



TWV/45/22

ORIGINAL: English

DATE: July 5, 2011

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

TECHNICAL WORKING PARTY FOR VEGETABLES

Forty-Fifth Session
Monterey, United States of America
July 25 to 29, 2011

ELECTRONIC APPLICATION SYSTEM OF THE CPVO

Document prepared by an expert from the European Union

1. The Technical Working Party for Vegetables (TWV), at its forty-fourth session, held in Veliko Tarnovo, Bulgaria, from July 5 to 9, 2010, agreed that it would be of great interest to receive a presentation by an expert of the Community Plant Variety Office (CPVO) of the European Union on the CPVO e-filing system at the forty-fifth session of the TWV.
2. The expert from the European Union agreed to make a presentation in relation to Electronic application systems, in particular that covered by Proposal 2 "Use of information provided in an electronic version of the UPOV Model Application Form and Model UPOV TQ".
3. The CPVO has offered the possibility to make electronic applications to its applicants since March 2010. However, this is only possible for varieties of species for which an electronic technical questionnaire (e-TQ) has been created by the CPVO, and only in English. The application form and technical questionnaire are based upon the UPOV models, although modified to take into account specific aspects of the EU legislation on Community plant variety rights. Since then, the CPVO has steadily increased the number of e-TQs available to applicants based upon the relative importance of that species in the Community rights system (calculated by number of applications). So far, over 60 e-TQs are available, including those for the top 10 vegetable species, and many more will be put on line by the end of the year. The specific e-TQs so far provide coverage for about 80% of applications filed with the CPVO to date. Since e-filing became possible as from March 2010, the number of such

e-applications has steadily increased, although there are differences in each crop sector, as is illustrated below:

Crop Sector	e-applications since March 2010	% e-application in relation to total applications
Agriculture	63	6%
Vegetable	144	25%
Onamental	415	20%
Fruit	6	3%
TOTAL	628	16%

4. The CPVO is currently working with member States of the European Union in order to eventually make this system or its template available to them for their national plant breeders rights and national listing systems. If the system subsequently works well, the CPVO contemplates sharing this technology in the future with other interested members of UPOV.

5. The subject matter is explained in more detail in the presentation in the annex to this document.

[Annex follows]



Electronic application systems

CPVO e-filing

**UPOV TWV/45 Session
Monterey, USA, 25-29 July 2011**

Sergio Semon

1

The CPVO on line application system

- Introduction
- How to access?
- The application form
- The technical questionnaire
- Statistics about the use of the system
- Ongoing and future developments
- Sharing the System with National Authorities



2

The CPVO on line application system

Introduction

- The Office released its on-line application system in March 2010
- For a limited number of species, which gradually increased
- System only available in English for the moment



The CPVO on line application system

Introduction

- System developed internally with the help of an external company
- Technical basis: Zend Framework (Open Source software) and Oracle Database.
- Feedback applicants are regularly taken into account and implemented



The CPVO on line application system

Introduction


- Meeting with ESA in March 2011 in order to collect feedback from breeders: proposal to organise workshops



CPVO

Community Plant Variety Office

How to access?



CPVO
Community Plant Variety Office

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Welcome to the Community Plant Variety Office Website

This office is an European Union agency, which manages a system of plant variety rights covering the 27 member States.

CPVO SEMINAR ON ENFORCEMENT OF PLANT VARIETY RIGHTS
HAMBURG, 25 MAY 2011

Agenda, registration form and further information are now available on the CPVO web site under "News"/"Conferences and Special Events"/"Hamburg Seminar"

Involvement of external experts in DUS testing

The Administrative Council of the Community Plant Variety Office approved the involvement of external experts in the conduct of technical examinations (DUS tests) under the condition that certain requirements in respect of the set up of such system are fulfilled.
[Read more...](#)

The CPVO online filing system.

This service enables users to apply for a Community plant variety right online. For the time being this option is only available in English, but the CPVO will make this possibility also available in Dutch, German and French.
The CPVO will continuously extend the offer to other species. Please be aware that paper applications remain of course possible.

[Latest News](#)
Additional species available in online applications



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Online Applications

E-filing (electronic filing) is a service provided by the CPVO, which enables users to apply for a Community plant variety right online.

