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Yields of the Field Experiments 1949



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49/BF/2 Market Garden - Second Crops

 $49/BF/2\ Market\ Garden$ - Second Crops, Rothamsted Research (1950) Yields Of The Field Experiments 1949, pp 59 - 63

49/Bf/2.1

WOBURN MARKET GARDEN EXPERIMENT

Leeks and Winter Cabbage 2nd Crops of 8th year

The use of heavy dressings of organic manures for making a market garden soil, and the effects of sulphate of ammonia.

JLE and JU -- Lansome 1949-50

System of replication: 2 series, one of each crop, each consisting of 4 randomized blocks of 10 plots each, certain interactions being confounded with block differences.

Area of each plot: 0.0125 acre.

Treatments:

Sulphate of ammonia: None, 0.4 cwt per acre to organic manure plots. None, 0.4, 0.8, 1.2 cwt per acre to plots without organic manure.

Organic manures applied to previous crops: Dung, sewage sludge compost, sewage sludge (West Middlesex), and vegetable compost, each at 15 and 30 tons per acre.

Basal manuring: None.

Cultivations, etc.: Scries A. Leeks.

Ploughed and harrowed: July 6-8. Rolled: July 20. Sulphate of ammonia applied, plots having 0.8 and 1.2 cwt N receiving only half their dressing: July 29. Leeks planted: July 30. Replanted where necessary: Various days in Aug and Sept. Hoed: Various days, Aug 27-Sept 5. Second dressing of sulphate of ammonia applied to plots having 0.8 and 1.2 cwt N: Sept 9. Weeded: Dec 1-7. Harvested: Feb 7-Mar 20. Varioty: Musselburgh. Previous crop: Peas.

Ploughed: Aug 6-8. Harrowed, sulphate of ammonia applied, plots having 0.8 and 1.2 cwt N receiving only half dressing: Aug 9. Cabbages planted, blocks Ia and Ib: Aug 9. Replanted blocks Ia and Ib where necessary: various days Aug and Sept. Cabbages planted, blocks IIa and IIb: Aug 9. Hoed: Sept 3-5. Second dressing of sulphate of ammonia applied to plots having 0.8 and 1.2 cwt N: Sept 9. Sprayed with nicotine: Sept 27. Harvested: Feb 9-Mar 7. Variety: Blocks Ia and Ib - January King, blocks IIa and IIb - Savoy. Previous crop: Globe Beet.

49/Bf/2.2

Notes Leeks: As replanting was necessary on several plots, the total weight was corrected to allow for this.

Winter Cabbages: As most of blocks Ia and Ib had to be replanted the means for each pair of blocks are shown separately.

Standard errors per plot: Leeks, total weight: 6.86 cwt per acre or 12.0% plant number: 0.877 thousands per acre or 2.0%

Summary of Results 49/Bf/2.3 Leeks Level of Sulphate of ammonia, Organic manuring ewt N per acre manures (tons per Williams 0.4 0.8 acro) None 1.2 Mean Total weight: cwt per acre (±4.85 Means ±3.43) 48.9 59.4 51.0 51.1 None 11.6 13131313 Dung Sludge compost Sludge Vegetable compost Plant number: thousands per acro (±0.620 Means ±0.438) None 42.1 43.0 42.0 Dung 15050505 Sludge compost Sludge Vegetable compost

^{*} Mean over None and O.4 cwt N per acre only.

49/Bf/2:4

Summary of Results

Cabbages

manuros no	vel of nuring	Sulpha cwt	nte of Ammor N per acro	nia			
	ns por None	0,2	0.4. 0.6	Moan			
Blocks Ia and In: January King, Marketable weight tone per cere							
None Dung Sludge compost Sludge Vegetable compost	2 12 15 30 15 30 15 30 15 30 15 30 15 30 15 30 15 30 15 30 15 30 30 30 30 30 30 30 30 30 30 30 30 30	2.63 3.66 2.78	5.12 2.58	2.74 74 74 74 75 75 75 75 75 75 75 75 75 75 75 75 75			
Blocks IIa and IIb: Savoys, Marketable weight: tons per cere							
None Dung	15 2.38	2-11	2:48 2:33	2:10*			
Sluge compost	15 2.38 30 2.67 15 2.05	2.38 2.31		2.53			
Sludge	30 2.18 15 2.59	2,16		2.17 2.37 1.82			
Vogetable compost	2.38 30 2.67 2.05 30 2.18 2.59 30 2.56 2.54 2.04	1.56 2.41 2.36		1.82 2.47 2.20			

^{*} Mean over None and 0.2 cwt N per acre only.

49/Bf/2.5

Summary of Results

Cabbagos

Organic manuros	Lovel of manuring	Sulphate of armonia cwt Naper acre					
1	(tons per	None	0.2	0.4	0.6	Moan	
Blocks Ia and	Ib: Janua	ry King per aer	Plan	t numbo	r: thou	isands	
None Dung	15 30	16.2 17.6	18.3 17.7 16.4	16.9	16.6	17.2* 17.6 17.0	
Sludge compost		17.5	17.0			17.2	
Sludgo	15.	17.0	17.0			17:0	
Vegetable comp		17.4	16.6	×	*	17.0 16.4	

Blocks IIa and IIb: Savoys, Plant number: thousands per sere

None Dung Sludge compost Sludge Vegetable compost	150 150 150 150 150 150 150	17.4 17.2 17.4 15.9 15.8 17.1 17.2 17.1	15.4 17.1 18.8 17.2 15.2 15.2 16.1	15.9	17.9	16.4* 17.21 16.4.7 16.7.28
) •	12000	TOOL			175.0

^{*} Means over None and 0.2 cwt N per acre only.