Detailed Help

TO BEGIN A SEARCH

The web interface is designed to be as intuitive and user-friendly as possible, incorporating common search parameters such as *wild cards* and filtering to narrow search results. The retrieved results are presented in three main steps (or pages); with each step providing more detail on those specimens that meet the user's search criteria. However, in order to limit the display of superfluous data the user is allowed to select those species of interest on which he/she requires more detail.

The functioning of the main search page is divided into two main areas or sections (Figure 1). On the left is the main query form, where search parameters may be submitted. To the right of this panel, the page displays the welcome screen, summaries of search results and specimen images using the ExpressViewTM browser plug-in from LizardtechTM.

— Taxonomic Nomenclature		
Family:		
Genus:		Welcome
Species:		Welcome to the online portal of the University of the West Indies' and Institute of Jamaica's Virtual Herbarium. We are currently
Collection Info		testing our facility and welcome you to be a part of that process. Please feel free to use the query terminal to the left of this message
Main Collector:		to enter your search parameter(s) and when ready click on the "Submit Query" button to begin your search. There are hints that will
Partner(s):		pop-up if you hover your cursor over the respective input boxes.
•		This project began by cataloguing the collections of W. M. Harris at UWJ and G. P. Prostor at IOI, with focus placed on 10.
Accession#:		families/subfamilies/s
UWI-Barcode#: UCWI-		
Collection Date 0000 0	00 🔽 00 🔽	• Annonaceae
Label Text:		Bignoniaceae
Laberrext.		Caesalpiniaceae/Caesalpinioideae
Common Name:		• Euphorbiaceae
Locality Information		• Lauraceae
Country: Jamaica		• Mimosaceae/Mimosoideae
State/Parish/	~	• Moraceae
Province:		Panilionaceae/Faboideae
Town/Locality:		Rubiaceae
Habitat:		
Min. Elev. (ft.):		Data entry continues and currently 1,638 specimen-records are available for query.
Sort By:		Place Notes
O Family 💿 Genus	◯ Tally	riease note:
Submit Query Res	set Form	• In order to view any specimen you will need the following plug-in:
		A percentage sign (%) may be used as a wild card to help with searches. E.g.:
		 Entering species name as "jam%" will return results for those records with species names beginning with "jam".
		 Entering species name as "%mosa" will return results for those records with species names <u>ending</u> with "mosa".
		 when searching for a locality which may have the word "pen" in its name use, "%pen%". If you have any faidheads along a physic them to physic search 2000 when a physic search in
		• It you have any recuback please submit them to philip.rose02/0/uwithona.edu.jm.
1 Done		Second intranet 🖉 🗸 🕄 100%

Figure 1: Main Query Screen of the Jamaican Virtual herbarium Website showing on the left, the main query form for the entry of search parameters and on the right (highlighted by dashed border), the frame in which query results and images are presented.

The main query form consists of a series of text entry fields and pull-down menus, where any and all fields may be used to help narrow one's search results (Figure 2). In any text field, wildcards (e.g. '*', '%' or '_')¹ may be combined with an entry to search for a range of results. This is useful for searching for terms where the user is either unsure of the spelling or requires a range of results based on a pattern (e.g. when searching for specimens collected in the 1800's the user may enter '18%' in the year field for *Collection Date* to retrieve those results; however, entering '18_4' will retrieve specimens collected in the 1800's for those years ending with the numeral 4).

— Taxonomic Nomer	ndature
Family:	
Genus:	
Species:	
)
Collection Info	
Main Collector:	
Partner(s):	
Accession#:	
UWI-Barcode#:	UCWI-
Collection Date (yyyy-mm-dd):	0000 00 🗸 00 🗸
Label Text:	
Common Name:	
Locality Information	on
Country:	Jamaica
State/Parish/ Province:	~
Town/Locality:	
Habitat:	
Min. Elev. (ft.):	
Sort By:	
○ Family ③	Genus 🔿 Tally
Submit Query	Reset Form

Figure 2: Close-up of the main query form of the JVH sowing varying input fields employed and the 4 subsections (field sets) of its layout

The form, itself, is divided into four subsections. These allow the user to search by taxonomic nomenclature, collection information and locality, as well as the results may be sorted according to family, genus or by resulttally. For the purposes of this project only specimens collected in Jamaica can be searched and this parameter is fixed within the *Country* field of the *Locality Information* subsection/field-set.

After entering your parameters click the *Submit Query* button to go to the next step, or *Reset* Form to clear the fields.

¹ Wildcard use: the symbol, '%' or '*', matches any number of characters, even zero characters; while '_' matches exactly any one character

STEP 1: SUMMARY OF SEARCH RESULTS

This is the first step after first entering your search criteria. You are presented with table that reports how many records matched your query in both the University of the West Indies (UWI) and Institute of Jamaica (IOJ) database-tables (Figure 3). In this case there were 49, UWI records and 29, IOJ records. The user may then select either herbarium to continue their search (for this example, the UWI herbarium was selected).

Your query yielded the follo	wing hits for ea	ch database below. Please select the data	base you wish to view	w further results for
	Choice	Database	Records	
	0	University of the West Indies	49	
	0	Institute of Jamaica	63	

Figure 3: First step of search results (right panel shown only) displaying the number of records/specimens that met the search criteria of for the genus entered as 'Calyp%' that occurred within each database table.