For the time being this option is only available in English, but the CPVO will make this possibility also available in Dutch, German and French in the future.
[>> Go to the e-filing website](#)

Currently, e-filing can be made in respect of varieties:

TQ reference	TQ name	Species
CPVO-TQ 002-3	Maize	<i>Zea mays</i> L.
CPVO-TQ 003/4 Rev.2	Wheat	<i>Triticum aestivum</i> L. emend. Fiori et Paol.
CPVO-TQ 004-Lperenne	Perennial ryegrass	<i>Lolium perenne</i> L.
CPVO-TQ 007-2	Pea	<i>Pisum sativum</i> L.
CPVO-TQ 011	Rose	<i>Rosa</i> L.
CPVO-TQ 012	French bean	<i>Phaseolus vulgaris</i> L.
CPVO-TQ 013/5	Lettuce	<i>Lactuca sativa</i> L.
CPVO-TQ 014	Apple	<i>Malus domestica</i> Borkh.
CPVO-TQ 015	Pear	<i>Pyrus communis</i> L.
CPVO-TQ 018	Elatior Begonia	<i>Begonia x hiemalis</i> Fotsch (Begonia xelatior hort.)
CPVO-TQ 019-2rev	Barley	<i>Hordeum vulgare</i> L. sensu lato



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@ WEBMASTER CO

Sign In	Sign Up
<p>Login <input type="text" value="maison"/></p> <p>Password <input type="password" value="*****"/></p> <p>Forgotten your password?</p> <p>Forgotten your login?</p> <p><input type="checkbox"/> Remember me</p> <p><input type="button" value="Enter"/></p>	<p>In order to file an application online, you must first create an account. Please note that Clients already known to the Office should not create a new account as they already have one.</p> <p><input type="button" value="Create an access"/></p>

Community Plant Variety Office


@ WEBMASTER CONTACT

Sign Up - Creation of an account

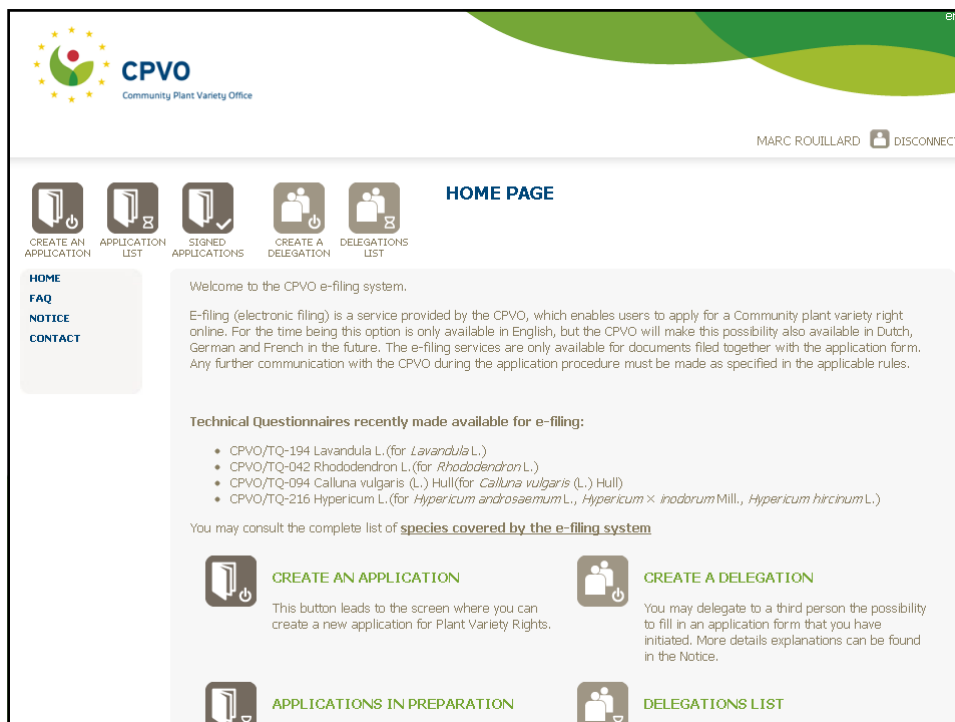
Choose your login *	<input type="text"/>	_cpvo	(* mandatory field)
Choose your password *	<input type="password"/>	Confirm password *	<input type="password"/>
Email *	<input type="text"/>	Confirm email *	<input type="text"/>
Surname *	<input type="text"/>	Forename	<input type="text"/>
Company	<input type="text"/>	Phone	<input type="text"/>

After clicking on "Create an access" you will receive an email with a link to confirm your email address. The confirmation should be done within 48 hours. When the delay is expired, you will have to request another account.

