

PABRA DATABASE

<http://database.pabra-africa.org/?location=help>

Home

Breeding

Seed Systems

ICM

Capacity Building

Nutrition

Socio Economics

Marketing

Others

About us

Help



For futhur help visit

<http://database.pabra-africa.org/?location=contact>

1. Introduction

This manual provides a step by step approach to the features and use of the web site for relevant information retrieval, We assume that the user has the Link “<http://database.pabra-africa.org>” so when the user opens the website the following window appears, with sub menu buttons which give access to all routines in the site and these are divided into several sections which include:

Home, Breeding, Seed Systems, Integrated Crop Management (ICM), Capacity Building, Nutrition, Reports, Marketing, Others (admin and contact), about us and Help. (*Below is the displayed image of the home page*)

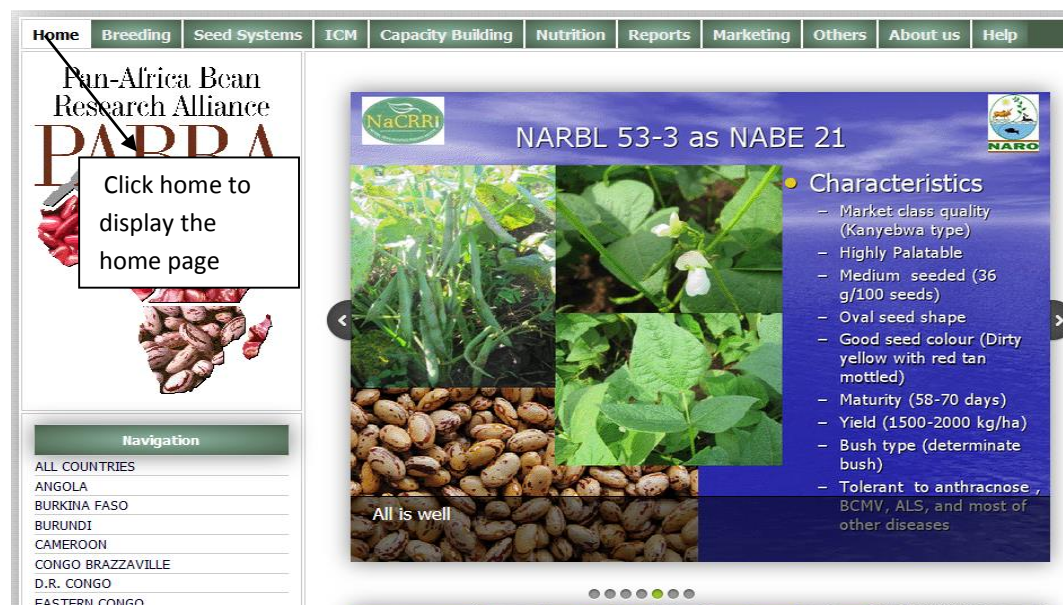


Figure 1: Home page of the PABRA database

Displayed image of the home page: The displayed perpetual/flicking image on the home page center can be replaced with other images by authorized individuals with the proper administrative access to the online database where information are stored.

1.1 Structure of this manual

This manual has been structured according to the key thematic areas of Breeding, Seed Systems, Integrated Crop Management (ICM), Capacity Building, Nutrition, and marketing, other important tabs include Reports and Others (admin and contact).

In each of these sections, the manual will highlight how the user can be able to access, views, query and populate information resident in the database. Some sections will have links to external sites that provide additional information to what we have in the database.

1.2 General Layout of database

The database has been structures into 2 distinct layouts, the back end that is restricted to authorized users and the front end that this manual explains and illustrates. The table below gives a summary of the major layout features of the database (Front end).

(Please make reference to Figure 1)

#	Section	Description	Summary functions
1	Left Navigation Panel	This section contains country specific navigation options. It also PABRA regional groupings (ECABREN, SABREN and WECA BREN)	This allows a user to be able to navigate for information based on a country of interest as opposed to the general. General data/ information is got by clicking the home tab.
2	Top Menu	Is arranged according to the thematic areas, it also includes the other, help and reports tabs	Clicking on each of the menu links will give you a specific page that displays information related to that (See section <i>Breeding, Capacity Building, ICM, Seed Systems, Nutrition/Products and Markets Inner page general layout</i>) for more details
3	Maps	For each of the pages accessed using the links on the left navigation, a map is displayed to show the geographical location	
4	Footer	Contains copyright ownership and visitor counter to help know the number of users that have accessed the database as of data.	

