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Yields of the Field Experiments 1949

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49/CF/1 Linseed - Rates and Application of Manures

49/CF/1 Linseed - Rates and Application of Manures, Rothamsted Research (1950) Yields Of The Field Experiments 1949, pp 89 - 90

49/Cf/1.1

LINSEED

The effect of sulphate of ammonia and of rates and methods of application of two types of a PK compound fertilizer.

R/JL Great Knott I, 1949

System of replication: 2 replicates of 2 randomized blocks of 8 plots each, the third order interaction being confounded with block differences. To each block were added 4 plots without compound fertilizer, 2 of these receiving sulphate of ammonia and 2 being untreated.

Area of each plot: 0.0212 acre.

Treatments: All combinations of
Sulphate of ammonia: none, 0.3 cwt N per acre.
PK compound fertilizer: Granular (13% P_2O_5 , 13% K_2O) or equivalent powder of superphosphate and muriate of potash.
Rate 1, P_2O_5 and K_2O each 0.3 cwt per acre or Rate 2, P_2O_5 and K_2O each 0.6 cwt per acre.
Broadcast or drilled.

Basal manuring: None.

Cultivations, etc.: Ploughed: Oct. Reploughed: Jan 14.
Springtined: Mar 2. Thistle barred: Mar 28. Seed and fertilizer drilled: Apr 11. Sulphate of ammonia and broadcast fertilizers applied, harrowed and rolled in: Apr 12. Sprayed with "Agroxone" to kill weeds: June 2.
Harvested: Aug 11.

Standard error per plot: Grain, 0.615 cwt per acre or 15.0%

Responses to Treatments

Response to	Mean	Sulphate of ammonia Abs.	Pres.	Granular Powder	PK mixture Rate 1	Rate 2	Broad-cast	Drilled	
	(±0.218)	Grain: mean yield 4.11 cwt per acre (±0.308)							
Sulphate of ammonia Powder-Granular Rate 2-Drilled	0.26 0.07 -0.31 -0.66	- 0.00 -0.59 -0.67	- 0.14 -0.03 -0.65	0.19 - -0.09 -0.75	0.33 - -0.53 -0.57	-0.02 0.29 - -0.12	0.54 -0.15 - -1.20	0.25 -0.02 0.23 -	0.27 0.16 -0.85 -
		Straw: mean yield 6.84 cwt per acre							
Sulphate of ammonia Powder-Granular Rate 2-Drilled	0.03 0.46 -0.85 -1.68	- 0.24 -0.86 -1.72	- 0.68 -0.84 -1.64	-0.19 - -0.60 -1.51	0.25 - -1.10 -1.85	0.02 0.71 - -0.35	0.04 0.21 - -3.01	-0.01 0.63 0.48 -	0.07 0.29 -2.18 -

Plots without PK mixture

Sulphate of ammonia Abs.	Pres.	Response	Mean
Grain: cwt per acre (±0.308)			
4.24	4.39	0.15	4.31
Straw: cwt per acre			
8.31	7.64	-0.67	7.98

49/0r/1.2