Copy in the box below the 6-letter security code found in the image on the right. If you have difficulties reading it, try another one by clicking on "Generate a new secure code".

Secure code *	<input type="text"/>	
---------------	----------------------	--

[Generate a new secure code](#)



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Community Plant Variety Office

MARC ROUILLARD DISCONNECT

HOME PAGE

CREATE AN APPLICATION
 APPLICATION LIST
 SIGNED APPLICATIONS
 CREATE A DELEGATION
 DELEGATIONS LIST

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Welcome to the CPVO e-filing system.

E-filing (electronic filing) is a service provided by the CPVO, which enables users to apply for a Community plant variety right online. For the time being this option is only available in English, but the CPVO will make this possibility also available in Dutch, German and French in the future. The e-filing services are only available for documents filed together with the application form. Any further communication with the CPVO during the application procedure must be made as specified in the applicable rules.

Technical Questionnaires recently made available for e-filing:

- CPVO/TQ-194 Lavandula L. (for *Lavandula* L.)
- CPVO/TQ-042 Rhododendron L. (for *Rhododendron* L.)
- CPVO/TQ-094 Calluna vulgaris (L.) Hull (for *Calluna vulgaris* (L.) Hull)
- CPVO/TQ-216 Hypericum L. (for *Hypericum androsaemum* L., *Hypericum × inodorum* Mill., *Hypericum hircinum* L.)

You may consult the complete list of [species covered by the e-filing system](#)

CREATE AN APPLICATION
 This button leads to the screen where you can create a new application for Plant Variety Rights.

CREATE A DELEGATION
 You may delegate to a third person the possibility to fill in an application form that you have initiated. More details explanations can be found in the Notice.

APPLICATIONS IN PREPARATION
DELEGATIONS LIST



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SPECIES COVERED IN E-FILING SYSTEM

CREATE AN APPLICATION
 APPLICATION LIST
 SIGNED APPLICATIONS
 CREATE A DELEGATION
 DELEGATIONS LIST

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100 species are currently covered:

- *Allium porrum* L.
- *Alistroemeria* L.
- *Anthurium* Schott
- *Begonia × hiemalis* Fotsch (*Begonia xelator* hort.)
- *Beta vulgaris* L. ssp. *vulgaris* var. *altissima* Döll
- *Brassica napus* L. emend. Metzg.
- *Brassica oleracea* L. convar. *botrytis* (L.) Alef. var. *botrytis*
- *Calibrachoa* Llave & Lex.
- *Calibrachoa parviflora* (Juss.) D'Arcy et Wijsman
- *Calluna vulgaris* (L.) Hull
- *Capsicum annuum* L.
- *Cebisia* L.
- *Chrysanthemum* L.
- *Chrysanthemum pacificum* Nakai
- *Chrysanthemum × Ajanian pacifica*
- *Chrysanthemum × morifolium* Ramat. (syn. *C. × grandiflorum*)
- *Cichorium endivia* L.
- *Cucumis melo* L.
- *Cucumis sativus* L.
- *Dahlia* Cav.
- *Dianthus* L.
- *Dianthus barbatus* L.
- *Hordeum vulgare* L. sensu lato
- *Hydrangea* L.
- *Hydrangea anomala* D. Don subsp. *petiolaris* (Siebold & Zucc.) E.M. McClint. × *H. seemannii* L. Riley
- *Hydrangea arborescens* L.
- *Hydrangea aspera* Buch.-Ham. ex D. Don
- *Hydrangea aspera* Buch.-Ham. ex D. Don × *H. integrifolia* Hayata
- *Hydrangea macrophylla* (Thunb.) Ser.
- *Hydrangea macrophylla* subsp. *serrata* (Thunb.) Makino
- *Hydrangea paniculata* Siebold
- *Hydrangea quercifolia* W. Bartram
- *Hypericum androsaemum* L.
- *Hypericum hircinum* L.
- *Hypericum × inodorum* Mill.
- *Impatiens* New Guinea Group
- *Impatiens walleriana* Hook. f.
- *Impatiens walleriana* Hook. f. × *I. auricomia* Baill.
- *Kalanchoe blossfeldiana* Poelln.
- *Lactuca sativa* L.
- *Lavandula* L.
- *Lilium* L.
- *Lilium reginae* (L.) Miller
- *Prunus avium* (L.) L.
- *Prunus persica* (L.) Batsch
- *Prunus salicina* Lindl.
- *Pyrus communis* L.
- *Rhododendron* L.
- *Rosa* L.
- *Rosa canina* L.
- *Rosa corymbifera* Borkh.
- *Rosa gallica* L.
- *Rosa glauca* Pourr.
- *Rosa laxa* Retz.
- *Rosa majalis* Herrm.
- *Rosa multiflora* Thunb.
- *Rosa rugosa* Thunb.
- *Rosa sempervirens* L.
- *Rosa spinosissima* L.
- *Rosa × kordesii* ined. (=Rosa hybr.)
- *Rubus idaeus* L.
- *Solanum tuberosum* L.
- *Triticum aestivum* L. emend. Fiori et Paol.
- *Triticum durum* Desf.
- *Tulipa* L.
- *Vaccinium angustifolium* Aiton
- *Vaccinium corymbosum* L.
- *Vaccinium formosum* Andrews
- *Vaccinium myrtillus* L.

