Technical Working Party on Automation and Computer Programs TWC/35/6 Add.

Thirty-Fifth Session Buenos Aires, Argentina, November 14 to 17, 2017 Original: English Date: November 7, 2017

ADDENDUM TO METHOD OF CALCULATION OF COYU: PRACTICAL EXERCISE, PROBABILITY LEVELS, EXTRAPOLATION & SOFTWARE

Document prepared by an expert from the United Kingdom

Disclaimer: this document does not represent UPOV policies or guidance

The Annex to this document contains a copy of a presentation on "Method of calculation of COYU: practical exercise, probability levels, extrapolation & software", prepared by an expert from the United Kingdom, to be made at the thirty-fifth session of the Technical Working Party on Automation and Computer Programs (TWC).

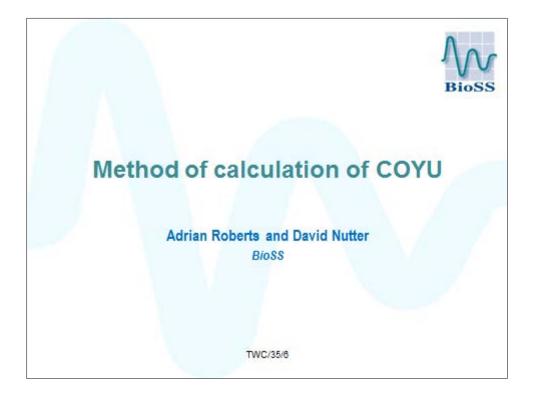
[Annex follows]

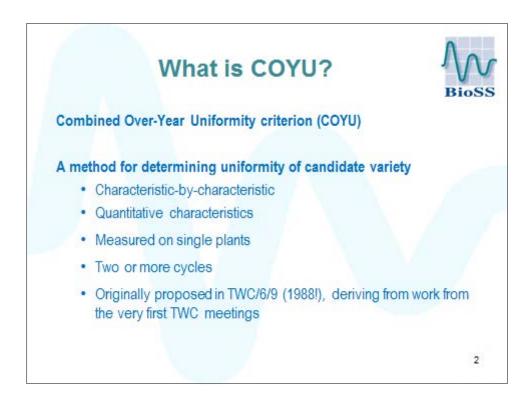
TWC/35/6 Add.

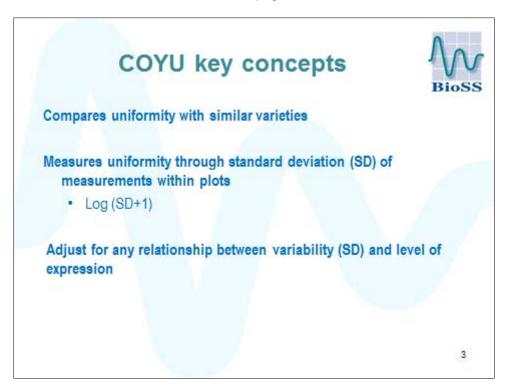
ANNEX

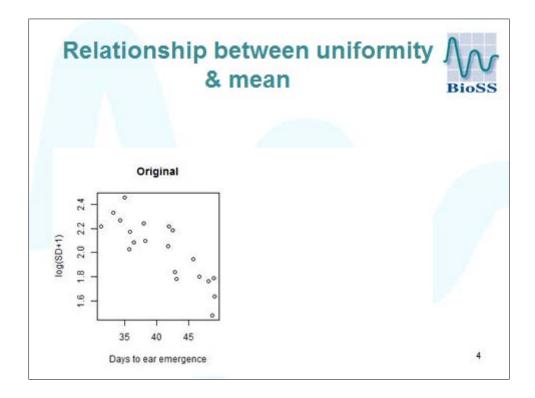
METHOD OF CALCULATION OF COYU: PRACTICAL EXERCISE, PROBABILITY LEVELS, EXTRAPOLATION & SOFTWARE

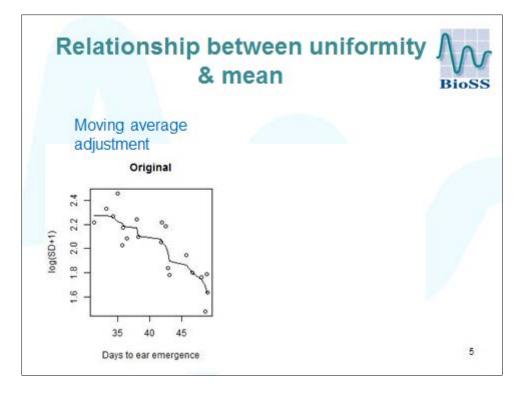
Presentation prepared by an expert from the United Kingdom

