

# CABI Training Materials

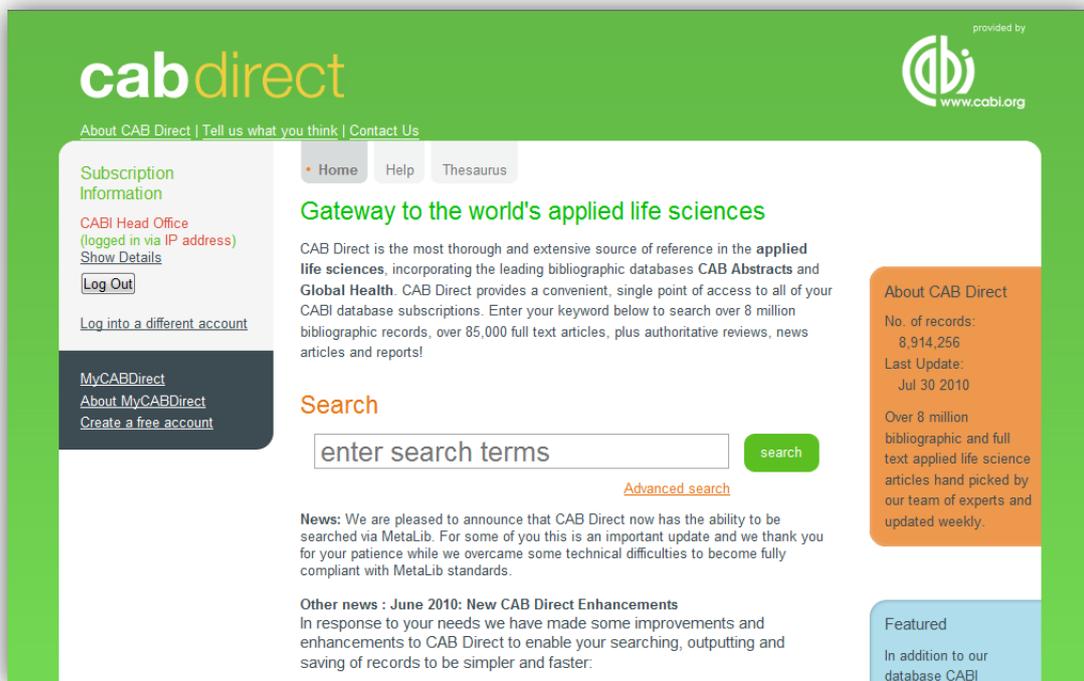
CAB Direct

## Simple Searching of CAB Abstracts

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## The CAB Direct Home Page



The screenshot shows the CAB Direct Home Page. At the top left is the 'cabdirect' logo. To the right is the CABI logo and 'www.cabi.org'. Below the logo is the text 'About CAB Direct | Tell us what you think | Contact Us'. A navigation menu includes 'Home', 'Help', and 'Thesaurus'. On the left, there are links for 'Subscription Information', 'CABI Head Office (logged in via IP address)', 'Show Details', 'Log Out', and 'Log into a different account'. Below that is a 'MyCABDirect' section with links for 'About MyCABDirect' and 'Create a free account'. The main content area features the heading 'Gateway to the world's applied life sciences' and a paragraph describing CAB Direct as a source of reference in applied life sciences. Below this is a search box with the placeholder text 'enter search terms' and a green 'search' button. A link for 'Advanced search' is also present. A 'News' section mentions that CAB Direct is now fully compliant with MetaLib standards. An 'Other news' section mentions 'June 2010: New CAB Direct Enhancements'. On the right, an 'About CAB Direct' box lists 'No. of records: 8,914,256' and 'Last Update: Jul 30 2010'. Below that, it states 'Over 8 million bibliographic and full text applied life science articles hand picked by our team of experts and updated weekly.' At the bottom right, a 'Featured' section mentions 'In addition to our database CABI'.

This is the CAB Direct Home Page, offering a simple, “Google like” search box, plus links to the CAB Thesaurus and “**MyCABDirect**”. This search screen allows users to perform simple, single or multi-word searches. As with a Google search, users can use Natural Language, as in the example below:

### The housing of cattle in Europe

In a Natural Language search, the system will automatically select just the important words, in this case, Housing, Cattle and Europe, and will ignore all the other, irrelevant terms. The search is performed by clicking the green  button, when the selected terms will be searched with an “invisible” AND between them. The resulting list of records will contain all three keywords. The same search can also be performed by simply typing in the individual search terms or “Keywords”, as they are commonly known, as shown below:

**housing cattle europe**

The terms will be combined with AND, as before, with the same search result.

## Search techniques

### Word-Stemming and Truncation

As a default, CAB Direct employs what is known as “word-stemming”. In most cases, this aids searching by finding additional terms with a common stem. Searching for Housing, for example, searching for Housing will also find House and Houses and Housed. However, like truncation, word-stemming can sometimes find irrelevant records. To turn off word-stemming when searching, simply enclose the search term in double quotes as in "housing".

In most cases, word-stemming removes the need for truncation, but it can still be used. When searching for several words that have the same beginning, or stem, the use of truncation can save time. For unlimited Truncation, use the asterisk (\*), as in the following example:

**Nutri\***

This will search for words starting with NUTRI and will retrieve NUTRIA, NUTRIENT, NUTRIENTS, NUTRITION, etc.

### Phrase Searching

Sometimes a user will want to search for a more specific phrase, rather than searching for individual, single words, and combining them with AND. An example might be the search term cattle housing. To specify a phrase search, simply enclose the phrase in double quotation marks, as shown below.

**"cattle housing"**

### Linking Search Terms with "Boolean Operators"

There are 3 Boolean Operators commonly used to make searching more accurately. These are:

1. AND
2. OR
3. NOT

Phrases and single words can be searched in combination, and will be linked with the Boolean operator “AND”, as in the following example.