Table 1: *Summary of user end layout and functionality*

1.3 Breeding, Capacity Building, ICM, Seed Systems, Nutrition/ Products and Markets Inner page general layout

The pages listed above have the same layout though with subject specific data/ information, using the tabs in the menu, one can be able to access respective pages. The illustrations below identify and explain some of the salient features of the general layout. The figure 2 below is that of the products page that will be used to explain the layout as it applies to all pages.

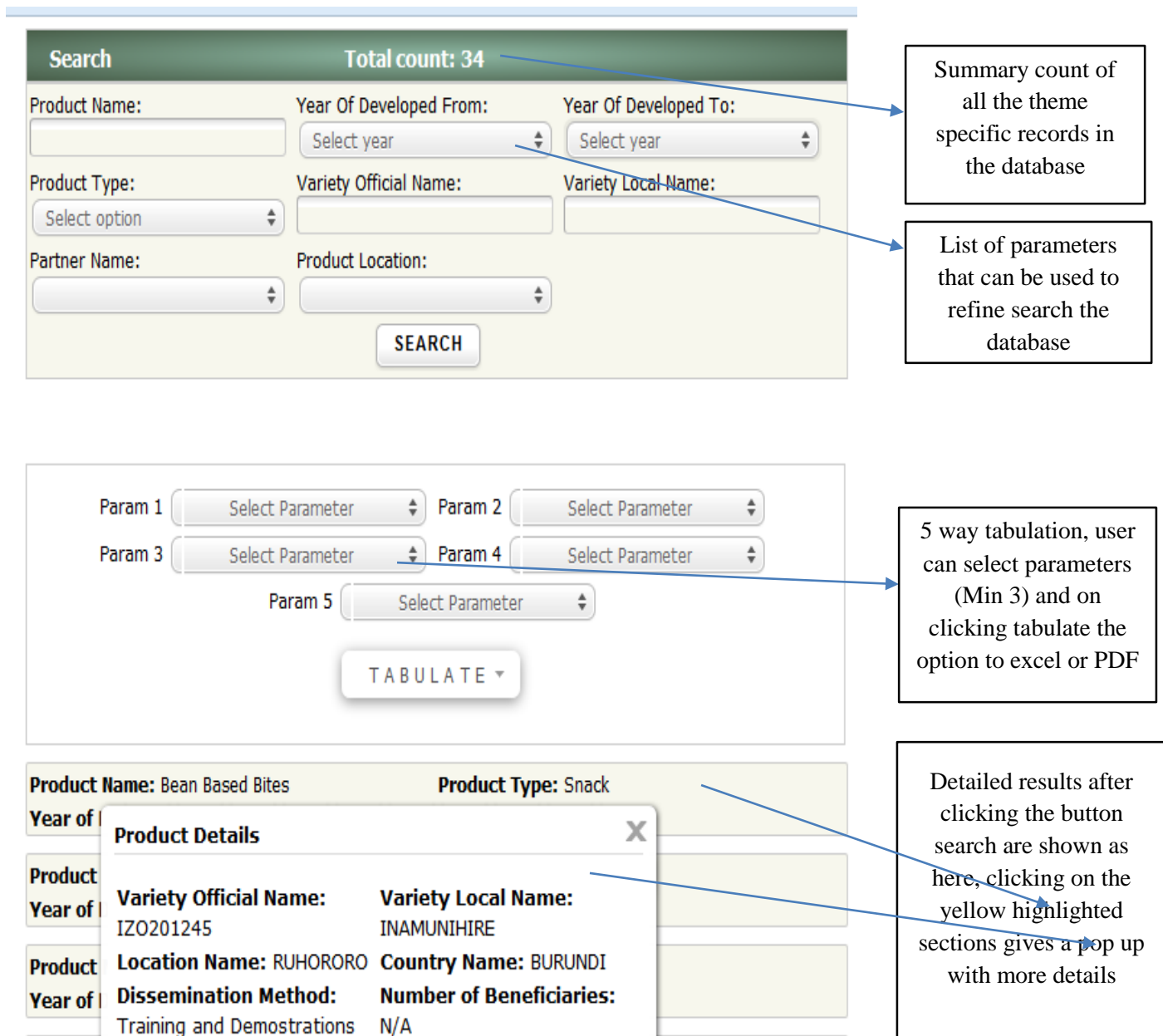


Figure 3: Summary layout of pages

1.4 Summary of General and page layout(s)

The interfaces shows a list of African countries in the network to the extreme left and some search parameter boxes next to the African continent's map. The search parameters allows users to filter their search based on criteria's chosen/specified in the search boxes. And should you choose to select a Country in the left pane, the displayed information is limited to that Country alone. Equally so, the total count will change to another value specific to the country of choice.

