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Yields of the Field Experiments 1965

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65/R/BK/A/1 Broadbalk - Wheat

Rothamsted Research

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65/A/1.1

WHEAT - BROADBALK 1965

(BK)

For history, treatments etc. see 'Details' 1962.

Cultivations, etc.:

CROPPED SECTIONS: Ground chalk applied: Sept 9, 1964. Ploughed: Oct 9 - 14. Dung applied: Oct 13. Autumn fertilisers applied: Oct 19. Seed drilled at 180 lb: Oct 26. Spring fertilisers applied: Apr 26, 1965. Second dressing of nitrate of soda applied to plot 16: May 10. Sprayed* with MCPA at 1.13 lb and dicamba at 0.08 lb in $\frac{3}{4}$ gals: May 11. Combine harvested: Sept 21. Variety: Squarehead's Master 13/4 (Rothamsted seed from Broadbalk field).

FALLOW SECTION: (IV) Ploughed: Oct 9 - 14, 1964, Nov 30, July 21, 1965.

BROADBALK WILDERNESS: Cultivations, etc.:

Ungrazed meadow (north): Shrubs grubbed out: Nov 3 - 19, 1964.

Grazed meadow (centre): Grazed by sheep: Apr 26 - May 4, 1965, May 22 - 28, June 15 - 25, July 19 - 29, Aug 18 - 31, Oct 4 - Nov 4. Grass topped: May 3, May 28, June 25, July 29, Sept 1.

* Except Section 5A.

65/A/1.2

SUMMARY OF RESULTS

Section Years after fallow	GRAIN						Mean
	IV	VA	II	IB	VB	IA	
	1	2	3	4	7	14	
2A	32.7	29.3	27.5	25.9	28.3	24.1	28.8
2B	31.5	26.3	26.6	24.2	26.9	24.9	27.5
3	23.4	13.9	8.2	8.0	7.2	9.7	13.0
5	27.1	20.6	9.3	9.0	10.7	9.7	15.7
6	24.0	14.7	14.7	13.5	13.7	12.7	16.8
7	21.5	21.7	23.1	20.9	18.9	22.2	21.6
8	26.5	24.6	23.1	26.5	22.4	19.7	24.4
9	23.3	21.4	19.2	13.5	18.6	17.7	19.6
10	18.4	22.0	18.3	14.0	14.9	10.7	17.2
11	17.9	25.8	16.5	15.5	17.1	14.7	17.8
12	18.8	21.3	17.0	17.7	14.5	16.5	17.8
13	21.2	21.1	20.0	16.4	17.4	19.3	19.6
14	21.0	20.4	18.8	19.7	17.1	14.5	19.2
15	24.7	15.3	18.3	18.5	22.1	18.7	20.2
16	20.4	22.8	20.5	20.4	21.6	16.8	20.6
17	20.3	13.5	7.9	5.6	8.7	3.7	11.5
18	24.2	15.3	18.5	15.5	23.7	19.6	20.0
19	26.1	22.9	19.1	18.4	19.6	16.9	21.3
20			12.2	17.0		12.4	14.0

Mean D.M. %: 79.3

NOTE: The yields above are calculated (as in all experiments in the 'Results') from the weight of 'first' grain delivered by the combine harvester, adjusted only for moisture content. On certain sub-plots in 1965 samples were separated into wheat, weed seeds and rubbish. Results:-

	% weeds plus rubbish				
	Plot No				
	2	5	7	9	18
Section VA	4	19	9	12	34
Section VB	2	8	3	4	2

65/A/1.3

Section Years after fallow	STRAW						Mean
	IV 1	VA 2	II 3	IB 4	VB 7	IA 14	
2A	47.3	41.1	34.3	40.9	35.9	30.9	39.6
2B	49.0	35.3	42.3	38.7	35.6	30.3	41.1
3	29.6	15.5	12.6	9.6	11.4	10.7	16.9
5	39.8	22.7	8.1	15.2	18.8	13.8	21.2
6	43.1	21.3	19.9	19.0	15.6	19.6	25.7
7	37.1	36.2	34.5	32.9	31.1	36.2	34.9
8	44.6	47.6	38.6	33.9	39.8	36.7	40.7
9	31.5	32.9	28.0	23.6	31.4	30.4	29.5
10	26.1	35.3	15.5	14.7	21.9	20.3	21.8
11	24.6	38.3	21.8	21.9	19.8	39.3	25.5
12	34.3	37.4	20.2	18.0	26.5	12.7	26.1
13	37.7	41.2	31.5	27.0	38.0	31.7	34.6
14	38.0	42.3	20.5	27.3	29.9	20.0	30.0
15	36.7	30.5	26.5	27.7	33.4	35.8	31.4
16	46.1	43.2	35.7	32.5	42.4	34.2	39.7
17	22.3	18.3	9.6	8.7	10.8	8.2	14.0
18	40.5	22.8	24.5	22.1	39.2	28.0	30.4
19	36.3	31.9	25.7	25.5	28.5	24.4	29.6
20			14.3	21.3		27.9	19.2

Mean D.M.%: 88.3