**"cattle housing" europe "animal welfare"**

This will retrieve records whose indexing contains all three search terms together. Note that, whenever you enter more than one search term, whether it is a single word or a phrase, the system will combine them with AND automatically. However, for clarity you can type the AND's in either upper or lower case if you wish to as shown below.

**"cattle housing" AND europe AND "animal welfare"**

The other two Boolean Operators are OR and NOT, and can be used to modify or refine your search. You may be interested in research papers about cattle or sheep or horses. If we simply type in the three terms cattle sheep horses, we would retrieve only records that contained all three terms. They would be ANDed together. We would not find any records that simply included just one or two of the terms. This would seriously limit our search. In this particular example, we want to find records that contain all the words or any of the words.

To do this, we can use the OR operator, as in the following example:

**cattle OR sheep OR horses**

This search will find records that contain either one or more of the three search terms. The OR operator "expands" the search. The search gets larger as you OR more terms together.

The third Boolean Operator is NOT, and can be used to exclude terms from your search. You may be interested in breeding but not genetics. To do this, use the NOT operator, as shown below:

breeding NOT genetics

This search will find all the records containing the word breeding, but will exclude any record that includes the word genetics. The NOT operator will restrict your search, making it smaller. Use the NOT operator with caution, as you may lose relevant records by accident.

## Multiple Boolean Operators

We have seen how to use each Boolean Operator separately but, in many searches, it is useful to be able to use two or more of these operators together, in a single, complex search statement. Let us imagine that we want to do a search for records about the breeding of sheep or cattle or horses but that we are not interested in papers about genetics. We need to find all the records about cattle or sheep or horses and, from this group, or set of records, we need to find the records that also include the term breeding. Finally, we need to exclude the records that contain the word genetics. In this search, we need to use AND, OR and NOT, as shown below:

cattle OR sheep OR horses AND breeding NOT genetics

Before we run the search, there is one more thing that we need to do. We must tell the search system the order in which to do the search. Firstly, we want to find cattle OR sheep OR horses, and then we want to combine this group (or set) of records with the word breeding and, once this second operation has been completed, the final operation is to remove the records containing the word genetics. To specify the order of the search, we use parentheses, or round brackets, to enclose the three, separate operations. We want the OR operation done first, so we enclose the ORed terms in one set of brackets, as shown here:

**(cattle OR sheep OR horses) AND breeding NOT genetics**

Now we want to do the AND operation, so we enclose this in a second set of brackets:

**((cattle OR sheep OR horses) AND breeding) NOT genetics**

Because the NOT operation is outside both sets of brackets, this will be performed last. We can now click the  button and the search will now be performed correctly, in the order in which we want it done.

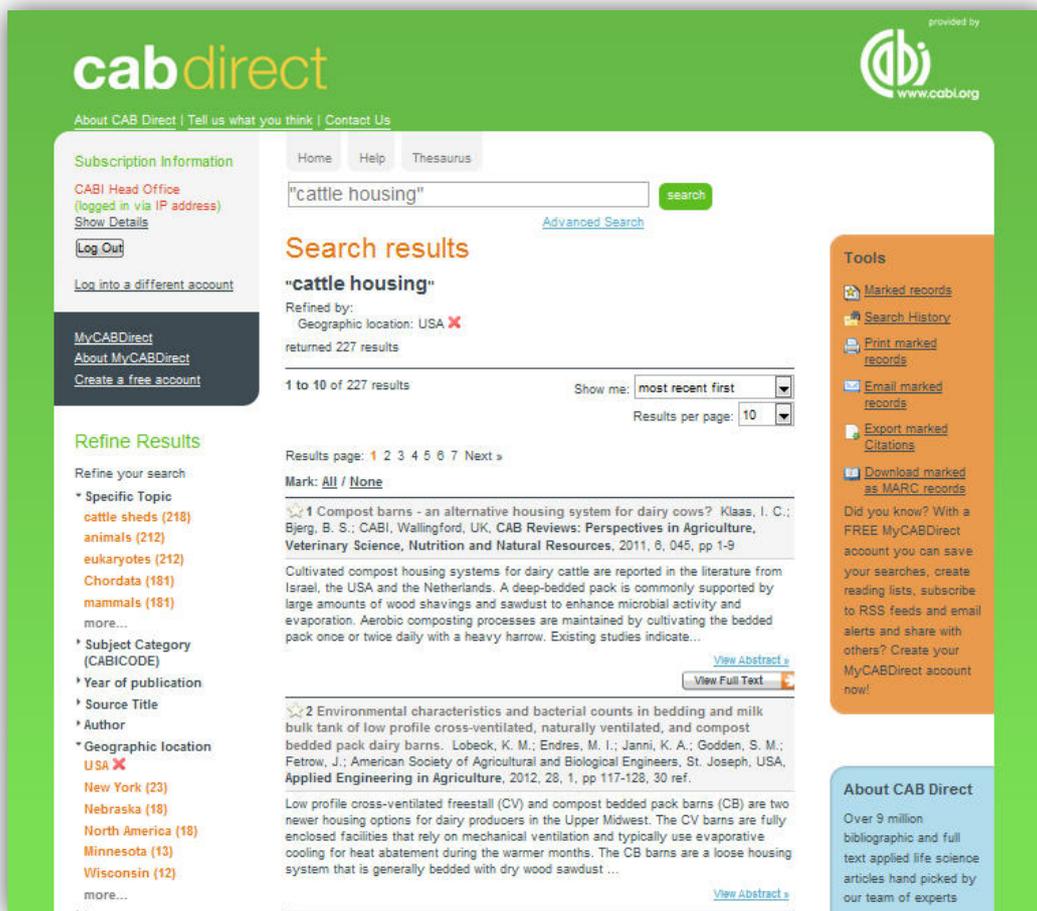
With a little practice, the use of Boolean Operators, and brackets, can be used to produce complex and precise search statements which will retrieve good, relevant results.

