



Natural Resources
Canada

Ressources naturelles
Canada



CANADIAN FOREST SERVICE
CANADIAN WOOD FIBRE CENTRE
MISCELLANEOUS REPORT

LTRIC (Long-Term Research Installation Catalogue) User Guide
(Updated September 2012)
<http://cfsnet.nfis.org/ltric2/>

Canada 

The Canadian Wood Fibre Centre brings together forest sector researchers to develop solutions for the Canadian forest sector's wood fibre related industries in an environmentally responsible manner. Its mission is to create innovative knowledge to expand the economic opportunities for the forest sector to benefit from Canadian wood fibre. The Canadian Wood Fibre Centre operates within the CFS, but under the umbrellas of FPInnovations' Board of Directors.

FPInnovations is the world's largest private, not-for-profit forest research institute. With over 600 employees spread across Canada, FPInnovations unites the individual strengths of each of these internationally recognized forest research and development institutes into a single, greater force. For more information visits <http://www.FPInnovations.ca>

Additional information on Natural Resources Canada, the Canadian Forest Service, and Canadian Wood Fibre Centre research and publications is also available online at: cfs.nrcan.gc.ca/subsite/cwfc. To download or order additional copies of this publication, see our online bookstore at: <http://cfs.nrcan.gc.ca/publications>

LTRIC (Long-Term Research Installation Catalogue)
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Natural Resources Canada
Canadian Forest Service
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Miscellaneous Report

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Natural Resources Canada
Canadian Forest Service
Canadian Wood Fibre Centre
506 West Burnside Road
Victoria, British Columbia
V8Z 1M5
Tel.: 250-363-0600
<http://cfs.nrcan.gc.ca/centres/read/cwfc>

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Introduction

The LTRIC (Long-Term Research Installation Catalogue) is a web tool intended to function as a searchable catalogue of long-term forest research sites, studies, and projects allowing Canadian Forest Service (CFS) staff to share and preserve information. Long-term sites are any location where research information is being or has been collected that may be of current or future value.

Although the CFS either initiated or was involved in the majority of sites and studies listed in the catalogue some sites from other research organizations are included. The LTRIC also has the ability to search several additional databases. Records include summary descriptions, geographic location, status of the site, contact information, and links to associated studies and projects if applicable. Links are an important aspect of the LTRIC and allow an integrated approach as many studies can be conducted at a single site and single studies can be conducted at multiple sites. Projects which can have multiple sites and studies are described below.

The LTRIC program was developed by the Canadian Wood Fibre Centre (CWFC) in collaboration with the NFIS (National Forest Information System, <https://ca.nfis.org/>) group and is one of a number of applications being developed to assist with CFS information management. Valuable input has also been received from CFS archiving and other staff, NRCan Libraries, and FPIInnovations. The information returned will only be as good as the database it draws from and will rely on individual contributions. If there are inaccuracies or incomplete information please check with the contact person listed. For older information, check with the archiving staff at the appropriate Centre. Simple corrections to the database can easily be made by support staff, but adding larger amounts of information requires administrative access. This can be arranged by using the “Contact–Us” tab on the left side of the webpage. The “Contact–Us” tab can also be used if you encounter technical difficulties. Please capture the error message or screen displaying the problem, or describe the problem in an email.

English version

<https://cfsnet.nfis.org/ltric2/contact?&lang=en>

email: ltric_support@nfis.org

French version

<https://cfsnet.nfis.org/ltric2/contact?&lang=fr>

email: ltric_support@nfis.org

Basic Structure of the LTRIC: Sites, Studies, Projects, Numbers, and Links

Site or Installation: Site records provide information on the physical location and include title, brief description, comments, general geographic location, species, year of establishment, current status, types of data available, the person or institution to contact for further details and links to individual studies conducted at the site. Details for many sites, such as the exact location, may need to be obtained from the contact person.

