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What is the Crop Finder tool?

- CropFinder is web enabled tool that allow the user to design his output, using the information stored in the database, and try to find information in CropFinder – ICIS DMS database structure with up to 12 query restrictions.
- The two functions of CropFinder are:
 - o Design Outputs
 - Design Queries



Design Outputs.

The user can select what fields wants in his output:

- Factor
 - The list of distinct factor names from the Factor table.
- Study
 - The list of fields from the Study table.
- Traits
 - The list of distinct trait/scale from the Variate table.



Design Output screen

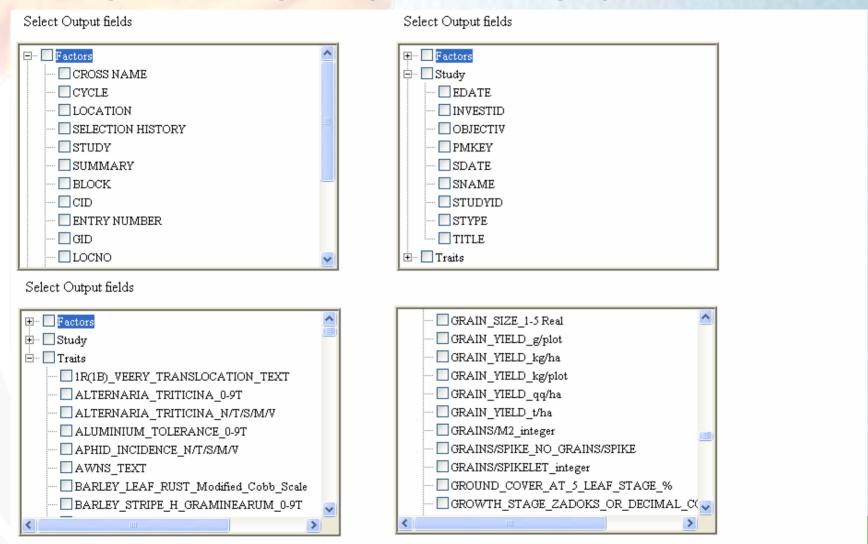
Output Field Selection

Select ouput name	Type Output n	ame
~	Test	New Output
		Field Output order
elect Output fields		Remove Output
l ✓ Factors		Save
- Study		Exit
- V Traits		





Select Output fields option (wheat example):





Query screen

Traits data 3

Traits data 4

Traits data 5

Traits data 6

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Advanced query Select Output: StudyFactorTraits Numeric values Operator Units Factor & Study data 1 Factor & Study data 2 Factor & Study data 3 Text values Factor & Study data 4 Factor & Study data 5 Factor & Study data 6 Submit Numeric values Units Operator Traits data 1 18 GRAIN_YIELD_t/ha >= Traits data 2 PLANT_HEIGHT_cm 120

<=

180

DAYS_TO_MATURITY_days

Text values



Query output

Download

GRAIN_YIELD_t/h	a PLANT_HEIGHT_cn	DAYS_TO_MATURITY_days	TID	CROSS NAME	GID	SELECTION HISTORY	SNAME
10.11	85	115	12008	:			21 ESWYT
10.11	85	115	12008	OASIS/SKAUZ//4*BCN	393205	CMSS93Y04054M-1M-0Y	21 ESWYT
10.19	91	115	12008	:			21 ESWYT
10.19	91	115	12008	OASIS/STAR//3*STAR	369670	CMSS92M04523M-1Y- 8M-1Y-0Y	21 ESWYT
10.27	75	120	12008	;			21 ESWYT
10.27	75	120	12008	PUNJAB 96	376804	-0PAK	21 ESWYT
10.36	97	110	12008	;			21 ESWYT
10.36	97	110	12008	INQALAB 91	1491661	PB19545-9A-0A-0PAK	21 ESWYT
10.41	99	115	12008	3			21 ESWYT
10.41	99	115	12008	SIRKKU	1127595	CMBW91Y01627S-13Y- 010M-010Y-010M-2Y-0M	21 ESWYT
10.49	96	115	12008	3			21 ESWYT
10.49	96	115	12008	PFAU/WEAVER	342202	CMBW90M4-30-0Y	21 ESWYT
10.5	96	115	12008	3			21 ESWYT
10.5	96	115	12008	PFAU/WEAVER	342202	CMBW90M4-30-0Y	21 ESWYT
10.60	0.5	115	12000				21



Advantages

- The user can select any field in the database
- Many query conditions are possible
- Download facility for output
- Easy to use
- Scripts available in order to create the database and Control tables of CropFinder

Disadvantages

- DMS data will be imported into Sql Server database.
- Windows environment in the server side.

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Improvements

- Changes on backend (database structure) in order to improvement the time response.
- Include the "%" character for search in character fields.
- Timeout property for search engine could be change in parameters file.



Next steps..

- Test with other databases engines like MySql or PostgreSql.
- Add Ajax technology.
- Test with others ICIS DMS crops
- Development an administrative interface in order to make "user friendly" management of the tool. E.g. Add/remove fields.
- Implement improvements like: Column order in the output, description of acronyms, statistics, etc. suggested by IRRI partners
- Other suggestions?



URL for:

Wheat:

http://sas.cimmyt.org/cfiwis

Maize :

http://sas.cimmyt.org/cropfinderimis