## Search Results

The results of a search are displayed in a short record format on the "Search results" screen, as shown below. The records are displayed in date order, with the record that has been added to the database most recently, displayed first, at the top of the list. This ensures that you always see the latest records first, which is important if you are running the same search on a regular basis. There is also a clickable option to display the records by relevance, with the most relevant record shown first.

On this page, the records are displayed with the Article Title, the Bibliographic Details and a short section of the Abstract. By default, you see 10 records at a time, but the display range can be reset to show up to 100 at a time, from the drop down list, highlighted in the screenshot on the next page.

To view the complete database record either click the record title or the "View Abstract" link, at the bottom of each record. This will take you to the Full record display screen.



The screenshot shows the CABI Direct search results page for the query "cattle housing". The page is titled "Search results" and shows 227 results refined by "Geographic location: USA". The results are displayed in a list format, with the first two records visible. The first record is titled "1 Compost barns - an alternative housing system for dairy cows?" and the second is "2 Environmental characteristics and bacterial counts in bedding and milk bulk tank of low profile cross-ventilated, naturally ventilated, and compost bedded pack dairy barns." The page includes a search bar, navigation links, and a sidebar with tools and subscription information.

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Subscription Information  
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Home Help Thesaurus

"cattle housing" [search](#) [Advanced Search](#)

**Search results**

Refined by:  
 Geographic location: USA ✕  
 returned 227 results

1 to 10 of 227 results Show me:  Results per page:

Results page: 1 2 3 4 5 6 7 Next »

Mark: [All](#) / [None](#)

1 Compost barns - an alternative housing system for dairy cows? Klaas, I. C.; Bjerg, B. S.; CABI, Wallingford, UK, *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources*, 2011, 6, 045, pp 1-9

Cultivated compost housing systems for dairy cattle are reported in the literature from Israel, the USA and the Netherlands. A deep-bedded pack is commonly supported by large amounts of wood shavings and sawdust to enhance microbial activity and evaporation. Aerobic composting processes are maintained by cultivating the bedded pack once or twice daily with a heavy harrow. Existing studies indicate...

[View Abstract](#)  
[View Full Text](#)

2 Environmental characteristics and bacterial counts in bedding and milk bulk tank of low profile cross-ventilated, naturally ventilated, and compost bedded pack dairy barns. Lobeck, K. M.; Endres, M. I.; Janni, K. A.; Godden, S. M.; Fetrow, J.; American Society of Agricultural and Biological Engineers, St. Joseph, USA, *Applied Engineering in Agriculture*, 2012, 28, 1, pp 117-128, 30 ref.

Low profile cross-ventilated freestall (CV) and compost bedded pack barns (CB) are two newer housing options for dairy producers in the Upper Midwest. The CV barns are fully enclosed facilities that rely on mechanical ventilation and typically use evaporative cooling for heat abatement during the warmer months. The CB barns are a loose housing system that is generally bedded with dry wood sawdust...

[View Abstract](#)

**Tools**

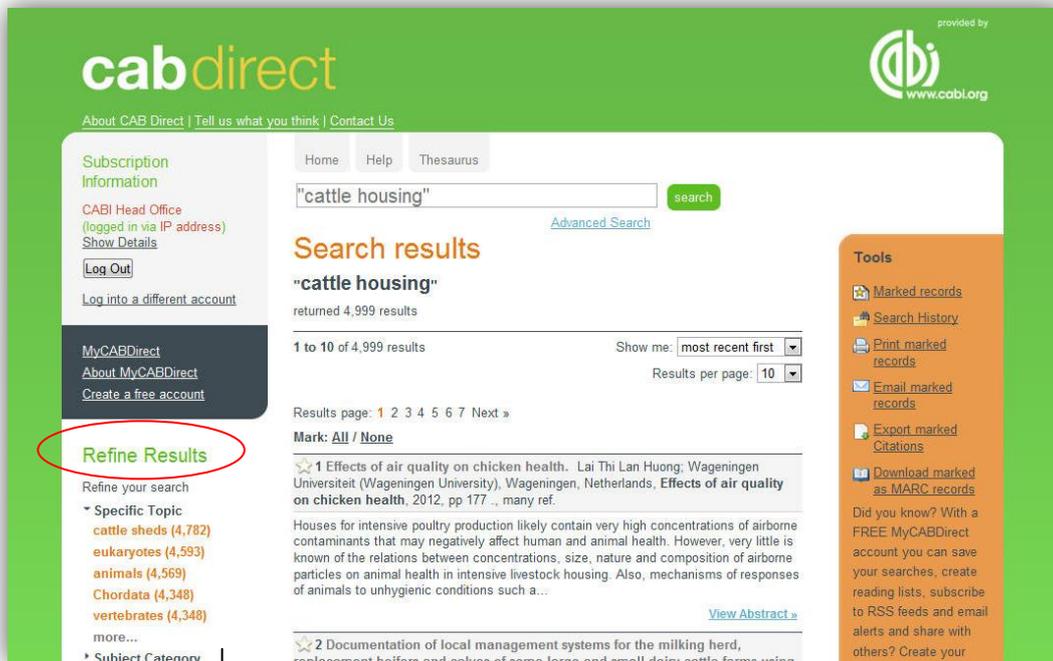
- [Marked records](#)
- [Search History](#)
- [Print marked records](#)
- [Email marked records](#)
- [Export marked Citations](#)
- [Download marked as MARC records](#)

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**About CAB Direct**

Over 9 million bibliographic and full text applied life science articles hand picked by our team of experts

## Refining Search Results



The screenshot shows the CABDirect search results page for the query "cattle housing". The page features a search bar with the query, a search button, and a search results section. The search results section displays the number of results (4,999), sorting options (most recent first), and results per page (10). A "Refine Results" button is highlighted with a red circle. To the left of the search results, there is a sidebar with navigation options and a list of search terms to refine the results. The "Refine Results" sidebar is expanded, showing a list of search terms and their corresponding record counts.



