Technical Working Party for Agricultural Crops	TWA/51/10
Fifty-First Session Cambridge, United Kingdom, May 23 to 27, 2022	Original: English Date: June 2, 2022

EXAMINING HYBRID VARIETIES

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 "Examining Wheat Hybrids", made by an expert from the United Kingdom, at the fifty-first session of the TWA.

[Annex follows]

TWA/51/10

ANNEX



Aim:

To encourage the group to consider if the standards included in the current wheat test guideline are appropriate for all types of hybrid production.

TG/3/12

- 4.2.3 The assessment of uniformity for hybrid varieties depends on the type of hybrid and should be according to the recommendations for hybrid varieties in the General Introduction.
- 4.2.4 Where the assessment of a hybrid variety involves the parent lines, the uniformity of the hybrid variety should, in addition to an examination of the hybrid variety itself, also be assessed by examination of the uniformity of its parent lines.
- 4.2.9 For the assessment of uniformity of hybrid varieties, a population standard of 10% and an acceptance probability of at least 95% should be applied. In case of characteristics indicated by B, the sample size for the assessment of uniformity may be reduced to 200 plants. In case of a sample size of 200 plants, 27 off-types are allowed. In case of a sample size of 100 ear-rows, plants or parts of plants, 15 off-types are allowed.

NIAB world-class experience, skills and resources



TWA/51/10 Annex, page 3



Chemical hybridisation

- Chemical Hybridisation Agents (CHA) are chemicals used to cause male sterility in seed production systems.
- Male sterility can be induced in a female inbred parent by spraying a chemical.
- Allows the production of a high number of parental combinations for estimating germplasm combining ability.
- A number of factors can affect success including
 - Agent used (some can induce female sterility or affect the F1 seed)
 - Environment (rain and heat can reduce efficacy)
- Limited uptake in commercial systems in the UK.



TWA/51/10 Annex, page 4





TWA/51/10 Annex, page 5



[End of Annex and of document]