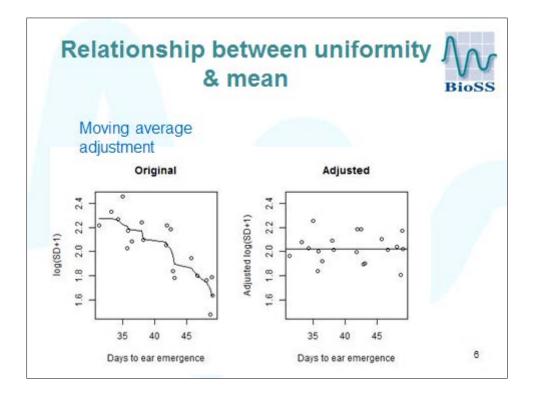


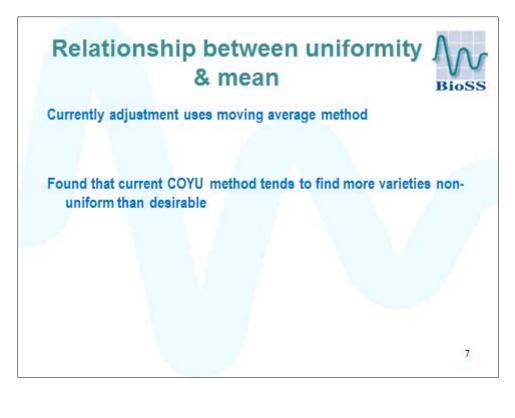












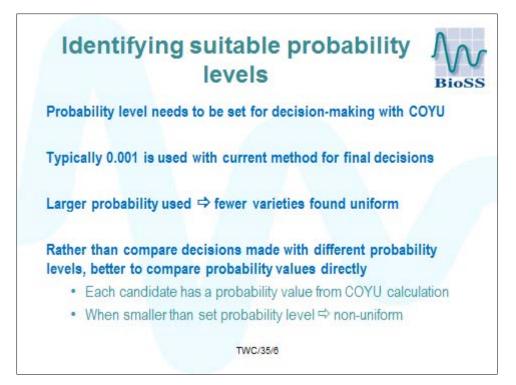


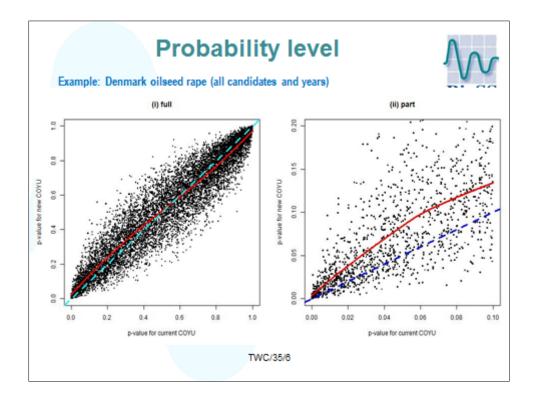


F	Practical E	xerc					
Denmark	Erik Lawaetz	Data	Oilseed rape				
Finland	Sami Markannen	DUST	Timothy, meadowfescue, tall fescue, Canarian reed grass, red clover, white clover, turnip rape				
France	Christophe Chevalier	R	Fescue				
Kenya	Abraham Lagat	R	Wheat				
Slovakia	Ľubomir Bašta	Data	Red fescue				
United Kingdom	Sally Watson	DUST	Perennial ryegrass				
United Kingdom	Haidee Philpott	DUST	Oilseed rape				
United Kingdom	Tom Christie	DUST	Field pea				
(Germany - currently u	se SAS for COYD and COYU)						
TWC/35/8							

F	Practical E	xerc					
Denmark	Erik Lawaetz	Data	Oilseed rape				
Finland	Sami Markannen	DUST	Timothy, meadowfescue, tall fescue, Canarian reed grass, red clover, white clover, turnip rape				
France	Christophe Chevalier	R	Fescue				
Kenya	Abraham Lagat	R	Wheat				
Slovakia	Ľubomir Bašta	Data	Red fescue				
United Kingdom	Sally Watson	DUST	Perennial ryegrass				
United Kingdom	Haidee Philpott	DUST	Oilseed rape				
United Kingdom	Tom Christie	DUST	Field pea				
(Germany - currently u	se SAS for COYD and COYU)						
THANKS !							