Study: Study records typically focus on one area of research at a site. They include a title, study description, comments, status, types of information available, as well as contact and investigator names. Studies also have links to the site or sites where the study was conducted.

Project: Project records differ from site and study records as they are more subjective and allow researchers an additional level for describing larger research initiatives. Projects typically have multiple and often interdisciplinary studies that may include more than one site within the project. Two examples of such projects are Petawawa National Research Forest in Ontario and the Shawnigan Lake Research Forest in British Columbia. Project records contain a title, description, contact information, and links to the studies conducted.

LTRIC Numbers: The LTRIC assigns permanent ID numbers for each of the three levels (site, study, and project).

Linkages: A site may involve multiple and unrelated studies while a study can involve multiple sites, and projects may involve multiples of both sites and studies. One of the underlying design features of the LTRIC is to take an integrated approach to organizing the information.

Links to Additional Databases: As of October 2012, the LTRIC searches the Ontario Research Sites (ORS) catalogue established at the Great Lakes Forestry Centre and the Atlas catalogue of long-term forest experimental sites established at the Laurentian Forestry Centre. Records returned from these two databases may differ from the LTRIC structure.

Search Options Available through the LTRIC Web Application Start Page

The screenshot shows the top navigation bar with the Canadian flag, 'Natural Resources Canada' and 'Ressources naturelles Canada' logos, and the 'Canada' wordmark. Below this is a banner for 'Natural Resources Canada' with the website URL 'www.nrcan-rncan.gc.ca'. A navigation menu includes 'Français', 'Home', 'Contact Us', 'Help', 'Search', and 'canada.gc.ca'. The main content area is titled 'Long-Term Research Installation Catalogue' and features a search interface with tabs for 'Keywords', 'Subject Areas', 'Locations', 'Site Characteristics', and 'Trees'. The 'Keywords' tab is active, showing a search input field, radio buttons for 'AND' and 'OR', and a 'Search' button. A 'Reset' button is also present. A checkbox for 'Scroll to search results' is checked. A sidebar on the left contains links for 'CFS Home', 'Long-Term Research Installation Catalogue', 'Search', 'View Reports', 'About the LTRIC', 'Help using the LTRIC', and 'Contact-Us'. A note at the bottom of the sidebar states: 'Note: Links to external sites open in a new browser window, and are indicated by this icon: [external link icon]'. A 'Proactive Disclosure' section is also visible in the sidebar.

Screen capture of the search option page.

Language Option Tab: The French/English tab is located at the top left side of the search page. If information has been added to the LTRIC in both languages, it appears in both options. If, however, text has only been added in one language, many of the fields will show, but the text boxes such as "title," and

“description” will display “not available.” To view the text in the language that it was entered, change the language option.

Search Option Tabs

Keywords: The keyword search feature searches the titles, descriptions, and comments for each site as well as controlled terms and tags that were included when the information was added to the catalogue.

Note: Although searches will include information from both the site and study records only the site records are georeferenced and will be returned on the results map or table. Links to the study records will be included in the site record. If, in the future users require additional specific search capability for studies programming changes could be considered.

Subject Areas: A number of subject areas are provided including silviculture and regeneration, ecology and ecosystems, fibre attributes, and biodiversity. One or more subject area options can be selected.

Locations: Select any one or combination of “Province,” “Ecozone,” and “Elevation.”

Note about the ecozones: The 15 ecosystems listed are from the National Ecological Framework for Canada, which was developed between 1991 and 1999 by the Ecosystems Science Directorate of Environment Canada and the Centre for Land and Biological Resources Research of Agriculture and Agri-Food Canada.

Site Characteristics: The site characteristics tab includes four sections:

- Site Integrity – is a site’s current status (harvested, partially damaged, well-marked).
- Site Treatments – includes a list of options (clearcut, fertilized, etc.)
- Site Status – refers to the state of the research (active, abandoned, etc.)
- Fibre Attributes – lists available fibre attribute information.

Multiple selections can be combined for a search.

