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Yields of the Field Experiments 1965

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65/R/BA/C/13 Paraquat - Barley

Rothamsted Research

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65/C/13.1

PARAQUAT EXPERIMENT

(BA)

A comparison of methods of preparing a seedbed for barley following spring wheat and an investigation of the effect of paraquat on soil fauna - Pastures 1965, the second year.

For treatments, etc. and the previous year's results see 'Results' 64/C/14.

In 1965 treatments were repeated with one additional factor - the season of application of paraquat, in winter (A) on Nov 6, 1964, or in spring (B) on Mar 25, 1965. The paraquat was applied in each case at 2 lb ion in 40 gals.

Area of each sub-plot: 0.0145. Area harvested: 0.0068.

Basal applications: Fertiliser as 1964. Weedkiller: MCPA/TBA (18/15 at 4 pints in 40 gals).

Cultivations, etc.: A plots sprayed with paraquat: Nov 6, 1964. B plots sprayed with paraquat, all P plots ploughed: Mar 25, 1965. R plots rotary cultivated, all P plots ring rolled: Mar 29. All P plots disc harrowed: Mar 30. All R plots rotary cultivated, all P plots harrowed: Apr 1. Seed drilled by I.C.I. drill at 168 lb: Apr 2. All P plots harrowed and ring rolled: Apr 3. GA and GB plots flat rolled: Apr 5. Sprayed: May 22. Combine harvested: Sept 15. Variety: Maris Badger. Previous crops: 6 year grass and clover ley 1957/63, spring wheat 1964.

NOTE: The direct-seeded plots (GA and GB) had poor stands of barley, in many places completely choked by grass weeds.

Standard errors per plot.

Grain: Whole plot: 2.10 or 6.4% (14 d.f.)

Sub plot: 3.26 or 9.9% (48 d.f.)

65/C/13.2

SUMMARY OF RESULTS

GRAIN

	P	PGA	PGB	RGA	RGB	GA	GB	Mean
Mean	(± 0.74) 37.4	36.6	37.2	(± 1.05) 34.8	33.9	22.6	23.6	32.9
O	(± 1.05) 38.0	36.9	35.8	(± 1.48) 35.0	33.4	22.4	25.6	(± 0.52) 33.1
I	36.7	36.2	38.6	34.7	34.4	22.8	21.5	32.7
NO	(1) and (2) 39.1	36.0	39.0	(3) and (4) 34.6	32.4	14.6	17.3	(± 0.58) 31.5
N1	37.4	36.4	36.1	36.8	33.0	22.1	22.0	32.6
N2	36.6	36.4	37.0	34.9	33.2	28.4	29.2	34.0
N3	36.4	37.5	36.8	33.0	36.8	25.2	25.8	33.5
	NO	N1	N2	N3				
O	32.1	(5) and (6) 33.2	33.5	33.7				
I	30.9	32.1	34.5	33.3				

Mean D.M. %: 75.7

- (1) (± 1.25) (3) (± 1.76) For use in horizontal and diagonal comparisons only.
 (2) (± 1.15) (4) (± 1.63) For use in vertical and interaction comparisons only.
 (5) (± 0.88) For use in vertical and diagonal comparisons only.
 (6) (± 0.82) For use in horizontal and interaction comparisons only.