**Refine Results**

Refine your search

- ▾ Specific Topic
  - cattle sheds (4,782)
  - eukaryotes (4,593)
  - animals (4,569)
  - Chordata (4,348)
  - vertebrates (4,348)
  - more...
- ▾ Subject Category (CABICODE)
- ▾ Year of publication
- ▾ Source Title
- ▾ Author
- ▾ Geographic location
- ▾ Language
- ▾ Full Text
- ▾ Your CABI Databases

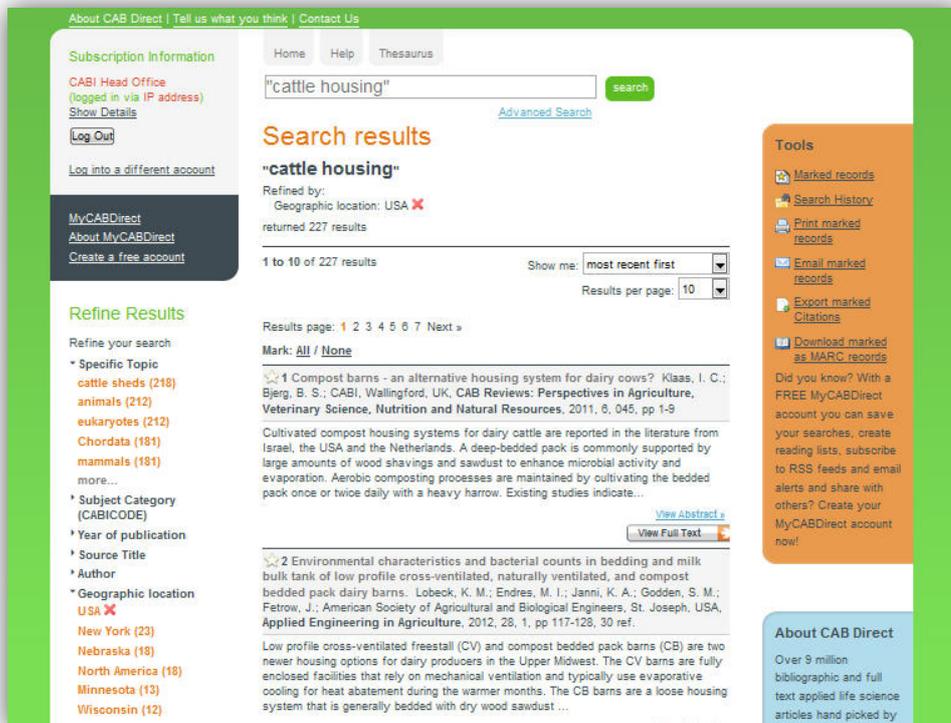
To the left of the displayed records, is a list of options to “Refine Results”. These expandable lists of search terms have been built from the current search results, by analyzing the content of the retrieved records. The most frequently occurring terms, names, codes and dates, that appear in the various fields of the database records, are listed in order of occurrence and, next to each term, is the number of records, from the current results list, that contain that particular term, name, code or date.

Each entry in a list is a clickable, search link which, if clicked, will refine (or limit) the current search to records containing that particular entry. The full list of Refine options is shown below.

The Refine options include:

<b>Specific Topic</b>	CABI's controlled indexing terms, used to index all the major concepts in the original article. Useful for finding just the really important papers.
<b>Subject Category (CABICODES)</b>	Concept codes, and associated headings, used to code for broad subject areas.
<b>Year of Publication</b>	Year of Publication of the original article.
<b>Source Title</b>	Title of the publication in which the article was published.
<b>Author</b>	Personal and corporate authors and editors names.
<b>Geographic Location</b>	Terms used to index important geographical concepts in the original article.
<b>Language</b>	Language of the original article.
<b>Full Text</b>	This link will limit your search results to database records with links to CABI's Free Full Text database.
<b>Your Subscriptions</b>	This link allows user to limit their results to records from, or relating to, particular CABI databases.

To view the lists, expand them by clicking on them. Click **more...** to expand the list fully, as required. To refine your search, simply click your chosen entry. A new search will be run, which will combine this new entry with your previous search, refining the results to a smaller, more relevant list of records. In the following screenshot, we have Refined our original search for "Cattle Housing" to the Geographic Location, USA.



The screenshot shows the CABI search results page for the query "cattle housing". The search results are refined by geographic location to "USA", returning 227 results. The page displays a list of search results, with the first two results visible. The first result is titled "1 Compost barns - an alternative housing system for dairy cows?" and the second is "2 Environmental characteristics and bacterial counts in bedding and milk bulk tank of low profile cross-ventilated, naturally ventilated, and compost bedded pack dairy barns." The page also includes a sidebar with "Refine Results" and "Tools" sections.

