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76/R/B/8 Mixed Varieties and Mildew - Barley

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76/R/B/8

SPRING BARLEY

MIXED VARIETIES AND MILDEW

Object: To study the effects of mixing varieties on the incidence of mildew and the yield of spring barley - Whittlocks.

Sponsor: J.F. Jenkyn.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 8.53 x 11.0.

Treatments

VARIETY	Varieties:
HASSAN	Hassan
LOFAABED	Lofa Abed
MIDAS	Midas
WING	Wing
MIXED	Equal mixture of the above four varieties (2 plots/block)

NOTES: (1) All varieties were separated and surrounded by 18 m of variety Proctor, seed dressed ethirimol, sprayed tridemorph at 0.53 kg in 450 l on 27 May. Yields were taken from this crop, adjacent to treatment plots, for covariance analysis.

(2) There was also a systematic difference between the yields recorded from even and odd plots in the order of harvesting; an adjustment-by-covariance analysis has also been made for this in the yields presented. An explanation is being sought.

Basal applications: Manures: (20:14:14) at 380 kg combine drilled.
Weedkillers: Dicamba with mecoprop and MCPA ('Banlene Plus' at 5.6 l in 220 l).

Seed: All varieties sown at 160 kg.

Cultivations, etc.: - Ploughed: 6 Nov, 1975. Spring-tine cultivated: 1 Mar, 1976. Seed sown: 10 Mar. Weedkiller applied: 7 May. Combine harvested: 28 July. Previous crops: Beans and oats 1974, wheat 1975.

NOTE: Seedling emergence counts were made. Mildew was assessed on three occasions and ear counts were made in July.

76/R/B/3

GRAIN TONNES/HECTARE

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

VARIETY	HASSAN	LOFAABED	MIDAS	WING	MIXED	MEAN
	3.74	3.71	3.89	3.95	4.01	3.88

***** STANDARD ERRORS OF DIFFERENCES OF MEAN *****

TABLE	VARIETY	
SED	0.159	MIN REP
	0.137	MAX-MIN

VARIETY	
MAX-MIN	MIXED V ANY OF REMAINDER
MIN REP	ANY OF REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	14	0.193	5.0

MEAN DM% 87.0

PLOT AREA HARVESTED 0.00312