



TWC/21/7

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**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**  
GENEVA

**TECHNICAL WORKING PARTY  
ON  
AUTOMATION AND COMPUTER PROGRAMS**

**Twenty-First Session  
Tjele, Denmark, June 10 to 13, 2003**

COYU STANDARDS

*Document prepared by the Office of the Union*

1. At its twentieth session, held in Mexico City, from June 17 to 20, 2002, the Technical Working Party on Automation and Computer Programs (TWC) considered the item "Uniformity Standards for COYU" on the basis of document TWC/20/3. The TWC agreed that information on the LSD value was necessary to be able to propose a recommendation. It decided to conduct a further survey, which would include a request for this information, and to consider a new document at the following session. On April 24, 2003, Circular U 3330 was issued requesting information on the probability levels used by members of the Union for COYU in the different species, on the basis of the following layout agreed by the TWC at its twentieth session:

		Probability levels					
		COYU			COYD		
		+2	(3)	+3	+2	(3)	+3
Species	Country 1						
	Country 2						
	Country 3						

+2 : Acceptance after 2 years

(3) : Go to 3<sup>rd</sup> year test

+3 : Acceptance after 3 years

2. The following countries replied to the survey: Brazil, Czech Republic, Denmark, Finland, France, Germany, Slovakia, South Africa, Switzerland, United Kingdom and the United States of America. The Office of the Union has collated the information received in a summary which is presented in the Annex to this document.

*3. The TWC is invited to consider how the information presented in the Annex to this document might be used in the development of TGP 10.3.1 COYU Annex: Probability levels.*

[Annex follows]

## ANNEX

General

		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
All Species	DE	0.002	0.02	0.002	0.01	0.05	0.01	

Herbage Crops

		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Herbage	GB	0.01	#	0.001	0.001	#	0.001	

Grasses	FI	0.01 ***		0.01 ***	**		**	
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Clovers	FI	0.01 ***		0.01 ***	**		**	
	ZA	xxx			xxx			

		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Agrostis spp.	FR	0.01	0.01	0.001	0.01	0.01	0.01	Done in NL
	CZ	0.01	0.001	0.01	0.01		0.01	
	SK	0.01	0.001	0.01	0.01			

		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Bromus	ZA	xxx			xxx			

Bromus catharticus Vahl, Bromus sitchensis Trin., Bromus auleticus Trin.	FR	0.01	0.01	0.001	0.01	0.01	0.01	
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		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Dactylis glomerata L.	FR	0.01	0.01	0.001	0.01	0.01	0.01	
	DK	x	xx	x	0.01	0.01<P<0.1	0.01	
	SK	0.01	0.001	0.01	0.01*			
	ZA	xxx			xxx			

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Festuca	ZA	xxx			xxx			

Festuca ovina L. sensu lato & F. rubra L.	FR	0.01	0.01	0.001	0.01	0.01	0.01	Done in DE
	DK	x	xx	x	0.01	0.01<P<0.1	0.01	
	SK	0.01	0.001	0.01	0.01*			

Festuca pratensis Huds. & Festuca arundinacea Schreb.	FR	0.01	0.01	0.001	0.01	0.01	0.01	
	DK	x	xx	x	0.01	0.01<P<0.1	0.01	
	SK	0.01	0.001	0.01	0.01			
	CZ	0.01	0.001	0.01	0.01		0.01	

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
June grass	SK	0.01	0.001	0.01	0.01*			

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Lotus corniculatus L.	FR	0.01	0.01	0.001	0.01	0.01	0.01	Done in DE
	SK	0.01	0.001	0.01	0.01*			

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		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Lucerne	CZ	0.01	0.001	0.01	0.05		0.05	

Medics	ZA	xxx			xxx			
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Medicago sativa L., Medicago X varia Martyn	FR	0.002	0.002	0.001	0.01	0.01	0.01	
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		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Phleum pratense L. & Phleum bertolonii DC.	FR	0.01	0.01	0.001	0.01	0.01	0.01	Done in DK
	DK	x	xx	x	0.01	0.01<P<0.1	0.01	

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Ryegrass	UK	P>0.01	P<0.01	P>0.001	P<0.01	P>0.01	P<0.01	
	CZ	0.01	0.001	0.01	0.01		0.01	
	SK	0.01	0.001	0.01	0.01*			

Lolium multiflorum Lam., L. perenne L. & hybrids/ hybrides/ Hybriden/ híbridos	FR	0.01	0.01	0.001	0.01	0.01	0.01	Done in GB
	DK	x	xx	x	0.01	0.01<P<0.1	0.01	
	ZA	xxx			xxx			