**Subscription Information**  
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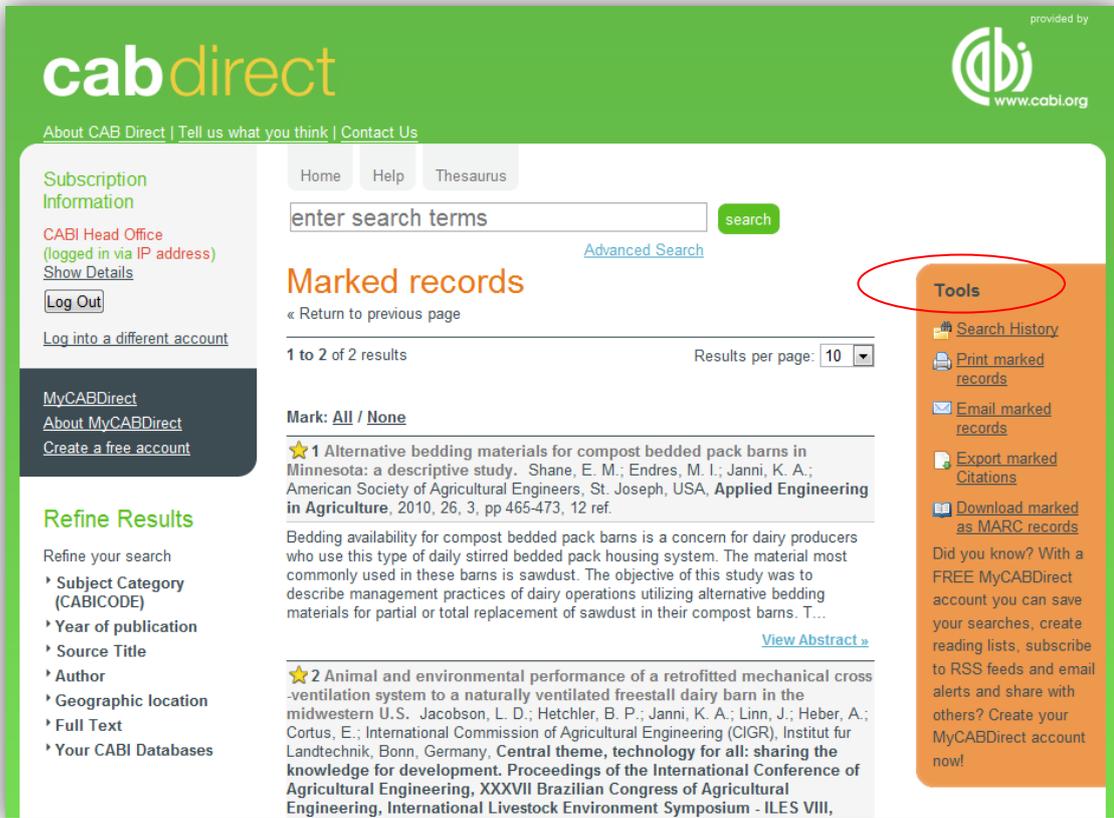
**Refine Results**  
 Refine your search:  
 \* **Specific Topic**  
 cattle sheds (218)  
 animals (212)  
 eukaryotes (212)  
 Chordata (181)  
 mammals (181)  
 more...  
 \* **Subject Category (CABICODE)**  
 \* **Year of publication**  
 \* **Source Title**  
 \* **Author**  
 \* **Geographic location**  
 USA ✖  
 New York (23)  
 Nebraska (18)  
 North America (18)  
 Minnesota (13)  
 Wisconsin (12)

**Search results**  
 "cattle housing"  
 Refined by:  
 Geographic location: USA ✖  
 returned 227 results  
 1 to 10 of 227 results  
 Show me: most recent first  
 Results per page: 10

**Tools**  
[Marked records](#)  
[Search History](#)  
[Print marked records](#)  
[Email marked records](#)  
[Export marked Citations](#)  
[Download marked as MARC records](#)  
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## Outputting Records



cabdirect

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Home Help Thesaurus

enter search terms  [Advanced Search](#)

**Marked records**

« Return to previous page

1 to 2 of 2 results Results per page: 10

Mark: All / None

★ 1 Alternative bedding materials for compost bedded pack barns in Minnesota: a descriptive study. Shane, E. M.; Endres, M. I.; Janni, K. A.; American Society of Agricultural Engineers, St. Joseph, USA, *Applied Engineering in Agriculture*, 2010, 26, 3, pp 465-473, 12 ref.

Bedding availability for compost bedded pack barns is a concern for dairy producers who use this type of daily stirred bedded pack housing system. The material most commonly used in these barns is sawdust. The objective of this study was to describe management practices of dairy operations utilizing alternative bedding materials for partial or total replacement of sawdust in their compost barns. T...

[View Abstract »](#)

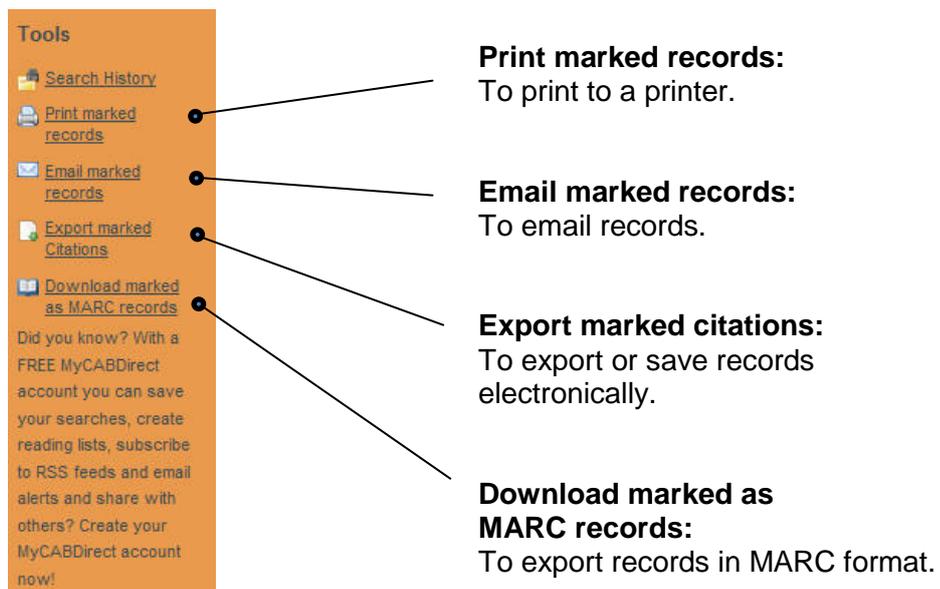
★ 2 Animal and environmental performance of a retrofitted mechanical cross-ventilation system to a naturally ventilated freestall dairy barn in the midwestern U.S. Jacobson, L. D.; Hetchler, B. P.; Janni, K. A.; Linn, J.; Heber, A.; Cortus, E.; International Commission of Agricultural Engineering (CIGR), Institut für Landtechnik, Bonn, Germany, *Central theme, technology for all: sharing the knowledge for development. Proceedings of the International Conference of Agricultural Engineering, XXXVII Brazilian Congress of Agricultural Engineering, International Livestock Environment Symposium - ILES VIII,*

**Tools**

- [Search History](#)
- [Print marked records](#)
- [Email marked records](#)
- [Export marked Citations](#)
- [Download marked as MARC records](#)

Did you know? With a FREE MyCABDirect account you can save your searches, create reading lists, subscribe to RSS feeds and email alerts and share with others? Create your MyCABDirect account now!

