



TWC/22/10

ORIGINAL: English

DATE: May 31, 2004

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

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

**Twenty-Second Session  
Tsukuba, Japan, June 14 to 17, 2004**

STANDARD PROBABILITY LEVELS FOR COY

*Document prepared by the Office of the Union*

1. At its twenty-first session, held in Tjele, Denmark, from June 10 to 13, 2003, the Technical Working Party on Automation and Computer Programs (TWC) discussed "Uniformity Standards for COYU" on the basis of document TWC/21/7. The TWC agreed that a new document on probability levels for COY should be prepared for the twenty-second session. It decided that an explanation on the way decisions were taken when using the COY approach should be included in the request and that the replies should be organized by type of decision. On March 18, 2004, Circular U 3441 was issued requesting information on the probability levels used by members of the Union for COY.

2. The following countries replied to the survey: China, Czech Republic, Denmark, Finland, France, Germany, Kenya, Netherlands, 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/9, Annex VI and TGP/10.3.1 COYU Annex: Probability levels.*

[Annex follows]

## ANNEX

## STANDARD PROBABILITY LEVELS USED FOR COYD AND COYU

Case A Test is conducted over 2 independent growing cycles (“cycles”) and decisions made after 2 cycles (A growing cycle could be a year and is further on denoted by cycle)

			COYD probability levels			COYU probability levels		
Species	Country	CASE	$p_{d2}$	$p_{nd2}$	$p_{d3}$	$p_{u2}$	$p_{nu2}$	$p_{u3}$
Brassica napus L. oleifera	UK	A	0.02			COYU not used		

Case B Test is conducted over 3 cycles and decisions made after 3 cycles

			COYD probability levels			COYU probability levels		
Species	Country	CASE	$p_{d2}$	$p_{nd2}$	$p_{d3}$	$p_{u2}$	$p_{nu2}$	$p_{u3}$
Zea mays L.	KE	B			0.05			0.05

Case C Test is conducted over 3 cycles and decisions made after 3 cycles, but a variety may be accepted after 2 cycles

			COYD probability levels			COYU probability levels		
Species	Country	CASE	P <sub>d2</sub>	P <sub>nd2</sub>	P <sub>d3</sub>	P <sub>u2</sub>	P <sub>nu2</sub>	P <sub>u3</sub>
Herbage	UK	C	0.001		0.001	0.01		0.001
	CZ	C	0.01		0.01	0.01		0.001
	NL	C	0.01		0.01			
Lolium perenne L. Lolium multiflorum L. Lolium Boucheanum L. Phleum pratense L. Festuca rubra L. Beta vulgaris L. Sinapsis albaL.	DK	C	0.01		0.01	0.002		0.002
Brassica napus l.	DK	C	0.01		0.01	0.002		0.002
Brassica napus L. oleifera	CZ	C	0.05		0.05	Not used		Not used
Dactylis glomerata L.	DK	C	0.01		0.01	0.002		0.002
	FR					0.01		0.001
Festuca pratensis Huds.	DK	C	0.01		0.01	0.002		0.002
	FR					0.01		0.001
Festuca arundinacea Schreb. Bromus catharticus Vahl, Bromus sitchensis Trin., Bromus auleticus Trin. Medicago sativa L., Medicago X varia Martyn Vicia faba L.	FR	C	0.01		0.01	0.01		0.001
Linum usitatissimum L.	NL	C	0.05		0.05			
Agrostis spp.	Done in NL for FR	C	0.01			0.01		0.01
Festuca ovina L. sensu lato F. rubra L.	Done in DE for FR	C						
Lolium multiflorum Lam L. perenne L. hybrids	Done in UK or DE (Italian Rye-grass annual type only) for FR	C						
Lotus corniculatus L.	Done in DE for FR	C						
Phleum pratense L. Phleum bertolonii DC.	Done in DK for FR	C						
Trifolium pratense L.	Done in DE for FR	C						
Trifolium repens L.	Done in UK for FR	C						

Case D Test is conducted over 3 cycles and decisions made after 3 cycles, but a variety may be accepted or rejected after 2 cycles

			COYD probability levels			COYU probability levels		
Species	Country	CASE	P <sub>d2</sub>	P <sub>nd2</sub>	P <sub>d3</sub>	P <sub>u2</sub>	P <sub>nu2</sub>	P <sub>u3</sub>
Vicia faba L. var. minor Raphanus sativus L. var. oleiformis Pers.	DE	D	0.01	0.05	0.01	0.02	0.002	0.002
Brassica napus L. oleifera	DE	D	0.01	0.05	0.01	0.02	0.002	0.002
	FI	D		0.01		0.01	0.01	0.001
Brassica rapa L. var rapa L.	FI	D	0.01	0.01	0.01	0.01	0.001	0.01
Trifolium pratense L.	DE	D	0.01	0.05	0.01	0.02	0.002	0.002
Clovers	FI	D	0.01	0.01	0.01	0.01	0.001	0.01
Secale cereale L. Mustard Phleum pratense L. Phleum bertolonii Festuca rubra L. Festuca pratensis Huds. Festuca ovina L. sensu lato Ryegrass	DE	D	0.01	0.05	0.01	0.02	0.002	0.002
Grasses	FI	D	0.01	0.01	0.01	0.01	0.001	0.01

[End of Annex and of document]