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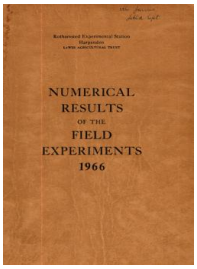
ROTHAMSTED RESEARCH

Yields of the Field Experiments 1966

Full Table of Content



66/R/BY/C/19 Previous Crops and N for Barley 1965-66 - Spring Wheat, Kale and Ryegrass

Rothamsted Research

Rothamsted Research (1967) *66/R/BY/C/19 Previous Crops and N for Barley 1965-66 - Spring Wheat, Kale and Ryegrass ;* Yields Of The Field Experiments 1966, pp 189 - 191 **- DOI: https://doi.org/10.23637/ERADOC-1-158**

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66/C/19.3

RYEGRASS

DRY MATTER

NO	N2	N4	Mean
	1ST CUT		
10.6	(±1.73) 31.2	38.9	26.9
	2ND CUT		
16.7	(±1.11) 23.8	34.8	25.1
	3RD CUT		
8.7	(±0.34) 9.4	10.2	9.4
	TOTAL OF 3 CUTS		
36.0	(±2.51) 64.3	84.0	61.4

Mean D.M. %: 1st cut: 18.1
2nd cut: 19.6
3rd cut: 16.6
Total of 3 cuts: 18.1

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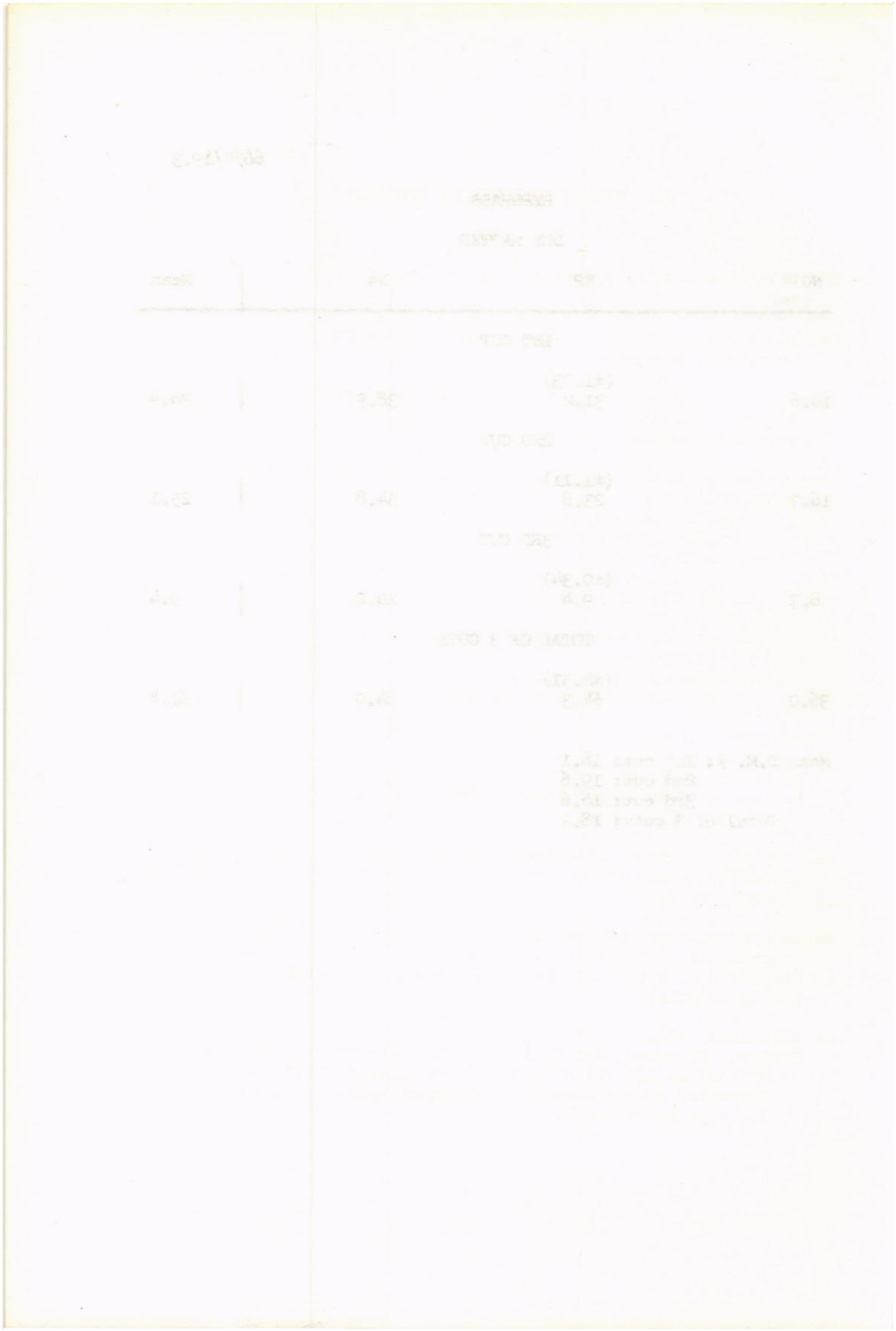

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66/C/20.1

BARLEY FOLLOWED BY RYEGRASS

(EQ)

The rate of action of P fertilisers, Sawyers II 1966, the second year.

Design: 4 replicates of 7 x 2 x 2 plus 2 plots per block without P, 8 blocks of 16 plots.

Area of each plot:	Area harvested:
Barley: 0.0018	0.0009
Ryegrass: 0.0018	0.0007

Treatments, to barley only: No P (0) (2 plots per block) and all combinations of:-

1. Phosphatic fertilisers:

Triple superphosphate	(S)
Potassium metaphosphate	(K)
Triple superphosphate plus potassium metaphosphate*	(SK)
Magnesium ammonium phosphate	(M)
Triple superphosphate plus magnesium ammonium phosphate*	(SM)
Potassium metaphosphate plus magnesium ammonium phosphate*	(KM)
Triple superphosphate plus potassium metaphosphate plus magnesium ammonium phosphate*	(SKM)

* Each material supplying half the P (one third in treatment SKM).

2. Levels of P: 12 lb (L1), 24 lb (L2) P.
3. Type of fertiliser: Powder, less than 1 mm. (P), granular 1-4 mm. (G).

All applied to barley with 'Nitro-Chalk', muriate of potash and kieserite in amounts adjusted to give a total of 60 lb N, 100 lb K and 25 lb Mg.

Basal applications: To ryegrass: 60 lb N and 50 lb K (16:0:16) on 2 occasions. Weedkillers: To barley: Ioxynil and mecoprop (Actril C at 4 pints in 50 gals), paraquat to stubble at 1 lb ion in 50 gals.

Cultivations, etc.
Barley: Ploughed: Jan 8, 1966. Fertilisers applied, seed drilled at 160 lb: Mar 10. Weedkiller applied: May 19. Harvested green: June 24. Paraquat applied: June 29. Variety: Maris Badger.

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