The screenshot shows the CPVO (Community Plant Variety Office) application form interface. At the top left is the CPVO logo and name. On the top right, the user is identified as 'MARC ROUILLARD' with a 'DISCONNECT' button. Below the header is a navigation bar with icons for 'CREATE AN APPLICATION', 'APPLICATION LIST', 'SIGNED APPLICATIONS', 'CREATE A DELEGATION', and 'DELEGATIONS LIST'. A 'CREATE AN APPLICATION' button is also present. A left sidebar contains links for 'HOME', 'FAQ', 'NOTICE', and 'CONTACT'. The main content area is divided into five steps: 01 / I am (with radio buttons for 'applicant' and 'representative'), 02 / Application form (with a text input field containing 'APPLICATION FOR COMMUNITY PLANT VARIETY RIGHT TO THE COMMUNITY PLANT VARIE'), 03 / Form language (with a radio button for 'English'), 04 / Species (latin name) title (with a text input field containing 'Phalaenopsis Blume'), and 05 / Technical questionnaire (with radio buttons for 'Agricultural species', 'Vegetable species', 'Fruit species', and 'Ornamental species', and a search input field containing 'Phalaenopsis'). Below the search field is a green button labeled 'Search for appropriate TQ for that species' and a note: '(Once search results are displayed in the table below, click on the desired TQ to confirm your choice.)'. At the bottom, a table header is visible with columns 'CODE' and 'DESIGNATION'.



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MARC ROUILLARD DISCONNECT

APPLICATION FORM - PHALAEOPSIS BLUME

CREATE AN APPLICATION APPLICATION LIST SIGNED APPLICATIONS CREATE A DELEGATION DELEGATIONS LIST

HOME
FAQ
NOTICE
CONTACT

Please check the data which has been automatically pre-filled in the following form.
Mandatory fields or sections are marked with an asterisk (*)

- > 01 . Applicant(s) *
- > 02 . Procedural representative
- > 03 . Botanical taxon *
- > 04 . Designation *
- > 05 . Breeder(s) *
- > 06 . Details of all other applications concerning this variety made in a Member State of the EU or in a Member of the International Union for the Protection of New Varieties of Plants (UPOV)
- > ? 07 . Priority
- > ? 08 . Has the variety been sold or otherwise exploited? *
- > ? 09 . Technical examination *
- > 10 . Language *
- > ? 11 . Application fee *
- > ? 12 . Attached document(s)

01 . Applicant(s) *

01 . 01 . Applicant(s) Name(s) *

(if natural person please indicate christian name first - in case of several applicants, please add a section and fill in the part "Procedural representative" which applicant represents the other(s) for the procedure)

? Client number (CPVO number) ?