Once you have completed your search, you will want to print or export the results. There are four basic output options, available in the orange box marked **Tools**. These are:



**Tools**

- [Search History](#)
- [Print marked records](#)
- [Email marked records](#)
- [Export marked Citations](#)
- [Download marked as MARC records](#)

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**Print marked records:**  
To print to a printer.

**Email marked records:**  
To email records.

**Export marked citations:**  
To export or save records electronically.

**Download marked as MARC records:**  
To export records in MARC format.

To output records, you first have to Mark the records in which you are interested. Records can be Marked, individually, by checking the small star icon  to the left of the record number. If you want to output all the records displayed on the current page, you can do this by clicking the [Mark: All](#) link, that appears just above the first record. This will Mark all the records displayed on the current page.

The Marked records will be added to a temporary Marked List. This list can be output immediately or added to throughout the current search session. The Marked list will build, as you add extra records during the current search session. Before outputting the Marked records, you can view the complete Marked List by clicking on Marked records at the top of the orange Tools box. A Marked List example is shown below:

If required, records can be removed individually, by clicking the star icon, next to the record, or the complete Marked List can be emptied by clicking the Mark None option.

The Marked records can now be output by choosing one of the four options to Print, Email, Export or Download. The first three of these options will offer you the choice of three formats, Citation Only, Citation + Abstract and Full Record.

### Email

If you choose the Email option, you will also be offered the choice to send the records either as the e-mail text, as an attached Text (txt) file or as an attached HTML file. Once you have made your selection and entered the e-mail address, click the Send email button. Choose the attached Text file if you want to edit the records with a word processor.

### Export

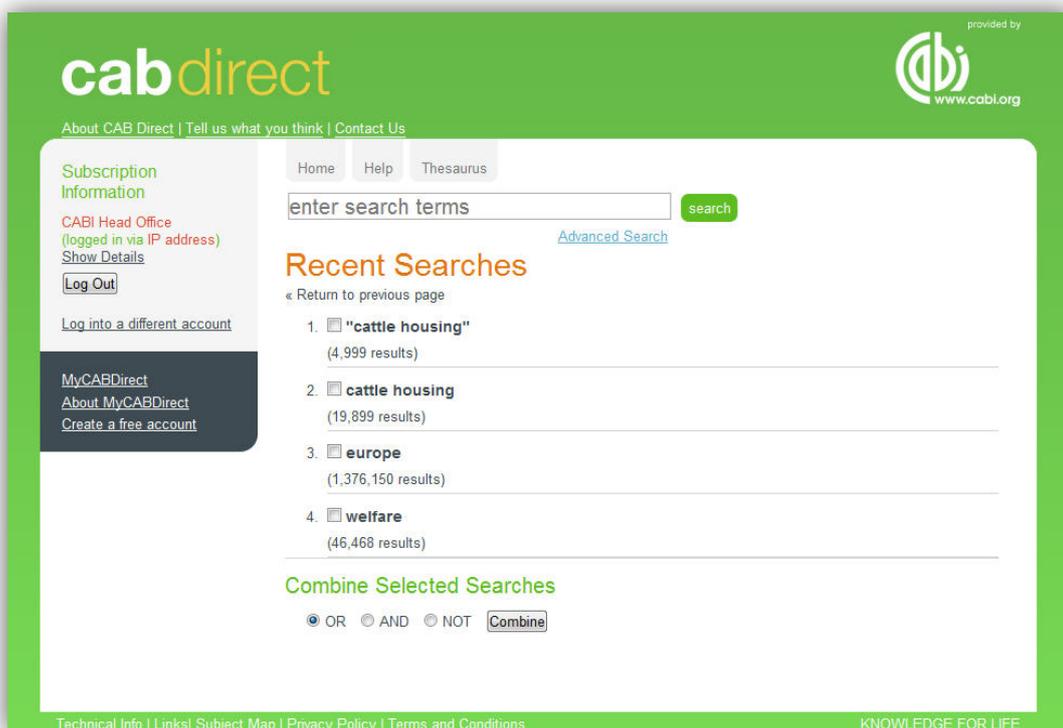
The Export function allows users to save the records, as an electronic file, which can then be imported into a personal database management system like Procite, EndNote or Reference Manager. These three software packages use the .RIS file format. To download records as a “dot” RIS file, choose the record format that you want and then click on the Export EndNote (RIS) format button, to save the records. If you subscribe to RefWorks, the online Database Management Service, you can directly Export the records into your Refworks database by clicking on the Export to Refworks button.

## Download as MARC records

The last output option is the Download marked as MARC records. This option allows users to download the records in a standard MARC record format and is particularly useful for users who also have access to the CAB eBooks service and wish to download the bibliographic details, for these eBooks, from the CAB Abstracts database.

## Search History:

As you search, a History is created, which lists all the searches performed in the current search session. To see this list, simply click on the [Search History](#) link in the orange **Tools** box to the right of the Search Results screen. This will display the Search History screen, as shown below.



