ROTHAMSTED RESEARCH

Yields of the Field Experiments 1966

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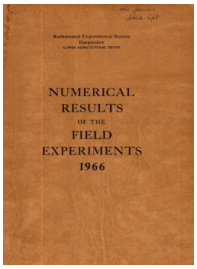

66/R/BK/A/1 Broadbalk - Wheat

Rothamsted Research

Rothamsted Research (1967) *66/R/BK/A/1 Broadbalk - Wheat ;* Yields Of The Field Experiments 1966, pp 11 - 13 **- DOI: https://doi.org/10.23637/ERADOC-1-158**

66/A/1.1

WHEAT - BROADBALK 1966

(BK)

The 123rd year

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

Cultivations, etc.:

CROPPED SECTIONS: Section IA (all plots), plot 20 (sections IB and II) sprayed with aminotriazole at 4 lb and ammonium thiocyanate at 3.7 lb: Oct 4, 1965. Ground chalk applied: Oct 7. Dung applied: Oct 28. Ploughed: Oct 29 - Nov 1. Autumn fertilisers applied: Nov 15. Seed drilled at 187 lb: Jan 7, 1966. Spring fertilisers applied: May 2. Second dressing of nitrate of soda applied to plot 16: May 16. Sprayed with Ioxynil/mecoprop (Actril C at 6 pints in 40 gals), all sections except VA: May 16. Combine harvested: Sept 6. Variety: Squarehead's Master 13/4 (Rothamsted seed from Broadbalk field).

FALLOW SECTION: (IB) Ploughed: Oct 29 - Nov 1, 1965, May 23, 1966, July 14 - 15.

BROADBALK WILDERNESS: Cultivations, etc.:

Ungrazed meadow (north): Shrubs grubbed out: Dec 6 - 10, 1965.

Grazed meadow (centre): Grazed by sheep: May 6 - 12, 1966, May 27 - June 3, June 21 - 29, July 19 - Aug 1, Aug 24 - 30, Sept 23 - 30, Nov 16 - 18.

Grass topped: May 12, June 3, June 29, Aug 1, Aug 30, Sept 30.

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66/A/1.2

SUMMARY OF RESULTS

GRAIN

Section Years after fallow	III 1	IV 2	VA 3	II 4	VB 8	IA 15	Mean
2A	37.3	31.3	26.5	29.9	26.2	24.8	31.0
2B	35.6	30.4	23.3	33.8	26.0	25.0	30.9
3	15.8	9.8	17.1	11.7	10.5	10.3	12.6
5	22.5	10.9	20.8	15.5	14.8	12.8	16.4
6	27.9	18.1	21.0	22.5	20.0	19.6	22.1
7	28.9	28.4	21.3	28.1	30.8	27.9	27.9
8	28.6	32.1	25.4	31.4	30.8	29.9	30.1
9	27.8	25.5	23.8	24.0	21.9	24.5	25.1
10	16.7	19.7	20.1	18.7	15.5	15.4	18.1
11	18.6	27.0	21.0	18.9	20.5	23.7	21.5
12	24.8	28.0	21.7	22.1	22.3	26.1	24.4
13	32.7	25.3	17.3	30.5	30.3	28.7	28.2
14	25.0	25.0	18.1	22.4	25.2	29.5	23.9
15	29.9	15.2	14.9	19.1	14.1	19.5	19.8
16	33.4	31.2	28.6	30.6	33.1	22.0	31.0
17	33.3	27.7	25.2	30.0	27.8	27.7	29.3
18	23.6	13.6	18.0	9.3	13.5	10.1	15.3
19	29.1	17.3	19.5	18.7	18.6	21.9	21.1
20				17.4		18.5	17.7

Mean D.M. %: 82.1

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 1966, samples were separated into wheat, weed seeds and rubbish. Results:-

% WEED SEEDS PLUS RUBBISH

Section	Plot no. 2	5	7	9	18
VA	5	29	8	10	53
VB	2	4	2	2	2

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STRAW

Section	III	IV	VA	II	VB	IA	Mean
Years after fallow	1	2	3	4	8	15	
2A	41.1	34.0	38.6	29.6	34.1	25.7	34.7
2B	41.5	33.5	35.7	32.8	35.0	25.1	35.2
3	14.3	11.6	22.0	10.5	11.0	11.0	13.0
5	22.9	11.4	25.4	14.9	15.7	14.3	17.1
6	24.1	17.3	28.1	22.6	19.8	19.8	21.8
7	27.1	27.4	29.9	26.7	33.1	30.2	28.2
8	33.6	32.0	35.6	33.6	30.1	29.5	32.8
9	26.8	32.3	33.7	25.9	24.6	29.7	28.6
10	18.1	18.0	20.5	18.3	13.9	19.1	18.0
11	17.1	20.6	24.2	15.4	16.4	23.4	18.6
12	19.8	24.1	27.6	17.8	21.0	25.0	21.7
13	29.7	25.0	25.7	29.7	31.5	30.4	28.4
14	21.3	17.5	24.1	18.3	21.0	28.4	20.4
15	24.8	18.3	22.7	16.8	13.1	24.2	19.8
16	37.9	34.7	41.8	35.1	36.6	36.9	36.7
17	30.4	30.3	38.2	31.7	31.1	31.6	31.7
18	19.1	15.0	25.1	10.4	13.6	12.8	15.7
19	28.4	27.1	29.0	16.8	19.6	21.4	24.0
20				19.4		23.3	20.5

Mean D.M %: 80.2

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