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Yields of the Field Experiments 1964



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Rothamsted Research

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64/C/4.1

METHODS OF APPLICATION OF FERTILISER 1963 - 64

(AR/W)

Methods of application of fertiliser - Great Knott II 1964, the second year - winter wheat.

Design: 3 x 3 x 3 in 3 blocks of 9 plots each together with 3 additional plots per block.

Area of each plot: 0.0212. Area harvested: 0.0126.

Treatments:

3 x 3 x 3: All combinations of:-

To wheat 1964.

 NPK: None (FO), 0.66 (F1), 1.32 (F2) cwt N as spring top dressings of 'Nitro-Chalk' each with superphosphate and muriate of potash applied in autumn in the seedbed in the proportion 13 N, 13 P205, 20 K20.

To potatoes 1963.

2. Levels of 13:13:20 to supply (cwt):

N	P205	K20	
0.66	0.66	1.02	(L1)
1.32	1.32	1.02	(12)
2.00	2.00	3.07	(L3)

 Methods of application: Broadcast (B), placed (P), broadcast and rotary cultivated in (BR).

Additional plots:

To wheat 1964. NPK: FO, F1, F2 as above to plots receiving no treatment in 1963.

Basal dressing: None.

Cultivations, etc.: Chisel ploughed: Oct 24, 1963. PK applied, seed drilled at 3 bushels: Oct 28. 'Nitro-Chalk' applied - 1st half dressing: Apr 1, 1964. Sprayed with mecoprop/2,4-D (Methoxone Extra at 7 pints in 40 gals): Apr 30. 'Nitro-Chalk' applied - 2nd half dressing: May 4. Combine harvested: Aug 27. Variety: Cappelle. Previous crop: Spring beans 1962.

NOTES: (1) For previous year's results see 'Results' 63/C/5.

(2) Green-crop and grain and straw samples were taken for NPK and dry matter determination.

Standard error per plot. Grain: 2.30 or 4.6% (18 d.f.)

64/c/4.2

SUMMARY OF RESULTS

GRAIN

	В	P	BR	L1	12	L3	Mean
		(±1.33)	Alegor d	as aro	(±1.33)	deeld ((±0.77)
F0 F1 F2	42.2 54.5 53.2	44.9 53.8 56.4	47.9 52.4 53.5	39.5 51.0 54.5	45.2 55.6 55.2	50.3 54.1 53.4	45.0 53.6 54.4
					(±1.33)	i Eden Lon	e IIA n
	garten saudend budber	P	(EE) out do by doub exitague i exitague i	48.3 48.5 48.2	51.0 53.1 51.9	50.7 53.4 53.6	50.0 51.7 51.2
		Mear	(±0.77)	48.3	52.0	52.6	50.5 (±0.44)

Plots untreated in 1963

FO	F1	F2	Mean	
36.0	49.7 (±1.33)	54.8	46.8 (±0.77)	

General mean: 49.6

Mean D.M. %: 86.3

64/c/4.3

STRAW

	В	P	BR	L1	12	L3	Mean
FO F1 F2	28.2 37.0 43.0	32.2 39.6 46.5	33.4 34.9 43.7	28.0 35.7 45.7	30.4 39.1 43.9	35.4 36.7 43.6	31.3 37.2 44.4
		B P BR		32.8 38.6 37.9	36.7 40.7 36.0	38.7 39.0 38.0	36.1 39.4 37.3
	Ta and	Mean	1	36.5	37.8	38.6	37•3

Plots untreated in 1963

FO	F1	F2	Mean
22.6	31.6	41.1	31.8

General mean: 35.9

Mean D.M. %: 92.2