

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1965

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1966) *65/R/BA/C/13 Paraquat - Barley* ; Yields Of The Field Experiments 1965, pp 159 - 160 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

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
	(1) and (2)			(3) and (4)				(±0.58)
NO	39.1	36.0	39.0	34.6	32.4	14.6	17.3	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.