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Tall vat.grass	SK	0.01	0.001	0.01	0.01*			

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Timothy	GB	P>0.01	P<0.01	P>0.001	P<0.01	P>0.01	P<0.01	
	SK	0.01	0.001	0.01	0.01*			

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Red Clover	CZ	0.01	0.001	0.01	0.01		0.01	
	SK	0.01	0.001	0.01	0.01*			
	FR	0.01	0.01	0.001	0.01	0.01	0.01	Done in DE

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
White Clover	GB	P>0.01	P<0.01	P>0.001	P<0.01	P>0.01	P<0.01	
	FR	0.01	0.01	0.001	0.01	0.01	0.01	Done in GB
	CZ	0.01	0.001	0.01	0.01		0.01	
	SK	0.01	0.001	0.01	0.01*			

Other Agricultural Crops

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Avena sativa L. & Avena nuda L.	DK				0.01	0.01<P<0.1	0.01	

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Beta vulgaris L.	DK	x	xx	x	0.01	0.01<P<0.1	0.01	

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Hordeum vulgare L. sensu lato	DK				0.01	0.01<P<0.1	0.01	

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Lupins	ZA	xxx			xxx			

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Oilseed Rape	CZ	offtypes used			0.05		0.05	
	DK	x	xx	x	0.01	0.01<P<0.1	0.01	
	GB	-	-	-	p<0.02	*	p<0.02	
	FI	0.01 ***		0.01 ***	**		**	

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Turnip Rape	GB	-	-	-	P=0.05		P=0.05	
	FI	0.01 ***		0.01 ***	**		**	

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Vicia faba L.	DK	x	xx	x	0.01	0.01<P<0.1	0.01	
	FR	0.01	0.01	0.001	0.01	0.01	0.01	

Vegetables and Other Crops

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Beetroot, Leaf Beet	GB	-	-	-	P=0.05		P=0.05	

		Probability levels						Comment
		COYU			COYD			
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Black Radish, Radish	GB	-	-	-	P=0.05		P=0.05	

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		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Cabbage, Brussels Sprouts, Sprouting Broccoli, Calabrese	GB	-	-	-	P=0.05		P=0.05	

		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Carrot	GB	-	-	-	P=0.05		P=0.05	

Celery	GB	-	-	-	P=0.05		P=0.05	
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Curly Kale	GB	-	-	-	P=0.05		P=0.05	
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		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Onion, Shallot, Leek	GB	-	-	-	P=0.05		P=0.05	

Onion	ZA	xxx			xxx			
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		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Papaver somniferum L.	DK				0.01	0.01<P<0.1	0.01	

		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Parsnip	GB	-	-	-	P=0.05		P=0.05	

		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Pisum sativum L. sensu lato	DK	x	xx	x	0.01	0.01<P<0.1	0.01	



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		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Sinapis alba L.	DK	x	xx	x	0.01	0.01<P<0.1	0.01	

		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Swede	GB	-	-	-	P=0.05		P=0.05	

		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Sweet melon	ZA	xxx			xxx			

		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Turnip	GB	-	-	-	P=0.05		P=0.05	

		Probability levels						
		COYU			COYD			Comment
		+ 2	(3)	+ 3	+ 2	(3)	+ 3	
Watermelon	ZA	xxx			xxx			

Notes

#	The (3) columns have been left blank because, if a variety fails after 2 years, it automatically goes on for a third year of testing.
x	In the case of quantitative characteristics, the variety is declared non-uniform when the standard deviation (SD) exceeds over-year criterion after 2 years with probability level 0.002.
xx	A case by case evaluation, where the applicant is also asked whether they wish to continue.
xxx	The test is made over two years but, if there is a problem after 2 years, another test is made. If acceptable after 3 years the variety is accepted
*	Only one value was specified for COYD.
**	0.05 for qualitative characteristics, 0.01 for quantitative.
***	COYU for rejection after 2 or 3 years is 0.001.

Country codes:

BR	Brazil: COY is not used.
CH	Switzerland: Use DUS reports from other countries, hence no data provided.
CZ	Czech Republic
DE	Germany
DK	Denmark
FI	Finland
FR	France
GB	United Kingdom
SK	Slovakia
US	The United States of America: The Government of the United States of America replied that it did not independently test plant varieties, hence there is no information pertinent for the survey.
ZA	South Africa

[End of Annex and of document]