Trees: Select the tree species you want to search. The list is arranged by the major tree groups and alphabetical by genus. Common names are included, but keep in mind common names can vary over time and region. More than one species can be included in a search.

Notes: The list of trees species is lengthy so using the search option on your browser can help find a specific species on the list. Other databases such as Atlas and ORS may have different formats.

Investigators/Organizations: This section allows you to select records from a specific investigator or organization.

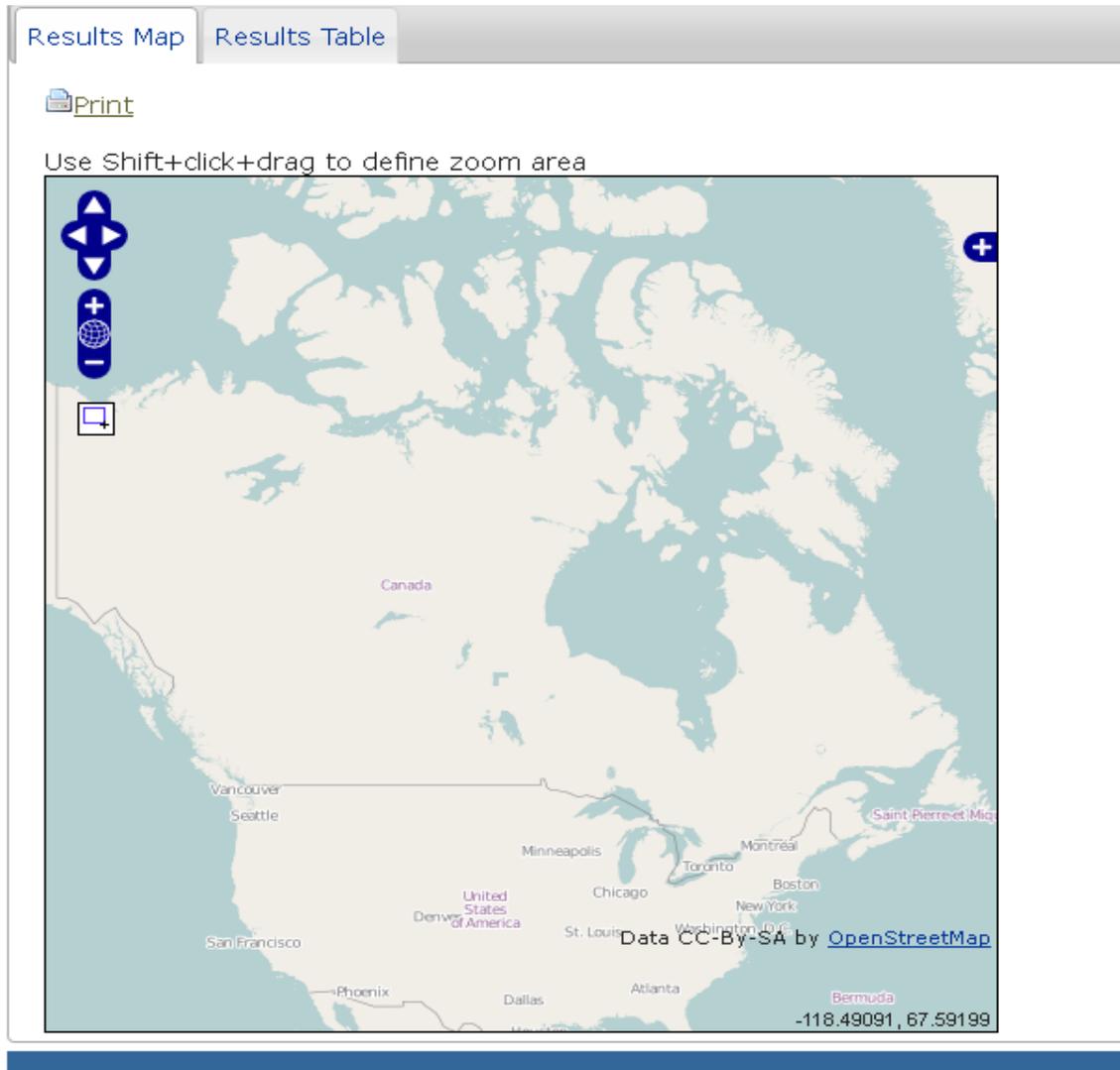
Data/Data Locations: The data/data locations tab includes three sections:

- Specific Data – includes three options: growth data, crown data, and economic data.
- Data Formats – includes five options: paper, digital, paper maps, digital maps, and photographs.
- Data Locations – includes all of the locations currently listed in the database.

Map Search

The map can be zoomed in to limit the area to be searched. To delineate a search area, select the  icon found on the left side of the map, just under the map navigation controls. The icon will show blue when activated. With the mouse, left click and drag the cursor over the desired area on the map.

Note: For best results (as of October 2012) use newer versions of Firefox or Google Chrome. Certain versions of Internet Explorer will not display the map and menu correctly.

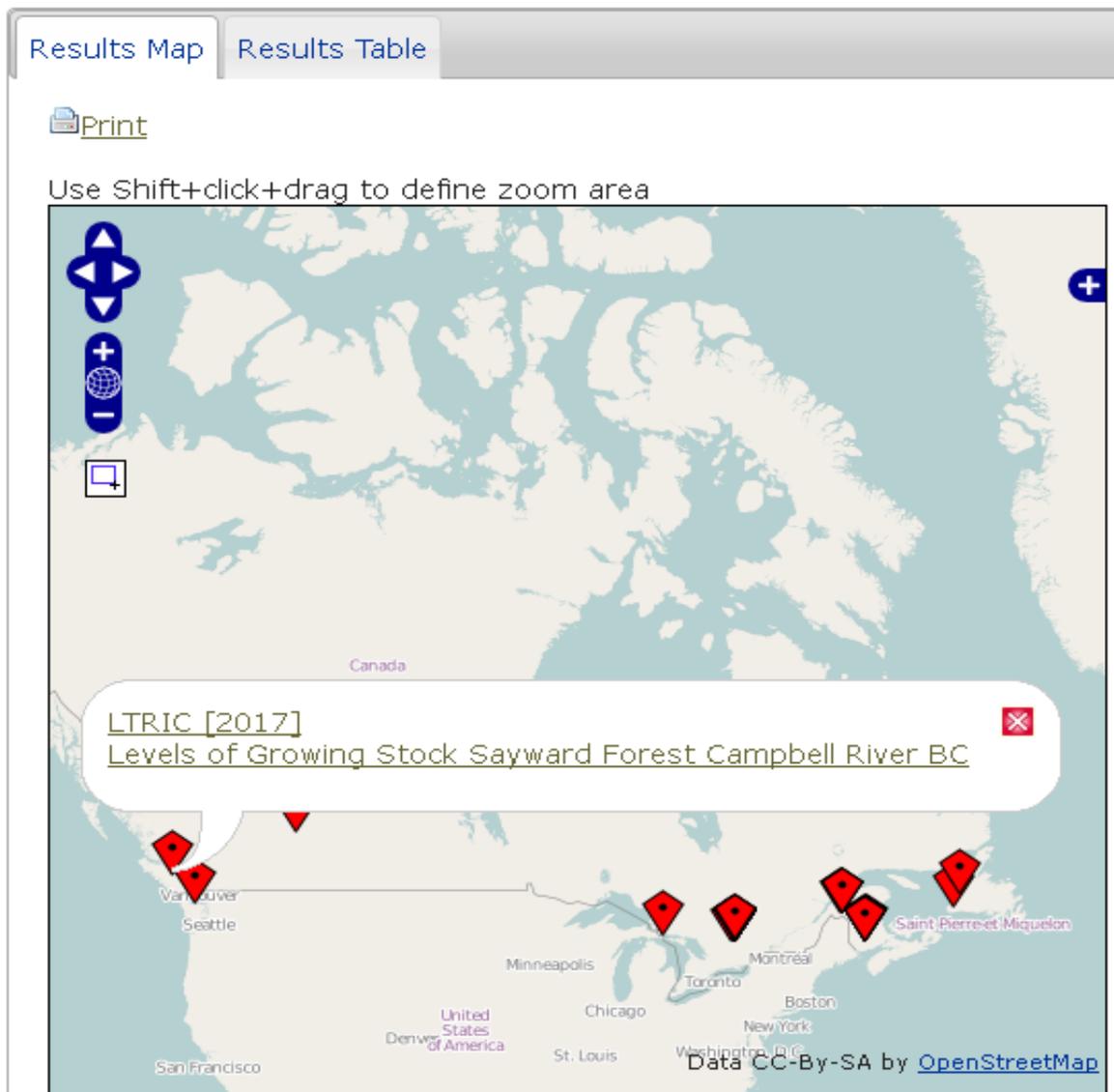


Screen capture of map search page.

Search Results

The search results are shown as placemarkers on the map as well as in tabular form on the “Results” tab. Placemarkers are coloured according to the database source; for example, LTRIC records are displayed in red. If the placemarkers are too close together you can zoom into the map using the mouse scroll wheel or by clicking on the map navigation controls. When you click on a placemaker it initiates a “balloon” with a hyperlink that will open another browser