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Yields of the Field Experiments 1949



Full Table of Content

49/CB/1 Spring Sown Cereals

 $49/\!CB/\!1$ Spring Sown Cereals, Rothamsted Research (1950) Yields Of The Field Experiments 1949, pp 73 - 74

49/Cb/1.1

SPRING SOWN CEREAL EXPERIMENT

Comparison of barley, oats and two varieties of wheat, and of the effects on them of four levels of sulphate of ammonia, of superphosphate, and of muriate of potash.

RV - Fosters, 1949

System of replication: 4 randomized blocks of 4 plotseach, each plot being split into 4, certain first order interactions of artificials being confounded with whole plots.

Area of each sub-plot: 0.0197 acre.

Treatments:

Whole plots: Crops: - Oats (S.84), wheat (Atle and Bersee), and

barley (Plumage Archer).

Sub-plots: Sulphate of ammonia: None, 0.3, 0.6, 0.9, cwt N per acre.

Superphosphate: None, 0.6 cwt. P205 per acre. Muriate of potash: None, 0.6 cwt K20 per acre.

Basal Manuring: None.

Cultivations, etc.: Ploughed: during Dec. Springtine harrowed: Feb 23.
Artificials applied: Mar 5. Harrowed, seed drilled and harrowed in:
Mar 14. Ring rolled: Apr 19. "Agroxone" applied to kill off weeds:
June 1. Harvested: Aug 9. Previous crop: Barley.

Standard errors: (grain):

per whole plot, 1.68 cwt per acre or 8.0% (6 d.f.)

per sub-plot, 1.60 cwt per acre or 7.6% (24 d.f.).

		Grain: cwt	per acre	Time.		Straw cut nor armo	ner ame	
	Oats	Wheat (Atlc)	Wheat (Bersee)	Barley	Oats	Wheat (Atle)	Wheat (Bersee)	Barley
77.		8.01)	(40.04)					
Mean	17.2	20.2	23.2	24.0	30.2	31.0	29.0	30.6
Sulphate of ammonia	3	(a) a	1d (b)					
None	14.0	18.5	20.4	27.6	24.0	25.8	23.8	24.4
0.5 cwt M per acre	1/.00	21.5	24.6	25.2	29.9	32.1	30.0	30.1
0.9 cwt N per acre	19.1	19.7	25.0	24.7	31.4	33.1	29.7	33.6
Sir Grand Card				1	0.00	24.0	25.5	54-1
Absent	16.3	(₹0.93)		ā	(,		
Present	18.0	20.4	22.1	24.0	30.9	30.4	29.5	30.4
ę		(30.80)				(+ l)	4.02	20.
	1.7	7.0	-2.1	0.0	1.3	1.1	-1.1	0.3
Muriate of Potash		(∓0.93)*						1
Absent	17.2	20.1	23.0	23.6	30.5	30.9	29.1	30.3
	1 • / 1	(+0,80)		24.4	30.0	31.1	28.8	30.8
Response	-0-1	0.3	0.3	0.8	-0.5	0.2	-0.3	0.5
Standard errors: (a) +0	1 2.80 Por TE	recommon Leo there	* F 200 E 200 E					
(b) 1-09 for all other comparisons	.09 for al	1 other compa	risons					
* Standard error for use in all commerisons other than vertical.	e in all c	comparisons of	her than ver	+: cal.				
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