Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1948



Full Table of Content

Classicals

Rothamsted Research

Rothamsted Research (1949) Classicals; Yields Of The Field Experiments 1948, pp 4 - 9

48/A/1.1

WHEAT - BROADBALK 1948

The 105th year

Treatments as listed in 1938 Report p.p. 115-6, except that since the year 1940-41 rape cake has been replaced by castor bean meal, at the same rate of application.

Cultivations, etc.:

Cropped sections. Dung applied: Sept. 24. Ploughed: Sept 22-Sept. 24. Artificials applied: Oct.13-15. Rolled and springtime harrowed: Cct. 22. Tooth harrowed: Oct. 23. Seed drilled: Cct. 24-25. Harrowed in: Cct. 25. Harrowed: Apr. 12. Ring rolled: Apr. 20. Nitrogeneous fertilizers applied: Apr. 27-28. Second dressing of nitrate of soda applied to plot 16: May 7. Wild oats hand pulled: various days June 15 - July 30. Harvested: Aug. 19-20. Variety: Squarehe ads Master (13/4). Fallow section. Ploughed: Sept. 22-24. Rolled and springtime harrowed: Oct. 22. Tooth harrowed: Oct. 23 and 25. Springtime harrowed: Apr. 12. Thistles cut: Apr. 20. Ploughed: May 25-27. Ring rolled: June 9. Thistles cut: July 1. Ploughed: July 14-15. Rolled and springtime harrowed: Aug. 6.

_			,				48/A/1.2
	Mean		47.2	24.5	34.5 45.4 56.9 35.4	34.5	21.4 21.7 28.3 37.2
Total Grain: cwt. per acre Total straw. *cwt. per acre	A	4	50.0	19.1	31.9 44.0 52.6 29.6	26.8 26.8 37.7	46.3 34.6 17.5 36.8
	III	3	29.5	19.5	26.8 41.7 52.2 31.2	28.7 32.6 33.5 33.8	46.6 33.0 17.8 34.1
	Η	8	47.5	27.5	37.3 48.3 67.5 40.8	40.8 38.1 38.5 46.2 44.7	39.9 39.9 20.7 43.6 45.1
	II	-	62.0	34.3	42.0 47.8 55.2 40.1	22.22 28.83 23.22 44.3.88	49.5 42.6 30.9 38.8 29.4
	Mean		24.8	13.8	17.7 23.6 28.3 19.1	17.2 17.6 22.2 22.1 18.0	25.1 19.3 11.8 20.6 19.6
	AT	4	23.1	9.8	14.5 20.4 27.5 16.6	12.8 14.7 17.7 17.7 20.6	23.1 16.6 8.2 17.8
	III	M	20.0	10.9	20.2 25.6 25.6	17.6 17.8 19.7 18.7 20.2	17.6 8.8 18.3
	Н	N	23.5	17.2	20.5 27.9 31.8 22.3	24-2 21-8 24-4 26-4 28-3	26.6 22.5 12.9 26.5
	I .	-	32.4	17.3	21.6 26.1 28.4 22.2	14.2 16.3 26.2 19.4	28.1 20.5 17.3 19.6
	Section	Fallow	Plot 24	l mm	9786	5 2 5 5 5 4 5	15 19 19 20

Includes straw, cavings and chaff

48/A/2

BARLEY - HOOSFIELD 1948

Treatments as listed in 1938 Report, p. 117, except that since 1940-41 rape cake has been replaced by castor bean meal at the same rate of application.

Cultivations, etc.: Ploughed (shallow): Sept.18-20. Springtine harrowed: Sept 30. Dung applied: Nov 24. Ploughed: Nov 22-28. Springtine harrowed: Mar 1-5. Artificials applied: Mar 10-11. Thistles cleared: Mar 27. Harrowed: Mar 30. Seed drilled: Mar. 31 Harrowed in: Apr 6. Rolled: Apr 10. Wild oats hand pulled: July 5-15 and July 30 - Aug 10, and scythed: Aug 9. Harvested: Aug 30.

Note: On plots 50, 5A and 3C, sections badly infected with wild oats were scythed out and discarded. On all other plots the full area was harvested.

