

LCAccess Global Directory of LCI Resources

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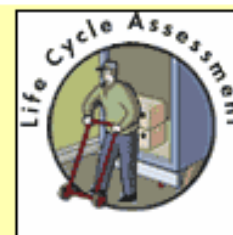
[Why LCA?](#)[LCA 101](#)[Data Sources](#)[LCA Resources](#)[Ongoing Efforts](#)[Upcoming Events](#)**U.S. Environmental Protection Agency**

Life-Cycle Assessment

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Life-Cycle Assessment - LCAccess

Welcome to the National Risk Management Research Laboratory's Life-Cycle Assessment (LCA) website. This site's purpose is to promote the use of [LCA](#) to make more informed decisions through a better understanding of the human health and environmental impacts of products, processes, and activities. The site is divided into six primary areas to help educate people new to the concept of LCA while serving as a focal point for LCA practitioners and decision-makers to stay current with the field of LCA. LCAccess provides information on why one would want to perform an LCA, an overview of LCA, how to find LCI data sources, available LCA resources, on-going efforts in the field of LCA and upcoming LCA events.



[Sept. 2003 InLCA Conference](#) on Life Cycle Assessment and Management.

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Purpose

- Educate decision-makers about how to conduct an LCA and the benefit thereof.
- Promote the use of LCA to make better informed decisions.
- Increase awareness of existing LCI data sets and other data sources applicable to products, processes, and activities.
- Provide information on how and where to access LCI data sources.

Overview of the Six Main Features of LCAccess



Why LCA



LCA 101



Data Sources



LCA Resources



Ongoing Efforts



Upcoming Events

Overview of the Six Main Features of LCAccess



Why LCA

- **EPA's Role in LCA**
- **Benefits of LCA**



LCA 101



Data Sources



LCA Resources



Ongoing Efforts



Upcoming Events

Overview of the Six Main Features of LCAccess



Why LCA



LCA 101



Data Sources



LCA Resources



Ongoing Efforts



Upcoming Events

- **What is LCA**
- **Goal Definition & Scope**
- **Life Cycle Inventory (LCI)**
- **Life Cycle Impact Assessment (LCIA)**
- **Life Cycle Interpretation**

Overview of the Six Main Features of LCAccess



Why LCA



LCA 101



Data Sources



LCA Resources



Ongoing Efforts



Upcoming Events

- **Global LCI Directory**
- **“Yellow Pages” of Data Sources**
- **Over 660 Data Sources**
- **Online Profile Submission**
- **Free Service**

Overview of the Six Main Features of LCAccess



Why LCA



LCA 101



Data Sources



LCA Resources



Ongoing Efforts



Upcoming Events

- **Related Web Sites**
- **Documents**
- **Conference Proceedings**
- **Case Studies**
- **Journals**
- **Software and Databases**