Name* Community Plant Variety Office

Country* FRANCE

Post Code* 49101

City* Angers cedex 02

? Address* 3, Boulevard Foch
BP 10121

? Telephone

? Fax

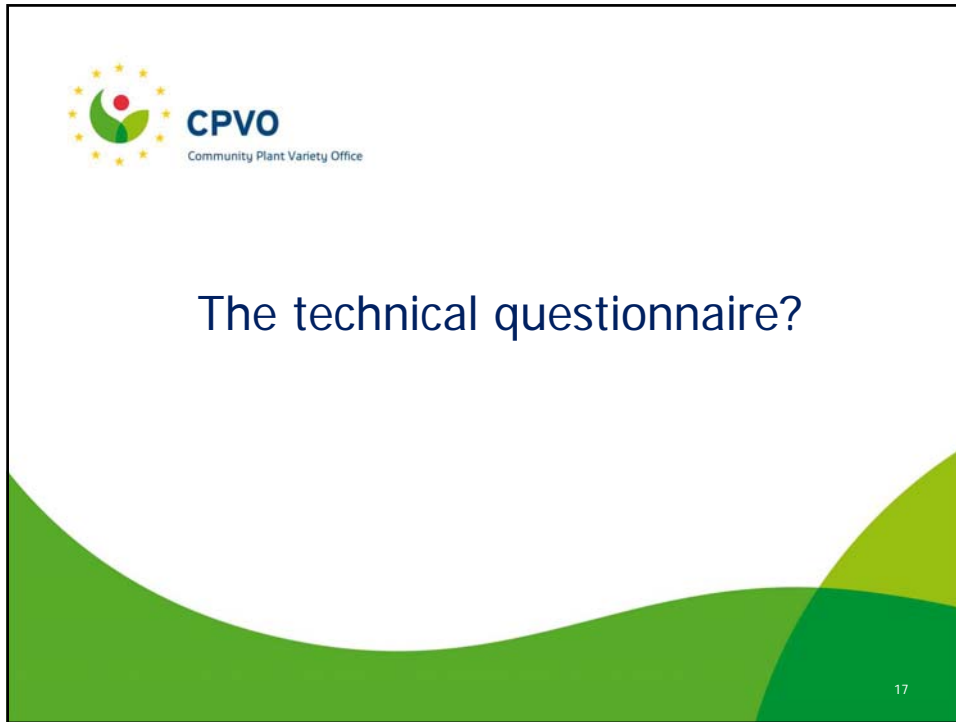
E-mail cpvo@cpvo.europa.eu

01 . 02 . The applicant is: *

A natural person

A legal entity

please fill in section 01.03 and 01.04



VO
by Plant Variety Office

JEAN MAISON DISCONNECTED

SIGNED APPLICATIONS CREATE A DELEGATION DELEGATIONS LIST

TECHNICAL QUESTIONNAIRE - CPVO/TQ-012/3 01/04/2009 - FRENCH BEAN

Application form : Invalid form. Data saved.

Mandatory fields or sections are marked with an asterisk (*)

01 . Botanical taxon: Name of the genus, species or sub-species to which the variety belongs : Phaseolus vulgaris L.

02 . Application code : A201100205

03 . Breeder's reference :

04 . Information on the breeding scheme and propagation of the variety *

04 . 01 . Breeding scheme *

Seedling Mutation Discovery Other

Indicate parent varieties
A x B

Should the question be treated as confidential?

04 . 02 . Method of propagation of the variety *

self-pollination

04 . Information on the breeding scheme and propagation of the variety *

04 . 01 . Breeding scheme *

Seedling Mutation Discovery Other

Should the question be treated as confidential?

04 . 02 . Method of propagation of the variety *

Cuttings *In vitro* propagation Seed Other

04 . 03 . In the case of seed propagated varieties, method of production:

self-pollination cross-pollination hybrid

04 . 04 . Geographical origin of the variety *

The region and the country in which the variety was* bred or discovered and developed:

05 . Characteristics of the variety to be indicated *

06 . Similar varieties and differences from these varieties

SIGNED APPLICATIONS CREATE A DELEGATION DELEGATIONS LIST

Application form : Invalid form. Data saved.

