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## Yields of the Field Experiments 1948



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## 48/CA/2 Wheat - Residual Organics

## **Rothamsted Research**

Rothamsted Research (1949) 48/CA/2 Wheat - Residual Organics; Yields Of The Field Experiments 1948, pp 62 - 64

48/Ca/2.1

## WHEAT

Residual effects of various dungs, of additional straw to dungs, of rotted bracken and of straw with sulphate of ammonia added.

RW - Great Harpenden II 1948

System of replication: The design was intended to be a 5 x 5 lattice square in 3 replicates, but owing to the interchange of a pair of treatments in two of the three blocks, the lattice design was not attained, and it was impracticable to treat the experiment as other than 3 randomized blocks of 25 plots.

Area of each plot: 0.0171 acre.

Of the 25 plots in each replicate, 3 received no organic manures, and the remaining 22 were treated with the following organic manures, applied at two rates: rotted bracken (B) straw with sulphate of ammonia added (A), and nine dungs:— litter (W and X); from straw bale yards:— fresh, made with normal and heavy normal and heavy litter (Y and Z), stored (12 months), made ration and low ration plus sulphate of ammonia to straw) dung (L).

Rates of application: The commercial dung (L) and rotted bracken (B) at 8 and 16 tons per acre, the straw with sulphate of ammonia (A) at 2 and 4 tons of chaffed straw per acre plus normal dung from boxes (W) at the equivalent of 8 and 16 tons per acre weighed before storing, dung X, Y, Z, R and as 8 and 16 tons of fresh normal dung from bullock boxes, and dungs T and V at the same rates as Z.

- 46	etual rates Tons po	of application or acre	Litter straw lbs/head/day
Dungs	Level 1 5.37 4.79 8.66 10.78 R 6.79 7.76 TV 10.78	Lovel 2 10.74 9.58 17.32 21.55 13.57 15.51 21.55	9.0 18.0 2 17.1 9.8 19.7 16.1

48/Ca/2.2

Basal Manuring: 2 cwt. Sulphate of Ammonia per acre

Cultivations etc: Ploughed: Oct. 31 - Nov. 4. Rolled and springtine harrowed: Nov. 4 and again Nov. 5. Seed drilled: Nov. 6. Harrowed in: Nov. 7. Ring rolled: Apr. 23. Sulphate of ammonia drilled: carly May. Cut and shocked: Aug. 10-12. Reset shocks: Aug. 18. Raked and carted in: Aug. 19-20. Threshed Sept. 6-10. Variety: Bersee. Previous crop: Potatoes.

Standard error per plot: Grain 2.52 cwt. per acre or 5.75% (50d.f.)

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	Organic Manure		None Stored (bullock boxes) normal litter Stored (bullock boxes) heavy litter	(straw bale yards) heavy ld (straw bale yards) normal	(straw bale yards l	Stored tounken yard, Rotted Bracken Straw with Sulphate of Ammonia	Mean	Standard error (1): ± 0.84			