2. Navigating through the database

This section provides a detailed explanation how a user can access each of the pages and be able to navigate the database for data as well as exporting data for further manipulation.

2.1 Breeding

Under the breeding, the user can see several fields which include total count, official name, local name, Source name, year of release (from), year of release (to), Altitude, Temperature, rainfall, plant type days to maturity, 100 seed category color, coat pattern, shape, size, Constraint Stress label Gene pool and purpose of release among others. These values are shown the search section as shown in the example figure 3 above and therefore can be used to search.

The Breeding interface provides a database of nationally registered or released breeding materials and their properties. The total count will vary from time to time as population of the database is a continuous process. The following are the major user functionalities when accessing the breeding page:

- a) Using the url (<http://database.pabra-africa.org/>) one can be able to access the database if an internet connection is available
- b) Click the breeding tab on the top menu to access the breeding information page, the breeding page with a generic layout as explained in figure 3 will be displayed with summary information.
- c) To search for specific information, select the desired parameters and click on the search button, the results of your search will be populated and displayed in the result section (see figure 4 for example). To search based on a specific country, select the desired country on the left panel and results will be specific to that country.
- d) Tabulation: this allows a user to be able to search for specific information and export it to either excel or PDF. Note: To be able to use this a user must be able to provide a minimum of 3 parameters/ selections. The Figure 5 illustrated some of the functionality explained below
 - *Select at least 3 parameters from the list provided*
 - *click the button tabulate, this will run your search query and*
 - *provide an option to either export to excel or PDF*
 - *Options of either open or save will be given on the pop up, the option open will open the file using the either excel or PDF choice you made and save will prompt the user to select a location they want the files to be saved to*

Home
Breeding
Seed Systems
ICM
Capacity Building
Nutrition
Reports
Marketing
Others
About us
Help

Search
Total count: 31

Official Name:
Local Name:
Variety Source:

Year of Release (from):
Year of Release(to):
Altitude:

Temperature:
Rainfall:
Growth Habit:

Day To Maturity (from):
Day To Maturity (to):
100 Seed Category:

Seed Color:
Coat Pattern:
Seed Shape:

Seed Size:
Constraint:
Stress Label:

Gene Pool:
Purpose Of Release:

SEARCH

Param 1
Param 2
Param 3
Param 4
Param 5

Official Name
Shape
Size
Select Parameter
Select Parameter

TABULATE

Altitude: High (>1500 m.a.s)
Rainfall: 500 to 800 mm
Days to Maturity: 110
100 Seed Category: More than 40grams
100 Seed Weight: N/A
Source Name: Private

Temperature: Moderate (15 to 24 Degrees Celcius)
Plant Type: TypeIIb (Bush indeterminate erect branches)
Size: Large
Colour: Cream/Biege
Shape: Kidney
Coat Pattern: Speckled

Local Name: PAN148
Year Of Release: 1950

Local Name: PAN 127
Year Of Release: 1990

Local Name: EMELENI
Year Of Release: 1990

Detailed information from the search result. Clicking on the highlighted yellow section will give this

Breeding search section, a user can more than 1 parameter eg *Year of release (from) to Year of release (to)*. On clicking search the result will be returned as shown below and the count will change

Part of the variety results after searching for specific parameter as explained above

Figure 4: Summary of breeding search functionality

5 way tabulation parameter options

Param 1: Official Name
Param 2: Shape
Param 3: Size
Param 4: Select Parameter
Param 5: Select Parameter

TABULATE

Parameter Values used in tabulation

Official Name: PAN148 Country: ZIMBABWE	Local Name: N/A Year Of Release: 1990
Official Name: PAN 127 Country: ZIMBABWE	Local Name: N/A Year Of Release: 1990
Official Name: PAN 181 Country: SOUTH AFRICA	Local Name: N/A Year Of Release: 1990
Official Name: PAN 182 Country: SOUTH AFRICA	Local Name: N/A Year Of Release: 1990
Official Name: PAN 148 Country: SOUTH AFRICA	Local Name: N/A Year Of Release: 1994
Official Name: PAN 128 Country: SOUTH AFRICA	Local Name: MONATI Year Of Release: 1995

Figure 5: *Breeding tabulation example*

2.2 Seed Systems

The Seed systems interface provides database on seed production and supply. It provides comprehensive information about the Variety official name, seed class, partners involved in the distribution, partner type, quantity supplied and produced, year of supply and production, the beneficiaries, bag sizes and other relevant information. The seed systems interface resembles the breeding one in that the Search, Tabulation and parameter selection operate the same way.