Mandatory fields or sections are marked with an asterisk (*)

01 . Botanical taxon: Name of the genus, species or sub-species to which the variety belongs : Phaseolus vulgaris L.

02 . Application code : A201100205

03 . Breeder's reference :

> 04 . Information on the breeding scheme and propagation of the variety *

05 . Characteristics of the variety to be indicated *

(the number in brackets indicates the number of characteristics to be indicated)

(2)

CPVO TP or UPOV TG characteristic number Characteristic note State of expression Example varieties

? (30) 05 03 - Flower head: double *

1 - without ray florets Zeemimosa

2 - single Repulse

3 - semi-double Figrand

4 - daisy-eyed double Veria Dark

5 - double Delianne

Delinel (D), Purple Teepee (D)

(15)

1 - wide

2 - pilose

3 - pilose

4 - violet Delinel (D), Purple Teepee (D)

(17.1) 05 . 03.01 . Dwarf beans only: Pod: length (excluding beak)

1 - very short

2 - very short to short

3 - narrow Prelude (D), Tuf (D)

4 - short to medium

5 - medium Amby (D), Lucis (D)

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SIGNED APPLICATIONS CREATE A DELEGATION DELEGATIONS LIST

TECHNICAL QUESTIONNAIRE - CPVO/TQ-213 14/11/2007 - PHALAEOPSIS AND

Application form : Invalid form. Data saved.

Mandatory fields or sections are marked with an asterisk (*)

01 . Botanical taxon: Name of the genus, species or sub-species to which the variety belongs : Phalaenopsis Blume

02 . Application code : A201100461

03 . Breeder's reference :

> 04 . Information on the breeding scheme and propagation of the variety *

> ? 05 . Characteristics of the variety to be indicated *

06 . Similar varieties and differences from these varieties

06 . 01 . Similar varieties and differences from these varieties:

DENOMINATION OF SIMILAR VARIETY	CHARACTERISTIC IN WHICH THE SIMILAR VARIETY IS DIFFERENT (*)	STATE OF EXPRESSION OF SIMILAR VARIETY	STATE OF EXPRESSION OF CANDIDATE VARIETY	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	+ -

> 07 . Additional information which may help to distinguish the variety *

> 08 . GMO-information *

> 09 . Information on plant material to be examined

> 10 . Possible place of the technical examination

SAVE VALIDATE NEXT STEP

Phalaenopsis Blume and x Doritaenopsis hort. - CPVO/TQ-213

▼ 07 . Additional information which may help to distinguish the variety *

07 . 01 . Resistance to pests and diseases *

Yes, specify
 No

07 . 02 . Special conditions for the examination of the variety *

07 . 02.01 . Submission period of the plant material *

Indicate the best suitable start date for technical examination of the variety (plants should have induced an inflorescence, preferably budded but NOT full case, at the start of technical examination i.e. date of submission):

January
 August

07 . 02.02 . Other special conditions required *

Yes, specify
 No

07 . 03 . Other information *

Yes, specify
 No

07 . 02.02 . Other special conditions required *

Yes, specify
 No

07 . 03 . Other information *

Yes, specify
 No

07 . 04 . Photo *

A representative colour photo of the variety must be **added** to the technical questionnaire.

In case of need, please provide additional details about the picture provided (i.e. where the picture was taken, deviations of the colours on the picture compared to the reference plant/flower, ...)

Document	<input type="text"/>	Bro
Type	<input type="text" value="Photo"/>	
Remark	<input type="text"/>	

UPLOAD FILE

> 08 . GMO-information *

▼ 09 . Information on plant material to be examined

The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc. Consequently the plant material to be examined should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

09 . 01 . Micro-organisms (e.g. virus, bacteria, phytoplasma) *

Yes, specify

No

09 . 02 . Chemical treatment (e.g. growth retardant or pesticide) *

Yes, specify

No

09 . 03 . Tissue culture *

Yes, specify

No

09 . 04 . Other factors *

Yes, specify

No

> 10 . Possible place of the technical examination

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SIGNED APPLICATIONS CREATE A DELEGATION DELEGATIONS LIST

TECHNICAL QUESTIONNAIRE - CPVO/TQ-012/3 01/04/2009 - FRENCH BEAN

Invalid form. Data saved.

