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70/R/B/6 Barley Comparison of Combines

Rothamsted Research

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BARLEY

(70/R/B/6)

Comparison of combines, Hoosfield (Series O and A of the Classical Barley Experiment) 1970.

For manurial treatments and original design see 'Details' 1967 and 'Results' 68/A/2.

Each row of N sub-plots running north - south across the Series was divided into 3 for a comparison of combines.

Areas harvested:-	P plots:	Strips 1 - 4	Strips 6 and 7
	L plots:	0.0043	0.0032
	S plots:	0.0086	0.0064
		0.0064	0.0048

Treatments:- Combine harvesters and number of rows cut between blank rows:

PAM 150S	8 rows (P)
Bamford Claeys	16 rows (L)
Sampo	12 rows (S)

Basal applications: Manure - none. Weedkillers: Paraquat at 0.75 lb ion in 20 gals, MCPA, mecoprop and dicamba ('Banlene Plus' at 4 pints in 20 gals).

Cultivations, etc.: Paraquat applied: 17 Sept, 1969. P, K, Na, Mg applied: 22 Oct. FYM applied: 10 Nov. Ploughed: 11 Nov. Seed drilled at 140 lb: 20 Mar, 1970. N applied: 9 Apr. MCPA/mecoprop/dicamba applied: 26 May. Combine harvested: 25 Aug. Variety: Julia.

NOTE: Plots 413 (N3), 414 (N1), 421 (NO), 422 (N1) - (all P K Na Mg) - were sampled, for all 3 combines, as follows:-
Shed grain was estimated from sample areas on 2 dates shortly before harvest, and just after the combine had passed.
During combining, the straw was sampled for unthreshed grains and loss of grain from sieves was estimated.

70/R/B/6

SUMMARY OF RESULTS

GRAIN: CWT

GAUGE SERIES

	O	P	K	PK	Mean	D	(D)	(Ashes)	-	Mean
L	14.6	18.7	17.9	28.4	19.9	42.8	25.2	18.1	17.4	25.9
P	13.6	18.7	18.0	27.5	19.4	43.5	24.3	18.5	16.3	25.6
S	15.8	19.8	18.7	27.9	20.5	43.2	26.2	20.5	17.0	26.7
Mean	14.6	19.1	18.2	27.9	20.0	43.2	25.2	19.0	16.9	26.1

EXCLUDING GAUGE SERIES

	NO	N1	N2	N3
L	9.1	19.2	24.4	26.9
P	9.3	18.3	23.5	26.6
S	10.6	19.6	24.6	27.3
Mean	9.7	19.0	24.2	26.9

Mean D.M. % all plots: 81.3

NOTE: K denotes K Na Mg