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Yields of the Field Experiments 1967

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

Rothamsted Research

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67/A/1.1

WHEAT - BROADBALK 1967

(BK)

The 124th year

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

Cultivations, etc.:

Cropped sections: Section IA, sprayed with aminotriazole at 4 lb and ammonium thiocyanate at 3.7 lb in 40 gals: Sept 16, 1966. Ground chalk applied: Sept 21. Ploughed: Oct 12. Dung applied and ploughed in: Oct 14. Autumn fertilisers applied: Nov 2. Rotary cultivated, seed drilled at 185 lb: Nov 3. Spring fertilisers applied: Apr 19, 1967. Second dressing of nitrate of soda applied to plot 16: Apr 27. All sections except Va sprayed with ioxynil/mecoprop (Actril C at 6 pints in 20 gals): May 1. Combine harvested: Aug 31. Variety: Squarehead's Master 13/4 (Rothamsted seed from Broadbalk field).
Fallow section II: Ploughed: Oct 12, 1966. Rotary cultivated: Nov 3. Ploughed: Mar 29 and July 5, 1967.

Broadbalk Wilderness: Cultivations, etc.:

Ungrazed meadow (north): Shrubs grubbed out: Oct 22 - Dec 5, 1966.
Grazed meadow (centre): Grazed by sheep: Apr 10 - 18, 1967, May 15 - 24, June 19 - July 3, July 24 - Aug 4, Aug 30 - Sept 11, Oct 3 - Oct 10, Nov 4 - Nov 8. Grass topped: Apr 19, May 24, July 3, Aug 4, Sept 11.

67/A/1.2

SUMMARY OF RESULTS

GRAIN

Section Years after fallow	IB	III	IV	VA	VB	IA	Mean
	1	2	3	4	9	16	
2A	29.8	17.2	20.6	17.6	15.1	18.8	19.8
2B	33.6	19.6	21.0	17.8	18.0	16.4	21.3
3	20.7	9.8	7.4	10.3	7.9	7.5	10.4
5	20.4	9.0	9.3	12.1	9.2	7.5	11.0
6	20.8	13.2	7.6	12.2	11.0	14.1	12.4
7	22.4	21.6	16.2	12.2	14.9	20.2	18.2
8	27.4	31.6	26.6	15.8	24.3	26.4	26.5
9	21.3	16.3	13.7	14.7	13.0	13.9	15.5
10	18.0	21.7	17.4	14.7	18.0	7.6	17.7
11	23.7	19.1	15.8	10.1	17.5	19.0	17.6
12	23.9	19.8	14.0	10.5	17.3	20.4	17.4
13	26.2	16.2	11.3	9.1	14.4	16.0	15.2
14	30.1	19.3	11.1	15.4	17.9	21.0	18.1
15	20.2	12.0	3.8	9.0	11.2	9.4	10.3
16	31.7	28.9	21.5	24.0	27.1	20.1	25.9
17	16.4	7.5	4.4	9.4	6.3	4.9	7.8
18	19.2	16.2	15.1	10.5	19.9	13.5	15.9
19	21.9	12.1	7.8	12.1	12.6	13.4	12.5
20	16.8					10.7	14.8

Mean D.M. %: 83.7

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 1967, samples were separated into wheat, weed seeds and rubbish. Results:-

% WEED SEEDS PLUS RUBBISH

Section	Plot no.				
	2	5	7	9	18
IA	0.9	1.0	0.3	0.2	0.7
IB	0.5	0.7	0.5	0.2	0.4
VA	3.7	18.2	3.4	5.2	12.3
VB	1.7	2.3	1.8	0.3	2.5

67/A/1.3

Section Years after fallow	STRAW						Mean
	IB	III	IV	VA	VB	IA	
	1	2	3	4	9	16	
2A	55.2	29.2	34.5	40.0	41.0	32.5	37.3
2B	60.7	34.9	35.7	42.9	40.5	34.3	40.4
3	24.2	11.1	7.6	12.4	9.7	11.1	12.0
5	29.0	9.8	9.5	16.6	11.4	11.0	13.6
6	32.9	17.3	10.8	25.2	17.1	22.0	19.0
7	38.7	37.1	29.1	37.6	35.0	35.8	34.9
8	44.7	48.5	38.3	40.1	44.1	42.0	43.2
9	34.1	26.8	21.5	31.8	25.1	27.0	26.8
10	19.6	27.9	22.4	23.7	27.4	14.9	23.8
11	31.7	27.9	20.3	21.0	28.8	28.9	25.7
12	33.8	28.4	18.7	22.8	27.9	28.3	25.8
13	45.2	30.3	18.1	28.5	33.4	26.7	29.0
14	42.5	29.0	18.2	23.9	25.5	30.0	27.0
15	31.6	16.8	9.3	23.8	18.1	24.9	18.4
16	49.7	44.4	32.9	42.1	47.8	33.2	41.4
17	22.0	9.3	4.9	18.0	11.3	6.3	11.0
18	33.1	23.8	28.3	31.5	35.4	23.6	28.7
19	31.7	17.1	13.1	27.1	17.7	20.0	19.6
20	21.8					19.2	21.0

Mean D.M. %: 86.5