Overview of the Six Main Features of LCAccess



Why LCA



LCA 101



Data Sources



LCA Resources



Ongoing Efforts



Upcoming Events

- **US EPA Efforts**
- **Other US Efforts**
- **International Efforts**

Overview of the Six Main Features of LCAccess



Why LCA



LCA 101



Data Sources



LCA Resources



Ongoing Efforts

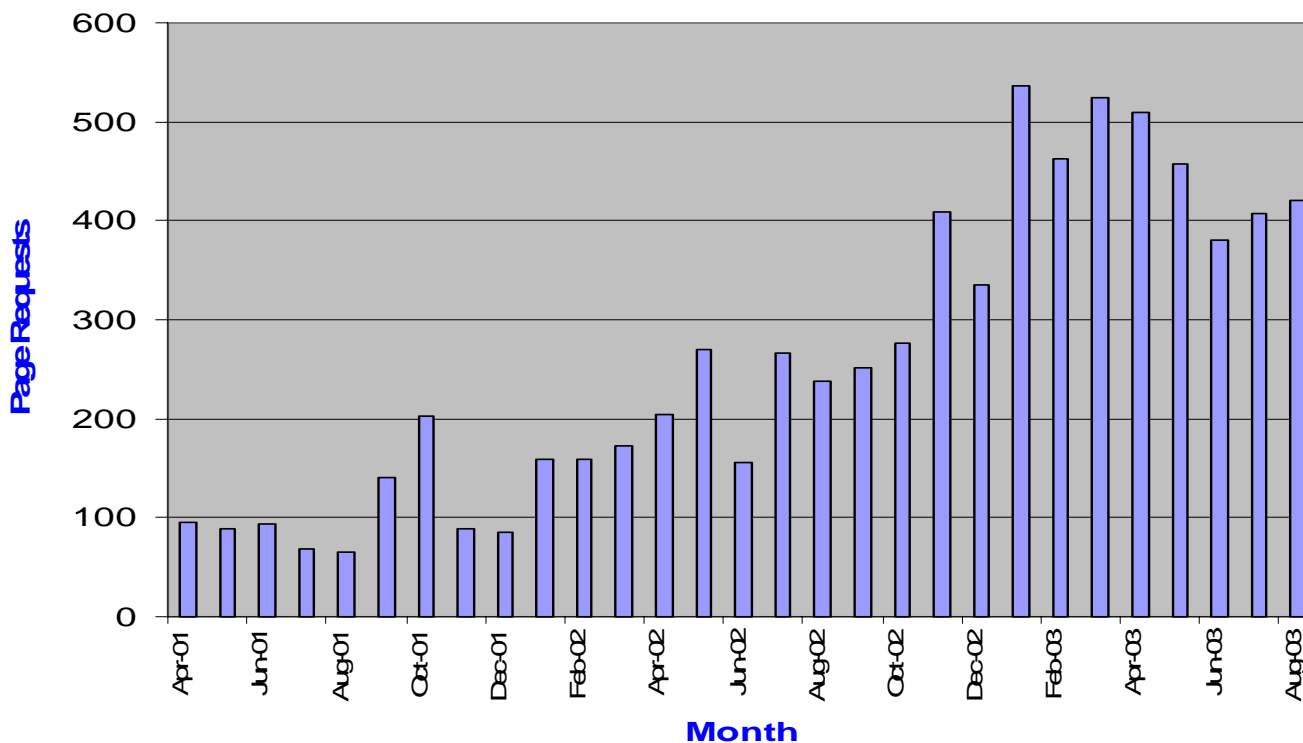


Upcoming Events

- **Conferences**
- **Meetings**
- **Activities**

Web Site Statistics

Data Transfer - index.htm



Global LCI Directory

- Created to address the critical need of the LCA community to organize and centralize the worldwide knowledge-base of LCI data sources to reduce the time and resources required to obtain LCI data
- Lists LCI Data Sources and Other Sources of LCI Data
- Provides profiles of each data source including descriptions, contacts, cost, and applicability information

Data Profile Format

LCAccess

“LCI Data Source Profile”



General Information

Title:	Name of the LCI data set as referred to or cited.	
Source:	Your company or organization's name.	
Description:	One or two paragraphs describing the applicability, relevance, data quality procedures, and/or methodology for collecting the data. This space (field) is provided for you to add any additional text that you determine necessary to best explain your data set.	
Media Format:	Electronic:	Description of the type of electronic format the data set is available in; e.g., Microsoft Excel 97 spreadsheets.
	Non-Electronic:	Description of the media format; e.g., English language, number of pages, bound or un-bound, etc.
Contact Information:	How and where to obtain the LCI data set from you; i.e., when someone decides that they want to further investigate the applicability of your LCI data set to their needs who should they contact and how.	
Web-site:	The URL for obtaining your LCI data set, if applicable.	
Cost (estimate only):	\$XXX (in US Dollars)	Cost explanation, if necessary; e.g., the cost for the data set includes 5 other data sets as a data set package.
Date Profile Last Updated:	April 26, 2001	Date is automatically entered when your profile is added to the Global LCI Directory.

Data Profile Format

Applicability of Data Source

- Functional Unit:** Unit of output for which your results are presented.
- Life -Cycle Stages Covered:** *Pick one or more stages from the list below that best represents your LCI data set.*
- | | |
|--------------------------|-------------------------|
| Raw Material Acquisition | Manufacturing |
| Use/Reuse/Maintenance | Recycle/WasteManagement |
- Industry Covered:** *Pick one or more from the list below that best represents your LCI data set.*
- | | |
|----------------------------|-------------------------------|
| Food | Furniture and Related Product |
| Leather and Allied Product | Machinery |
| Miscellaneous | [plus 25 others] |
- Level of Aggregation:** *Pick the level of aggregation from the list below that best represents your LCI data set.*
- Global Average, National Average, Industry Average, Site Specific, Other
- Product Covered:** *List up to four Products or Product Categories that your LCI data set best represents. Each field is limited to 250 characters.*
- Geographical Area Covered:** *Pick one or more from the list below that best represents your LCI data set.*
- | | |
|-------------------------------|----------------------------|
| Global | Africa |
| Asia and the Pacific | Europe |
| Latin America & the Caribbean | North America |
| Afghanistan | Albania |
| Algeria | Andorra |
| Angola | [plus 112 other countries] |
- Data Collection Period:** YYYY to YYYY *Enter the time period that best represents your LCI data.*

Global LCI Directory

- **Online profile submission**
- **Matrix and keyword search options**
- **Search results separated into LCI Data Sources and Other Sources of LCI Data**

Search Options



Global LCI Directory - Matrix Search

The Matrix Search organizes the data source profiles contained in the **Global LCI Directory** by industry area and life cycle stage. The following table contains links to those data source profiles. The column headers list the life cycle stage and the row headers list the industry area. To view the matrix results, click on one of the numbers in the table.