Plot	Total Grain cwt./acre	Total Straw cwt./acre
1 0 0 0 0 0 A A A A A A A A A A A A A A	7.6 10.3 8.9 14.2 16.3 10.6 16.0 12.2 21.6 19.3 13.3 20.5 15.3 22.4 17.5 21.8 22.4 24.6 15.2 17.7 17.3 23.3 12.6 28.2 6.6 8.7 12.8	10.9 11.9 11.5 18.3 21.2 16.5 21.1 20.2 27.5 23.2 25.9 27.1 27.8 31.5 30.0 30.1 21.6 23.2 26.4 18.9 15.6 40.2 10.1 11.4 22.8
2 N	16.9	27.4

Includes straw, cavings and chaff.

48/A/3

WHEAT AFTER FALLOW - HOOSFIELD 1948

Without manure 1851 and since.

For details of treatments see 1938 Report p. 109.

Cultivations, etc.:

Cropped sections: Ploughed: Sept.15-16. Rolled, springtine harrowed and harrowed: Oct.24. Seed drilled and harrowed in: Oct.25. Ring rolled: Mar.31. Weeds hand pulled: July 29. Harvested: Aug.23. Fallow sections: Ploughed: Sept.15-16. Rolled, springtine harrowed and harrowed: Sept.24. Springtine harrowed: Mar.10. Thistles cut: Apr.22. Ploughed: May 21. Ring rolled: June 9.

	Produce: cwt. per acre			
No. of years of Fallow Section	A2	A3	3 A4	Mean
Total Grain Total Straw	9.3	11.1	10.6	10.3

Note "CROPS IN ROTATION - AGDELL FIELD 1948"

Manures were applied as usual, but turnips were sown on plots 1 and 2 only. The crop was badly infected with "finger and toe", and was discarded.

48/A/4:1

MANGOLDS - BARNFIELD 1948.

- Treatments as listed in 1938 Report, p.110, except that on cross dressings AC and C, rape cake has been replaced by castor bean meal at the same rate of application.
- Note. Both the Mangold and Sugar Beet crops were almost destroyed by flea beetle, and only Mangolds were resown.
- Cultivations, etc.: Dung applied: Nov.25. Ploughed various days: Nov. 26-Dec. 16. Cultivated: Mar. 25. Artificials applied: Apr.20 23. Thistles cut: Apr.24. Harrowed: Apr. 26. Rolled: Apr. 27. Seed drilled: Apr. 28. Dusted with flea boetle dust: May 14, 19 and 22. Plant almost destroyed by flea beetle by May 29, so docision made to resow mangolds only. Thistles cut: May 29. Springtine harrowed: June 8. Harrowed, rolled and seed rodrilled June 9. Top dressings applied: June 10. Harrowed in seed and artificials: June 11. Dusted: June 19-22. Dung plot hoed: July 8. Hoed: July 12-15. Singled: July 12-21. Hoed: July 26-27, Aug. 16-25, Sept. 9-11, Sept 24-27 and Oct. 11. Lifted: Nov. 3-18. Variety: Yellow Globe.

Note: For leaf weights, two random rows were chosen from each plot. The weight of each of these samples was recorded separately.

Oross Dressings					48/4/4.2				
Strip	0		N	A	AG	σ			
Roots: tons per acre									
1 2 4	9.52 10.84 2.19	1 1	8.19 8.90 2.15 2.88	15.49 18.31 14.45	18.35 22.52 19.80	12.61 17.12 10.01			
56789	1.54 1.85 1.47 1.35 11.73	1	9.27 0.78 6.26 6.53	6.34 13.32 11.12 5.58	8.38 16.84 12.83 7.44	3.90 6.91 5.57 4.78			
. *		L	eaves: to	ons per acre					
124 56789	3.34 4.94 1.96 1.10 1.20 0.91 1.13 5.19	(a) (b)	4.82 6.29 5.43 6.14 4.21 4.31 4.62 3.72	4.16 5.65 2.50 2.50 4.66 2.55 3.	5.75 6.63 7.68 3.84 5.31 7.68 3.38	6. 43 5. 99 2. 76 4. 35 3. 16			