References and examples to this section will be drawn from illustrations provided in the breeding section above, only instances of seed system unique operations will be fully explained/ illustrated in this section.

- a) Using the url (<http://database.pabra-africa.org/>) one can be able to access the database if an internet connection is available.
- b) Click the seed system tab on the top menu to access the seed system information page, the seed system page with a generic layout as explained in figure 3 will be displayed with summary information. The figure 6 below shows a summary of the seed system page.
- c) To search for specific information, select the desired parameters and click on the search button, the results of your search will be populated and displayed in the result section (see figure 4 for example). To search based on a specific country, select the desired country on the left panel and results will be specific to that country.
- d) Tabulation: this allows a user to be able to search for specific information and export it to either excel or PDF. Note: To be able to use this a user must be able to provide a minimum of 3 parameters/ selections. The Figure 5 illustrated some of the functionality explained below
 - *Select at least 3 parameters from the list provided*
 - *click the button tabulate, this will run your search query and*
 - *provide an option to either export to excel or PDF*
 - *Options of either open or save will be given on the pop up, the option open will open the file using the either excel or PDF choice you made and save will prompt the user to select a location they want the files to be saved to*

Research Alliance PABRA

Navigation

- ALL COUNTRIES
- ANGOLA
- BURKINA FASO
- BURUNDI**
- CAMEROON
- CONGO BRAZZAVILLE
- D.R. CONGO
- EASTERN CONGO
- ECABREN
- ETHIOPIA
- GHANA
- GUINEA BISSAU

Search Total count: 351

Variety Official Name: Variety Local Name: Source Name:

Year Of Supply From: Year Of Supply To: Quantity Produced (kg):

Partner Name: Partner Type: Seed Class:

SEARCH

Param 1 Param 2

Param 3 Param 4

Param 5

TABULATE

Official Name: A410 **Seed Class:** Pre-basic
Country: BURUNDI **Year Of Supply:** 2011

Official Name: AND10 **Seed Class:** Pre-basic
Country: BURUNDI **Year Of Supply:** 2009

Official Name: AND10 **Seed Class:** Pre-basic
Country: BURUNDI **Year Of Supply:** 2009

Figure 6: Seed system page, results specific to country Burundi

2.3 Integrated Crop Management (ICM)

The Integrated Crop management (ICM) interface provides a database of pest, disease and soil fertility crop management technologies that are promoted alongside bean seed in order to improve the performance of the bean crop. These technologies are collectively referred to as ICM. The specific fields includes: Name of the technology, Technology type, purpose of the technology, Years of dissemination (From what year to what Year), the partners involved and dissemination locations among others.

- Using the url (<http://database.pabra-africa.org/>) one can be able to access the database if an internet connection is available.
- Click the ICM tab on the top menu to access the ICM information page, the ICM page with a generic layout as explained in figure 3 will be displayed with summary information. The figure 7 below shows a summary of the ICM page.
- To search for specific information, select the desired parameters and click on the search button, the results of your search will be populated and displayed in the result section (see figure 4 for example). To search based on a specific country, select the desired country on the left panel and results will be specific to that country.
- Tabulation: this allows a user to be able to search for specific information and export it to either excel or PDF. Note: To be able to use this a user must be able to provide a minimum of 3 parameters/ selections. The Figure 5 illustrated some of the functionality explained below
 - Select at least 3 parameters from the list provided
 - click the button tabulate, this will run your search query and

- provide an option to either export to excel or PDF
- Options of either open or save will be given on the pop up, the option open will open the file using the either excel or PDF choice you made and save will prompt the user to select a location they want the files to be saved to

The screenshot displays the ICM web application interface. At the top is a navigation bar with tabs: **ms**, **ICM**, **Capacity Building**, **Nutrition**, **Socio Economics**, **Marketing**, **Others**, and **About us**. The **ICM** tab is selected.