Note: A single data source profile may be applicable to multiple industries or life cycle stages; therefore, many profiles may be double-counted within the Matrix Search.

The Global LCI Directory currently contains 665 data source profiles.

	Raw Material Acquisition	Manufacturing Stage	Use/ Reuse/ Maintenance	Recycle/ Waste Management	Total
Agriculture and Forestry	4	6	8	5	23
All	572	583	582	582	2319
Apparel	0	0	0	0	0
Beverage and Tobacco Product	0	0	0	0	0
Chemical	4	7	5	5	21
Computer and Electronic Product	3	3	3	3	12
Construction	1	3	3	2	9
Electrical Equip., Appliance	2	2	2	2	8
Fabricated Metal Product	5	6	6	5	22
Food	1	1	1	1	4
Furniture and

31 Industry Categories

Organized by Life Cycle Stage

Number of Relevant Profiles Identified by Category

Search Options

Global LCI Directory - Keyword Search

The Global LCI Directory currently contains 665 data source profiles.

Enter search words or phrases separated by commas.

Keywords

Advanced Search

Make one or more selections below to narrow your search. The default selections are set to include all information.

Type of Data Source Profile	<input type="radio"/> LCI Data Sources	<input type="radio"/> Other Sources of LCI Data	<input checked="" type="radio"/> Both
Media Format	<input type="radio"/> Electronic sources	<input type="radio"/> Non-electronic sources	<input checked="" type="radio"/> Both
Cost of Data Source (in US Dollars)	<input type="text" value="0.00"/> \$ Minimum	<input type="text" value="0.00"/> \$ Maximum	

Applicability of Data Source

Industry Covered

<input type="text" value="Agriculture and Forestry"/>	<input type="button" value="-->"/>	<input type="text" value="-----Your Selection-----"/>
<input type="text" value="All"/>		
<input type="text" value="Apparel"/>	<input type="button" value="<--"/>	
<input type="text" value="Beverage and Tobacco Product"/>		

Keyword Search Options:

- Type of Data Source
- Media
- Cost
- Industry Area
- Process/Product
- Geographical Area
- Time Period
- Level of Aggregation
- Life Cycle Stages
- Information Type

Search Result Format

Global LCI Directory - Matrix Search Results

Your search for the "Mining (except Oil and Gas)" industry in the "Raw Material Acquisition" Life-Cycle stage resulted in 3 [LCI Data Sources](#) and 7 [Other Sources](#) of LCI Data.

LCI Data Sources:

The following table lists the title, source and cost of LCI data source profiles. To view one or more profiles, check the box to the left of the title, then click on "View Selected Profiles." Or click on "View All Profiles" to page through all the profiles.

Title/Source of Data Sources	COST (\$USD)
<input type="checkbox"/> Life Cycle Inventory of a Generic U.S. Family Sedan: Overview of Results - USCAR AMP Project (SAE Paper #982160) Source: SAE International	10
<input type="checkbox"/> World Steel Life Cycle Inventory Source: International Iron and Steel Institute (IISI)	0
<input type="checkbox"/> Life Cycle Assessment of Coal-Fired Power Production Source: National Renewable Energy Laboratory (NREL)	0

View Selected Profiles

View All Profiles

Back to Matrix Search

Switch to Keyword Search

Same Table Format for Other Sources of LCI Data Search Results

Two Result Tables

- LCI Data Sources
- Other Sources of LCI Data

Displays Name, Source, and Cost

Option to Select One or More Profiles to View

Global LCI Directory

- **Over 660 data source profiles are currently in the Directory.**
- **99% of data source profiles are for completed LCIs.**
- **Over 45 data providers are included in the Directory.**
- **Over 300 products are covered.**

Data Providers include:

- **American Forest and Paper Association**
- **American Iron and Steel Institute**
- **CPM, Chalmers University of Technology**
- **U.S. Department of Energy**
- **International Iron and Steel Institute**
- **NIST**
- **U.S. EPA**
- **Utility Data Institute**
- **And many others!**

Upcoming Efforts

- **Updating the LCA Resources, Upcoming Events and Ongoing Efforts**
- **Expanding the list of case studies**
- **Highlighting 5 case studies and how the case study was beneficial**
- **Adding new data source profiles**
- **Continuing outreach to potential data source providers**

How can you help?

- Inform us of any resources/events that should be added to the web site.
- Let us know if you would be interested in having your case study highlighted on LCAccess.
- Add new data source profiles using the online profile submission form.
- Send feedback to EPA at curran.maryann@epa.gov.

Conclusion

- **Incorporation of life cycle concepts will improve your decision-making capabilities!**
- **Knowledge and resources are available to help you today!**
- **Add a reference to your data sources using the online profile submission form!**

Thank You!

For Additional Information Contact:

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