		yeara	set			
	Oilseed rape	3	2	0.001	15	570
	Timothy	1	2	0.001	6	3
	Timothy	2	3	0.001	1-7	6
	Meadow fescue	1	2	0.001	6	2
	Meadow fescue	1	3	0.001	6	2
	Tall fescue	1	2	0.001	6	1
	Canarian reed grass	1	3	0.001	8	1
	Red clover	2	2	0.001	6	1
	Red clover	2	3	0.001	7	1
Finland	White clover	1	2	0.001	9	1
	White clover	1	3	0.001	9	1
	Tumip rape	1	2	0.001	8	3
	Tumip rape	1	3	0.001	8	1
	Fescue	1	2	0.001	11	4
	Wheat	1	2	?	3	2
	Red fescue	9	2	0.001	4-7	57
	Perennial ryegrass	2	3	0.001	30	46
	Winter oilseed rape	1	2	0.001	12	128
	Pea	5	2	0.001	13-19	47



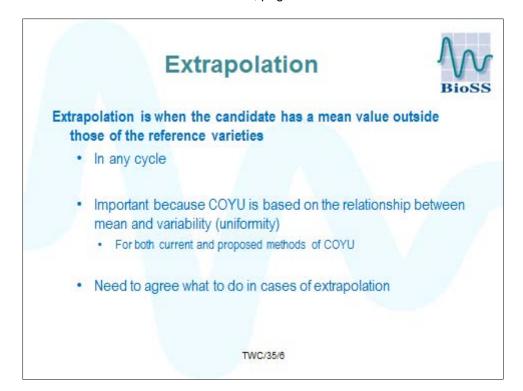


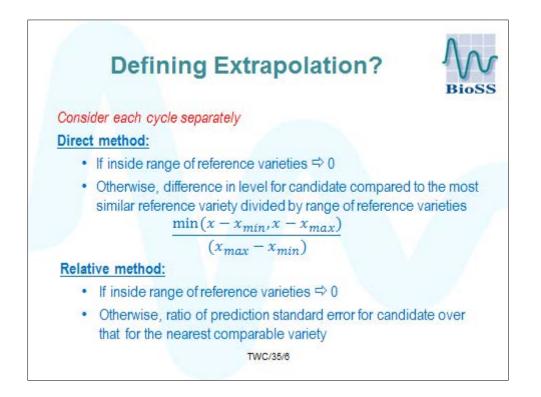
Probability level Approx equivalent probability levels to current COYU at 0.001 • Log-log additive models - see text for detail							
			95% confiden	ce interval upper			
Overall	1756	0.00288	0.00258	0.00322			
Denmark	1269	0.00284	0.00255	0.00317			
Finland	15	0.00629	0.00450	0.00879			
France	5	0.00293	0.00167	0.00514			
Kenya	2	0.00372	0.00154	0.00898			
Slovakia	51	0.00223	0.00182	0.00274			
GB oilseed	137	0.00339	0.00293	0.00394			
GB pea	92	0.00256	0.00217	0.00303			
GB ryegrass	185	0.00273	0.00237	0.00315			

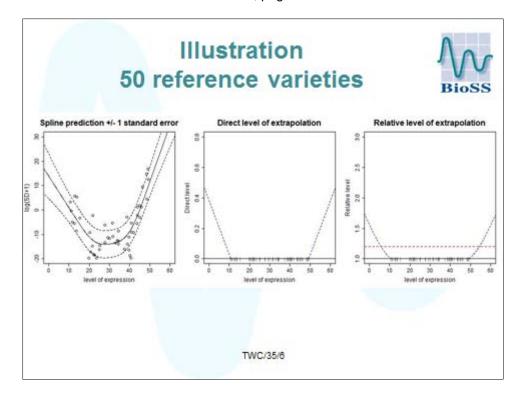
	∫ ₽							
	Approx equivalent probability levels to current COYU at 0.001 Log-log additive models – see text for detail 							
		Value	lower	upper				
Overall	1756	0.00288	0.00258	0.00322				
Denmark	1269	0.00284	0.00255	0.00317				
	15	0.00629	0.00450	0.00879				
France	5	0.00293	0.00167	0.00514				
Kenya	2	0.00372	0.00154	0.00898				
Slovakia	51	0.00223	0.00182	0.00274				
GB oilseed	137	0.00339	0.00293	0.00394				
GB pea	92	0.00256	0.00217	0.00303				
GB ryegrass	185	0.00273	0.00237	0.00315				

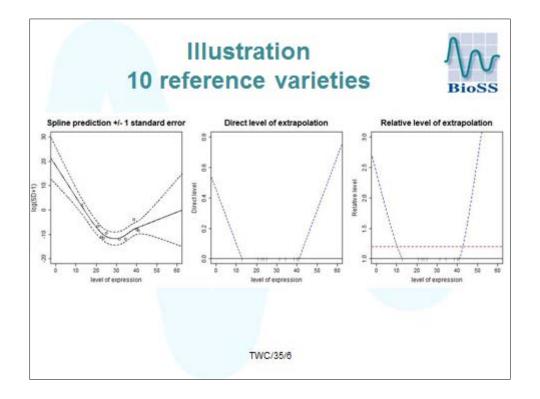
Probability level Approx equivalent probability levels to current COYU at 0.01 • Early decisions to accept eg at year 2 of 3								
			95% confide	nce interval uppe r				
Overall	1674	0.0188	0.0179	0.0198				
Denmark	1200	0.0186	0.0177	0.0196				
Finland	15	0.0410	0.0302	0.0557				
France	4	0.0171	0.0095	0.0309				
Kenya	2	0.0245	0.0106	0.0566				
Slovakia	47	0.0141	0.0119	0.0169				
GB oilseed	133	0.0226	0.0203	0.0251				
GB pea	90	0.0171	0.0150	0.0195				
GB ryegrass	183	0.0180	0.0164	0.0198				

