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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS Geneva

TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS

Forty-Fifth Session Mexico City, Mexico, July 11 to 15, 2016

SECOND ADDENDUM TO REVISION OF DOCUMENT TGP/10: NEW SECTION: ASSESSING UNIFORMITY BY OFF-TYPES ON THE BASIS OF MORE THAN ONE GROWING CYCLE OR ON THE BASIS OF SUB-SAMPLES

Document prepared by the Office of the Union

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The Annex to this document contains a copy of a presentation on "Practical experience of assessing uniformity by off-types on oilseed rape and cauliflower" to be made by an expert from France at the forty-fifth session of the Technical Working Party for Agricultural Crops (TWA).

Abbreviations:

CPVO	Community Plant Variety Office of the European Union
GEVES	Variety and Seed Study and Control Group
OSR	Oilseed rape

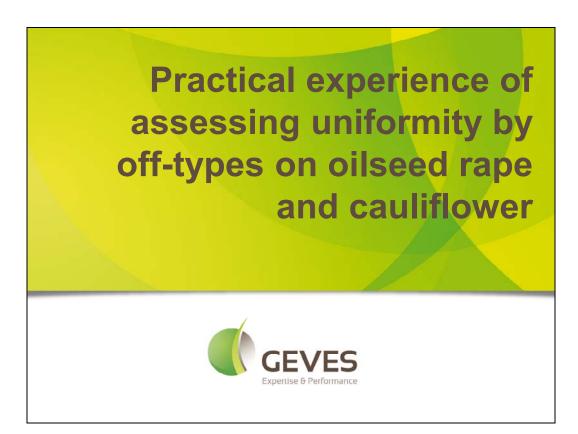
[Annex follows]

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ANNEX

PRACTICAL EXPERIENCE OF ASSESSING UNIFORMITY BY OFF-TYPES ON OILSEED RAPE AND CAULIFLOWER

Presentation by Ms. Virginie Bertoux, Head of the National Office for Plant Breeders' Rights (INOV), Variety and Seed Study and Control Group (GEVES), France



Summary

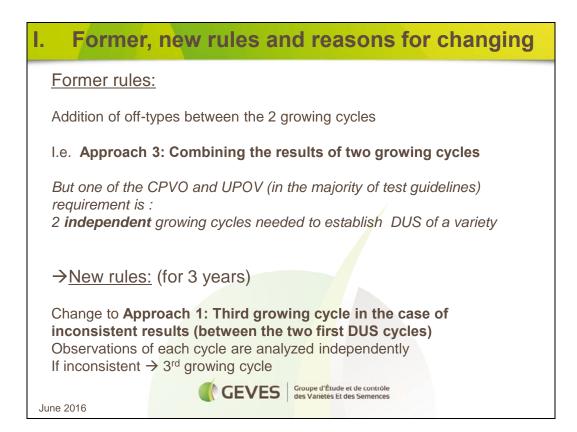
I. Former, new rules and reasons for changing

GEVES Groupe d'Étude et de contrôle des Variétés Et des Semences

- II. Example of oilseed rape
- III. Example of cauliflower
- IV. Conclusion

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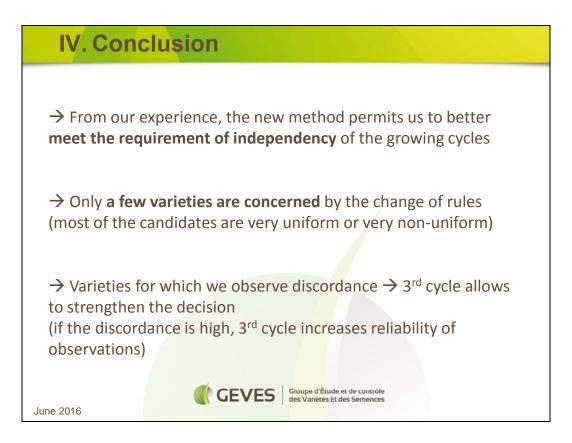
II. Example of oilseed rape										
For most agricultural species in GEVES: 2 DUS testing locations = 2 independent growing cycles OSR: 70% self pollinating. Candidates : parental lines + hybrid varieties In 2014, 182 varieties were in 1st year of study, among them, 170 were uniform and 12 were concerned by uniformity problems:										
Туре	Off-types 1 st cycle	threshold 1 st cycle	Off-types 2 nd cycle	threshold 2 nd cycle	Σ off-types 1st and 2nd cycle	threshold sum 2 cycles	w	vith new ules	with former rules	
HYB	55	39	55	37	110	70				
HYB	50	39	71	39	121	72				
HYB	46	45	50	40	96	79		Define	.	
LI	29	11	25	8	54	17	í I	-Refusa		
LI	21	11	14	8	35	17			Defusel	
LI	Global heterogeneity	13	Global heterogeneity	10	Global heterogeneity	10			Refusal	
HYB	43	35	18	24	61	54				
HYB	37	42	50	37	87	74		3rd		
LI	10	11	13	9	23	17	ļ	•		
LI	12	12	11	10	23	19		cycle		
LI	5	10	11	9	<mark>1</mark> 6	16				
LI	3	10	9	7	<mark>1</mark> 2	15				
6 varieties out of 182 For the others (176 out of 182) the decision is the same GEVES Groupe d'Étude et de contrôle des Varietes Et des Semences										

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Туре	Off-types 1 st cycle	threshold 1st cycle	Off-types 2 nd cycle	threshold 2 nd cycle	Σ off-types 1st and 2nd cycle	Threshold sum 2 cycles	Decision with new rules	Decision with forme rules
HYB	45	30	30	21	75	47		
HYB	48	36	29	27	77	58		
LI	10	8	10	7	20	13		
LI	12	9	9	8	21	14		
LI	13	9	8	7	21	13	Refusal	
LI	Global heterogeneity	8	Global heterogeneity	7	Global heterogeneity	14	Relusai	Refusal
LI	39	9	25	8	64	15		
LI	14	8	10	7	24	13		
HYB	33	39	24	20	57	55		1
HYB	39	37	22	26	61	58		
LI	19	8	1	6	20	13	3rd cycle	
LI	12	11	6	8	18	16		
LI	7	9	10	8	17	15		
HYB	34	36	23	22	57	54		
HYB	14	37	21	20	35	53		Uniform
HYB	26	34	30	29	56	59		Uniform

III. Example of cauliflower									
Threshold per cycle: 3 off-types If sum cycle 1+cycle 2, threshold = 4 Hybrid varieties, 60 plants / cycle									
Off-types observed during the 1 st cycle	Conclusion cycle 1	Off-types observed during the 2 nd cycle	Conclusion cycle 2	during the cycle 3		Decision with new rules	Sum OT 2 cycles	Conclusion if sum 2 cycles	Decision with former rules
2	<threshold → OK</threshold 	2	<threshold→ OK</threshold→ 	n/a			4	=threshold	OK, Uniform
3	=threshold →OK	3	=threshold → OK	n/a		OK, Uniform	6	>threshold	
2	<threshold → OK</threshold 	4	>threshold→ 3 rd cycle	3	=threshold → OK		6	>threshold	Non-Uniform
4	> threshold	4	>threshold	n/a		Non- Uniform	8	>threshold	
	Most of the candidate varieties are in the 1 st or the last case, In the advantage of the applicant when close to the thresholds Groupe d'Étude et de contrôle des Vanétés Et des Semences								

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