Below the navigation bar, a box labeled **ICM Menu** points to the **ICM** tab. A box labeled **Current ICM record count** points to the **Total count: 4582** text in the search header.

The **Search** section contains several input fields and a **SEARCH** button. The fields are:

- Technology:** (text input)
- Technology Type:** (dropdown menu)
- Purpose:** (dropdown menu)
- Dissemination Year (from):** (dropdown menu with "Select year" option)
- Dissemination Year (to):** (dropdown menu with "Select year" option)
- Dissemination Method:** (dropdown menu)
- Partner Name:** (text input)
- Partner Type:** (dropdown menu)
- Dissemination Location:** (dropdown menu)

 A box labeled **ICM search parameter options** points to the dropdown menus.

Below the search section, there are five parameter selection boxes:

- Param 1:** Partner
- Param 2:** Purpose
- Param 3:** Technology
- Param 4:** Year
- Param 5:** Select Parameter (dropdown menu)

 A box labeled **Tabulation parameter options** points to these parameter boxes.

The **ICM Details** section shows:

- Dissemination:** Trials
- Partner:** GITEGA
- Technology:** NPK mineral Fertilizers (14-15-20) kg/ha
- Technology Type:** ISFM (Integrated Soil Fertility Management)
- Purpose:** Optimisation of P level in Kaolisol
- Year:** 1972

 A box labeled **Search results** points to this section.

A dropdown menu for **Param 5** is open, showing the following options:

- Select Parameter
- Dissemination
- Location
- Partner
- Partner Type** (highlighted)
- Purpose
- Technology
- Technology Type
- Year

Figure 7: ICM page layout

2.4 Capacity Building

Capacity Building database presents data on meetings, workshops, training (short and long term i.e. one or two weeks to the duration for an Msc/ Ph.d trainings). These activities are classified by type, description, Location, Participant and Participant Role, Start date and End date and participants nationality. These classification constitutes the parameters that can be used to filter and search for specific information and they can also be selected pairwise to get tabulations on any desired pair.

- a) Using the url (<http://database.pabra-africa.org/>) one can be able to access the database if an internet connection is available.
- b) Click the Capacity Building tab on the top menu to access Capacity Building information page, the capacity building page with a generic layout as explained in figure 3 will be displayed with summary information. The figure 8 below shows a summary of the capacity building page.
- c) To search for specific information, select the desired parameters and click on the search button, the results of your search will be populated and displayed in the result section (see figure 4 for example). To search based on a specific country, select the desired country on the left panel and results will be specific to that country.
- d) Tabulation: this allows a user to be able to search for specific information and export it to either excel or PDF. Note: To be able to use this a user must be able to provide a minimum of 3 parameters/ selections. The Figure 5 illustrated some of the functionality explained below
 - *Select at least 3 parameters from the list provided*
 - *click the button tabulate, this will run your search query and*
 - *provide an option to either export to excel or PDF*
 - *Options of either open or save will be given on the pop up, the option open will open the file using the either excel or PDF choice you made and save will prompt the user to select a location they want the files to be saved to*

Breeding	Seed Systems	ICM	Capacity Building	Nutrition	Reports	Marketing	Others	About us	Help
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Search
Total count: 1503

Activity:
Participant:
Participant Role:
Activity Type:
Start Date:
Location:
End Date:

Capacity Building Details

Start Date: 03/02/2014 **End Date:** 07/02/2014
Description: Meeting **Location:** KAMPALA
Activity Title: Annual Steering Committee Review and Planning Meeting (ECABREN) **Activity Theme:** PABRA Review and planning
Duration: 4 days **Participant Role:** Participant

Contact Details

e-mail: e.katungi@cgiar.org **Address:** CIAT Uganda, Kawanda Research Institute, 13Km Bombo Road, P.O. Box 6247, kampala
First Name: Enid **Last Name:** Katungi
Gender: Female **Nationality:** N/A
Organization: **Phone Number:**

Param 2 Select Parameter
Param 4 Select Parameter
5 Select Parameter

End Date: N/A
Location: KAMPALA

End Date: 07/02/2014
Location: KAMPALA

Detailed participant and activity information

Figure 8: Capacity building page

2.5 Nutrition/ Products

The nutrition and products tabs are grouped together, these 2 aspects have linkage to the breeding information. Products developed are linked to a bean variety that has been developed and promoted in the PABRA network. Hovering your mouse cursor over the nutrition tab will show a dropdown menu for products giving the user an option to select either of the 2 depending on the area of interest.

