add to URL 1 column. Use the notes field as needed. At this time the file sizes of most of these agencies isn't known.					
181	This checklist was adapted from the UofT and UofA Archive-It working document, please see the following url for the updated crawl list https://docs.google.com/spreadsheet/ccc?key=0AvIHesVQk7rbdHktdmMzUTRRYkdaTnVLNHpnYjAwWUE#gid=0					

May, 2013 Spreadsheet #2: UofA, UofT, some COPPUL members

March, 2013

Sent letters to LAC for meeting

May, 2013

- Teleconference (UofA, UofT and LAC)
- Lobbied for final harvesting of the entire GoC domain before the proposed GC web convergence plan is implemented
- Lobbied for future harvesting of the GoC domain
- Share and maintain seed list

July, 2013

 Questions for LAC about recommencement of web harvesting gc.ca domain

August, 2013

- Teleconference (UofA, UofT and LAC)
- LAC confirmed the harvesting of the GoC domain

November, 2013

Presentation at the Gov Info Day (UofT, UofA, LAC)

Conversations with LAC

Government Information Day Roundtable



We'd love to hear your suggestions