The screenshot shows the CAB Direct search history interface. At the top, there is a search bar with the text "enter search terms" and a green "search" button. Below the search bar, there are navigation links for "Home", "Help", and "Thesaurus". The main content area is titled "Recent Searches" and lists four search entries, each with a checkbox and the number of results:

- 1.  "cattle housing" (4,999 results)
- 2.  cattle housing (19,899 results)
- 3.  europe (1,376,150 results)
- 4.  welfare (46,468 results)

Below the list, there is a section titled "Combine Selected Searches" with radio buttons for "OR", "AND", and "NOT", and a "Combine" button. The "OR" option is selected. The footer of the page includes "Technical Info | Links | Subject Map | Privacy Policy | Terms and Conditions" and the slogan "KNOWLEDGE FOR LIFE".

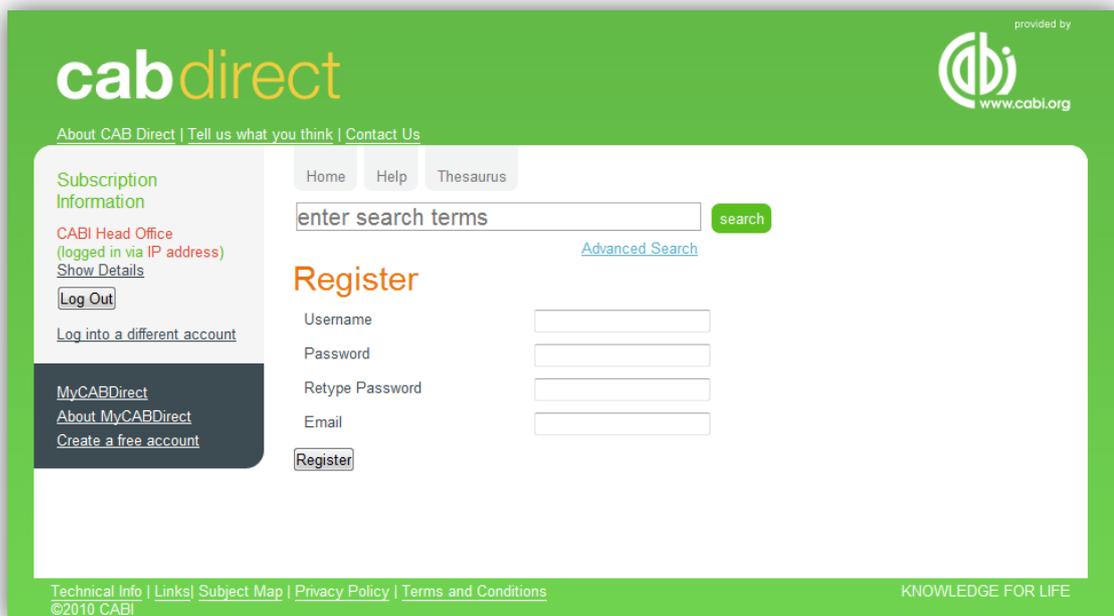
This screen shows the searches and the results. You can re-run any of the searches in the list by simply clicking on the search string ("cattle housing", for example). You can also use this screen to combine the results from different searches, to create a new search. In the example, shown above, we might wish to combine all three searches together with AND to retrieve records on the welfare of cattle housing in Europe. To combine searches, simply check the box next to the searches you wish to combine, select the Boolean Operator you wish to use (AND, OR or NOT), and click the Combine button.

A fourth search "set" will be created comprising all the relevant records. Note, this Search History is not saved when you Logout. However, if you wish to save a search, to re-use at a later date, you can do this by signing up to a MyCABDirect account.

## MyCABDirect

If you set up a personal MyCABDirect account, you can personalise the site and make use of some additional, useful features of CAB Direct.

To create a free, MyCABDirect account, simply click the Create a free account link in the grey box to the left of the screen. You will see the following registration screen:

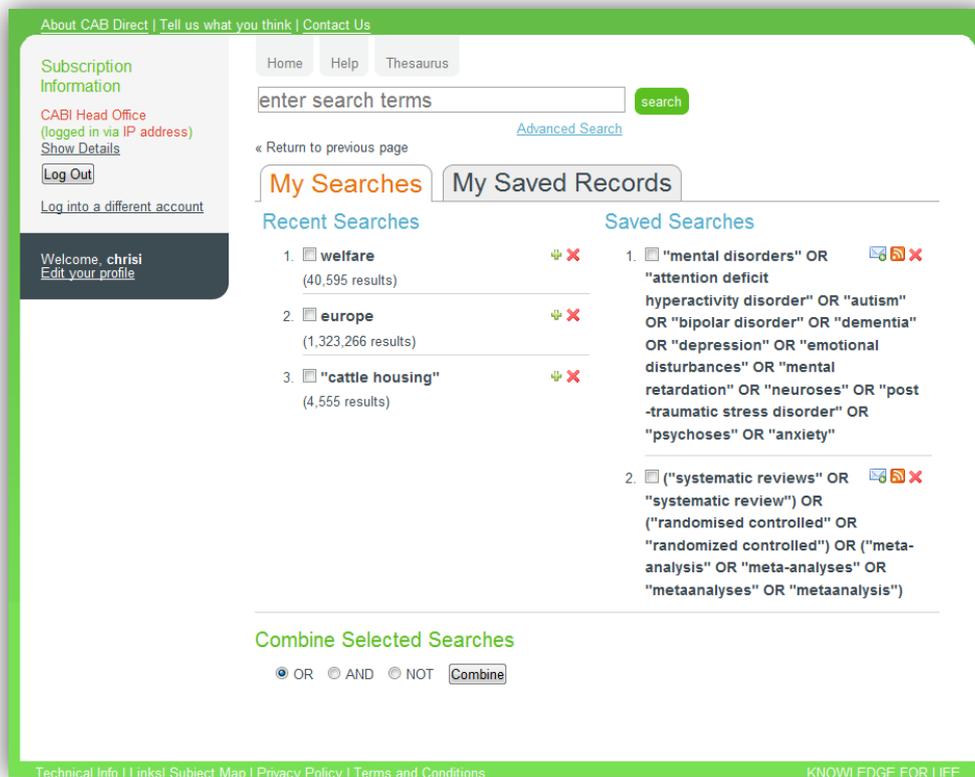


The screenshot shows the MyCABDirect registration page. The page has a green header with the 'cabdirect' logo and the CABI logo with 'www.cabi.org'. Below the header, there are navigation links: 'Home', 'Help', and 'Thesaurus'. A search bar contains the text 'enter search terms' and a green 'search' button. To the right of the search bar is a link for 'Advanced Search'. The main content area is titled 'Register' and contains a registration form with the following fields: 'Username', 'Password', 'Retype Password', and 'Email'. A 'Register' button is located below the form. On the left side, there is a sidebar with 'Subscription Information' and a 'Log Out' button. Below that, there is a grey box with the text 'MyCABDirect', 'About MyCABDirect', and 'Create a free account'. At the bottom of the page, there are links for 'Technical Info', 'Links', 'Subject Map', 'Privacy Policy', and 'Terms and Conditions', along with the text '©2010 CABI' and 'KNOWLEDGE FOR LIFE'.

After you have filled in the details, click the **Register** button to create your account. Each time you use CAB Direct, you can Log in to your MyCABDirect account, by clicking the MyCABDirect link and entering your personal username and password. When you have logged into your account, you will be able to Save Search Histories, Save individual database records and set up Automatic Email Alerts and RSS feeds.

If you click the MyCABDirect link, you will be taken to your personalised, MyCABDirect page, where you will see all your temporary searches and your saved searches and records. Here you will also be able to permanently save

selected Search Histories, set up e-mail Alerts and RSS feeds and view your Saved records.



The screenshot shows the CABI Direct user interface. At the top, there are navigation links: Home, Help, and Thesaurus. A search bar is present with the text "enter search terms" and a "search" button. Below the search bar, there are tabs for "My Searches" and "My Saved Records". The "My Searches" tab is active, showing a list of recent searches:

- 1. **welfare** (40,595 results)
- 2. **europe** (1,323,266 results)
- 3. **"cattle housing"** (4,555 results)

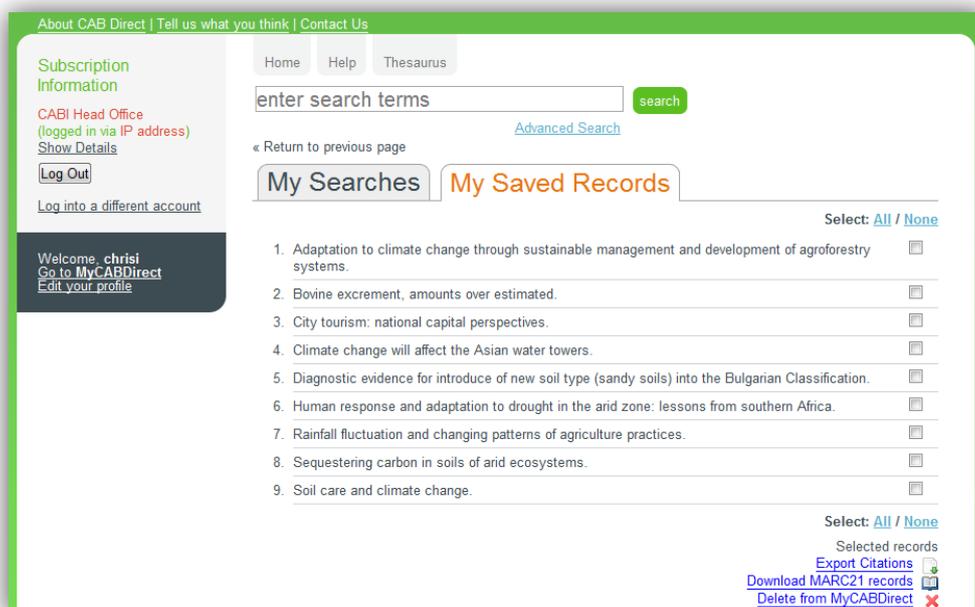
Each search entry has a small icon and a red 'X' icon. Below the list, there is a section for "Combine Selected Searches" with radio buttons for "OR", "AND", and "NOT", and a "Combine" button. The "My Saved Records" tab is also visible, showing a list of saved searches:

- 1. **"mental disorders" OR "attention deficit hyperactivity disorder" OR "autism" OR "bipolar disorder" OR "dementia" OR "depression" OR "emotional disturbances" OR "mental retardation" OR "neuroses" OR "post-traumatic stress disorder" OR "psychoses" OR "anxiety"**
- 2. **("systematic reviews" OR "systematic review") OR ("randomised controlled" OR "randomized controlled") OR ("meta-analysis" OR "meta-analyses" OR "metaanalyses" OR "metaanalysis")**

At the bottom of the page, there are links for "Technical Info", "Inks", "Subject Map", "Privacy Policy", and "Terms and Conditions". The CABI logo and "KNOWLEDGE FOR LIFE" are also visible.

From this page, you can also combine searches or rerun searches, simply by clicking on the Search Statement of interest.

The My Saved Records allows you to manage and output saved records.



The screenshot shows the CABI Direct user interface with the "My Saved Records" tab active. The page displays a list of saved records:

1. Adaptation to climate change through sustainable management and development of agroforestry systems.
2. Bovine excrement, amounts over estimated.
3. City tourism: national capital perspectives.
4. Climate change will affect the Asian water towers.
5. Diagnostic evidence for introduce of new soil type (sandy soils) into the Bulgarian Classification.
6. Human response and adaptation to drought in the arid zone: lessons from southern Africa.
7. Rainfall fluctuation and changing patterns of agriculture practices.
8. Sequestering carbon in soils of arid ecosystems.
9. Soil care and climate change.

At the bottom of the list, there are links for "Selected records", "Export Citations", "Download MARC21 records", and "Delete from MyCABDirect".