Note: Section 2.1 to 2.4 present a detailed account on how to access and navigate along pages of interest, those steps to apply to Nutrition and products pages



Figure 9: tab option to access either Nutrition or Products page

A screenshot of the 'Nutrition' page in the web application. The page has a navigation bar with tabs: Systems, ICM, Capacity Building, Nutrition (selected), Reports, Marketing, Others, About us, and Help. Below the navigation bar is a search section titled 'Search' with a 'Total count: 32' indicator. The search section contains several input fields and dropdown menus for filtering results: Variety Official Name, Biofortified, Bean Taste, Protein(%), Iron Raw, Zinc Raw, Product Name, Product Type, Prod. Year Promoted (with a 'Select year' dropdown), Prod. Disse. Method, Product Partner, Product Location, and Number of Beneficiaries. A 'SEARCH' button is located at the bottom of the search section. Below the search section, a 'Seed Details Brief' window is open, displaying information about a specific seed. The 'Seed Details Brief' window has a close button (X) in the top right corner. It is divided into two sections: 'Seed Details Brief' and 'Quality Details'. The 'Seed Details Brief' section shows 'Size: Large', 'Shape: N/A', 'Colour: Pink', and 'Coat Pattern: N/A'. The 'Quality Details' section shows 'Biofortified: N/A', 'Pedigree: N/A', 'Cooking Speed: N/A', 'Fiber Content (mg): N/A', 'Protein (%): N/A', 'Cooking Time Dry: N/A', 'Phytate (ug/g): N/A', 'Bean Taste: N/A', and 'Cooked Soak: N/A'. To the right of the 'Seed Details Brief' window, there are more search filters, including 'n 2', 'n 4', and 'meter', each with a 'Select Parameter' dropdown menu. At the bottom right, there are fields for 'Name: N/A' and 'Of Release: 1961'.

Figure 10: Nutrition page

Search

Total count: 109

Product Name:

Year Of Developed From:

Year Of Developed To:

Product Type:

Variety Official Name:

Variety Local Name:

Partner Name:

Product Location:

SEARCH

Product Details

Variety Official Name:

SUG-131

Location Name:

Rauce-Mozambique

Dissemination Method:

Fairs

Number of Beneficiaries Male:

N/A

Variety Local Name:

MALEPA

Country Name:

MOZAMBIQUE

Number of Beneficiaries:

156

Number of Beneficiaries Female:

N/A

Select Parameter

Select Parameter

Product Type: Dish

Partner: IIAM

Product Name: Bean + yam + roasted groundnut paste

Product Type: Dish

Year of Development: 2014

Product Partner: IIAM

Product Name: Bean Bagia

Product Type: Snack

Year of Development: 2012

Product Partner: IIAM

Figure 11: *Product page showing detailed information of selected product*

3. Other pages

The pages explained in section 2 are the core pages related to the thematic areas of PABRA, the pages explained in this section are supplementary pages to the database and they include reports, Others (Admin and Contact), about us and Help.

3.1 Reports

The reports page shows summary reports in form of tables and graphs, this information could be a result of information found in the database and from other sources compiled by the M&E unit. The information on this page will be changing depending on the relevance of the information needed by the end user or deemed important by the M&E unit.

To access this page, click the reports tab at the menu bar, the page is displayed with the current/ most up to date information.

