

BMT-TWA/Maize/2/6 Add. ORIGINAL: English DATE: December 3, 2007

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

## AD HOC CROP SUBGROUP ON MOLECULAR TECHNIQUES FOR MAIZE

# Second Session Chicago, United States of America, December 3, 2007

ADDENDUM TO DOCUMENT BMT-TWA/MAIZE/2/6

USE OF MOLECULAR MARKERS FOR CHECKING SEED LOTS IDENTITY AND HYBRID FORMULAE IN MAIZE

Document prepared by experts from France

This document is an addendum to document BMT-TWA/Maize/2/6 "Use of Molecular Markers for Checking Seed Lots Identity and Hybrid Formulae in Maize" and contains a copy of the presentation made by experts from France at the second session of the *Ad Hoc* Crop Subgroup on Molecular Techniques for Maize.

Slide 1





Slide 3





#### Slide 5





#### Slide 7





#### Slide 9

	IDENTITY CONTROL OF MAINTENANCE LOTS					
	Observa	ations:				
	# of lines	# of seed lots	Results from lab	Results from field		
) [	15	62	ок	ок		
	5	14	+/- 1 allele	OK for 13 seed lots For 1 seed lot the plants were higher than the reference		
	1	1 out of 2	+2 alleles	ок		
	1	1 out of 4	3 loci different	Plants higher than reference		
ſ	1	1 out of 3	14 loci different	Mislabelling		
	1	1 out of 3	18 loci different	Mislabelling		
	1	1 out of 4	22 loci different	Homonymy		
	/ 25 lines	/ 92 lots				



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#### Slide 15



#### Slide 16



Pour la ligne grise, il y a des données manquantes, c'est pourquoi, on ne l'a pas comptée dans les tableaux

le '+' à côté des chiffres entre parenthèses exprime qu'il y a des « anomalies » supplémentaires comme une non fixation. Il ne faut pas en tenir compte

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## Slide 21



Observation	ns:						
# of NC loci	0	1	2	3	4	5	TOTAL
SSRs	70	15	2	3	0	2	92
Isoenzymes	84	4	4	0	0	0	92

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Isoenzymes	SSRs	Total	Total with tolerance of 1 NC locus
Conform	Conform	67	82
Conform	Non conform	17	3
Non conform	Conform	3	2
Non conform	Non conform	5	5
# hybrids		92	92
Agreement		79%	95%



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