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82/R/B/9 Interference Between Plots - Spring Barley

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82/R/B/9

SPRING BARLEY

INTERFERENCE BETWEEN PLOTS

Object: To study the influence of neighbouring plots, on the occurrence of mildew and on yield, for three single varieties and a mixture of them - Great Knott II.

Sponsor: J.F. Jenkyn.

Design: A serially balanced sequence of 9 'blocks' of 4 plots with flanking plots on the outsides and at a discontinuity necessitated by field layout.

Whole plot dimensions: 2.03 x 18.3.

Treatments:

VARIETY	Varieties:
ATHOS	Athos
CLARET	Claret
KORU	Koru
MIXTURE	Mixture of Athos, Claret and Koru

NOTE: The effects of treatments to neighbouring plots (left - LHN, right - RHN) were estimated. In this experiment 'left' was East, 'right' was West.

Basal applications: Manures: (0:14:28) at 900 kg, 'Nitro-Chalk' at 480 kg. Weedkillers: Dicamba, mecoprop and MCPA (as 'Poly-Farmon' at 5.0 l) in 250 l. Paraquat and diquat (as 'Cleansweep' at 2.0 l) in 250 l.

Seed: All varieties sown at 160 kg.

Cultivations, etc.: - Paraquat and diquat applied: 22 Oct, 1981. PK applied: 25 Nov. Ploughed: 10 Dec. Spring-tine cultivated, N applied: 30 Mar, 1982. Rotary harrowed, seed sown: 31 Mar. Dicamba, mecoprop and MCPA applied: 18 May. Combine harvested: 17 Aug. Previous crops: S. beans 1980, w. barley 1981.

NOTE: Mildew was assessed on all plots in early June and early July.

82/R/B/9

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

VARIETY	ATHOS	CLARET	KORU	MIXTURE
	6.34	6.90	5.34	6.28
LHN	ATHOS	CLARET	KORU	MIXTURE
VARIETY				
ATHOS		6.55	6.18	6.28
CLARET	6.94		6.90	6.85
KORU	5.11	5.72		5.20
MIXTURE	6.08	6.29	6.49	
RHN	ATHOS	CLARET	KORU	MIXTURE
VARIETY				
ATHOS		6.59	6.36	6.06
CLARET	6.88		6.73	7.07
KORU	5.43	5.30		5.30
MIXTURE	5.97	6.31	6.57	

GRAND MEAN 6.22

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	VARIETY	VARIETY LHN	VARIETY RHN
SED	0.122	0.211	0.211

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
WP	16	0.259	4.2

GRAIN MEAN DM% 82.7

PLOT AREA HARVESTED 0.00373