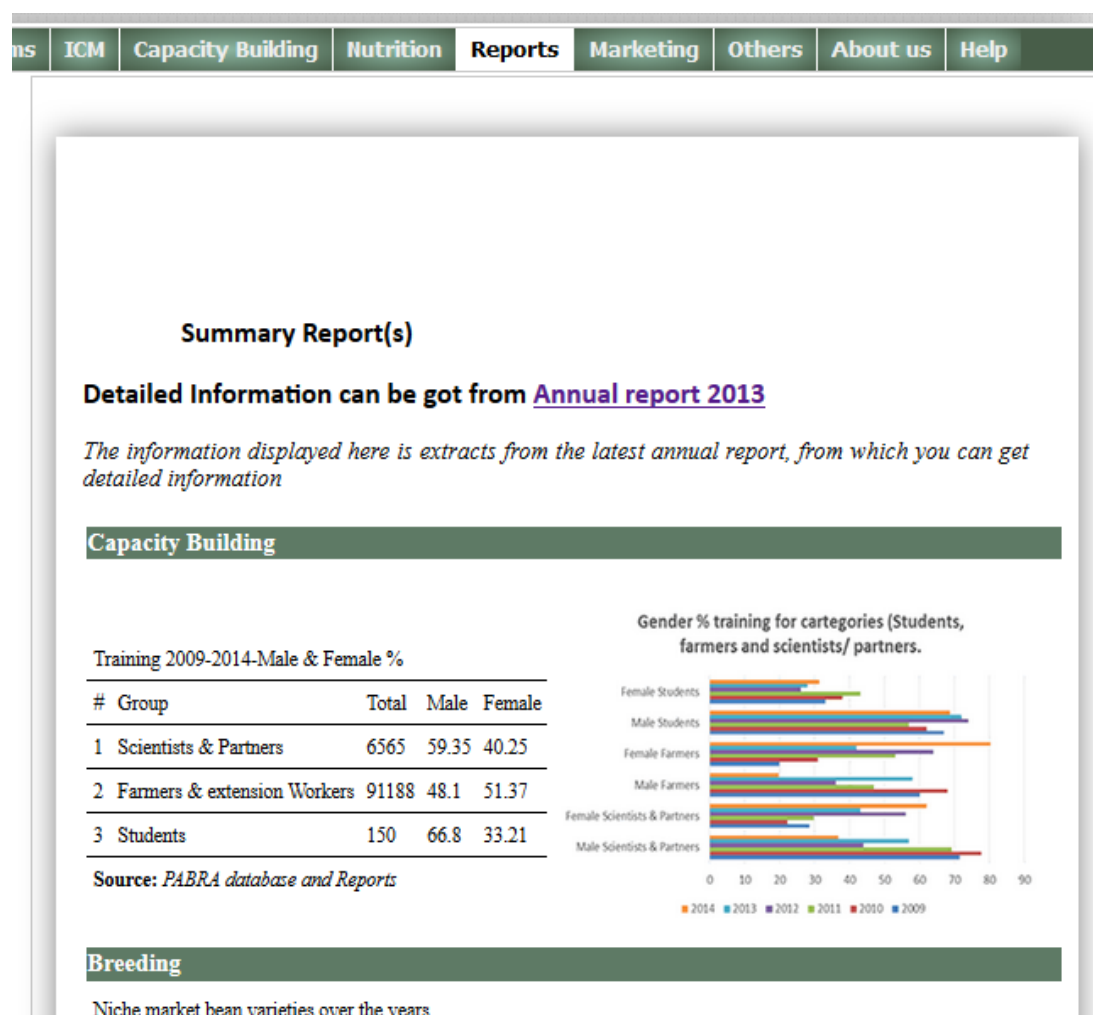


Figure 12: Sample reports page

3.2 Admin

The admin tab which is under the other tab provides a link to the admin page that is used by only authorized users to access the back end of the system. Authorized users will be required to provide a valid user and password to gain access to that section of the system.



Figure 12: Admin access page after clicking the admin tab under others tab.

3.3 Contact

The contact page is accessed under the others tab, it gives information on whom the user can contact in case they need more information related to the database. It also has a feedback form that the user can use to contact person responsible for information on the database.

First Name*:

Last Name*:

Email*:

Message*:

SEND

Pan African Bean Research Alliance (PABRA)
International Center for Tropical Agriculture (CIAT)
c/o National Agricultural Research Laboratories, Kawanda, P. O. Box 6247, Kampala, Uganda
www.ciat.cgiar.org
www.pabra-africa.org

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c/o National Agricultural Research Laboratories, Kawanda, P. O. Box 6247, Kampala, Uganda,
Email: lobilli@cgiar.org

Figure 13: *the contact us page*

3.4 About Us

The about us page provides a highlight of what the PABRA network is all about, it also gives an overview of the rationale behind the database. Persons/ institutions that have been instrumental in providing information for the database are acknowledged in this section.

A supporting African Map showing all these Countries are displayed. Please note that Maps relating to the individuals Countries are displayed when the Country tabs are clicked along with the primary tabs information like (Breeding, Seed Systems, ICM,etc)

3.5 Help

Clicking help provides an online link to this document. This allows you to make an online reference to a set of hints. The help panel provides the opportunity for the users to access download documentation. It requires one to click at the download documentation to access the PABRA database user manual which acts as guide and be able to follow the steps while using the database.

This User manual is downloadable and can be saved in other places for easy accessibility if the user does not have internet.