Select a database table and click Continue.

STEP 2: DATABASE SEARCH RESULTS

You are now presented with another summary table (Figure 4) that displays the family, botanical and vernacular names for those species matching your search criteria. Included also on this page is the tally or total number of records found for each species (with a grand total at the end of the list); and checkboxes that allows you, the user, to select any or all the species in which he/she was interested. For this example there were 9 species, all belonging to the family Myrtaceae and totalling 49 specimens, found within the UWI database that matched the given search criteria. If you are interested in the species *Calyptranthes zuzygium*, which has 17 specimens in the database, you may select it and continue to the next step (selected items appear highlighted on mouse-over).

		<u>Step 2 - UWI Datal</u>	base Search Results	1	
		Please select those	species of interest		
informati rmation o	on for those items n these specimens	indicated as being "Restricted" have been with please contact the webmaster, Mr. Philip Rose	held due to their endemism (<u>philip.rose02@uwimona.ec</u>	and/or rarity <u>u.im</u>).	in Jamaica. To
<u>#</u>	<u>Family</u>	Botanical Name	<u>Vernacular</u>	Tally	Select
1.	Myrtaceae	Calyptranthes acutissima, Urb.		1	Restricted
2.	Myrtaceae	Calyptranthes chytraculia, (L.) Sw.	Bastard Greenheart	11	
з.	Myrtaceae	Calyptranthes discolor, Urb.	Mountain Bay	1	Restricted
4.	Myrtaceae	Calyptranthes nodosa, Urb.	Rodwood	3	Restricted
5.	Myrtaceae	Calyptranthes pallens, (Poir.) Griseb.		4	
6.	Myrtaceae	Calyptranthes rigida, Sw.		5	
7.	Myrtaceae	Calyptranthes umbelliformis, Krug & Urb.		6	
8.	Myrtaceae	Calyptranthes wilsonii, Griseb		1	Restricted
9.	Myrtaceae	Calyptranthes zuzygium, (L.) Sw.		17	✓
				Total: 4	9 records
		Select All Clear Sel	ections >>Continu	ie>>	

Figure 4: Step two of search results (right panel shown only) displaying a result summary for specimen within the UWI database table that corresponded with the search parameter 'Calyp%' in the *Genus* field.

STEP 3: DETAILED QUERY RESULTS

This final step provides more information regarding the selected species (Figure 5). It displays the family; botanical name; specimen barcode number (not available for IOJ specimens); herbarium accession number; collector; collection date (in yyyy-mm-dd format for UWI specimens, but dd month, yyyy format for IOJ specimens); the altitude the specimen was collected at; the general habitat in which the plant was found; and the location where each specimen was collected. The barcode and accession numbers for the UWI and IOJ specimens respectively, were clickable and provided the user with a JPEG 2000 image of the specimen that could be magnified at points of interest using the Lizardtech ExpressViewTM browser plug-in (Figure 6).

		100	u may click o	in any barcout	s number u	view di) iiiid	ge or that s	peennen	
#	Family	Botanical Name	Barcode	Accession#	Collector	Collection Date	Altitude	<u>Habitat</u>	Location, State/Province, COUNTRY
	Myrtaceae	Calyptranthes zuzygium (L.) Sw.	UCWI01055	5027	Wm. Harris	1893-08-21	N/A		Silver Hill, Portland - JAMAICA
2.	Myrtaceae	Calyptranthes zuzygium (L.) Sw.	UCWI01056	5074	Wm. Harris	1893-11-25	N/A		Silver Hill, Portland - JAMAICA
3.	Myrtaceae	Calyptranthes zuzygium (L.) Sw.	UCWI01057	5075	Wm. Harris	1893-11-25	N/A		Silver Hill, Portland - JAMAICA
4.	Myrtaceae	Calyptranthes zuzygium (L.) Sw.	UCWI01058	5073	Wm. Harris	1893-12-31	N/A		near Bryan's Hill, Clarendon - JAMAICA
5.	Myrtaceae	Calyptranthes zuzygium (L.) Sw.	UCWI01059	5178	Wm. Harris	1894-06-02	N/A		near Bryan's Hill, Clarendon - JAMAICA
5.	Myrtaceae	Calyptranthes zuzygium (L.) Sw.	UCWI01060	5324	Wm. Harris	1894-08-29	N/A		old road to Sheldon, Unknown - JAMAICA
7.	Myrtaceae	Calyptranthes zuzygium (L.) Sw.	UCWI01061	5324	Wm. Harris	1894-08-29	N/A		old road to Sheldon, Unknown - JAMAICA
8.	Myrtaceae	Calyptranthes zuzygium (L.) Sw.	UCWI01062	5338	Wm. Harris	1894-09-07	N/A		Hamilton Town, Unknown - JAMAICA
9.	Myrtaceae	Calyptranthes zuzygium (L.) Sw.	UCWI01063	5549	Wm. Harris	1895-01-15	N/A		Mona Wood, Saint Andrew - JAMAICA

Figure 5: Step three of search results (right panel shown only) displaying a detailed result table for specimen within the UWI database for the species *Calyptranthes zuzygium*.



Figure 6: Close-up of JPEG 2000 image for a specimen of *Calyptranthes zuzygium* (*above*); Control bar located at top of Lizardtech ExpressViewTM browser plug-in (*below*)

