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Yields of the Field Experiments 1967

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67/S/SC/C/23 Intensive Wheat - Winter Wheat

Rothamsted Research

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67/C/23.1

INTENSIVE WHEAT

(SC)

Saxmundham, Ollershaw's and Garner's plots 1967, the second year.

Area harvested: 0.0098.

The Meadow Fescue ley is now replaced by a one year Italian ryegrass ley, cut twice for hay, which receives 1.0 cwt N in the seedbed, and 0.5 cwt N and 1.0 cwt K₂O after the first cut. N as 'Nitro-Chalk', K₂O as muriate of potash.

Basal applications: 560 lb (0:20:20) broadcast before ploughing.
Weedkiller to wheat: Mecoprop/2,4-D (Methoxone Extra at 7 pints in 20 gals). Insecticide to beans: Demeton-s-methyl at 3 oz in 37 gals.

Cultivations, etc.: Basal PK compound applied: Sept 20, 1966.

Ploughed: Sept 22.

Wheat: Seed drilled: Oct 17, 1966. 'Nitro-Chalk' applied:

Mar 23, 1967. Weedkiller applied: Apr 27. Combine harvested: Aug 17. Variety: Cappelle.

Grass ley: Seed drilled: Mar 14, 1967. 'Nitro-Chalk' applied:

Mar 23. Cut: June 13. 'Nitro-Chalk' and muriate of potash applied: June 26. Cut: Aug 8. Variety: S22 Italian.

Beans: Seed drilled at 270 lb: Mar 13, 1967. Insecticide applied: June 12. Combine harvested: Aug 24.

Variety: Hasler's Throws.

NOTES: (1) Yields were taken for winter wheat only.

(2) Estimates of the incidence of take-all (*Ophiobolus graminis*) and eyespot (*Cercospora herpotrichoides*) were made.

Standard errors per plot. Grain:

Whole plot: 1.83 or 5.2% (6 d.f.)

Sub plot: 3.05 or 8.7% (18 d.f.)

67/C/23.2

SUMMARY OF RESULTS

Crop in 66 67	N1	N2	N3	Mean
GRAIN				
	(1) and (2)			(± 0.91)
W W	27.6	35.6	37.6	33.6
L W	36.2	43.7	39.4	39.8
W W	28.4	34.3	32.7	31.8
Mean (± 0.88)	30.7	37.9	36.6	35.1

Mean D.M. %: 81.3

(1) (± 1.55) For use in vertical and diagonal comparisons(2) (± 1.53) For use in horizontal and interaction comparisons

STRAW				
W W	22.1	30.5	30.4	27.7
L W	32.2	34.1	33.4	33.2
Mean	27.1	32.3	31.9	30.5

Mean D.M. %: 82.1