page with a report. You can click on another placemaker or close the “balloon” without leaving the map. Placemarkers can be turned off using the check box with the “plus” at the top right corner of the map.

Note: Depending on your search results, your browser and computer will be required to render the placemarkers on your browser screen. This may take longer for large query results.



Screen capture showing typical map results.

Search Results:

Fibre Attributes: Cell length, Colour, Fibre Saturation Level, Mature Wood, Acoustic Velocity, Fibril Angle (MFA), MOE, MOR, Silva Scan

 [Print](#)

Results Table

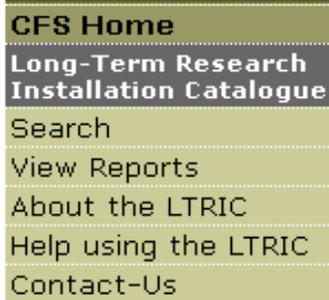
Number of Results: 45

Src	ID	Title	Location	Province
LTRIC	35	Cartier Lake Silvicultural Area 	Chalk River	Ontario
LTRIC	39	M-321 	In the Acadian Research Forest	New Brunswick
LTRIC	342	Upper Belone Brook 	Edmundston	New Brunswick
LTRIC	314	P.R.F. Silviculture - Clearcut / Conventional Harvest, (Environmental Impact Study Area 1) 	Petawawa Research Forest	Ontario
LTRIC	346	Lower Chisholm Brook 	Edmundston	New Brunswick
LTRIC	351	Lower Belone Brook 	Edmundston	New Brunswick
LTRIC	356	P.R.F. Silviculture Pinus resinosa (Red Pine) Spacing Trial P-109A, (A.E.C.L.), 	Petawawa Research Forest	Ontario

Screen capture showing a typical results table.