Mandatory fields or sections are marked with an asterisk (*)

01 . Botanical taxon: Name of the genus, species or sub-species to which the variety belongs : Phaseolus vulgaris L.

02 . Application code : A201100205

03 . Breeder's reference :

> 04 . Information on the breeding scheme and propagation of the variety *

> ? 05 . Characteristics of the variety to be indicated *

> 06 . Similar varieties and differences from these varieties

> 07 . Additional information which may help to distinguish the variety *

> 08 . GMO-information *

> 09 . Information on plant material to be examined

> 10 . Possible place of the technical examination










SAVE VALIDATE NEXT STEP

Phaseolus vulgaris L. - CPVO/TQ-012/3

The on line application system

- Possible actions:

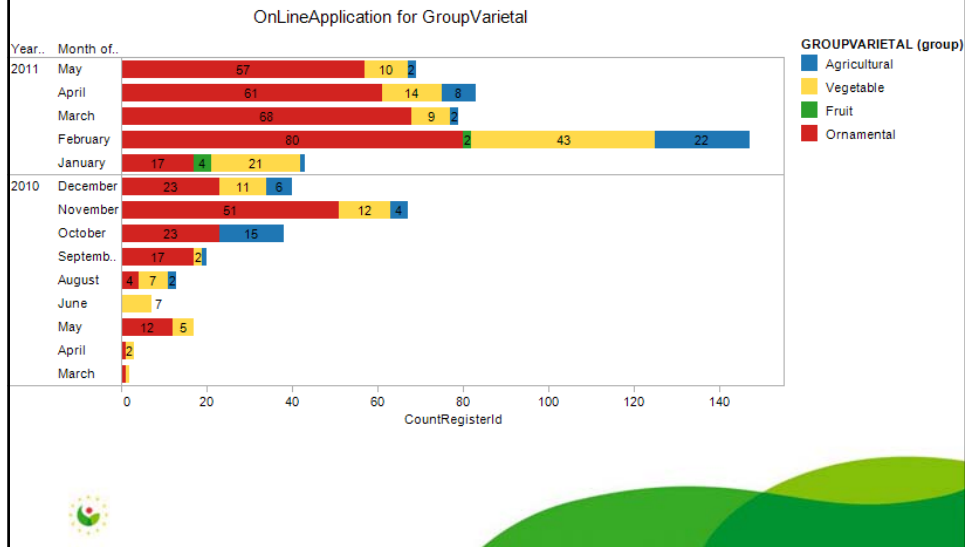
- Print
- Duplicate
- Delete
- Sort

FIELD ON	CREATED ON	ACTION
010	27/08/2010	  
010	24/08/2010	  
010	11/06/2010	  



Some statistics

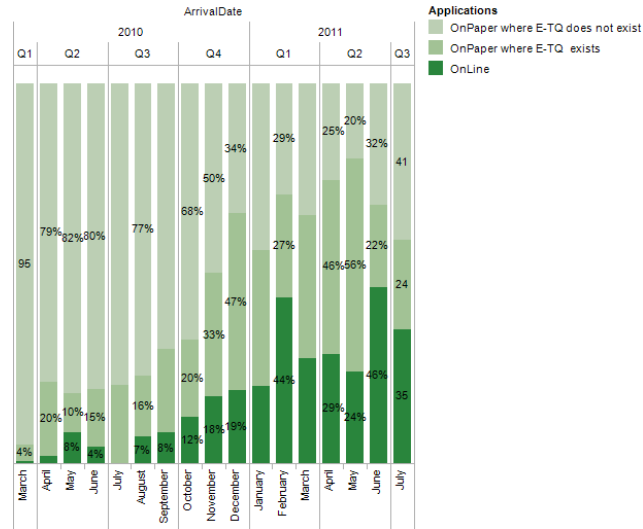
Evolution of the proportion of on line applications on a monthly basis per crop sector



