

The management of variety collections by Cyclic Planting of Established Varieties



DUS herbage trial, Crossnacreevy, N. Ireland

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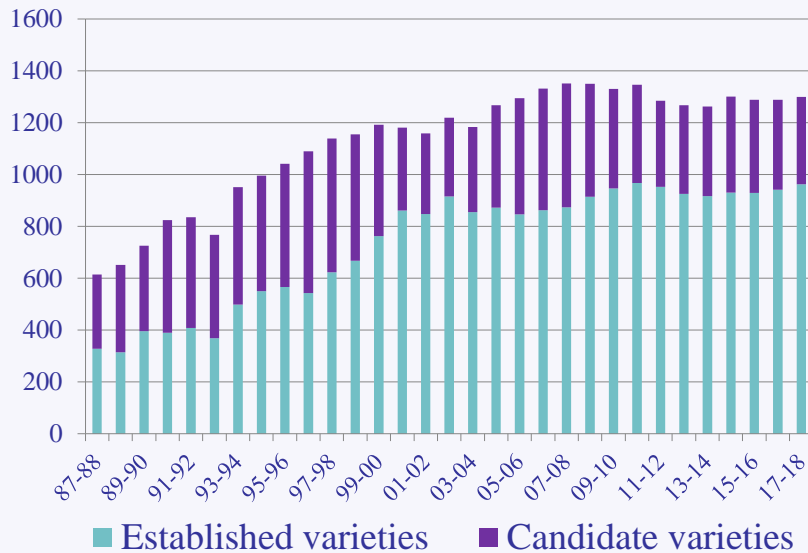
1/3 of the established varieties are excluded from trial each year

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at Crossnacreevy to CPVO protocols

- Where ? GB DUS testing of herbage (3 years of trials)
- Why ? reduce DUS trial sizes & maintain testing stringency
- When ? whenever COYD used & too many established varieties
- What ?
- omit a subset of the established varieties from the trial each year, and
 - use historical data to compensate for their absence in the DUS testing of candidate varieties
- How ? TGP/8/3 PART I, Section 6

Numbers of candidate and established varieties in GB Herbage DUS field trials 1987-2017



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*Combined Over Years analysis,
eg for MS or MG characteristics in cross-pollinated crops*

When to use CYCLIC PLANTING ?

- When distinctness is determined by COYD, and
- too many established varieties (cost or practical reasons), and
- can't use grouping characteristics, eg cross-pollinated crops, and
- ≥ 20 degrees of freedom for the varieties-by-years mean square (if not, don't use)

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Presence in trial and data usage for the test period 2015 to 2017

TRIAL YEARS	YEAR OF OBSERVATIONS								
	2011	2012	2013	2014	TEST PERIOD			2018	2019
Established Varieties Cycle A		A	A		A	A		A	A
Established Varieties Cycle B	B		B	B		B	B		B
Established Varieties Cycle C	C	C		C	C		C	C	
Candidates submitted 2014				O	X1	X2	X3	X4?	↑ ^C

X1, X2, X3 Indicates year 1,2,3 in trial respectively

O Indicates varieties submitted & sown

X4? Indicates varieties present in trial, but data only recorded if DUS from years 1,2 & 3

↑^C Indicates varieties not sown but if DUS, they join Cycle C of Established Varieties etc.

□ (within box) Indicates the data used for uniformity testing for the test period

◻ (within shape) Indicates the data used for distinctness testing for the test period

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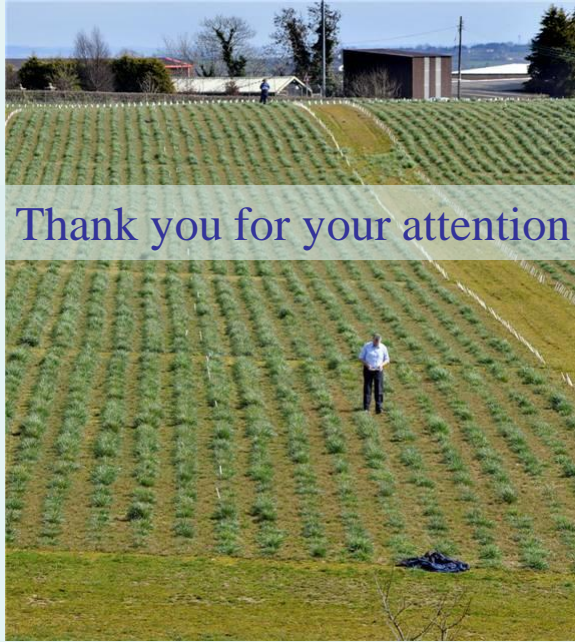
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Thank you for your attention