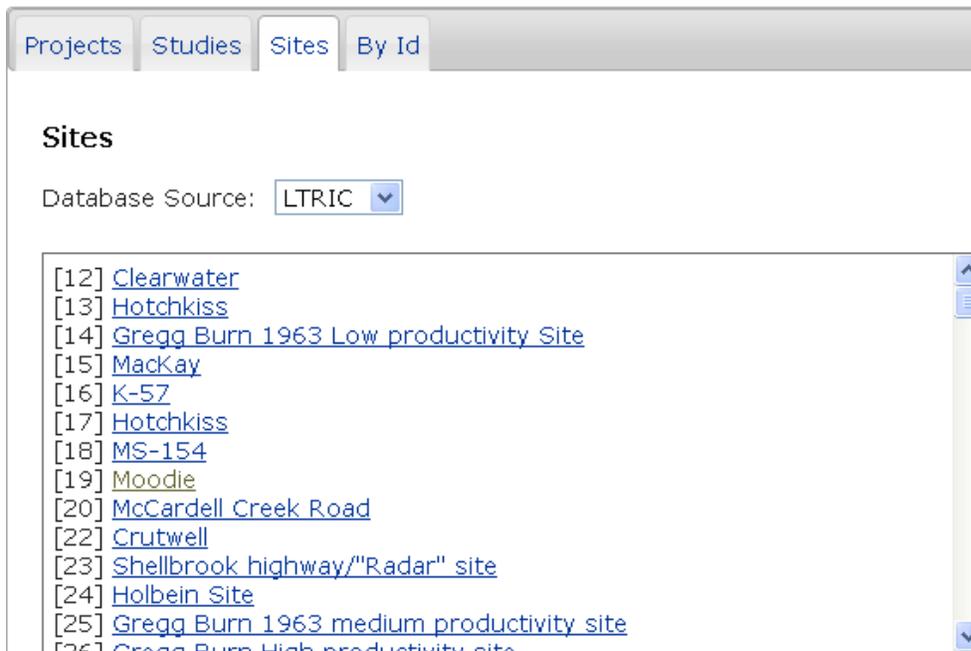
The results table above shows the data source, ID, title, location and province. The results in each header can be sorted alphabetically or numerically for the ID using the small arrows. By clicking on the double blue sheet icon in the  "Title" column the report will be produced.

Remaining Left-hand Tabs



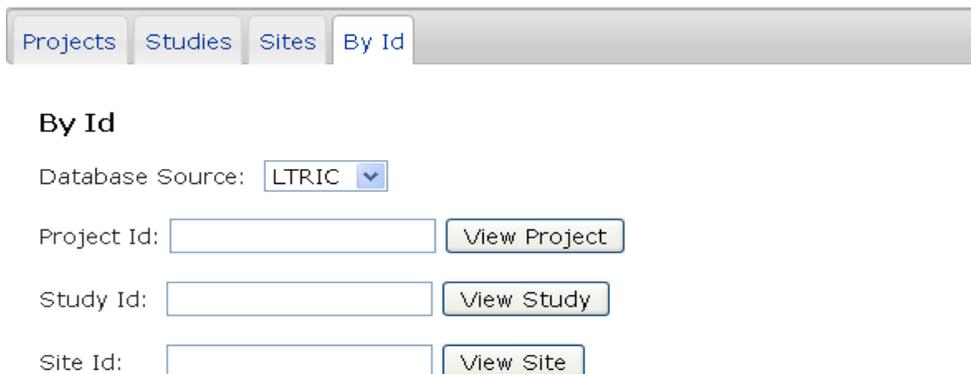
View Reports: The “view reports” option allows researchers to rapidly locate records by displaying the full list of sites, studies, or projects, in numerical order.

Note: Depending on the search option chosen, searching other databases from within the LTRIC may result in no records found if there is no corresponding field. Searching by keywords, species, or map is advised.



Screen capture, selecting a specific project study or site.

By ID: Searching by site, study, or project number allows a direct link to the record. Select “View Project,” “View Study,” or “View Site” and enter the number.



Screen capture, select a project, study, or site by ID number

LTRIC ▼
LTRIC
ATLAS
ORS

Select a database

As of October 2012, two other databases are available: ATLAS, which mostly lists sites from Quebec and ORS, which mostly lists sites from Ontario. LTRIC is the default database.

About LTRIC: This links to background information about LTRIC.

Help using LTRIC: This links to the User Guide for the LTRIC.

Contact us: This provides a link and contact information for additional technical help. The URL and email address are shown at the top of the page.