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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:

heart disease in europe

In a Natural Language search, the system will automatically select just the important words, in this case, Heart, Disease and Europe, and will ignore all the other irrelevant terms. The search is performed by clicking the green search 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 as commonly known, as shown below:

heart disease europe

The terms will be combined with AND, as before, with the same search result.
Word-stemming/Truncation:

The CAB Direct search interface offers automatic word-stemming which means that many of the terms that you search for will automatically retrieve additional words based on the "stem" of your search term. In most cases, this improves the retrieval of records. However, in some cases, it may retrieve unwanted records. To turn off word stemming, especially on single word search terms, enclose the terms in double quotes (e.g. “wellness”).

Word-stemming actually reduces the need for truncation, but this can still be used, if required. 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:

Phrase Searching:

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

"heart disease"

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

"heart disease" europe "risk factors"

The retrieved records will contain all three search terms “ANDed” 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. The AND operator is “implied”, and doesn’t need to typed into your search statement, but you can type it in, if you wish to, as shown below.

"heart disease" AND europe AND "risk factors"

The AND may be typed in upper case or in lower case.

Linking Search Terms with “Boolean Operators”:

The AND operator, discussed above, is one of three commonly used “search operators” called “Boolean Operators”. 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 diagnosis, treatment or care. If we simply type in the three terms diagnosis treatment care, 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:

```
diagnosis OR treatment OR care
```

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 **diagnosis** but **not** **treatment**. To do this, use the **NOT** operator, as shown below:

```
diagnosis NOT treatment
```

This search will find all the records containing the word **diagnosis**, but will exclude any record that includes the word **treatment**. 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 heart or lung disease diagnosis but not treatment. We need to find all the records about heart **OR** lung and then **AND** this set of records with the terms **disease** **AND** **diagnosis**. Having created this set of records, we need to remove, using **NOT**, any records that include the term **treatment**. In this search, we need to use **AND**, **OR** and **NOT**, as shown below:

```
heart OR lung AND disease AND diagnosis NOT treatment
```

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 heart **OR** lung, and then we want to combine this group (or set) of records with the words **disease** **AND** **diagnosis** and, once this second operation has been completed, the final operation is to remove the records containing the word **treatment**. 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:

```
(heart OR lung) AND disease AND diagnosis NOT treatment
```

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

```
((heart OR lung) AND disease AND diagnosis) NOT treatment
```

And, because the **NOT** operation is outside both sets of brackets, this will be performed last. We can now click the search button and the search will 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 on the next page. 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 this 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, or Document details display screen, as shown below.
Refining Search Results:

To the left of the displayed records, in the Results Display screen, 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:

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

To view the lists, expand them by clicking on the heading. 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 “Heart Disease” to the “Geographic Location” USA.
Outputting Records:

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:

- **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 (maximum 1,000 records). 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:
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 box to the right of the Search Results screen. This will display the Search History screen, as shown below.
This screen shows the searches and the record numbers. You can re-run any of the searches in the list by simply clicking on the search string ("heart disease", 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 the two searches on heart disease OR lung disease together. 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 new 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:

After you have filled in the details, click the button to create your account.
Each time you use CAB Direct, you can Log in to your MyCABDirect account, by clicking the link and entering your personal username and password. When you have logged into your account, you will be able to Save Marked Records to MyCABDirect.

If you click the link, you will be taken to your personalised, MyCABDirect page, where you will see all your temporary searches. 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.

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.
1. Adaptation to climate change through sustainable management and development of agroforestry systems.
2. Bioenergy: exometristic, amounts over estimated.
3. City tourism: national capital perspectives.
4. Climate change will affect the Asian water towers.
5. Diagnostic evidence for introduction 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. Sequestration carbon in soils of and ecosystems.
9. Soil care and climate change.