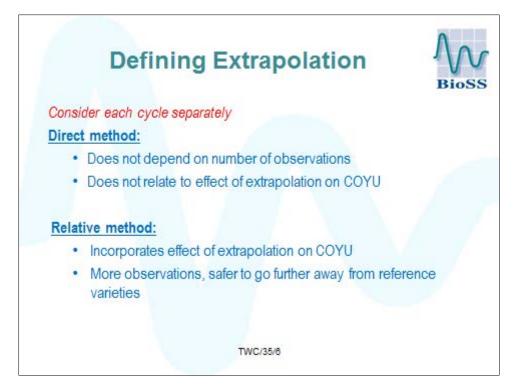
Probabi 0.02?									
	Approx equivalent probability levels to current COYU at 0.01 Early decisions to accept eg at year 2 of 3 								
			lower	upper					
Overall	1674	0.0188	0.0179	0.0198					
	1200	0.0186	0.0177	0.0196					
	15	0.0410	0.0302	0.0557					
France	4	0.0171	0.0095	0.0309					
Kenya	2	0.0245	0.0106	0.0566					
	47	0.0141	0.0119	0.0169					
	133	0.0226	0.0203	0.0251					
	90	0.0171	0.0150	0.0195					
GB ryegrass	183	0.0180	0.0164	0.0198					





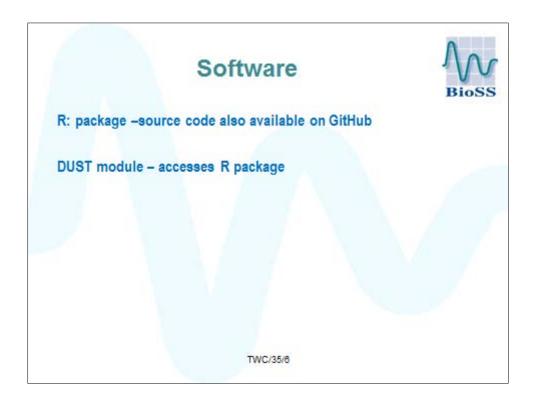


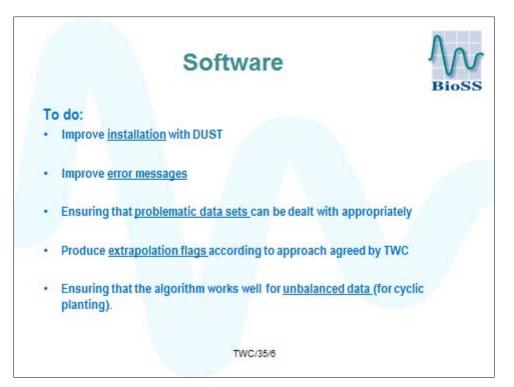


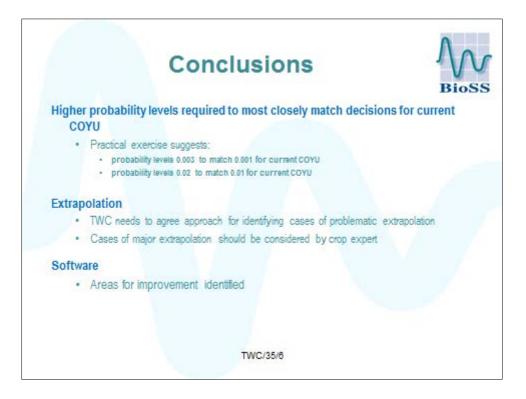




Country					Cases > 20% extrapolation		
Denmark	Oilseed rape	11,910	2%	0.8%	0.3%		
	Fescue	36	0%	n/a	n/a		
	Wheat	6	50%	n/a	n/a		
	Various	137	19%	n/a	n/a		
	Perennial ryegrass	1,381	13%	7%	4%		
GB	Winter oilseed rape	1,536	1%	0.2%	0%		
	Pea	698	8%	4%	2%		
Slovakia	Red fescue	738	20%	15%	7%		
TWC/35/6							







[End of Annex and of document]