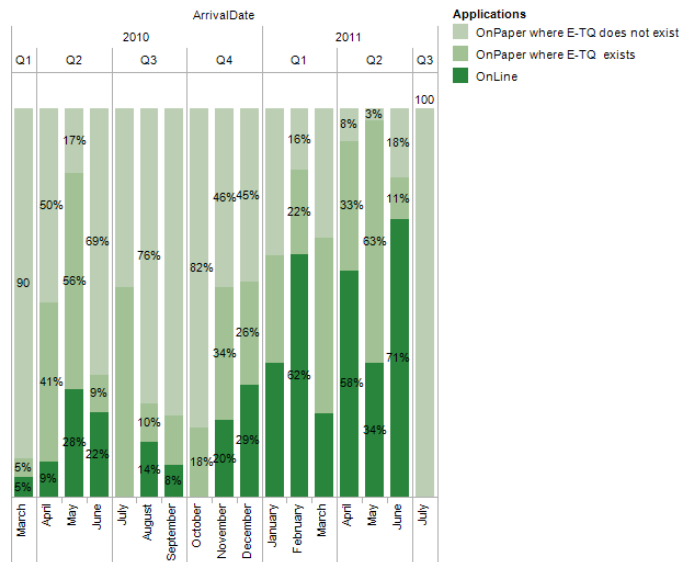
Overview of on the most important species subject of on-line applications (top 20)

SPECIES	ONLINE	TOTAL	Ratio
Chrysanthemum L.	109	197	55%
Lactuca sativa L.	70	148	47%
Rosa L.	62	251	25%
Phalaenopsis Blume	41	55	75%
Lycopersicon esculentum Mill.	30	47	64%
Capsicum annuum L.	20	26	77%
Alstroemeria L.	19	27	70%
Dahlia Cav.	16	23	70%
Triticum aestivum L. emend. Fiori et Paol.	16	88	18%
Gerbera L.	15	42	36%
Hordeum vulgare L. sensu lato	14	56	25%
Beta vulgaris L. ssp. vulgaris var. altissima Döll	13	17	76%
Petunia Juss.	13	40	33%
Lilium L.	11	62	18%
Solanum tuberosum L.	9	73	12%
Coreopsis L.	8	8	100%
Echinacea Moench	8	8	100%
Petunia x atkinsiana D. Don	8	8	100%
x Doritaenopsis hort.	6	9	67%
Vanda Jones ex R. Br.	6	6	100%
			41%

Proportion of on-line applications (all sectors)



Proportion of on-line applications in vegetable sector





Ongoing and Future developments

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The CPVO on line application system

Ongoing developments

- Increase of the number of Technical Questionnaires available. Currently 36 **TO BE UPDATED** Technical Questionnaires covering about 60% **TO BE UPDATED** of the applications (80% coverage for paper). Coverage in the agricultural and vegetable sector **TO BE UPDATED ?**
- System available in German, Dutch and French in the coming weeks
- Development of conditional display in order to have more user friendly forms
- Additional checks for consistency



The CPVO on line application system

Promotion of the system

- Mailing to all applicants and their procedural representatives
- Announcement during months on the web site of the Office
- Presentation of the system to CPVO applicants during Fairs or visits
- Organisation of workshops? In cooperation with breeders' associations?



The CPVO on line application system

- Reduced application fee?
 - Will be discussed during the next Administrative Council of the Office
- Exchange of data in xml format
 - The project will start in 2012
- Sharing the system with EU Member States





A common e-application system with National Authorities in the EU for National Listing and Plant Variety Rights

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The CPVO on line application system

- Sharing the system with National Authorities
 - The Office presented the system in 2010 to EU Member States interested with the intention to make it available to MS authorities willing to use it.
 - A meeting was organised in June 2010 in Paris and was attended by representatives of 11 Member States and the Commission
 - Various issues to be considered were discussed in a scenario where national authorities are interested in sharing the CPVO online application system



The CPVO on line application system

- In particular

- Applications for PVR or NLI would be made via the National web site or via a centralised web site
- The main elements of the corporate identity of participating National Authorities could be taken over
- The starting point for forms would be the CPVO set of questions but National authorities would have the possibility to add and manage an additional set of question
- The e-signatures system of the CPVO could be taken over, or it would be up to each National Authority to develop its own system



The CPVO on line application system

- In particular

- National Authorities would receive applications in pdf format or similar
- In the medium-longer term, it is the objective of the Office to set up an electronic exchange of data that can be downloaded directly in examination offices databases in future.
- A pilot project was set up with GEVES for Maize and NAKT for tomato





Thank you for your attention